



## Publications at Port Said University

### SDG 7

Data set	Publications at Port Said University
Year range	2020 to 2024
Subject classification	ASJC
Filtered by	not filtered
Types of publications included	All publication types
Self-citations	-
Data source	Scopus
Date last updated	29 October 2025
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319 publications	
Dates	Some publication dates might be an approximation. Read more in <a href="https://service.elsevier.com/app/answers/detail/a_id/35535/supporthub/scival/">https://service.elsevier.com/app/answers/detail/a_id/35535/supporthub/scival/</a>

Title	Authors	Number of Authors	Scopus Author Ids	Year	Full date	Scopus Source title	Language
Hydrogen production, storage, utilisation and environmental impacts: a review	Osman, A.I.   Mehta, N.   Elgarahy, A.M.   Hefny, M.   Al-Hinai, A.   Al-Muhtaseb, A.H.   Rooney, D.W.	7	55362658600   57188922811   57192696143   56037605200   39761537200   57117662400   7006139453	2022	2022-02-01	Environmental Chemistry Letters	English
Conversion of biomass to biofuels and life cycle assessment: a review	Osman, A.I.   Mehta, N.   Elgarahy, A.M.   Al-Hinai, A.   Al-Muhtaseb, A.H.   Rooney, D.W.	6	55362658600   57188922811   57192696143   39761537200   57117662400   7006139453	2021	2021-12-01	Environmental Chemistry Letters	English
Biochar for agronomy, animal farming, anaerobic digestion, composting, water treatment, soil remediation, construction, energy storage, and carbon sequestration: a review	Osman, A.I.   Fawzy, S.   Farghali, M.   El-Azazy, M.   Elgarahy, A.M.   Fahim, R.A.   Maksoud, M.I.A.A.   Ajlan, A.A.   Yousry, M.   Saleem, Y.   Rooney, D.W.	11	55362658600   57218328110   57209493826   57208340688   57192696143   57159463700   57202917751   57669430200   57667438500   57786310800   7006139453	2022	2022-08-01	Environmental Chemistry Letters	English
Methods to prepare biosorbents and magnetic sorbents for water treatment: a review	Osman, A.I.   El-Monaem, E.M.A.   Elgarahy, A.M.   Aniagor, C.O.   Hosny, M.   Farghali, M.   Rashad, E.   Ejimofor, M.I.   López-Maldonado, E.A.   Ihara, I.   Yap, P.-S.   Rooney, D.W.   Ettaweil, A.S.	13	55362658600   57214070738   57192696143   57201201097   57222529755   57209493826   57226160124   57188579501   56272726300   23102939800   36140024400   7006139453   57204148976	2023	2023-08-01	Environmental Chemistry Letters	English
Membrane Technology for Energy Saving: Principles, Techniques, Applications, Challenges, and Prospects	Osman, A.I.   Chen, Z.   Elgarahy, A.M.   Farghali, M.   Mohamed, I.M.A.   Priya, A.K.   Hawash, H.B.   Yap, P.-S.	8	55362658600   57855097200   57192696143   57209493826   57226333251   57226315795   57202771929   36140024400	2024	2024-05-01	Advanced Energy and Sustainability Research	English
Materials, fuels, upgrading, economy, and life cycle assessment of the pyrolysis of algal and lignocellulosic biomass: a review	Osman, A.I.   Farghali, M.   Ihara, I.   Elgarahy, A.M.   Ayyad, A.   Mehta, N.   Ng, K.H.   Abd El-Monaem, E.M.   Ettaweil, A.S.   Hosny, M.   Hamed, S.M.   Fawzy, S.   Yap, P.-S.   Rooney, D.W.	14	55362658600   57209493826   23102939800   57192696143   58112306300   57188922811   56271854000   57214070738   57204148976   57222529755   55598507100   57218328110   36140024400   7006139453	2023	2023-06-01	Environmental Chemistry Letters	English
Optimizing biomass pathways to bioenergy and biochar application in electricity generation, biodiesel production, and biohydrogen production	Osman, A.I.   Lai, Z.Y.   Farghali, M.   Yiin, C.L.   Elgarahy, A.M.   Hammad, A.   Ihara, I.   Al-Fatesh, A.S.   Rooney, D.W.   Yap, P.-S.	10	55362658600   58139577400   57209493826   56223568100   57192696143   57200181654   23102939800   36682023300   7006139453   36140024400	2023	2023-10-01	Environmental Chemistry Letters	English
An Optimized Hybrid Fractional Order Controller for Frequency Regulation in Multi-Area Power Systems	Mohamed, E.A.   Ahmed, E.M.   Elmelegi, A.   Aly, M.   Elbaksawi, O.   Mohamed, A.-A.A.	6	59050958600   58170672000   57207952985   55160246200   57194940295   57014127300	2020	2020-01-01	IEEE Access	English
Thermochemical conversion strategies of biomass to biofuels, techno-economic and bibliometric analysis: A conceptual review	Elgarahy, A.M.   Hammad, A.   El-Sherif, D.M.   Abouzid, M.   Gaballah, M.S.   Elwakeel, K.Z.	6	57192696143   57200181654   57307212500   57204445082   57221645534   9433357000	2021	2021-12-01	Journal of Environmental Chemical Engineering	English
Biofuel production, hydrogen production and water remediation by photocatalysis, biocatalysis and electrocatalysis	Osman, A.I.   Elgarahy, A.M.   Ettaweil, A.S.   Abd El-Monaem, E.M.   El-Aqapa, H.G.   Park, Y.   Hwang, Y.   Ayati, A.   Farghali, M.   Ihara, I.   Al-Muhtaseb, A.H.   Rooney, D.W.   Yap, P.-S.   Sillanpää, M.	14	55362658600   57192696143   57204148976   57214070738   57267957300   57219351360   36623731200   43761851600   57209493826   23102939800   57117662400   7006139453   36140024400   7101751659	2023	2023-06-01	Environmental Chemistry Letters	English
Design and fabrication of Fe2O3/FeP heterostructure for oxygen evolution reaction electrocatalysis	Ahmad, I.   Ahmed, J.   Batool, S.   Zafar, M.N.   Hanif, A.   Zahidullah   Nazar, M.F.   Ul-Hamid, A.   Jabeen, U.   Dahshan, A.   Idrees, M.   Shehzadi, S.A.	12	57202517390   57213677012   57190688900   55584792053   57312926000   55583481400   24759084400   6601953025   39261698200   6602133954   59351245700   56288770600	2022	2022-02-15	Journal of Alloys and Compounds	English
Recent Advances in Biomass Pyrolysis Processes for Bioenergy Production: Optimization of Operating Conditions	Aboeela, D.   Saleh, H.   Attia, A.M.   Ehenawy, Y.   Majazi, T.   Bassyouni, M.	6	57216211196   58519969700   55396230100   57194448020   55961235600   57193261423	2023	2023-07-01	Sustainability (Switzerland)	English

An Adaptive D-FACTS for Power Quality Enhancement in an Isolated Microgrid	Elmetwaly, A.H.   Eldesouky, A.A.   Sallam, A.A.	3	57216260215   6507131518   7004461634	2020	2020-01-01	IEEE Access	English
Optimum Modified Fractional Order Controller for Future Electric Vehicles and Renewable Energy-Based Interconnected Power Systems	Ahmed, E.M.   Mohamed, E.A.   Elmelegi, A.   Aly, M.   Elbaksawi, O.	5	58170672000   59050958600   57207952985   55160246200   57194940295	2021	2021-01-01	IEEE Access	English
Recent advances in greenly synthesized nanoengineered materials for water/wastewater remediation: an overview	Elgarahy, A.M.   Elwakeel, K.Z.   Akhdhar, A.   Hamza, M.F.	4	57192696143   9433357000   57211919684   36727582700	2021	2021-05-01	Nanotechnology for Environmental Engineering	English
Synthesis and potential applications of cyclodextrin-based metal-organic frameworks: a review	Xu, Y.   Rashwan, A.K.   Osman, A.I.   Abd El-Monaem, E.M.   Elgarahy, A.M.   Eltaweil, A.S.   Omar, M.   Li, Y.   Mehanni, A.-H.E.   Chen, W.   Rooney, D.W.	11	57044928200   57216860538   55362658600   57214070738   57192696143   57204148976   57894989600   57191834563   22835568300   57087450700   7006139453	2023	2023-02-01	Environmental Chemistry Letters	English
Review on energy storage systems in microgrids	Georgious, R.   Refaat, R.   Garcia, J.   Daoud, A.A.	4	57188821287   57242490600   55664321200   36886391800	2021	2021-09-01	Electronics (Switzerland)	English
Biomass-to-sustainable biohydrogen: Insights into the production routes, and technical challenges	Eloffy, M.G.   Elgarahy, A.M.   Saber, A.N.   Hammad, A.   El-Sherif, D.M.   Shehata, M.   Mohsen, A.   Elwakeel, K.Z.	8	55919580700   57192696143   54954871200   57200181654   57307212500   57916024800   57859732100   9433357000	2022	2022-11-15	Chemical Engineering Journal Advances	English
A novel metaheuristic MPPT technique based on enhanced autonomous group Particle Swarm Optimization Algorithm to track the GMPP under partial shading conditions - Experimental validation	Refaat, A.   Khalifa, A.-E.   Elsakka, M.M.   Elhenawy, Y.   Kalas, A.   Elfar, M.H.	6	57207986070   57667659200   57195454644   57194448020   6602469009   57193610159	2023	2023-07-01	Energy Conversion and Management	English
Comprehensive investigation of Opto-electronic and transport properties of Cs <sub>2</sub> ScAgX <sub>6</sub> (X = Cl, Br, I) for solar cells and thermoelectric applications	Aslam Khan, M.   Alburaih, H.A.   Noor, N.A.   Dahshan, A.	4	26662424200   57193509752   35812147900   6602133954	2021	2021-09-01	Solar Energy	English
Sustainable management of food waste; pre-treatment strategies, techno-economic assessment, bibliometric analysis, and potential utilizations: A systematic review	Elgarahy, A.M.   Eloffy, M.G.   Alengebawy, A.   El-Sherif, D.M.   Gaballah, M.S.   Elwakeel, K.Z.   El-Quelish, M.	7	57192696143   55919580700   57217536176   57307212500   57221645534   9433357000   47360967500	2023	2023-05-15	Environmental Research	English
Emerging 2D-Nanostructured materials for electrochemical and sensing Application-A review	Noreen, S.   Tahir, M.B.   Hussain, A.   Nawaz, T.   Rehman, J.U.   Dahshan, A.   Alzaid, M.   Alrobei, H.	8	57518173000   57203854048   58285931100   57211691136   8512542600   6602133954   57193761447   57200047367	2022	2022-01-05	International Journal of Hydrogen Energy	English
Experimental and simulation study of multichannel air gap membrane distillation process with two types of solar collectors	Marni Sandid, A.   Bassyouni, M.   Nehari, D.   Elhenawy, Y.	4	57225008605   57193261423   8554710700   57194448020	2021	2021-09-01	Energy Conversion and Management	English
Performance evaluation of single multi-junction solar cell for high concentrator photovoltaics using minichannel heat sink with nanofluids	Ahmed, A.   Zhang, G.   Shanks, K.   Sundaram, S.   Ding, Y.   Mallick, T.	6	57214309902   57201844260   56755068800   57190937321   57203078526   6602652097	2021	2021-01-05	Applied Thermal Engineering	English
Enhanced electrochemical activity of Co <sub>3</sub> O <sub>4</sub> /Co <sub>9</sub> S <sub>8</sub> heterostructure catalyst for water splitting	Khan, N.A.   Ahmad, I.   Rashid, N.   Zafar, M.N.   Shehzad, F.K.   ullah, Z.   Ul-Hamid, A.   Nazar, M.F.   Junaid, M.   Faheem, M.   Shafqat, S.S.   Jabeen, U.   Dahshan, A.	13	59644436400   57202517390   15136944200   55584792053   56527004000   58513736500   6601953025   24759084400   59901445100   57202237895   57021451200   39261698200   6602133954	2022	2022-08-22	International Journal of Hydrogen Energy	English
Assessment of floating photovoltaic productivity with fins-assisted passive cooling	Elminshawy, N.A.S.   El-Damhagi, D.G.   Ibrahim, I.A.   Elminshawy, A.   Osama, A.	5	56520325200   57193408017   57203242113   57218657528   57345484500	2022	2022-11-01	Applied Energy	English
Simulation and experimental performance analysis of partially floating PV system in windy conditions	Elminshawy, N.A.S.   Osama, A.   El-Damhagi, D.G.   Oterkus, E.   Mohamed, A.M.I.	5	56520325200   57345484500   57193408017   8345890200   57194436759	2021	2021-12-01	Solar Energy	English

A novel concentrated photovoltaic-driven membrane distillation hybrid system for the simultaneous production of electricity and potable water	Elminshawy, N.A.S.   Gadalla, M.A.   Bassyouni, M.   El-Nahhas, K.   Elminshawy, A.   Elhenawy, Y.	6	56520325200   14048292400   57193261423   58239442100   57218657528   57194448020	2020	2020-12-01	Renewable Energy	English
Synthesis, characterization and DFT molecular modeling of doped poly (para-nitroaniline-co-para-toluidine) thin film for optoelectronic devices applications	Abd-Elmageed, A.A.I.   Al-Hossainy, A.F.   Fawzy, E.M.   Almutlaq, N.   Eid, M.R.   Bourezgui, A.   Abdel-Hamid, S.M.S.   Elsharkawy, N.B.   Zwawi, M.   Abdel-Aziz, M.H.   Bassyouni, M.   Slimane, A.B.   Zoromba, M.S.	13	24390380800   6505746085   9275496200   57931448800   36183847400   57188561764   55032292500   57212109986   56584631800   36463135100   57193261423   6602968498   16305817700	2020	2020-01-01	Optical Materials	English
Extraction of maximum power from PV system based on horse herd optimization MPPT technique under various weather conditions	Refaat, A.   Ali, Q.A.   Elsakka, M.M.   Elhenawy, Y.   Majozi, T.   Korovkin, N.V.   Elfar, M.H.	7	57207986070   57470525500   57195454644   57194448020   55961235600   6601971248   57193610159	2024	2024-01-01	Renewable Energy	English
Thermo-electrical performance assessment of a partially submerged floating photovoltaic system	Elminshawy, N.A.S.   Osama, A.   Saif, A.M.   Tina, G.M.	4	56520325200   57345484500   15844161500   59205356400	2022	2022-05-01	Energy	English
Efficient fractional-order modified Harris hawks optimizer for proton exchange membrane fuel cell modeling	Yousri, D.   Mirjalili, S.   Machado, J.A.T.   Thanikanti, S.B.   elbaksawi, O.   Fathy, A.	6	56688582500   51461922300   55989030100   56267551500   57194940295   25654839300	2021	2021-04-01	Engineering Applications of Artificial Intelligence	English
Performance enhancement of a hybrid multi effect evaporation/membrane distillation system driven by solar energy for desalination	Elhenawy, Y.   Moustafa, G.H.   Attia, A.M.   Mansi, A.E.   Majozi, T.   Bassyouni, M.	6	57194448020   6603166380   55396230100   57427621200   55961235600   57193261423	2022	2022-12-01	Journal of Environmental Chemical Engineering	English
Doped poly (o-phenylenediamine -co- p-toluidine) fibers for polymer solar cells applications	Zoromba, M.S.   Al-Hossainy, A.F.	2	16305817700   6505746085	2020	2020-01-01	Solar Energy	English
Design and performance a novel hybrid membrane distillation/humidification–dehumidification system	Elhenawy, Y.   Fouad, K.   Bassyouni, M.   Majozi, T.	4	57194448020   57217049298   57193261423   55961235600	2023	2023-06-15	Energy Conversion and Management	English
Performance enhancement of flat-plate and parabolic trough solar collector using nanofluid for water heating application	AbdEl-Rady Abu-Zeid, M.   Elhenawy, Y.   Bassyouni, M.   Majozi, T.   Toderas, M.   Al-Qabandi, O.A.   Kishk, S.S.	7	56435865100   57194448020   57193261423   55961235600   55963977100   57548767000   57194787820	2024	2024-03-01	Results in Engineering	English
Tuning cationic/anionic dyes sorption from aqueous solution onto green algal biomass for biohydrogen production	Elgarahy, A.M.   Maged, A.   Elwakeel, K.Z.   El-Gohary, F.   El-Qelish, M.	5	57192696143   57211217930   9433357000   7003487679   47360967500	2023	2023-01-01	Environmental Research	English
Performance enhancement of concentrator photovoltaic systems using nanofluids	Elminshawy, A.   Morad, K.   Elminshawy, N.A.S.   Elhenawy, Y.	4	57218657528   57225262125   56520325200   57194448020	2021	2021-02-01	International Journal of Energy Research	English
Synthesis and characterization of Co-Al mixed oxide nanoparticles via thermal decomposition route of layered double hydroxide	Abdel-Aziz, M.H.   Zoromba, M.S.   Bassyouni, M.   Zwawi, M.   Alshehri, A.A.   Al-Hossainy, A.F.	6	36463135100   16305817700   57193261423   56584631800   25638201400   6505746085	2020	2020-04-15	Journal of Molecular Structure	English
Hydrogen production from wastewater, storage, economy, governance and applications: a review	Elgarahy, A.M.   Eloffy, M.G.   Hammad, A.   Saber, A.N.   El-Sherif, D.M.   Mohsen, A.   Abouzid, M.   Elwakeel, K.Z.	8	57192696143   55919580700   57200181654   54954871200   57307212500   57859732100   57204445082   9433357000	2022	2022-12-01	Environmental Chemistry Letters	English
An energy-economic analysis of a hybrid PV/wind/battery energy-driven hydrogen generation system in rural regions of Egypt	Elminshawy, N.A.S.   Diab, S.   Yassen, Y.E.S.   Elbaksawi, O.	4	56520325200   58822717100   57195454300   57194940295	2024	2024-03-01	Journal of Energy Storage	English
Performance and potential of a novel floating photovoltaic system in Egyptian winter climate on calm water surface	Elminshawy, N.A.S.   Mohamed, A.M.I.   Osama, A.   Amin, I.   Bassam, A.M.   Oterkus, E.	6	56520325200   57194436759   57345484500   57217016463   56769619600   8345890200	2022	2022-03-22	International Journal of Hydrogen Energy	English
A technical and economic evaluation of floating photovoltaic systems in the context of the water-energy nexus	Elminshawy, N.A.S.   Osama, A.   Gagliano, A.   Oterkus, E.   Tina, G.M.	5	56520325200   57345484500   7003725643   8345890200   59205356400	2024	2024-09-15	Energy	English
Advanced process integration for supercritical production of biodiesel: Residual waste heat recovery via organic Rankine cycle (ORC)	Aboelazayem, O.   Gadalla, M.   Alhajri, I.   Saha, B.	4	57194698086   14048292400   36242852100   7202946094	2021	2021-02-01	Renewable Energy	English

Polymer solar cell based on doped o-anthranilic acid and o-aminophenol copolymer	Zoromba, M.S.   Tashkandi, M.A.   Alshehri, A.A.   Abdel-Aziz, M.H.   Bassyouni, M.   Mahmoud, S.A.   Ben Slimane, A.   Al-Hossainy, A.F.	8	16305817700   57184164900   25638201400   36463135100   57193261423   57793260800   56149224500   6505746085	2020	2020-06-01	Optical Materials	English
Performance estimation of a mini-passive solar still via machine learning	Maddah, H.A.   Bassyouni, M.   Abdel-Aziz, M.H.   Zoromba, M.S.   Al-Hossainy, A.F.	5	57003304600   57193261423   36463135100   16305817700   6505746085	2020	2020-12-01	Renewable Energy	English
An innovative cooling technique for floating photovoltaic module: Adoption of partially submerged angle fins	Elminshawy, N.A.S.   Elminshawy, A.   Osama, A.	3	56520325200   57218657528   57345484500	2023	2023-10-01	Energy Conversion and Management: X	English
One-pot conversion of highly acidic waste cooking oil into biodiesel over a novel bio-based bi-functional catalyst	Naeem, M.M.   Al-Sakkari, E.G.   Boffito, D.C.   Gadalla, M.A.   Ashour, F.H.	5	57194205745   57191276223   35177220000   14048292400   57788821500	2021	2021-01-01	Fuel	English
Power management strategy based on adaptive neuro fuzzy inference system for AC microgrid	Fekry, H.M.   Eldesouky, A.A.   Kassem, A.M.   Abdelaziz, A.Y.	4	24449223000   6507131518   36930334100   7003870872	2020	2020-01-01	IEEE Access	English
Design and characterization of a vertical-axis micro tidal turbine for low velocity scenarios	Gharib Yosry, A.   Fernández-Jiménez, A.   Álvarez-Álvarez, E.   Blanco Marigorta, E.	4	57204932141   57216433417   57216442051   57189341741	2021	2021-06-01	Energy Conversion and Management	English
Catalytic fast pyrolysis of lignocellulosic biomass: Recent advances and comprehensive overview	El Bari, H.   Fanezoune, C.K.   Dorneanu, B.   Arellano-Garcia, H.   Majazi, T.   Elhenawy, Y.   Bayssi, O.   Hirt, A.   Peixinho, J.   Dhahak, A.   Gadalla, M.A.   Khashaba, N.H.   Ashour, F.H.	13	23975528100   58903457600   23977632000   7801441564   55961235600   57194448020   58496829400   58903535600   12773996900   57196939945   14048292400   57789685300   57788821500	2024	2024-03-01	Journal of Analytical and Applied Pyrolysis	English
Theoretical investigation of the temperature limits of an actively cooled high concentration photovoltaic system	Ahmed, A.   Shanks, K.   Sundaram, S.   Mallick, T.K.	4	57214309902   56755068800   57190937321   6602652097	2020	2020-04-01	Energies	English
Dual valorization of coastal biowastes for tetracycline remediation and biomethane production: A composite assisted anaerobic digestion	El-Qelish, M.   Maged, A.   Elwakeel, K.Z.   Bhatnagar, A.   Elgarahy, A.M.	5	47360967500   57211217930   9433357000   7202474586   57192696143	2024	2024-03-05	Journal of Hazardous Materials	English
Effectiveness of some novel heterocyclic compounds as corrosion inhibitors for carbon steel in 1 M HCl using practical and theoretical methods	Fouda, E.-A.   Abd el-Maksoud, S.A.   El-Sayed, E.H.   Elbaz, H.A.   Abousalem, A.S.	5	56231506400   57217865712   57150626600   57222962081   25645670000	2021	2021-05-07	RSC Advances	English
Coyote optimization based on a fuzzy logic algorithm for energy-efficiency in wireless sensor networks	Mohamed, A.   Saber, W.   Elnahry, I.   Hassanien, A.E.	4	57217369983   56081796100   57216269637   57192178208	2020	2020-01-01	IEEE Access	English
Toward a national life cycle assessment tool: Generative design for early decision support	Hassan, S.R.   Megahed, N.A.   Abo Eleinen, O.M.   Hassan, A.M.	4	57678804100   55941539500   57214334960   57214328061	2022	2022-07-15	Energy and Buildings	English
Integration of active solar cooling technology into passively designed facade in hot climates	Noaman, D.S.   Moneer, S.A.   Megahed, N.A.   El-Ghafour, S.A.	4	57173181300   57754105500   55941539500   35324439700	2022	2022-09-15	Journal of Building Engineering	English
Thermal regulation of partially floating photovoltaics for enhanced electricity production: A modeling and experimental analysis	Elminshawy, N.A.S.   Osama, A.   Naeim, N.   Elbaksawi, O.   Marco Tina, G.	5	56520325200   57345484500   57216907821   57194940295   59205356400	2022	2022-10-01	Sustainable Energy Technologies and Assessments	English
Experimental performance analysis of enhanced concentrated photovoltaic utilizing various mass flow rates of Al2O3-nanofluid: Energy, exergy, and exergoeconomic study	Elminshawy, N.   Elminshawy, A.   Osama, A.   Bassyouni, M.   Ancı, M.	5	56520325200   57218657528   57345484500   57193261423   36093844300	2022	2022-10-01	Sustainable Energy Technologies and Assessments	English
Facile synthesis of spin-coated poly (4-nitroaniline) thin film: Structural and optical properties	Abd-Elmageed, A.A.I.   Zoromba, M.S.   Hassanien, R.   Al-Hossainy, A.F.	4	57210728401   16305817700   25936401100   6505746085	2020	2020-11-01	Optical Materials	English
Exploring the potential of sheep wool as an eco-friendly insulation material: A comprehensive review and analytical ranking	Hetimy, S.   Megahed, N.   Eleinen, O.A.   Elghezawy, D.	4	58230125300   55941539500   57223402796   57224494477	2024	2024-04-01	Sustainable Materials and Technologies	English

Green hydrogen production ensemble forecasting based on hybrid dynamic optimization algorithm	Alhussan, A.A.   El-Kenawy, E.-S.M.   Saeed, M.A.   Ibrahim, A.   Abdelhamid, A.A.   Eid, M.M.   El-Said, M.   Khafaga, D.S.   Abualigah, L.   Elbaksawi, O.	10	57188740003   57191347112   57200638059   34876676400   55328560100   35795379100   57222167832   58088844800   57190984712   57194940295	2023	2023-01-01	Frontiers in Energy Research	English
Performance evaluation of a novel self-tuning particle swarm optimization algorithm-based maximum power point tracker for porton exchange membrane fuel cells under different operating conditions	Refaat, A.   Elbaz, A.   Khalifa, A.-E.   Mohamed Elsakka, M.   Kalas, A.   Hegazy Elfar, M.	6	57207986070   57668987700   57667659200   57195454644   6602469009   57193610159	2024	2024-02-01	Energy Conversion and Management	English
Conceptual design and numerical analysis of a novel floating desalination plant powered by marine renewable energy for Egypt	Amin, I.   Ali, M.E.A.   Bayoumi, S.   Oterkus, S.   Shawky, H.   Oterkus, E.	6	57217016463   57145634100   56304821100   55817858100   6603004002   8345890200	2020	2020-02-01	Journal of Marine Science and Engineering	English
Power management and optimized control of hybrid PV-BESS-grid integrated fast EV charging stations	Elsanabary, A.   Khairullah, K.   Aziz, N.F.A.   Mekhilef, S.	4	57221120034   59557046000   57221906825   57928298500	2024	2024-06-15	Journal of Energy Storage	English
Artificial neural network based prediction of ship speed under operating conditions for operational optimization	Bassam, A.M.   Phillips, A.B.   Turnock, S.R.   Wilson, P.A.	4	56769619600   23009867100   6603539652   57188866982	2023	2023-06-15	Ocean Engineering	English
Hydrogen-Rich Syngas and Biochar Production by Non-Catalytic Valorization of Date Palm Seeds	Sait, H.H.   Hussain, A.   Bassyouni, M.   Ali, I.   Kanthasamy, R.   Ayodele, B.V.   Elhenawy, Y.	7	24554608200   55765473200   57193261423   35399026000   56070146400   56862160400   57194448020	2022	2022-04-01	Energies	English
Systematic study of optoelectronic and thermoelectric properties of new lead-free halide double perovskites A2KGa16(A = Cs, Rb) for solar cell applications via ab-initio calculations	Waqas Mukhtar, M.   Ramzan, M.   Rashid, M.   Hussain, A.   Naz, G.   Oztekin Ciftci, Y.   Dahshan, A.   Znaidia, S.	8	57228246400   57217833046   57212141070   11043829500   24169325300   55906861200   6602133954   9249739800	2022	2022-11-01	Materials Science and Engineering: B	English
Prediction and assessment of automated lifting system performance for multi-storey parking lots powered by solar energy	Elhenawy, Y.   Hafez, G.   Abdel-Hamid, S.   Elbany, M.	4	57194448020   6603166380   55032292500   57216704068	2020	2020-09-01	Journal of Cleaner Production	English
Modelling the impact of lining and covering irrigation canals on underlying groundwater stores in the Nile Delta, Egypt	Abd-Elaty, I.   Pugliese, L.   Bali, K.M.   Grismer, M.E.   Eltarabily, M.G.	5	57204242191   55207467600   7004096197   7005636657   56990454800	2022	2022-01-01	Hydrological Processes	English
Water Desalination Using Solar Thermal Collectors Enhanced by Nanofluids	Zakaria, M.   Sharaky, A.M.   Al-Sherbini, A.-S.   Bassyouni, M.   Rezakazemi, M.   Elhenawy, Y.	6	57339088400   56676831900   57202949127   57193261423   36716882000   57194448020	2022	2022-01-01	Chemical Engineering and Technology	English
A Comparative Review on Single Phase Transformerless Inverter Topologies for Grid-Connected Photovoltaic Systems	Kibria, M.F.   Elsanabary, A.   Tey, K.S.   Mubin, M.   Mekhilef, S.	5	57203226751   57221120034   55681717400   25930079700   57928298500	2023	2023-02-01	Energies	English
Synthesis, characterization, and photosensitizer applications for dye-based on ZrO2- acriflavine nanocomposite thin film [ZrO2+ACF]C	Abd El-Aal, M.   Mogharbel, R.T.   Ibrahim, A.   Almutlaq, N.   Sh Zoromba, M.   Al-Hossainy, A.F.   Ibrahim, S.M.	7	57195713914   57208178810   57218682722   57931448800   57324117200   6505746085   9940388100	2022	2022-02-15	Journal of Molecular Structure	English
Evaluation of Storage Stability for Biocrude Derived from Hydrothermal Liquefaction of Microalgae	Liu, G.   Du, H.   Sailikebuli, X.   Meng, Y.   Liu, Y.   Wang, H.   Zhang, J.   Wang, B.   Saad, M.G.   Li, J.   Wang, W.	11	56158826100   57216317041   57226004404   59592900300   57226031726   55236435900   56703819200   57205455570   59633698700   57044542300   57196076658	2021	2021-07-01	Energy and Fuels	English
Experimental study of simultaneous effect of evacuated tube collectors coupled with parabolic reflectors on traditional single slope solar still efficiency	Farghaly, M.B.   Alahmadi, R.N.   Sarhan, H.H.   Abdelghany, E.S.	4	57463330800   57222054717   58099445800   55805729300	2023	2023-09-01	Case Studies in Thermal Engineering	English
Single-stage waste oil conversion into biodiesel via sonication over bio-based bifunctional catalyst: Optimization, preliminary techno-economic and environmental analysis	Naeem, M.M.   Al-Sakkari, E.G.   Boffito, D.C.   Rene, E.R.   Gadalla, M.A.   Ashour, F.H.	6	57194205745   57191276223   57558049200   14523428600   14048292400   57788821500	2023	2023-06-01	Fuel	English

Retrofit of heat exchanger networks by graphical Pinch Analysis - A case study of a crude oil refinery in Kuwait	Alhajri, I.H.   Cadalla, M.A.   Abdelaziz, O.Y.   Ashour, F.H.	4	36242852100   14048292400   56725916500   57788821500	2021	2021-08-01	Case Studies in Thermal Engineering	English
Energy and exergy analyses of new cooling schemes based on a serpentine configuration for a high concentrator photovoltaic system	Ahmed, A.   Shanks, K.   Sundaram, S.   Mallick, T.	4	57214309902   56755068800   57190937321   6602652097	2021	2021-11-25	Applied Thermal Engineering	English
Response Surface Optimisation of Vertical Axis Wind Turbine at low wind speeds	Elsakka, M.M.   Ingham, D.B.   Ma, L.   Pourkashanian, M.   Moustafa, G.H.   Elhenawy, Y.	6	57195454644   35560744900   56727012700   7004225021   6603166380   57194448020	2022	2022-11-01	Energy Reports	English
Numerical hydrodynamics-based design of an offshore platform to support a desalination plant and a wind turbine in Egypt	Amin, I.   Ali, M.E.A.   Bayoumi, S.   Balah, A.   Oterkus, S.   Shawky, H.   Oterkus, E.	7	57217016463   57145634100   56304821100   57222991321   55817858100   6603004002   8345890200	2021	2021-06-01	Ocean Engineering	English
Performance analysis of reinforced epoxy functionalized carbon nanotubes composites for vertical axis wind turbine blade	Elhenawy, Y.   Fouad, Y.   Marouani, H.   Bassyouni, M.	4	57194448020   6603123645   24179093600   57193261423	2021	2021-01-01	Polymers	English
Techno-economic multi-objective reactive power planning in integrated wind power system with improving voltage stability	Eladl, A.A.   Basha, M.I.   ElDesouky, A.A.	3	57190392842   57558692300   6507131518	2023	2023-01-01	Electric Power Systems Research	English
Numerical investigation of the indoor thermal behaviour based on PCMs in a hot climate	Ismail, R.M.   Megahed, N.A.   Eltarabily, S.	3	57669807700   55941539500   57218372332	2022	2022-01-01	Architectural Science Review	English
Recycling of catering waste for sequential production of biohydrogen and biomethane; pre-treatments, batch, and continuous mode studies	Elwakeel, K.Z.   Elgarahy, A.M.   Alghamdi, H.M.   El-Qelish, M.	4	9433357000   57192696143   58170757700   47360967500	2023	2023-10-01	Journal of Environmental Chemical Engineering	English
Photodeposition Conditions of Silver Cocatalyst on Titanium Oxide Photocatalyst Directing Product Selectivity in Photocatalytic Reduction of Carbon Dioxide with Water	Hammad, A.   Anzai, A.   Zhu, X.   Yamamoto, A.   Ootsuki, D.   Yoshida, T.   EL-Shazly, A.   Elkady, M.   Yoshida, H.	9	57200181654   57194692434   59043770800   56688048400   55325536800   24447278100   7005992509   57210801492   55515756200	2020	2020-04-01	Catalysis Letters	English
Combined experimental and TDDFT computations for the structural and optical properties for poly (ortho phenylene diamine) thin film with different surfactants	Bourezgui, A.   Al-Hossainy, A.F.   El Azab, I.H.   Alresheedi, F.   Mahmoud, S.A.   Bassyouni, M.   Abdel-Aziz, M.H.   Zoromba, M.S.	8	57188561764   6505746085   53363409300   57221772393   57793260800   57193261423   36463135100   16305817700	2021	2021-03-01	Journal of Materials Science: Materials in Electronics	English
Conducting polymer thin film for optoelectronic devices applications	Abdel-Aziz, M.H.   Zwawi, M.   Al-Hossainy, A.F.   Zoromba, M.S.	4	36463135100   56584631800   6505746085   16305817700	2021	2021-06-01	Polymers for Advanced Technologies	English
Optoelectronic and photocatalytic properties of GaN, GeS and SiS monolayers and their vdW heterostructures	Abid, A.   Haneef, M.   Ali, S.   Dahshan, A.	4	57219252095   41261303600   57188842948   6602133954	2022	2022-02-01	Journal of Physics and Chemistry of Solids	English
Improvement of the thermal stability and optical properties for poly (ortho phenylene diamine) using soft templates	Zoromba, M.S.   Al-Hossainy, A.F.   Mahmoud, S.A.   Bourezgui, A.   Shaaban, E.R.	5	16305817700   6505746085   57793260800   57188561764   12344915200	2020	2020-12-05	Journal of Molecular Structure	English
Physical properties of KTaO3 compound for optoelectronic and thermoelectric applications: A DFT study	Sarfraz, S.   Aldaghfag, S.A.   Butt, M.K.   Yaseen, M.   Zahid, M.   Dahshan, A.	6	57719898100   57196391740   57215541743   57200302650   37082505600   6602133954	2022	2022-09-01	Materials Science in Semiconductor Processing	English
Optimal parameters identification for PEMFC using autonomous groups particle swarm optimization algorithm	Elfar, M.H.   Fawzi, M.   Serry, A.S.   Elsakka, M.   Elgamal, M.   Refaat, A.	6	57193610159   24780397300   57260188300   57195454644   57203775079   57207986070	2024	2024-06-05	International Journal of Hydrogen Energy	English
Polypyrrole/functionalized multi-walled carbon nanotube composite for optoelectronic device application	Zwawi, M.   Attar, A.   Al-Hossainy, A.F.   Abdel-Aziz, M.H.   Zoromba, M.S.	5	56584631800   56009628400   6505746085   36463135100   16305817700	2021	2021-12-01	Chemical Papers	English
Physical characteristics of barium based cubic perovskites	Shakoor, F.   Aldaghfag, S.A.   Yaseen, M.   Butt, M.K.   Mubashir, S.   Iqbal, J.   Zahid, M.   Murtaza, A.   Dahshan, A.	9	57225909566   57196391740   57200302650   57215541743   57222746403   57212516974   37082505600   57188968496   6602133954	2021	2021-09-16	Chemical Physics Letters	English

One-dimensional ternary conducting polymers blend with 9.26% power conversion efficiency for photovoltaic devices applications	Abdel-Aziz, M.H.   Maddah, H.A.   Sh. Zoromba, M.   Al-Hossainy, A.F.	4	36463135100   57003304600   57324117200   6505746085	2023	2023-03-01	Alexandria Engineering Journal	English
Experimental and numerical simulation of solar membrane distillation and humidification – dehumidification water desalination system	Elhenawy, Y.   Bassyouni, M.   Fouad, K.   Sandid, A.M.   Abu-Zeid, M.A.E.-R.   Majozi, T.	6	57194448020   57193261423   57217049298   57225008605   56435865100   55961235600	2023	2023-10-01	Renewable Energy	English
Yield and energy outputs analysis of sawdust biomass pyrolysis	Elhenawy, Y.   Fouad, K.   Bassyouni, M.   Al-Qabandi, O.A.   Majozi, T.	5	57194448020   57217049298   57193261423   57548767000   55961235600	2024	2024-04-01	Energy Conversion and Management: X	English
Dragonfly-Based Joint Delay/Energy LTE Downlink Scheduling Algorithm	Nashaat, H.   Refaat, O.   Zaki, F.W.   Shaalan, I.E.	4	41561671500   57500915400   7006667464   55825704700	2020	2020-01-01	IEEE Access	English
Experimental and multiphase modeling of small vertical-axis hydrokinetic turbine with free-surface variations	Yosry, A.G.   Álvarez, E.Á.   Valdés, R.E.   Panda, A.   Marigorta, E.B.	5	57204932141   57216442051   57208819552   57205551351   57226002189	2023	2023-02-01	Renewable Energy	English
A renewable lignin-derived bio-oil for boosting the oxidation stability of biodiesel	Umar, Y.   Velasco, O.   Abdelaziz, O.Y.   Aboelazayem, O.   Gadalla, M.A.   Hulteberg, C.P.   Saha, B.	7	57210594485   57316388700   56725916500   57194698086   14048292400   57095795900   7202946094	2022	2022-01-01	Renewable Energy	English
Comparison of the Computational Fluid Dynamics Predictions of Vertical Axis Wind Turbine Performance Against Detailed Pressure Measurements	Elsakka, M.M.   Ingham, D.B.   Ma, L.   Pourkashanian, M.	4	57195454644   35560744900   56727012700   7004225021	2021	2021-01-01	International Journal of Renewable Energy Research	English
Physical structure, TD-DFT computations, and optical properties of hybrid nanocomposite thin film as optoelectronic devices	Zoromba, M.S.   Maddah, H.A.   Abdel-Aziz, M.H.   Al-Hossainy, A.F.	4	16305817700   57003304600   36463135100   6505746085	2022	2022-08-25	Journal of Industrial and Engineering Chemistry	English
Aqueous Phase from Hydrothermal Liquefaction: Composition and Toxicity Assessment	Kulikova, Y.   Klementev, S.   Sirotkin, A.   Mokrushin, I.   Bassyouni, M.   Elhenawy, Y.   El-Hadek, M.A.   Babich, O.	8	57982159500   58250220900   8127073300   35364826700   57193261423   57194448020   36956146400   55226327700	2023	2023-05-01	Water (Switzerland)	English
Fabrication, characterization, TD-DFT, optical and electrical properties of poly (aniline-co-para nitroaniline)/ZrO2 composite for solar cell applications	Attar, A.   Alharthy, R.D.   Zwawi, M.   Algarni, M.   Albatati, F.   Bassyouni, M.   Abdel-Aziz, M.H.   Zoromba, M.S.   Al-Hossainy, A.F.	9	56009628400   35301930700   56584631800   55363754600   57219907293   57193261423   36463135100   16305817700   6505746085	2022	2022-05-25	Journal of Industrial and Engineering Chemistry	English
Nickel Oxide Nanoparticles Application for Enhancing Biogas Production Using Certain Wastewater Bacteria and Aquatic Macrophytes Biomass	Salama, A.M.   Helmy, E.A.   Abd El-g'hany, T.M.   Ganash, M.	4	57214234912   55599907500   59158411000   55350999600	2021	2021-04-01	Waste and Biomass Valorization	English
Relevance of monocrystalline and thin-film technologies in implementing efficient grid-connected photovoltaic systems in historic buildings in Port Fouad city, Egypt	Badawy, N.M.   Hosam Salah, E.S.   Waseef, A.A.E.	3	56736588300   57215091733   57215093646	2022	2022-12-01	Alexandria Engineering Journal	English
Evolution of ion-acoustic soliton waves in Venus's ionosphere permeated by the solar wind	Afify, M.S.   Elkamash, I.S.   Shihab, M.   Moslem, W.M.	4	47460907000   57191904377   55194380400   6602434321	2021	2021-06-15	Advances in Space Research	English
Conceptual design of a novel partially floating photovoltaic integrated with smart energy storage and management system for Egyptian North Lakes	Bassam, A.M.   Amin, I.   Mohamed, A.   Elminshawy, N.A.S.   Soliman, H.Y.M.   Elhenawy, Y.   Premchander, A.   Oterkus, S.   Oterkus, E.	9	56769619600   57217016463   57194436759   56520325200   35191315100   57194448020   57813082400   55817858100   8345890200	2023	2023-07-01	Ocean Engineering	English
Model-assisted active disturbance rejection controller for maximum efficiency schemes of DFIG-based wind turbines	Sobhy, A.   Lei, D.	2	57260188300   56390843900	2021	2021-11-01	International Transactions on Electrical Energy Systems	English
A Recommendation System for Electric Vehicles Users Based on Restricted Boltzmann Machine and WaterWheel Plant Algorithms	Ibrahim, A.   El-Kenawy, E.-S.M.   Eid, M.M.   Abdelhamid, A.A.   El-Said, M.   Alharbi, A.H.   Khafaga, D.S.   Awad, W.A.   Rizk, R.Y.   Bailek, N.   Saeed, M.A.	11	34876676400   57191347112   35795379100   55328560100   57222167832   57695465800   58088844800   54408044300	2023	2023-01-01	IEEE Access	English



			26649135100  57194079387  57200638059				
Experimental investigation of two novel arrangements of air gap membrane distillation module with heat recovery	Elhenawy, Y.   Moustafa, G.H.   Abdel-Hamid, S.M.S.   Bassyouni, M.   Elsakka, M.M.	5	57194448020  6603166380  55032292500  57193261423  57195454644	2022	2022-11-01	Energy Reports	English
A Comparative Study of MPPT for PV System Based on Modified Perturbation Observation Method	Osman, M.H.   Ahmed, M.K.   Refaat, A.   Korovkin, N.V.	4	57192296057  57216122067  57207986070  6601971248	2021	2021-01-26	Proceedings of the 2021 IEEE Conference of Russian Young Researchers in Electrical and Electronic Engineering, ElConRus 2021	English
Optical constants of ternary Cux(Ge30Se70)100-x thin films for solar cell applications	Aly, K.A.   Saddeek, Y.B.   Dahshan, A.	3	13006429400  6603305023  6602133954	2020	2020-11-01	Optical Materials	English
Enviro-economic and optimal hybrid energy system: Photovoltaic-biogas-hydro-battery system in rural areas of Pakistan	Mukhtar, S.   Muhammad, S.   Alyousef, H.A.   Khan, W.   Shah, R.   El-Tantawy, S.A.	6	26635595600  57200603264  57209651907  59250298600  57206692659  36056062500	2024	2024-08-30	Heliyon	English
Toward Enhancing the Energy Efficiency and Minimizing the SLA Violations in Cloud Data Centers	Elsedimy, E.I.   Algarni, F.	2	57195491716  55339318200	2021	2021-01-01	Applied Computational Intelligence and Soft Computing	English
Development and implementation of two-stage boost converter for single-phase inverter without transformer for PV systems	Elnaghi, B.E.   Dessouki, M.E.   Abd-Alwahab, M.N.   Elkholy, E.E.	4	57189245011  55444215800  57211601082  36479761600	2020	2020-01-01	International Journal of Electrical and Computer Engineering	English
Synthesis, characterization, DFT-TDDFT calculations and optical properties of a novel pyrazole-1,2,3-triazole hybrid thin film	El Azab, I.H.   Gobouri, A.A.   Altalhi, T.A.   El-Sheshtawy, H.S.   Almutlaq, N.   Maddah, H.A.   Zoromba, M.S.   Abdel-Aziz, M.H.   Bassyouni, M.   Ibrahim, A.   Alanazy, A.   Alresheedi, B.A.   Al-Hossainy, A.F.	13	53363409300  14008136500  37066948100  8320599000  57931448800  57003304600  16305817700  36463135100  57193261423  57218682722  57204050453  57262765900  6505746085	2021	2021-12-01	Optik	English
Heuristic Approach for Net-Zero Energy Residential Buildings in Arid Region Using Dual Renewable Energy Sources	Ismaeil, E.M.H.   Sobaih, A.E.E.	2	57732309400  43762250600	2023	2023-03-01	Buildings	English
Correction to: Hydrogen production, storage, utilisation and environmental impacts: a review (Environmental Chemistry Letters, (2022), 20, 1, (153-188), 10.1007/s10311-021-01322-8)	Osman, A.I.   Mehta, N.   Elgarahy, A.M.   Hefny, M.   Al-Hinai, A.   Al-Muhtaseb, A.H.   Rooney, D.W.	7	55362658600  57188922811  57192696143  56037605200  39761537200  57117662400  7006139453	2022	2022-06-01	Environmental Chemistry Letters	English
Enhancing Heating Environment and Sustainable Finishing Materials in Healthcare Buildings	Ismaeil, E.M.H.   Sobaih, A.E.E.	2	57732309400  43762250600	2022	2022-10-01	Buildings	English
Aspen Plus simulation of a low capacity organic Rankine cycle heated by solar energy	Shalaby, S.M.   Gadalla, M.A.   El Sayed, A.R.   Meliha, E.M.   Abosheisha, H.F.	5	36675678700  14048292400  45861046500  57360391100  13205226100	2022	2022-04-01	Energy Reports	English
New analytical assessment for fast and complete pre-fault restoration of grid-connected FSWTs with fuzzy-logic pitch-angle controller	Salem, A.A.   ElDesouky, A.A.   Alaboudy, A.H.K.	3	57225394173  6507131518  36625764500	2022	2022-03-01	International Journal of Electrical Power and Energy Systems	English
Ionospheric losses of Venus in the solar wind	Salem, S.   Moslem, W.M.   Lazar, M.   Sabry, R.   Tolba, R.E.   Schlickeiser, R.	6	57194020802  6602434321  56221036100  55908851100  56613068600  8915449200	2020	2020-01-01	Advances in Space Research	English
Multi-functional core-shell pomegranate peel amended alginate beads for phenol decontamination and bio-hydrogen production: Synthesis, characterization, and kinetics investigation	El-Qelish, M.   Elgarahy, A.M.   Ibrahim, H.S.   El-Kholly, H.K.   Gad, M.   M. Ali, M.E.	6	47360967500  57192696143  8406176300  57163905300  57224634703  7404486349	2023	2023-06-01	Biochemical Engineering Journal	English
Effect of using an infrared filter on the performance of a silicon solar cell for an ultra-high concentrator photovoltaic system	Ahmed, A.   Alzahrani, M.   Shanks, K.   Sundaram, S.   Mallick, T.K.	5	57214309902  57209834292  56755068800  57190937321  6602652097	2020	2020-10-15	Materials Letters	English

Trajectory optimization for UAV-assisted relay over 5G networks based on reinforcement learning framework	Abohashish, S.M.M.   Rizk, R.Y.   Elsedimy, E.I.	3	57189038559   26649135100   57195491716	2023	2023-12-01	Eurasip Journal on Wireless Communications and Networking	English
A fast-tracking MPPT-based modified coot optimization algorithm for PV systems under partial shading conditions	Talib Naser, A.   Khairullah Mohammed, K.   Fadilah Ab Aziz, N.   Elsanabary, A.   Binti Kamil, K.   Mekhilef, S.	6	58961576000   57223039333   57221906825   57221120034   59012578300   57928298500	2024	2024-10-01	Ain Shams Engineering Journal	English
Sustainable Building Optimization Model for Early-Stage Design	Elbeltagi, E.   Wefki, H.   Khallaf, R.	3	6603265905   57195283493   57190007287	2023	2023-01-01	Buildings	English
Potential application of solar still desalination in NEOM region	AbdelMeguid, H.   GHERISSI, A.   Elsaywy, M.   Aljohani, Z.   Asiri, A.   Saber, M.   Fouda, A.	7	36752277400   54884826800   55895191700   58897181300   58897130900   57197643801   57040770300	2024	2024-03-01	Applied Water Science	English
Implementation of boolean PSO for service restoration using distribution network reconfiguration simultaneously with distributed energy resources and capacitor banks	ElDesouky, A.A.   Reyad, E.M.   Mahmoud, G.A.	3	6507131518   57216876545   59868456400	2020	2020-01-01	International Journal of Renewable Energy Research	English
Energetic, environmental and economic (3E) analysis of a CSA algorithm optimized floatovoltaic system integrated with heat sink: Modeling with experimental validation	Elminshawy, N.A.S.   Osama, A.   Elbaksawi, O.   Arici, M.   Naeim, N.	5	56520325200   57345484500   57194940295   36093844300   57216907821	2024	2024-02-01	Engineering Analysis with Boundary Elements	English
Experimental analysis and numerical simulation of biomass pyrolysis	Elhenawy, Y.   Fouad, K.   Mansi, A.   Bassyouni, M.   Gadalla, M.   Ashour, F.   Majazi, T.	7	57194448020   57217049298   57427621200   57193261423   14048292400   57788821500   55961235600	2024	2024-10-01	Journal of Thermal Analysis and Calorimetry	English
The potential of optimized floating photovoltaic system for energy production in the Northern Lakes of Egypt	Elminshawy, N.A.S.   Ahmed, A.   Osama, A.   Kabeel, A.E.   Elbaksawi, O.	5	56520325200   57214309902   57345484500   6506626745   57194940295	2024	2024-04-01	Engineering Analysis with Boundary Elements	English
Combined experimental and theoretical study, characterization, and nonlinear optical properties of doped-poly (p-nitroaniline-co-o-aminophenol) thin films	Almutlag, N.   Al-Hossainy, A.F.   Zoromba, M.S.	3	57931448800   6505746085   16305817700	2021	2021-03-05	Journal of Molecular Structure	English
An examination of hub wind turbine utilizing fluid-structure interaction strategy	Yassen, Y.E.S.   Abdelhameed, A.S.   Elshorbagy, K.A.	3	57195454300   59158869600   6602886849	2023	2023-02-01	Alexandria Engineering Journal	English
Facile synthesis of single-crystal of o-phenylene diamine dihydrochloride as a polychloride and fabrication of high-performance semiconductor thin film	Zoromba, M.S.   Al-Hossainy, A.F.   Rzaigui, M.   Abdelkader, A.   Alresheedi, F.   El Azab, I.H.   Eissa, F.M.	7	16305817700   6505746085   7003985723   57858047400   57221772393   53363409300   8285399800	2021	2021-02-01	Optical Materials	English
Green retrofitting of heritage buildings based on (3Ts) framework: An applied case study	Shehata, A.O.   Hassan, A.M.   Shahda, M.M.   Megahed, N.A.	4	57882214000   57214328061   57204561477   55941539500	2024	2024-08-01	Frontiers of Architectural Research	English
Experimental validation of a low-cost maximum power point tracking technique based on artificial neural network for photovoltaic systems	Abouzeid, A.F.   Eleraky, H.   Kalas, A.   Rizk, R.   Elsakka, M.M.   Refaat, A.	6	57188975908   59208287200   6602469009   26649135100   57195454644   57207986070	2024	2024-12-01	Scientific Reports	English
Comprehensive Review of Renewable Energy Communication Modeling for Smart Systems	Ugwu, J.   Odo, K.C.   Ohanu, C.P.   García, J.   Georgious, R.	5	57419485300   57213424838   57331434800   55664321200   57188821287	2023	2023-01-01	Energies	English
Innovative metaheuristic algorithm with comparative analysis of MPPT for 5.5 kW floating photovoltaic system	Elbaksawi, O.   Elminshawy, N.A.S.   Diab, S.   Eltamaly, A.M.   Mahmoud, A.   Elhadidy, H.	6	57194940295   56520325200   58822717100   6507950667   58962059400   55964551000	2024	2024-05-01	Process Safety and Environmental Protection	English
Acid-hydrolysed furfural production from rice straw bio-waste: Process synthesis, simulation, and optimisation	Sherif, N.   Gadalla, M.   Kamel, D.	3	57515968100   14048292400   55902257200	2021	2021-10-01	South African Journal of Chemical Engineering	English
Holistic design of energy-efficient temporary houses: Meeting ventilation, heating, cooling, and lighting demands	Noaman, D.S.   El-Ghafour, S.A.	2	57173181300   35324439700	2024	2024-06-01	Journal of Building Engineering	English
Electrical and thermoelectrical properties of Bi2-xNaxTe3 alloys	Adam, A.M.   Diab, A.K.   El-Hadek, M.A.   Sayed, A.O.   Ibrahim, E.M.M.	5	34867768000   56384524700   36956146400   57780900700   34975087700	2022	2022-11-05	Journal of Alloys and Compounds	English

Solar Chimney Performance Driven Air Ventilation Promotion: An Investigation of Various Configuration Parameters	Hassan, A.M.	1	5.72E+10	2023	2023-11-01	Buildings	English
A Novel Circuit Configuration for the Integration of Modular Multilevel Converter With Large-Scale Grid-Connected PV Systems	Elsanabary, A.   Mekhilef, S.   Seyedmahmoudian, M.   Stojcevski, A.	4	57221120034   57928298500   55575761400   55884935900	2024	2024-03-01	IEEE Transactions on Energy Conversion	English
High-performance 2D/3D hybrid dimensional p-n heterojunction solar cell with reduced recombination rate by an interfacial layer	Hegazy, H.H.   Afzal, A.M.   Dahshan, A.   Iqbal, M.W.   Kebaili, I.	5	6603894858   57200106539   6602133954   57210908320   37107670200	2022	2022-09-02	Journal of Materials Chemistry C	English
A Novel Model Predictive Speed Controller for PMSG in Wind Energy Systems	Abuhashish, M.N.   Daoud, A.A.   Elfarg, M.H.	3	57654690000   36886391800   57193610159	2022	2022-01-01	International Journal of Renewable Energy Research	English
New Analysis Framework of Lyapunov-Based Stability for Hybrid Wind Farm Equipped with FRT: A Case Study of Egyptian Grid Code	Salem, A.A.   Eldesouky, A.A.   Farahat, A.A.   Abdelsalam, A.A.	4	57225394173   6507131518   57198207780   46060962400	2021	2021-01-01	IEEE Access	English
Electrical, dielectric, I-V and antimicrobial behavior of cobalt incapacitated Prussian blue graphene ferrites composite	Aslam, A.   Ali, M.D.   Aftab, Z.E.H.   Fakhar, U.   ud-Din, S.Z.   Ahmad, A.   Khatid, U.   Amami, M.   Dahshan, A.	9	57224545137   57221004307   57219098789   57699433100   57223317098   59033407900   57701006800   6602764377   6602133954	2022	2022-07-01	Inorganic Chemistry Communications	English
Optical losses and durability of flawed Fresnel lenses for concentrated photovoltaic application	Alzahrani, M.   Ahmed, A.   Shanks, K.   Sundaram, S.   Mallick, T.	5	57209834292   57214309902   56755068800   57190937321   6602652097	2020	2020-09-15	Materials Letters	English
Thermal annealing effect on the structural and optical characteristics of silicon phthalocyanine dichloride thin films	El-Mallah, H.M.   Abd-El Salam, M.   ELesh, E.   El-Damhogi, D.G.	4	9636885600   57627558900   37053581400   57193408017	2020	2020-01-01	Optik	English
A retrofitting framework for improving curtain wall performance by the integration of adaptive technologies	Tolba, L.E.   El Mokadem, A.A.   Badawy, N.   Shahda, M.M.	4	58691984700   57204557935   56736588300   57204561477	2023	2023-12-01	Journal of Building Engineering	English
Optical component analysis for ultrahigh concentrated photovoltaic system (UHCPV)	Alzahrani, M.   Ahmed, A.   Shanks, K.   Sundaram, S.   Mallick, T.	5	57209834292   57214309902   56755068800   57190937321   6602652097	2021	2021-10-01	Solar Energy	English
Highly Efficient MPP Tracker Based on Adaptive Neuro-fuzzy Inference System for Stand-Alone Photovoltaic Generator System	Osman, M.H.   Seify, M.A.E.   Ahmed, M.K.   Korovkin, N.V.   Refaat, A.	5	57192296057   57763036800   57216122067   6601971248   57207986070	2022	2022-01-01	International Journal of Renewable Energy Research	English
Internal Power Balancing of an MMC-Based Large-Scale PV System Under Unbalanced Voltage Sags	Elsanabary, A.   Mekhilef, S.   Fadilah Ab Aziz, N.	3	57221120034   57928298500   57221906825	2024	2024-01-01	IEEE Journal of Emerging and Selected Topics in Power Electronics	English
Effect of (SbS) addition on the physical properties of quaternary (CdTe)100-x(SbS)x (0 ≤ x ≤ 28 at. %) glasses and band gap engineering	Boukhris, I.   Kebaili, I.   Neffati, R.   Dahshan, A.	4	22940331700   37107670200   6507263184   6602133954	2020	2020-07-01	Applied Physics A: Materials Science and Processing	English
Effects of turbulence modelling on the predictions of the pressure distribution around the wing of a small scale vertical axis wind turbine	Elsakka, M.M.   Ingham, D.B.   Ma, L.   Pourkashanian, M.	4	57195454644   35560744900   56727012700   7004225021	2020	2020-01-01	Proceedings of the 6th European Conference on Computational Mechanics: Solids, Structures and Coupled Problems, ECCM 2018 and 7th European Conference on Computational Fluid Dynamics, ECFD 2018	English
Alloyed Ag2SexS1-x quantum dots with red to NIR shift: The band gap tuning with dopant content for energy harvesting applications	Chand, S.   Dahshan, A.   Thakur, N.   Sharma, V.   Sharma, P.	5	58254854800   6602133954   7006697299   54379476800   35476163500	2020	2020-03-01	Infrared Physics and Technology	English
A reduced vector model predictive controller for a three-level neutral point clamped inverter with common-mode voltage suppression	Bebboukha, A.   Chouaib, L.   Meneceur, R.   Elsanabary, A.   Anees, M.A.   Mekhilef, S.   Zaitsev, I.   Bajaj, M.   Berezhnychenko, V.	9	58704056800   56979242700   57215496057   57221120034   59454629900   57928298500   55606990800   57189048184   57207913770	2024	2024-12-01	Scientific Reports	English
Hybrid Floating Power Station driven by Renewable Energy for Saudi Arabia Coastal Areas	Eshra, N.M.   Amin, I.	2	36875832900   57217016463	2020	2020-06-01	2nd International Conference on Electrical, Communication and Computer Engineering, ICECCE 2020	English

Recent Advances in Floating Photovoltaic Systems	Ahmed, A.   Elsakka, M.   Elminshawy, N.   Mohamed, A.   Sundaram, S.	5	57214309902   57195454644   56520325200   57194436759   57190937321	2023	2023-12-01	Chemical Record	English
Fabrication, carrier transport mechanisms and photovoltaic properties of Au/silicon phthalocyanine dichloride/p-Si/Al heterojunction device	El-Damhogi, D.G.   El-Mallah, H.M.   el-Salam, M.A.   Elesh, E.	4	57193408017   9636885600   57192115177   37053581400	2020	2020-10-01	Optical and Quantum Electronics	English
Physical properties and DFT calculations of the hybrid organic polymeric nanocomposite thin film [P(An+o-Aph)+Glycine/TiO2]/HNC with 7.42% power conversion efficiency	Mansour, H.   Abd El-Halium, E.M.F.   Alrasheedi, N.F.H.   Zoromba, M.S.   Al-Hossainy, A.F.	5	57222545387   9275496200   57418411000   16305817700   6505746085	2022	2022-08-15	Journal of Molecular Structure	English
Simulation of glass fiber reinforced polypropylene nanocomposites for small wind turbine blades	Elhenawy, Y.   Fouad, Y.   Marouani, H.   Bassyouni, M.	4	57194448020   6603123645   24179093600   57193261423	2021	2021-04-01	Processes	English
Fabrication, characterization and optical properties of poly(p-phenylenediamine-co-o-aminophenol) nanostructure thin film	Al-Hossainy, A.F.   Zoromba, M.S.	2	6505746085   16305817700	2021	2021-04-01	Applied Physics A: Materials Science and Processing	English
Performance Enhancement of Solar Still Unit Using v-Corrugated Basin, Internal Reflecting Mirror, Flat-Plate Solar Collector and Nanofluids	Abu-Zeid, M.A.-R.   Elhenawy, Y.   Toderas, M.   Bassyouni, M.   Majozi, T.   Al-Qabandi, O.A.   Kishk, S.S.	7	56435865100   57194448020   55963977100   57193261423   55961235600   57548767000   57194787820	2024	2024-01-01	Sustainability (Switzerland)	English
Surface modification of Co3O4 nanostructures using wide range of natural compounds from rotten apple juice for the efficient oxygen evolution reaction	Laghari, A.J.   Aftab, U.   Shah, A.A.   Solangi, M.Y.   Abro, M.I.   Al-Saeedi, S.I.   Naeim, N.   Nafady, A.   Vigolo, B.   Emo, M.   Molina, A.I.   Tahira, A.   Ibhuboto, Z.H.	13	57700837200   57193860183   57199471965   57219711670   39360945500   56646502000   57216907821   14622777700   6603195854   55578810800   58075129600   56979188800   57191896991	2023	2023-05-12	International Journal of Hydrogen Energy	English
Experimental study on the motion response of an integrated floating desalination plant and offshore wind turbine on a non-ship platform	Amin, I.   Dai, S.   Day, S.   Ali, M.E.A.   Balah, A.   Shawky, H.   Oterkus, S.   Oterkus, E.	8	57217016463   56849824000   57218566878   57145634100   57222991321   6603004002   55817858100   8345890200	2021	2021-08-15	Ocean Engineering	English
Wind–water experimental analysis of small sc-darrieus turbine: An approach for energy production in urban systems	Gharib-Yosry, A.   Blanco-Marigorta, E.   Fernández-Jiménez, A.   Espina-Valdés, R.   Álvarez-álvarez, E.	5	57204932141   57189341741   57216433417   57208819552   57216442051	2021	2021-05-01	Sustainability (Switzerland)	English
From seashells to sustainable energy: Trailblazing the utilization of Anadara uropigimelana shells for sustainable biohydrogen production from leftover cooking oil	El-Qelish, M.   El-Shafai, S.A.   Azouz, R.A.M.   Rashad, E.   Elgarahy, A.M.	5	47360967500   6506919423   57205472437   57226160124   57192696143	2024	2024-04-01	Journal of Environmental Chemical Engineering	English
A demand side response scheme for enhancing power system security in the presence of wind power	El-Araby, E.E.   Yorino, N.	2	57208914011   7003572420	2023	2023-03-01	International Journal of Electrical Power and Energy Systems	English
A study of 2H and 1T phases of Janus monolayers and their van der Waals heterostructure with black phosphorene for optoelectronic and thermoelectric applications	Abid, A.   Haneef, M.   Ali, S.   Dahshan, A.	4	57219252095   41261303600   57188842948   6602133954	2022	2022-07-01	Journal of Solid State Chemistry	English
Fabrication and characterization of polypyrrole/multi-walled carbon nanotubes thin films using thermal evaporation	Attar, A.   Alharthy, R.D.   Zwawi, M.   Algarni, M.   Albatati, F.   Bassyouni, M.   Abdel-Aziz, M.H.   Zoromba, M.S.   Al-Hossainy, A.F.	9	56009628400   35301930700   56584631800   55363754600   57219907293   57193261423   36463135100   16305817700   6505746085	2021	2021-11-01	Polymers	English
Optoelectronic and photo response performance of n-tris phenylpyridinato iridium/p-Si heterojunction device for photovoltaic applications	El-Damhogi, D.G.   El-Shabaan, M.M.   Abul-Nasr, K.T.   Mohamed, Z.   Elesh, E.	5	57193408017   54888515300   58037922300   59505947400   37053581400	2023	2023-10-01	Chinese Journal of Physics	English
Study the Effect of Winglet Height Length on the Aerodynamic Performance of	Abdelghany, E.S.   Sarhan, H.H.   Alahmadi, R.   Farghaly, M.B.	4	55805729300   58099445800   57222054717   57463330800	2023	2023-07-01	Energies	English

Horizontal Axis Wind Turbines Using Computational Investigation							
Maximum Power Extraction from Polymer Electrolyte Membrane (PEM) Fuel Cell Based on Deterministic Particle Swarm Optimization Algorithm	Elbaz, A.   Elfar, M.H.   Kalas, A.   Refaat, A.	4	57668987700   57193610159   6602469009   57207986070	2022	2022-01-01	Proceedings of the 2022 Conference of Russian Young Researchers in Electrical and Electronic Engineering, ElConRus 2022	English
Design and synthesis of high-performance polymer blend solar cell	Hosny, M.M.   Abdel-Aziz, M.H.   Zoromba, M.S.   Al-Hossainy, A.F.	4	7004169772   36463135100   16305817700   6505746085	2024	2024-01-01	Journal of Materials Research and Technology	English
A simulation study of the effect of post-combustion amine-based carbon-capturing integrated with solar thermal collectors for combined cycle gas power plant	Ayyad, A.   Abbas, A.   Elminshawy, N.	3	58112306300   36154476000   56520325200	2021	2021-12-01	Discover Sustainability	English
Synthesis, structural and optical characterizations of ZrO <sub>2</sub> -bromothymol blue nanocomposite thin-film [ZrO <sub>2</sub> +BTB]C and its application: experimental and TDD-DFT computations	Mogharbel, R.T.   Al-Hossainy, A.F.   Ibrahim, A.   El-Aal, M.A.   Zoromba, M.S.   Ibrahim, S.M.   Yahia, A.   Farhan, N.	8	57208178810   59499324900   57218682722   57195713914   16305817700   9940388100   57695410700   58955979000	2022	2022-09-01	Journal of Materials Science: Materials in Electronics	English
Two Bio-inspired MPPT Algorithms to Harvest the Maximum Power from Partially Shaded PV Arrays	Khalifa, A.-E.   Refaat, A.   Kalas, A.   Elfar, M.H.	4	57667659200   57207986070   6602469009   57193610159	2022	2022-01-01	Proceedings of the 2022 Conference of Russian Young Researchers in Electrical and Electronic Engineering, ElConRus 2022	English
Forecasting wind power based on an improved al-Biruni Earth radius metaheuristic optimization algorithm	Saeed, M.A.   Ibrahim, A.   El-Kenawy, E.-S.M.   Abdelhamid, A.A.   El-Said, M.   Abualigah, L.   Alharbi, A.H.   Khafaga, D.S.   Elbaksawi, O.	9	57200638059   34876676400   57191347112   55328560100   57222167832   57190984712   57695465800   58088844800   57194940295	2023	2023-01-01	Frontiers in Energy Research	English
Forecasting Methods in Various Applications Using Algorithm of Estimation Regression Models and Converting Data Sets into Markov Model	El Genidy, M.M.   Beheary, M.S.	2	55198913900   6504203919	2022	2022-01-01	Complexity	English
Waste Cooking Oil Management in Egypt: Production of Biodiesel-Development of Rapid Test Method	Mohamed, M.   Sherif, N.   Aboelazayem, O.   Elazab, H.A.   Gadalla, M.   Saha, B.	6	57220667150   57515968100   57194698086   57197864132   14048292400   7202946094	2022	2022-01-01	Journal of Physics: Conference Series	English
Experimental investigation of a nano coating efficiency for dust mitigation on photovoltaic panels in harsh climatic conditions	Ahmed, A.   Elsakka, M.   Elhenawy, Y.   Amer, A.   Mansi, A.   Bassyouni, M.   Gadalla, M.   Refaat, A.	8	57214309902   57195454644   57194448020   57212308249   57427621200   57193261423   14048292400   57207986070	2024	2024-12-01	Scientific Reports	English
Enhanced biohydrogen production from thermally hydrolysed pulp and paper sludge via Al <sub>2</sub> O <sub>3</sub> and Fe <sub>3</sub> O <sub>4</sub> nanoparticles	Gatal, A.   Elgarahy, A.M.   Haroun, B.   Safwat, S.M.   El-Qelish, M.   Fahmi, A.A.	6	57223922085   57192696143   57211779252   57201744137   47360967500   57210659210	2024	2024-10-01	Chemical Engineering Research and Design	English
Probabilistic Assessment of Available Transfer Capability Incorporating Load and Wind Power Uncertainties	Reyad, H.W.   Elfar, M.   El-Araby, E.E.	3	58195957300   57193610159   57208914011	2023	2023-01-01	IEEE Access	English
Elastic moduli and theoretical estimations of physical properties of Ge <sub>3</sub> Se <sub>7</sub> -As <sub>2</sub> Te <sub>3</sub>	El-Denglawey, A.   Dahshan, A.   Aly, K.A.   Saddeek, Y.B.	4	57193526449   6602133954   13006429400   6603305023	2021	2021-11-01	Current Applied Physics	English
Furosemide drug as a corrosion inhibitor for carbon steel in 1.0 M hydrochloric acid	Abd El Maksoud, S.   Fouda, A.E.A.   Badawy, H.	3	57217865712   59133336000   58645214600	2024	2024-12-01	Scientific Reports	English
Combined experimental and TDDFT computational studies of the optical and electrical characteristic of luminol films-doped TiO <sub>2</sub> with 9.027% power conversion efficiency	Mansour, H.   Abd El Halium, E.M.F.   Alrasheedi, N.F.H.   Zoromba, M.S.   Al-Hossainy, A.F.	5	57222545387   9275496200   57418411000   16305817700   6505746085	2022	2022-03-01	Journal of Materials Science: Materials in Electronics	English
Improving Power Quality Problems of Isolated MG Based on ANN Under Different Operating Conditions Through PMS and ASSC Integration	Elmetwaly, A.H.   Eldesouky, A.A.   Fekry, H.M.   Younis, R.A.   Barnawi, A.B.   Elbarbary, Z.M.S.   Salem, A.A.	7	57216260215   6507131518   24449223000   57216768571   57222374001   57193766822   57225394173	2023	2023-01-01	IEEE Access	English
Enhancing Misalignment Tolerance Using Naturally Decoupled Identical Dual-Transmitter-Dual-Receiver Coils for Wireless EV Charging System	Imtiaz, T.   Elsanabary, A.   Mubin, M.   Soon, T.K.   Mekhilef, S.	5	57216687062   57221120034   25930079700   57245384600   57928298500	2024	2024-01-01	IEEE Journal of Emerging and Selected Topics in Power Electronics	English

Effect of the decrease of Pb concentration on the properties of pentamary mixed-halide perovskites CsPb8-xSnxIbR2 and CsPb8-xSnxI2Br (1≤x≤7) for solar-cell applications: A DFT study	Ahmed, H.   Jali, A.   Ilyas, S.Z.   Agathopoulos, S.   Ahmed, I.   Zhao, T.   Dahshan, A.	7	57212337148   57200511932   56651994700   55142324900   24480639300   8656170300   6602133954	2022	2022-02-01	Journal of Physics and Chemistry of Solids	English
Reliability and temperature limits of the focal spot of a primary optical component for an ultra-high concentrated photovoltaic system	Ahmed, A.   Alzahrani, M.   Shanks, K.   Sundaram, S.   Maltick, T.K.	5	57214309902   57209834292   56755068800   57190937321   6602652097	2022	2022-09-02	AIP Conference Proceedings	English
Exploring critical barriers towards the uptake of renewable energy usage in Egypt	Elba, H.   Hegazy, H.   Zhang, J.   Mahdi, I.M.   Abdel Rashid, I.   Hassan, H.M.	6	59175481300   57214440300   55358453700   59772955100   57208552553   36157895000	2024	2024-07-01	Innovative Infrastructure Solutions	English
Experimental and Numerical Performance Assessment of East-West Bifacial Photovoltaic Floating System in Freshwater Basins	Osama, A.   Tina, G.M.   Mannino, G.   Cucuzza, A.V.   Bizzarri, F.	5	57345484500   59205356400   57985317400   58136675500   56900967300	2024	2024-01-01	IEEE Access	English
Coupling DFIG-Based Wind Turbines with the Grid under Voltage Imbalance Conditions	Sobhy, A.   Abo-Khalil, A.G.   Lei, D.   Salameh, T.   Merabet, A.   Alkasrawi, M.	6	57260188300   12767147300   56390843900   36657654000   55328771000   9333556600	2022	2022-05-01	Sustainability (Switzerland)	English
Simulating mitigation scenarios for natural and artificial inlets closure through validated morphodynamic models	Masria, A.   El-Adawy, A.   Eltarabily, M.G.	3	56145426800   55625801900   56990454800	2021	2021-09-01	Regional Studies in Marine Science	English
A novel renewable energy powered zero liquid discharge scheme for RO desalination applications	Gadalla, M.A.   Abdel Fatah, A.   Elazab, H.A.	3	14048292400   56816932300   57197864132	2023	2023-12-01	Case Studies in Chemical and Environmental Engineering	English
Graphical analysis and revamping of crude distillation units under variable operational scenarios	Abo-mousa, A.G.   Kamel, D.A.   Elazab, H.A.   Gadalla, M.A.   Fouad, M.K.	5	57919230900   55902257200   57197864132   14048292400   7005777140	2023	2023-12-01	Case Studies in Chemical and Environmental Engineering	English
Technical and economic feasibility of the first wind farm on the coast of Mediterranean Sea	Ahmed, A.S.	1	1.63E+10	2021	2021-06-01	Ain Shams Engineering Journal	English
Comprehensive Optimisation of Biodiesel Production Conditions via Supercritical Methanolysis of Waste Cooking Oil	Aboelazayem, O.   Gadalla, M.   Saha, B.	3	57194698086   14048292400   7202946094	2022	2022-05-01	Energies	English
Impact of indium content on the thermoelectric power, dark conductivity, and photoconductivity of Ge-As-Te thin films	Znaidia, S.   Kebaili, I.   Boukhris, I.   Neffati, R.   Somaily, H.H.   Algarni, H.   Hegazy, H.H.   Aly, K.A.   Dahshan, A.	9	9249739800   37107670200   22940331700   6507263184   57170910600   55531579200   6603894858   13006429400   6602133954	2020	2020-03-01	Applied Physics A: Materials Science and Processing	English
A fuzzy-predictive current control with real-time hardware for PEM fuel cell systems	Kanouni, B.   Badoud, A.E.   Mekhilef, S.   Elsanabary, A.   Bajaj, M.   Zaitsev, I.	6	57345129000   36805436300   57928298500   57221120034   57189048184   59198121200	2024	2024-12-01	Scientific Reports	English
Hybrid compressed air energy storage system and control strategy for a partially floating photovoltaic plant	Bassam, A.M.   Elminshawy, N.A.S.   Oterkus, E.   Amin, I.	4	56769619600   56520325200   8345890200   57217016463	2024	2024-12-30	Energy	English
Real-time V2G simulator for grid system frequency and voltage regulation with fault ride-through capabilities	Anany, M.G.   ElDesouky, A.A.   Salem, A.A.	3	57215535206   6507131518   57225394173	2024	2024-09-01	Electric Power Systems Research	English
Environmentally-driven design of a floating desalination platform (Case study: Reverse osmosis floating desalination platform of ras gharib, Egypt)	Bayoumi, S.   Ali, M.E.A.   Amin, I.   El Torky, R.   Oterkus, S.   Shawky, H.   Oterkus, E.	7	56304821100   57145634100   57217016463   57224890987   55817858100   6603004002   8345890200	2021	2021-01-01	AIMS Energy	English
Advanced Maximum Adhesion Tracking Strategies in Railway Traction Drives	Abouzeid, A.F.   Guerrero, J.M.   Lejarza-Lasuen, L.   Muniategui-Aspiaz, I.   Endemano-Isasi, A.   Briz, F.	6	57188975908   35092407900   58602831200   57214931007   6508032491   6701332970	2024	2024-06-01	IEEE Transactions on Transportation Electrification	English
Offshore wind power integration to support weak grid voltage for industrial loads using VSC-HVDC transmission system	Daoud, A.A.   Abouzeid, A.F.   Dessouky, S.S.	3	36886391800   57188975908   8318327400	2021	2021-06-01	International Journal of Electrical and Computer Engineering	English
Power performance assessment of vertical-axis tidal turbines using an experimental test rig	Fernández-Jiménez, A.   Álvarez-álvarez, E.   López, M.   Fouz, M.   López, I.   Gharib-Yosry, A.   Claus, R.   Carballo, R.	8	57216433417   57216442051   7404123882   57208753592   23005118500   57204932141   57300089500   35291563900	2021	2021-10-01	Energies	English

A Modified Phase Shift Control of the Dual Active Bridge-Based Modular Power Electronic Transformer to Minimize the LVdc Side Voltage Ripples under Unbalanced Load Conditions	Fawzi, M.   Abdelsalam, I.   Aboushady, A.A.   Abdel Maksoud, S.A.	4	24780397300   57192650693   36469766500   57205477053	2022	2022-01-01	IEEE Access	English
Gamma radiation induced variation in structure formation and optical characteristics of evaporated tris [2-phenylpyridinato-C2,N]iridium(III) films prepared by electron beam evaporator in photovoltaic applications	Elesh, E.   El Damhogi, D.G.   Mohamed, Z.	3	37053581400   57193408017   59505947400	2023	2023-03-01	Physica Scripta	English
The Validation and Implementation of the Second-Order Adaptive Fuzzy Logic Controller of a Double-Fed Induction Generator in an Oscillating Water Column	Elnaghi, B.E.   Abelwhab, M.N.   Mohammed, R.H.   Abdel-Kader, F.E.S.   Ismaiel, A.M.   Dessouki, M.E.	6	57189245011   57196484456   58002610900   59157857100   36543907900   55444215800	2024	2024-01-01	Electronics (Switzerland)	English
Life cycle assessments of biofuel production from beach-cast seaweed by pyrolysis and hydrothermal liquefaction	Kulikova, Y.   Ilinykh, G.   Sliuser, N.   Babich, O.   Bassyouni, M.	5	57982159500   57201851767   56018223300   55226327700   57193261423	2024	2024-07-01	Energy Conversion and Management: X	English
Tunable electronic and magnetic properties of single layer CdS via Li substitutional doping: A first-principle study	Ur Rahman, A.   Sadiq, T.   Khan, R.   Anwar, R.   Gul, B.   Dahshan, A.	6	57195258508   57269868100   57655867400   58586418900   56448516000   6602133954	2022	2022-02-01	Journal of Physics and Chemistry of Solids	English
Efficiency of utilizing building information modeling tools for examining smart materials behavior in a hot climate	Mohamed, M.-A.T.   Megahed, N.A.   Shahda, M.M.   Eltarabily, S.	4	59037508700   55941539500   57204561477   57218372332	2024	2024-06-15	Journal of Building Engineering	English
Electronic, optical and magnetic characteristics of doped BeS	Ambreen, H.   Aldaghfag, S.A.   Yaseen, M.   Iqbal, J.   Zahid, M.   Dahshan, A.   Hegazy, H.H.	7	57212244047   57196391740   57200302650   57212516974   37082505600   6602133954   6603894858	2022	2022-06-01	Physica Scripta	English
Numerical Investigations on Latent Heat Storage Unit using Phase Change Material	Amer, A.E.   Lebedev, V.A.	2	57212308249   56479915200	2020	2020-07-28	Journal of Physics: Conference Series	English
Distortion management of the pulse without and in the presence of Compton scattering in a three level atomic configuration	Ali, W.   Ahmad, J.   Haneef, M.   Bacha, B.A.   Khan, H.   Abid, A.   Khan, B.   Dahshan, A.	8	57225995514   57225998096   41261303600   55900677900   55321256700   57219252095   57226028512   6602133954	2021	2021-07-01	European Physical Journal Plus	English
High-Performance Glazing for Enhancing Sustainable Environment in Arid Region's Healthcare Projects	Ismaeil, E.M.H.   Sobaih, A.E.E.	2	57732309400   43762250600	2023	2023-05-01	Buildings	English
Proposed hybrid power system for short route ferries	Yehia, W.   Kamar, L.   Hassan, M.A.   Moustafa, M.M.	4	15125094200   14829144800   57193804344   23094747900	2020	2020-01-01	Nase More	English
Maximum Power Point Tracking for Grid-tied PV System Using Adaptive Neuro-Fuzzy Inference System	Osman, M.H.   Elseify, M.A.   Ahmed, M.K.   Korovkin, N.V.   Refaat, A.	5	57192296057   57763036800   57216122067   6601971248   57207986070	2021	2021-01-01	Proceedings - ICOECS 2021: 2021 International Conference on Electrotechnical Complexes and Systems	English
Peridynamic Modelling of Propagation of Cracks in Photovoltaic Panels	Premchander, A.   Amin, I.   Oterkus, S.   Oterkus, E.   Shawky Elminshawy, N.A.	5	57813082400   57217016463   55817858100   8345890200   57812099500	2022	2022-01-01	Procedia Structural Integrity	English
A novel EPSO algorithm based on shifted sigmoid function parameters for maximizing the energy yield from photovoltaic arrays: An experimental investigation	Ali, Q.A.   Elsakka, M.M.   Korovkin, N.V.   Refaat, A.	4	57470525500   57195454644   6601971248   57207986070	2024	2024-12-01	Results in Engineering	English
Enhancement of the performance of wireless sensor networks using the multihop multiantenna power beacon path selection method in intelligent structures	Hammad, A.   Mohamed, M.A.   Abdel-Atty, H.M.	3	57203371871   57215559587   36175601000	2022	2022-11-01	PLoS ONE	English
Switching schemes of the bidirectional buck-boost converter for energy storage system	Georgious, R.   Saeed, S.   Garcia, J.   Garcia, P.	4	57188821287   7102086752   55664321200   7201693822	2020	2020-11-01	2020 IEEE Vehicle Power and Propulsion Conference, VPPC 2020 - Proceedings	English
Optimal performance of actuator disc models for horizontal-axis turbines	Wood, D.H.   Hammam, M.M.	2	7404400936   57189731134	2022	2022-11-02	Frontiers in Energy Research	English

Techno-economic assessment of vertical axis wind turbine driven RO desalination with compressed air energy storage for remote communities	Alzahrani, K.M.   Hee, J.L.   Elsakka, M.   Ingham, D.   Ma, L.   Pourkashanian, M.	6	57193703105   59320432300   57195454644   35560744900   56727012700   7004225021	2024	2024-12-21	Desalination	English
Highly flexible wind turbine blades utilizing corrugated surface hinges	Elsheikh, M.E.	1	5.72E+10	2021	2021-06-01	Coatings	English
Electrical properties of ternary Cux(Ge3Se7)100-x thin films	El-Denglawey, A.   Aly, K.A.   Saddeek, Y.B.   Dahshan, A.	4	57193526449   13006429400   6603305023   6602133954	2021	2021-01-01	Optik	English
Enhanced biodiesel production with improved oxidation stability by water addition to supercritical methanolysis	Umar, Y.   Aboelazayem, O.   Gadalla, M.A.   Saha, B.	4	57210594485   57194698086   14048292400   7202946094	2022	2022-09-01	Canadian Journal of Chemical Engineering	English
Mechanical properties and band gap estimations of stoichiometric GeSe2-As2Se3 glasses	El-Denglawey, A.   Dahshan, A.   Aly, K.A.   Saddeek, Y.B.	4	57193526449   6602133954   13006429400   6603305023	2021	2021-11-01	Optik	English
Forecasting of Short-Term and Long-Term Wind Speed of Ras-Gharib Using Time Series Analysis	El-Kashty, O.A.   Daoud, A.A.   El-Araby, E.E.	3	58170142000   36886391800   57208914011	2023	2023-03-01	International Journal of Renewable Energy Research	English
Synthesis and evaluation of core-shell nanocomposites for the photodegradation of liner alkyl-benzene sulfonate water contaminations	Hassan, M.E.-D.R.   Barakat, M.E.S.   Yosef, E.H.E.	3	57216764024   58637519100   58639808500	2024	2024-02-01	International Journal of Environmental Science and Technology	English
Techno-economic assessment of a novel wind-powered RO system with a compressed air energy storage for water desalination	Elsakka, M.M.   Refaat, A.   Alzahrani, K.M.   Hee, J.L.   Ma, L.   Elhenawy, Y.   Majazi, T.   Yosry, A.G.   Amer, A.   Moustafa, G.H.   Ahmed, A.	11	57195454644   57207986070   57193703105   59320432300   56727012700   57194448020   55961235600   59360183400   57212308249   6603166380   57214309902	2024	2024-12-01	Energy	English
Experimental Validation of Second-Order Adaptive Fuzzy Logic Controller for Grid-Connected DFIG Wind Power Plant	Elnaghi, B.E.   Abelwhab, M.N.   Abdel-Kader, F.E.S.A.   Ismaiel, A.M.   Mohammed, R.H.   Dessouki, M.E.	6	57189245011   57196484456   59157857100   36543907900   58002610900   55444215800	2023	2023-01-01	IEEE Access	English
Polymeric solar cell with 18.06% efficiency based on poly(para-nitroaniline)/TiO2 composites	Alturki, A.A.   Alharbi, A.F.   Zoromba, M.S.   Abdel-Aziz, M.H.   Al-Hossainy, A.F.	5	57221727816   57220435773   16305817700   36463135100   6505746085	2023	2023-02-01	Optical Materials	English
Assessment of Onshore Renewable Energy Power Supply for Ship's Emissions Reduction in Port Said West Port	Makram, M.   Bassam, A.M.   Tawfik, A.A.   Yehia, W.	4	59143626000   56769619600   35345973100   15125094200	2024	2024-06-01	Journal of Marine Science and Application	English
A novel hybrid compact system of photovoltaic solar still air gap membrane distillation for the simultaneous production of water and energy	Alanezi, A.A.   Hakobyan, A.   Hakobyan, A.   Bassyouni, M.	4	56177697000   57196153429   57196153428   57193261423	2023	2023-04-01	Desalination and Water Treatment	English
Evaluating BIPV Façades in a Building Envelope in Hot Districts for Enhancing Sustainable Ranking: A Saudi Arabian Perspective	Ismaeil, E.M.H.   Sobaih, A.E.E.	2	57732309400   43762250600	2023	2023-05-01	Buildings	English
AN APPROXIMATION OF USING VERTICAL-AXIS TIDAL TURBINE FOR WATER DESALINATION IN THE SUEZ CANAL WATERWAY	Gharib-Yosry, A.   Valdes, R.E.   Blanco-Marigorta, E.   Alvarez-Alvarez, E.	4	57204932141   57208819552   57226002189   57216442051	2022	2022-01-01	Proceedings of ASME 2022 16th International Conference on Energy Sustainability, ES 2022	English
The Effect of Novel Longitudinal Branched Fins on the Performance of the Latent Heat Accumulator based on Shell-and-Tube Configuration	Amer, A.E.   Lebedev, V.A.   Elsakka, M.M.	3	57212308249   56479915200   57195454644	2023	2023-06-01	International Journal of Renewable Energy Research	English
Design and implementation of voltage source converters in HVDC systems	Ibrahim, N.F.   Dessouky, S.S.	2	57207775477   8318327400	2021	2021-01-01	Power Systems	English
Enhancing the Performance of the Output Active Power of DFIG-Based Wind Turbines Using Auto Disturbance Rejection Control	Sobhy, A.   Lei, D.   Abo-Khalil, A.G.	3	57260188300   56390843900   12767147300	2022	2022-01-01	Proceedings of the 2022 Conference of Russian Young Researchers in Electrical and Electronic Engineering, ElConRus 2022	English
Increased efficiency of hydrokinetic turbines through the use of an obstacle on the channel bottom	Espina-Valdés, R.   Fernández-Alvarez, V.M.   Gharib-Yosry, A.   Fernández-Jiménez, A.   Álvarez-Alvarez, E.	5	57208819552   57935304300   57204932141   57216433417   57216442051	2022	2022-12-15	Ocean Engineering	English



Neural Fuzzy Control of the Indoor Air Quality Onboard a RO-RO Ship Garage	Agamy, H.   Abdelgeliel, M.   Mosleh, M.   Elserafy, K.   Mohamed, N.A.N.	5	57215062984   57215056598   55547359100   6505861376   57215047335	2020	2020-04-01	International Journal of Fuzzy Systems	English
Investigating the Kinetic Parameters in the Thermal Analysis of Jobba Cake	Madany, N.M.   Gadalla, M.A.   Ashour, F.H.   Abadir, M.F.	4	58483957400   14048292400   57788821500   7005583285	2023	2023-07-01	Egyptian Journal of Chemistry	English
Synthesis, Structural, Time-Dependent Density-Functional Theory, Thermal Annealing and Optical Properties for Doped Polymer Nanostructured Thin Films as Optoelectronic Devices	Al-Hossainy, A.F.   Zoromba, M.Sh.	2	6505746085   16305817700	2021	2021-07-01	Polymer (Korea)	English
Design and Three-Dimensional Simulation of a Solar Dish-Stirling Engine	El-Ghafour, S.A.   Mikhael, N.   El-Ghandour, M.	3	35324439700   57204651769   50960967100	2021	2021-01-01	Journal of Advanced Research in Fluid Mechanics and Thermal Sciences	English
Experimental and numerical investigation of a three-blade horizontal axis hydrokinetic water turbine (HAHWT) in high blockage conditions	Ferraiuolo, R.   Pugliese, F.   Álvarez Álvarez, E.   Yosry, A.G.   Giugni, M.   Del Giudice, G.	6	57217728824   56825345000   57216442051   59360183400   6602833850   58044921800	2024	2024-12-01	Renewable Energy	English
PVSails: Harnessing Innovation With Vertical Bifacial PV Modules in Floating Photovoltaic Systems	Tina, G.   Osama, A.   Cazzaniga, R.   Cicu, M.   Hancock, J.   Howlin, E.   Rosa-Clot, M.   Rosa-Clot, P.	8	59205356400   57345484500   55491118600   57194455833   59276556100   59277673400   6603474315   35783660600	2024	2024-12-01	Progress in Photovoltaics: Research and Applications	English
Experimental and Simulation Study of Solar-Powered Air-Gap Membrane Distillation Technology for Water Desalination	Abu-Zeid, M.A.-R.   Bassyouni, M.   Fouad, Y.   Monica, T.   Sandid, A.M.   Elthenawy, Y.	6	56435865100   57193261423   6603123645   55963977100   57225008605   57194448020	2023	2023-10-01	Membranes	English
A Centralized Protection Scheme for Microgrids with Artificial Neural Network-Based on Fault Detection and Location	Kabeel, M.A.   Eladany, M.M.   Eldesouky, A.A.	3	57193604189   57202393066   6507131518	2022	2022-01-01	2022 23rd International Middle East Power Systems Conference, MEPCON 2022	English
Critical Assessment of Current State of the Art in Wearable Sensor Nodes with Energy Harvesting Systems for Healthcare Applications	Alattar, A.E.   Elkaseer, A.   Scholz, S.   Mohsen, S.	4	57968044000   54786368200   35200000400   57216800452	2023	2023-01-01	Lecture Notes in Networks and Systems	English
A Comparative Study of Two Metaheuristic MPPT Techniques to Extract Maximum Power from PV Array under Different Partial Shading Patterns	Refaat, A.   Kalas, A.   Khalifa, A.-E.   Elfar, M.H.	4	57207986070   6602469009   57667659200   57193610159	2023	2023-01-01	IEEE Conference on Power Electronics and Renewable Energy, CPERE 2023	English
Vsc-hvdc control system	Ibrahim, N.F.   Dessouky, S.S.	2	57207775477   8318327400	2021	2021-01-01	Power Systems	English
Fuzzy Logic-Pitch Angle Controller for SCIG based Wind Turbine	Salem, A.A.   Eldesouky, A.A.	2	57225394173   6507131518	2021	2021-01-01	Proceedings of 2021 31st Australasian Universities Power Engineering Conference, AUPEC 2021	English
An Integrated Approach for Demand Response and Wind Curtailment Management in Distribution Systems	El-Kashty, O.A.   Daoud, A.A.   El-Araby, E.E.	3	58170142000   36886391800   57208914011	2023	2023-06-01	International Journal of Renewable Energy Research	English
Aeroelastic modelling of tail fins for small wind turbines	Hammam, M.M.   Wood, D.H.	2	57189731134   7404400936	2022	2022-06-02	Journal of Physics: Conference Series	English
DFT Study of Lead-Free Mixed-Halide Materials Cs <sub>2</sub> X <sub>2</sub> Y <sub>2</sub> (X, Y = F, Cl, Br, I) for Optoelectronic Applications	Ahmed, H.   Ilyas, S.Z.   Jalil, A.   Agathopoulos, S.   Dahshan, A.	5	57212337148   56651994700   57200511932   55142324900   6602133954	2021	2021-10-01	Journal of Electronic Materials	English
Hybrid MPPT-based predictive speed control model for variable speed PMSG wind energy conversion systems	Hashish, M.N.A.   Daoud, A.A.   Elfar, M.H.	3	58344328900   36886391800   57193610159	2022	2022-09-01	International Journal of Applied Power Engineering	English
Production and characterization of bio-oil from camelthorn plant using slow pyrolysis	Aboeela, D.   Saleh, H.   Attia, A.M.   Elthenawy, Y.   Majazi, T.   Bassyouni, M.	6	57216211196   58519969700   55396230100   57194448020   55961235600   57193261423	2024	2024-10-01	Journal of Thermal Analysis and Calorimetry	English
Performance Assessment of Artificial Neural Networks-Based MPPT Technique for Photovoltaic Systems	Eleraky, H.G.   Refaat, A.   Kalas, A.   Abouzeid, A.F.	4	59208287200   57207986070   6602469009   57188975908	2024	2024-01-01	ICEENG 2024 - 14th IEEE International Conference on Electrical Engineering	English
Optimal Energy Management of VPP-Based Energy Storage Considering Renewable Energy Integration and EV Charging	Abdelwahab, M.A.   Eladany, M.M.   Elfar, M.H.   Eldesouky, A.A.	4	59718282600   57202393066   57193610159   6507131518	2024	2024-01-01	Proceedings of the International Middle East Power System Conference, MEPCON	English

Surface plasmon polariton at the interface of dielectric and graphene medium using the Doppler broadening effect	Ahmad, F.   Bakhtawar   Haneef, M.   Khan, H.   Abid, A.   Dahshan, A.	6	57756097300   57044846900   41261303600   55321256700   57219252095   6602133954	2022	2022-06-01	Laser Physics	English
Geometrically nonlinear transient analysis of Timoshenko tapered beam-column element using a finite element formulation based on the exact shape functions	Sallam, E.   El Gendy, O.   Mohamedien, M.A.	3	57720216700   57723572700   6507979584	2024	2024-01-01	Mechanics Based Design of Structures and Machines	English
Efficient offloading and task scheduling in internet of things-cloud-fog environment	Gamat, M.   Awad, S.   Abdel-Kader, R.F.   El Salam, K.A.	4	57344213600   59157102700   26532393000   57190800237	2024	2024-08-01	International Journal of Electrical and Computer Engineering	English
First principle study of er, co-doped fe and yb of nabif6; a promising materials for optoelectronic and transport properties; probed by dft	Ullah, S.   Azam, S.   Gul, B.   Subhan, F.   Muhammad, S.   Dahshan, A.   Ahmad, S.S.   Kalsoom, A.   Faisal, S.   Hegazy, H.H.	10	57965449200   55866061500   56448516000   36919223800   55363582800   6602133954   57226372930   56020446500   57526528400   6603894858	2021	2021-07-01	Digest Journal of Nanomaterials and Biostructures	English
Hybrid concentrator photovoltaic/membrane distillation system for potable water production using new fabricated PS/ZIF-L membrane	Rabie, M.   Elrasheedy, A.   Zkria, A.   Elkady, M.F.   Yoshitake, T.   El-Shazly, A.H.	6	57219471832   57190967447   56770176100   57210801492   35270403400   7005992509	2023	2023-07-01	Journal of Water Process Engineering	English
Oleaginous fungi as a sustainable source for biodiesel production: Current and future prospect	Moharam, A.I.   Beheary, M.S.   Salama, A.M.   Abdel-Azeem, A.M.	4	58526910400   6504203919   57214234912   59080969500	2023	2023-06-01	Microbial Biosystems	English
Optimal planning for sustainable and cost-effective power generation on the Red Sea coast	Ahmed, A.S.	1	1.63E+10	2020	2020-12-01	Sustainable Energy Technologies and Assessments	English
Thin film synthesis and photovoltaic performance of polypyrrole@cobalt hydroxide composites for solar cells and optoelectronic devices	Hosny, M.M.   Abdel-Aziz, M.H.   Zoromba, M.S.   Al-Hossainy, A.F.   Eissa, F.M.	5	7004169772   36463135100   16305817700   59317204000   8285399800	2024	2024-12-01	Solar Energy Materials and Solar Cells	English
The nonlinear behavior of generic tail fins for small wind turbines	Khedr, A.A.   Hammam, M.M.   Gupta, A.   Branlard, E.   Castellani, F.   Wood, D.H.	6	57214992857   57189731134   57198676720   55780224700   9842716300   7404400936	2024	2024-10-01	Journal of Renewable and Sustainable Energy	English
Finite Element Analysis for Dynamic Simulation of Composite HAWT Blade	Shamso, E.   El-Hadek, M.   Elsanabary, S.   El-Megharbel, A.   Soliman, R.M.	5	58493531500   36956146400   57202363589   56979510000   57196658732	2023	2023-06-01	International Journal of Renewable Energy Research	English
High-voltage direct current transmission	Ibrahim, N.F.   Dessouky, S.S.	2	57207775477   8318327400	2021	2021-01-01	Power Systems	English
A solar energy-based shore side power system for a ferry service across the Suez Canal	Bassam, A.M.   Phillips, A.B.   Turnock, S.R.   Wilson, P.A.	4	56769619600   23009867100   6603539652   57188866982	2024	2024-01-01	Ships and Offshore Structures	English
African vulture optimizer algorithm for fuzzy logic speed controller of fuel cell electric vehicle	Elnaghi, B.E.   Dessouki, M.E.   Mohamed, S.W.   Ismaiel, A.M.   Abdel-Wahab, M.N.	5	57189245011   55444215800   59215835700   36543907900   52763100800	2024	2024-09-01	International Journal of Power Electronics and Drive Systems	English
Vsc-hvdc under ac and dc fault conditions	Ibrahim, N.F.   Dessouky, S.S.	2	57207775477   8318327400	2021	2021-01-01	Power Systems	English
Photovoltaic-Powered Smart Aquaponic System: Integrating IoT and AI for Sustainable Food Production and Fish Health Management	Abd El-Atty, H.M.   Ellaban, M.I.   Mostafa, H.T.   Mohamed, D.A.   Elshabrawi, A.E.   Tayaa, N.R.   Refaat, A.	7	36175601000   59301808300   57216512814   59301980600   59301719800   59301851000   57207986070	2024	2024-01-01	2024 International Telecommunications Conference, ITC-Egypt 2024	English
Experimental Examination of Enhanced Nanoceramic-Based Self-Cleaning Sprays for High-Efficiency Hydrophobic Photovoltaic Panels	Abdrabo, M.   Elkaseer, A.   Elshazly, E.   El-Deab, M.S.   El-Mahallawi, I.	5	59388090800   54786368200   57211350257   6603889475   6505895804	2024	2024-10-01	Coatings	English
Protection of Wind Turbine Generators Using Microcontroller-Based Applications	Ibrahim, N.F.   Dessouky, S.S.   Mostafa Attia, H.E.   Kasem Alaboudy, A.H.	4	57207775477   8318327400   35975042600   36625764500	2022	2022-01-01	Green Energy and Technology	English
INTERNET OF ENERGY APPLIED TO WATER HYDROKINETIC SMART-GRIDS: A TEST RIG EXAMPLE	Gharib-Yosry, A.   Fernandez-Jimenez, A.   Pacheco, V.M.F.   Rico-Secades, M.	4	57204932141   57216433417   57223678963   56029821300	2022	2022-01-01	Proceedings of ASME 2022 16th International Conference on Energy Sustainability, ES 2022	English
SM-BIM: A NEW CONCEPTUAL FRAMEWORK FOR MULTI-CRITERIA DECISION-MAKING PROCESS BASED ON SMART MATERIALS AND BUILDING INFORMATION MODELING	Mohamed, M.-A.T.   Megahed, N.A.   Ettarabily, S.   Shahda, M.M.	4	59037508700   55941539500   57218372332   57204561477	2024	2024-03-01	Journal of Green Building	English

Estimating the energy consumption for residential buildings in semiarid and arid desert climate using artificial intelligence	Wefki, H.   Khallaf, R.   Ebid, A.M.	3	57195283493  57190007287  57211083444	2024	2024-12-01	Scientific Reports	English
Graphical Revamping of a Crude Distillation Unit under Two Variable Operational Scenarios - Naphtha Stabilizer and Reformer Operated	Abo-Mousa, A.G.   Kamel, D.A.   Elazab, H.A.   Gadalla, M.A.   Fouad, M.K.	5	57919230900  55902257200  57197864132  14048292400  7005777140	2022	2022-01-01	Chemical Engineering Transactions	English
Static and dynamic analysis of a new offshore wind turbine system supported with outriggers	El Gendy, O.   Mohamedien, M.A.   Sallam, E.	3	57723572700  6507979584  57720216700	2024	2024-01-01	Mechanics Based Design of Structures and Machines	English
Performance Assessment of T-Source Inverter Fed Induction Motor Drives Based on Photovoltaics	Amin, A.A.   El-Kholy, E.E.   Dessouki, M.E.	3	57158598800  36479761600  55444215800	2022	2022-01-01	2022 23rd International Middle East Power Systems Conference, MEPCON 2022	English
Conversion of Fish Waste Oil into Biofuel: An Experimental Study	Mohamed, M.A.   Elazab, H.A.   Gadalla, M.A.   Ashour, F.A.	4	59358894300  57197864132  14048292400  59359295000	2024	2024-09-30	Letters in Applied NanoBioScience	English
Study Network Reconfiguration Using Optimization Techniques to Improve Voltage Stability	Elrazky, R.R.   Hieba, A.A.   Daoud, A.A.	3	57242490600  57208469428  36886391800	2021	2021-07-13	2021 International Telecommunications Conference, ITC-Egypt 2021 - Proceedings	English
Estimation of density of charged defect states in some glasses of SeTeSnPb system using low-temperature d.c. conductivity measurements	Saraswat, S.   Tomar, V.K.   Deolia, V.K.   Sharma, A.   Dahshan, A.   Mehta, N.	6	57216031205  57193865284  48761009000  59140931100  6602133954  9634246800	2021	2021-04-01	Journal of Materials Science: Materials in Electronics	English
Power grids with renewable energy: Storage, integration and digitalization	Sallam, A.A.   Malik, O.P.	2	7004461634  7102619659	2021	2021-01-01	Power Grids with Renewable Energy: Storage, integration and digitalization	English
Green Hydrogen Production from Ethanol Electrolysis Using Co/Ni Bimetallic Nanoparticles-Incorporated Carbon Nanofibers	Barakat, N.A.M.   Farrag, T.E.   Mahmoud, M.S.	3	21741818400  24070449300  15136077300	2024	2024-06-01	Russian Journal of Applied Chemistry	English
Experimentally validated simplified prediction model of unloaded spar-buoy wave energy converter motions' responses in waves	Bayoumi, S.   Amin, I.   Oterkus, E.   Incecik, A.	4	56304821100  57217016463  8345890200  7003453599	2022	2022-12-01	Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy	English
Joint Reflection Design and Channel Estimation for Intelligent Reflective Surfaces	Raslan, W.   Abdel-Atty, H.M.   El-Den, B.M.	3	24779683800  36175601000  42161395800	2024	2024-01-01	2024 International Telecommunications Conference, ITC-Egypt 2024	English
Protective Schemes for Induction Generator	Ibrahim, N.F.   Dessouky, S.S.   Mostafa Attia, H.E.   Kasem Alaboudy, A.H.	4	57207775477  8318327400  35975042600  36625764500	2022	2022-01-01	Green Energy and Technology	English
Conclusions and Future Work	Ibrahim, N.F.   Dessouky, S.S.   Mostafa Attia, H.E.   Kasem Alaboudy, A.H.	4	57207775477  8318327400  35975042600  36625764500	2022	2022-01-01	Green Energy and Technology	English
Vsc-hvdc simulation results	Ibrahim, N.F.   Dessouky, S.S.	2	57207775477  8318327400	2021	2021-01-01	Power Systems	English
Diagnostic Strategies for Microturbines Operating Status Applied to Predictive Maintenance: Experimental Test Case	Álvarez, E.Á.   Yosry, A.G.   Jiménez, A.F.   Rodríguez, A.C.   Secades, M.R.	5	57216442051  57204932141  58704610900  58704463300  58703551300	2023	2023-01-01	Proceedings of the ASME Turbo Expo	English
Co-Flow Jet Effects on the Aerodynamic Performance of National Renewable Energy Laboratory Aerofoils with Different Thicknesses for Wind Turbine Applications	Aloukili, A.M.   Elsakka, M.   Mohamed, M.A.   Elrefaie, M.E.	4	59327487400  57195454644  59408789700  58743082300	2024	2024-01-01	Ecological Engineering and Environmental Technology	English
Wind Tunnel and OpenFOAM Flow Analysis of A High Solidity Vertical-Axis Wind Turbine	Yosry, A.G.   Álvarez, E.Á.   Valdés, R.E.   Francos, J.F.   Marigorta, E.B.	5	57204932141  57216442051  57208819552  56178079500  57226002189	2023	2023-01-01	Proceedings of the ASME Turbo Expo	English
High-Power Three-Port Converter for Efficient EV Fast Charging Using Partial Power Processing	Firdous, Z.   Mekhilef, S.   Mubin, M.B.   Elsanabary, A.   Siddique, M.D.   Al Shammari, O.   Seyedmahmousian, M.	7	57872541300  57928298500  25930079700  57221120034  57200143813  59919148400  59663344600	2024	2024-01-01	Proceedings of the International Conference on Power Electronics, Drives, and Energy Systems for Industrial Growth, PEDES	English
Conclusions and future work	Ibrahim, N.F.   Dessouky, S.S.	2	57207775477  8318327400	2021	2021-01-01	Power Systems	English
Experimental Setups and Results for Digital Relay Protection	Ibrahim, N.F.   Dessouky, S.S.   Mostafa Attia, H.E.   Kasem Alaboudy, A.H.	4	57207775477  8318327400  35975042600  36625764500	2022	2022-01-01	Green Energy and Technology	English
Solar wind effect on the multi-fluid plasma expansion in the Venusian upper ionosphere	Salem, S.   Moslem, W.M.   Fichtner, H.   Lazar, M.	4	57194020802  6602434321  7005663552  56221036100	2024	2024-05-01	Astronomy and Astrophysics	English

Simulation and Optimization of Waste Heat to Electricity through Organic Rankine Cycles (ORCs): a Case Study in an Oil Refinery	Sadek, M.A.   Gadalla, M.A.   Sheded, N.   Ahmed, D.   Elazab, H.A.	5	57202264046   14048292400   58259280700   55902257200   57197864132	2023	2023-01-01	Chemical Engineering Transactions	English
Remagnetization Strategies for Induction Machines Operating with Reduced Flux Levels	Abouzeid, A.F.   Guerrero, J.M.   Vicente, I.   Muniategui, I.   Endemaño, A.   Briz, F.	6	57188975908   35092407900   26650213300   57214931007   6508032491   6701332970	2022	2022-01-01	2022 International Conference on Electrical Machines, ICEM 2022	English
An Evaluation of Firefly and Flower Pollination Techniques Used to Harvest Maximum Power from PEMFC	Elbaz, A.   Refaat, A.   Elfar, M.H.   Kalas, A.	4	57668987700   57207986070   57193610159   6602469009	2023	2023-01-01	2023 24th International Middle East Power System Conference, MEPCON 2023	English
Fabrication, photovoltaic analysis, and electrical characterization of Au/ZnTPyP/p-Si/Ag heterojunction under gamma radiation effect for solar cell applications	Elesh, E.   Abul-Nasr, K.T.   Damhogi, D.G.E.	3	37053581400   58037922300   57193408017	2024	2024-09-01	European Physical Journal Plus	English
New Efficient Configurations for Sour Wastewater Treatment	Gadalla, M.A.   Ghallab, A.   Mansour, A.M.   Ashour, F.H.   Elazab, H.A.	5	14048292400   16244766300   57806854500   57788821500   57197864132	2022	2022-02-01	Recent Innovations in Chemical Engineering	English
A Multi-Objective Approach for Available Transfer Capability Considering Capability Curve of DFIG Wind Farm	Reyad, H.W.   Elfar, M.   Elaraby, E.E.	3	58195957300   57193610159   6504099591	2024	2024-01-01	Proceedings of the International Middle East Power System Conference, MEPCON	English
Fully symbolic-based technique for solving complex state-space control systems	Abd-Alrahem, A.M.   Elhadidy, H.M.   Elserafi, K.A.   Dorrah, H.T.	4	56426570700   55964551000   6505861376   6701652288	2021	2021-02-01	International Journal of Electrical and Computer Engineering	English
Maximizing Renewable Energy Integration through Demand Response Strategies in Distribution Systems Considering Uncertainties	El-Kashty, O.A.   El-Araby, E.E.   Daoud, A.A.	3	58170142000   57208914011   36886391800	2023	2023-01-01	2023 24th International Middle East Power System Conference, MEPCON 2023	English
Better heat and power integration of an existing gas-oil plant in Egypt through revamping the design and organic rankine cycle	Gadalla, M.A.   Elmasry, A.   Alhajri, I.   Ashour, F.H.   Elazab, H.A.	5	14048292400   57216331010   36242852100   57788821500   57197864132	2021	2021-01-01	Open Chemical Engineering Journal	English
Graphical revamping of a delayed coker unit: A case study from an Egyptian refinery	Alazmi, R.H.   Gadalla, M.   Wang, B.   Shahin, M.   Elazab, H.A.   Majozi, T.   Ashour, F.	7	35733121600   14048292400   57212146506   59144455000   57197864132   55961235600   57788821500	2024	2024-10-01	Thermal Science and Engineering Progress	English
Transient Behavior of Induction Generator Protective Relays	Ibrahim, N.F.   Dessouky, S.S.   Mostafa Attia, H.E.   Kasem Alaboudy, A.H.	4	57207775477   8318327400   35975042600   36625764500	2022	2022-01-01	Green Energy and Technology	English
Introduction	Ibrahim, N.F.   Dessouky, S.S.	2	57207775477   8318327400	2021	2021-01-01	Power Systems	English
Experimental investigation for hvdc system	Ibrahim, N.F.   Dessouky, S.S.	2	57207775477   8318327400	2021	2021-01-01	Power Systems	English
THERMODYNAMIC ANALYSIS AND EXPERIMENTAL STUDY OF ALTERNATIVE BIOFUELS USING SAWDUST SLOW PYROLYSIS	Elhenawy, Y.   Fouad, K.   Bassyouni, M.   Gadalla, M.   Ashour, F.   Majozi, T.	6	57194448020   57217049298   57193261423   14048292400   57788821500   55961235600	2023	2023-01-01	European Biomass Conference and Exhibition Proceedings	English
Experimental Investigation into the Effects of Flat Plate Guiding Walls on the Performance of Vertical Axis Wind Turbine	Ansaf, R.   Elsakka, M.M.   Almomammadi, K.   Fazlizan, A.   Rasani, M.R.   Harun, Z.	6	57607289800   57195454644   57189886953   54583501000   40462380500   55212552300	2024	2024-05-01	Jurnal Kejuruteraan	English
Introduction and Previous Work	Ibrahim, N.F.   Dessouky, S.S.   Mostafa Attia, H.E.   Kasem Alaboudy, A.H.	4	57207775477   8318327400   35975042600   36625764500	2022	2022-01-01	Green Energy and Technology	English
A Simplified Non-Linear Active Disturbance Rejection Control for Electric Traction Drives	Abouzeid, A.F.   Elsanabary, A.   Fawzi, M.   Aly, M.   Sobhy, A.	5	57188975908   57221120034   24780397300   55160246200   57260188300	2024	2024-01-01	IECON Proceedings (Industrial Electronics Conference)	English

Title	Field-Weighted View Impact	Views	Citations	Field-Weighted Citation Impact	Field-Citation Average	Outputs in Top Citation Percentiles, per percentile	Field-Weighted Outputs in Top Citation Percentiles, per percentile	Main patent families	Policy citations	Reference
Hydrogen production, storage, utilisation and environmental impacts: a review	6.34	519	736	11.57	62.81	1	1	1	6	Osman, A.I., Mehta, N., Elgarahy, A.M. and 4 more (...) (2022).Hydrogen production, storage, utilisation and environmental impacts: a review. Environmental Chemistry Letters,20(1) 153-188
Conversion of biomass to biofuels and life cycle assessment: a review	3.34	308	519	5.22	71.64	1	3	1	1	Osman, A.I., Mehta, N., Elgarahy, A.M. and 3 more (...) (2021).Conversion of biomass to biofuels and life cycle assessment: a review. Environmental Chemistry Letters,19(6) 4075-4118
Biochar for agronomy, animal farming, anaerobic digestion, composting, water treatment, soil remediation, construction, energy storage, and carbon sequestration: a review	3.62	265	352	5.6	62.81	1	3	1	0	Osman, A.I., Fawzy, S., Farghali, M. and 8 more (...) (2022).Biochar for agronomy, animal farming, anaerobic digestion, composting, water treatment, soil remediation, construction, energy storage, and carbon sequestration: a review. Environmental Chemistry Letters,20(4) 2385-2485
Methods to prepare biosorbents and magnetic sorbents for water treatment: a review	3.69	215	217	5.45	39.82	1	3	0	0	Osman, A.I., El-Monaem, E.M.A., Elgarahy, A.M. and 10 more (...) (2023).Methods to prepare biosorbents and magnetic sorbents for water treatment: a review. Environmental Chemistry Letters,21(4) 2337-2398
Membrane Technology for Energy Saving: Principles, Techniques, Applications, Challenges, and Prospects	3.71	108	153	12.73	12.02	1	1	0	0	Osman, A.I., Chen, Z., Elgarahy, A.M. and 5 more (...) (2024).Membrane Technology for Energy Saving: Principles, Techniques, Applications, Challenges, and Prospects. Advanced Energy and Sustainability Research,5(5)
Materials, fuels, upgrading, economy, and life cycle assessment of the pyrolysis of algal and lignocellulosic biomass: a review	1.91	111	137	3.44	39.82	1	6	0	0	Osman, A.I., Farghali, M., Ihara, I. and 11 more (...) (2023).Materials, fuels, upgrading, economy, and life cycle assessment of the pyrolysis of algal and lignocellulosic biomass: a review. Environmental Chemistry Letters,21(3) 1419-1476
Optimizing biomass pathways to bioenergy and biochar application in electricity generation, biodiesel production, and biohydrogen production	2.18	127	126	3.16	39.82	1	7	0	0	Osman, A.I., Lai, Z.Y., Farghali, M. and 7 more (...) (2023).Optimizing biomass pathways to bioenergy and biochar application in electricity generation, biodiesel production, and biohydrogen production. Environmental Chemistry Letters,21(5) 2639-2705

An Optimized Hybrid Fractional Order Controller for Frequency Regulation in Multi-Area Power Systems	0.93	37	120	5.49	12.2	2	3	0	0	Mohamed, E.A., Ahmed, E.M., Elmelegi, A. and 3 more (...) (2020).An Optimized Hybrid Fractional Order Controller for Frequency Regulation in Multi-Area Power Systems. IEEE Access,8213899-213915
Thermochemical conversion strategies of biomass to biofuels, techno-economic and bibliometric analysis: A conceptual review	2.73	140	119	2.48	35.9	2	9	0	0	Elgarahy, A.M., Hammad, A., El-Sherif, D.M. and 3 more (...) (2021).Thermochemical conversion strategies of biomass to biofuels, techno-economic and bibliometric analysis: A conceptual review. Journal of Environmental Chemical Engineering,9(6)
Biofuel production, hydrogen production and water remediation by photocatalysis, biocatalysis and electrocatalysis	3.38	197	108	2.71	39.82	1	8	0	0	Osman, A.I., Elgarahy, A.M., Eltaweil, A.S. and 11 more (...) (2023).Biofuel production, hydrogen production and water remediation by photocatalysis, biocatalysis and electrocatalysis. Environmental Chemistry Letters,21(3) 1315-1379
Design and fabrication of Fe2O3/FeP heterostructure for oxygen evolution reaction electrocatalysis	1.65	71	103	8.08	12.62	1	1	0	0	Ahmad, I., Ahmed, J., Batool, S. and 9 more (...) (2022).Design and fabrication of Fe2O3/FeP heterostructure for oxygen evolution reaction electrocatalysis. Journal of Alloys and Compounds,894
Recent Advances in Biomass Pyrolysis Processes for Bioenergy Production: Optimization of Operating Conditions	2.24	113	98	3.91	25.09	1	5	0	0	Aboelela, D., Saleh, H., Attia, A.M. and 3 more (...) (2023).Recent Advances in Biomass Pyrolysis Processes for Bioenergy Production: Optimization of Operating Conditions. Sustainability (Switzerland),15(14)
An Adaptive D-FACTS for Power Quality Enhancement in an Isolated Microgrid	1.36	42	95	4.64	12.49	3	4	0	0	Elmetwaly, A.H., Eldesouky, A.A., Sallam, A.A. (2020).An Adaptive D-FACTS for Power Quality Enhancement in an Isolated Microgrid. IEEE Access,857923-57942
Optimum Modified Fractional Order Controller for Future Electric Vehicles and Renewable Energy-Based Interconnected Power Systems	1.46	42	92	5.13	13.26	2	3	0	0	Ahmed, E.M., Mohamed, E.A., Elmelegi, A. and 2 more (...) (2021).Optimum Modified Fractional Order Controller for Future Electric Vehicles and Renewable Energy-Based Interconnected Power Systems. IEEE Access,929993-30010
Recent advances in greenly synthesized nanoengineered materials for water/wastewater remediation: an overview	1.28	90	90	1.51	53.15	2	18	0	0	Elgarahy, A.M., Elwakeel, K.Z., Akhdhar, A. and 1 more (...) (2021).Recent advances in greenly synthesized nanoengineered materials for water/wastewater remediation: an overview. Nanotechnology for Environmental Engineering,6(1)
Synthesis and potential applications of	1.15	78	83	2.08	39.82	1	12	1	0	Xu, Y., Rashwan, A.K., Osman, A.I. and 8 more (...)

cyclodextrin-based metal-organic frameworks: a review										(2023).Synthesis and potential applications of cyclodextrin-based metal-organic frameworks: a review. Environmental Chemistry Letters,21(1) 447-477
Review on energy storage systems in microgrids	1.2	66	82	1.6	38.79	3	17	0	0	Georgious, R., Refaat, R., Garcia, J. and 1 more (...) (2021).Review on energy storage systems in microgrids. Electronics (Switzerland),10(17)
Biomass-to-sustainable biohydrogen: Insights into the production routes, and technical challenges	2.39	124	77	1.51	50.41	2	19	0	0	Eloffy, M.G., Elgarahy, A.M., Saber, A.N. and 5 more (...) (2022).Biomass-to-sustainable biohydrogen: Insights into the production routes, and technical challenges. Chemical Engineering Journal Advances,12
A novel metaheuristic MPPT technique based on enhanced autonomous group Particle Swarm Optimization Algorithm to track the GMPP under partial shading conditions - Experimental validation	1.68	37	77	7.27	10.59	1	2	0	0	Refaat, A., Khalifa, A.-E., Elsakka, M.M. and 3 more (...) (2023).A novel metaheuristic MPPT technique based on enhanced autonomous group Particle Swarm Optimization Algorithm to track the GMPP under partial shading conditions - Experimental validation. Energy Conversion and Management,287
Comprehensive investigation of Opto-electronic and transport properties of Cs <sub>2</sub> ScAgX <sub>6</sub> (X = Cl, Br, I) for solar cells and thermoelectric applications	0.49	16	74	2.32	20.23	3	10	0	0	Aslam Khan, M., Alburaih, H.A., Noor, N.A. and 1 more (...) (2021).Comprehensive investigation of Opto-electronic and transport properties of Cs <sub>2</sub> ScAgX <sub>6</sub> (X = Cl, Br, I) for solar cells and thermoelectric applications. Solar Energy,225122-128
Sustainable management of food waste; pre-treatment strategies, techno-economic assessment, bibliometric analysis, and potential utilizations: A systematic review	9.24	289	72	3.89	18.49	1	5	0	0	Elgarahy, A.M., Eloffy, M.G., Alengebawy, A. and 4 more (...) (2023).Sustainable management of food waste; pre-treatment strategies, techno-economic assessment, bibliometric analysis, and potential utilizations: A systematic review. Environmental Research,225
Emerging 2D-Nanostructured materials for electrochemical and sensing Application-A review	1.28	80	67	1.45	45.5	2	19	0	0	Noreen, S., Tahir, M.B., Hussain, A. and 5 more (...) (2022).Emerging 2D-Nanostructured materials for electrochemical and sensing Application-A review. International Journal of Hydrogen Energy,47(2) 1371-1389
Experimental and simulation study of multichannel air gap membrane distillation process with two types of solar collectors	3.13	90	67	3.34	14.96	4	6	0	0	Marni Sandid, A., Bassyouni, M., Nehari, D. and 1 more (...) (2021).Experimental and simulation study of multichannel air gap membrane distillation process with two types of solar collectors. Energy Conversion and Management,243

Performance evaluation of single multi-junction solar cell for high concentrator photovoltaics using minichannel heat sink with nanofluids	3.38	122	65	3.57	14	4	5	0	0	Ahmed, A., Zhang, G., Shanks, K. and 3 more (...) (2021).Performance evaluation of single multi-junction solar cell for high concentrator photovoltaics using minichannel heat sink with nanofluids. Applied Thermal Engineering,182
Enhanced electrochemical activity of Co3O4/Co9S8 heterostructure catalyst for water splitting	1.23	32	65	4.18	15.55	2	4	0	0	Khan, N.A., Ahmad, I., Rashid, N. and 10 more (...) (2022).Enhanced electrochemical activity of Co3O4/Co9S8 heterostructure catalyst for water splitting. International Journal of Hydrogen Energy,47(72) 30970-30980
Assessment of floating photovoltaic productivity with fins-assisted passive cooling	3.23	101	61	3.72	16.14	3	5	0	0	Elminshawy, N.A.S., El-Damhogi, D.G., Ibrahim, I.A. and 2 more (...) (2022).Assessment of floating photovoltaic productivity with fins-assisted passive cooling. Applied Energy,325
Simulation and experimental performance analysis of partially floating PV system in windy conditions	3.08	112	58	1.98	20.23	5	13	0	0	Elminshawy, N.A.S., Osama, A., El-Damhogi, D.G. and 2 more (...) (2021).Simulation and experimental performance analysis of partially floating PV system in windy conditions. Solar Energy,2301106-1121
A novel concentrated photovoltaic-driven membrane distillation hybrid system for the simultaneous production of electricity and potable water	2.7	128	57	1.65	24.3	6	16	0	0	Elminshawy, N.A.S., Gadalla, M.A., Bassyouni, M. and 3 more (...) (2020).A novel concentrated photovoltaic-driven membrane distillation hybrid system for the simultaneous production of electricity and potable water. Renewable Energy,162802-817
Synthesis, characterization and DFT molecular modeling of doped poly (para-nitroaniline-co-para-toluidine) thin film for optoelectronic devices applications	2.52	70	57	4.28	12.16	6	4	0	0	Abd-Elmageed, A.A.I., Al-Hossainy, A.F., Fawzy, E.M. and 10 more (...) (2020).Synthesis, characterization and DFT molecular modeling of doped poly (para-nitroaniline-co-para-toluidine) thin film for optoelectronic devices applications. Optical Materials,99
Extraction of maximum power from PV system based on horse herd optimization MPPT technique under various weather conditions	1.35	38	55	6.45	8.53	1	2	0	0	Refaat, A., Ali, Q.A., Elsakka, M.M. and 4 more (...) (2024).Extraction of maximum power from PV system based on horse herd optimization MPPT technique under various weather conditions. Renewable Energy,220
Thermo-electrical performance assessment of a partially submerged floating photovoltaic system	3.18	87	55	3.57	15.13	3	5	0	0	Elminshawy, N.A.S., Osama, A., Saif, A.M. and 1 more (...) (2022).Thermo-electrical performance assessment of a partially submerged floating photovoltaic system. Energy,246
Efficient fractional-order modified Harris hawks	2.22	49	53	2.6	16.15	5	9	0	0	Yousri, D., Mirjalili, S., Machado, J.A.T. and 3 more (...)



optimizer for proton exchange membrane fuel cell modeling										(2021).Efficient fractional-order modified Harris hawks optimizer for proton exchange membrane fuel cell modeling. Engineering Applications of Artificial Intelligence,100
Performance enhancement of a hybrid multi effect evaporation/membrane distillation system driven by solar energy for desalination	4.77	130	52	3.45	15.06	3	6	0	0	Elhenawy, Y., Moustafa, G.H., Attia, A.M. and 3 more (...) (2022).Performance enhancement of a hybrid multi effect evaporation/membrane distillation system driven by solar energy for desalination. Journal of Environmental Chemical Engineering,10(6)
Doped poly (o-phenylenediamine -co- p-toluidine) fibers for polymer solar cells applications	0.61	28	52	2.35	20.86	7	10	0	0	Zoromba, M.S., Al-Hossainy, A.F. (2020).Doped poly (o-phenylenediamine -co- p-toluidine) fibers for polymer solar cells applications. Solar Energy,195194-209
Design and performance a novel hybrid membrane distillation/humidification-dehumidification system	2.91	64	51	4.82	10.59	2	3	0	0	Elhenawy, Y., Fouad, K., Bassyouni, M. and 1 more (...) (2023).Design and performance a novel hybrid membrane distillation/humidification-dehumidification system. Energy Conversion and Management,286
Performance enhancement of flat-plate and parabolic trough solar collector using nanofluid for water heating application	4.12	72	51	10.65	4.79	1	1	0	0	AbdEl-Rady Abu-Zeid, M., Elhenawy, Y., Bassyouni, M. and 4 more (...) (2024).Performance enhancement of flat-plate and parabolic trough solar collector using nanofluid for water heating application. Results in Engineering,21
Tuning cationic/anionic dyes sorption from aqueous solution onto green algal biomass for biohydrogen production	1.49	42	50	4.92	10.17	2	3	0	0	Elgarahy, A.M., Maged, A., Elwakeel, K.Z. and 2 more (...) (2023).Tuning cationic/anionic dyes sorption from aqueous solution onto green algal biomass for biohydrogen production. Environmental Research,216
Performance enhancement of concentrator photovoltaic systems using nanofluids	1.97	80	49	2.94	14.96	6	7	0	0	Elminshawy, A., Morad, K., Elminshawy, N.A.S. and 1 more (...) (2021).Performance enhancement of concentrator photovoltaic systems using nanofluids. International Journal of Energy Research,45(2) 2959-2979
Synthesis and characterization of Co-Al mixed oxide nanoparticles via thermal decomposition route of layered double hydroxide	2.06	62	48	3.34	12.57	8	6	1	0	Abdel-Aziz, M.H., Zoromba, M.S., Bassyouni, M. and 3 more (...) (2020).Synthesis and characterization of Co-Al mixed oxide nanoparticles via thermal decomposition route of layered double hydroxide. Journal of Molecular Structure,1206
Hydrogen production from wastewater, storage,	1.5	110	46	0.73	62.81	4	38	0	0	Elgarahy, A.M., Eloffy, M.G., Hammad, A. and 5 more (...)

economy, governance and applications: a review										(2022).Hydrogen production from wastewater, storage, economy, governance and applications: a review. Environmental Chemistry Letters,20(6) 3453-3504
An energy-economic analysis of a hybrid PV/wind/battery energy-driven hydrogen generation system in rural regions of Egypt	6.86	100	45	6.95	6.47	1	2	0	0	Elminshawy, N.A.S., Diab, S., Yassen, Y.E.S. and 1 more (...) (2024).An energy-economic analysis of a hybrid PV/wind/battery energy-driven hydrogen generation system in rural regions of Egypt. Journal of Energy Storage,80
Performance and potential of a novel floating photovoltaic system in Egyptian winter climate on calm water surface	3.5	91	45	2.89	15.55	4	7	0	0	Elminshawy, N.A.S., Mohamed, A.M.I., Osama, A. and 3 more (...) (2022).Performance and potential of a novel floating photovoltaic system in Egyptian winter climate on calm water surface. International Journal of Hydrogen Energy,47(25) 12798-12814
A technical and economic evaluation of floating photovoltaic systems in the context of the water-energy nexus	4.3	73	44	7.65	5.75	1	2	0	0	Elminshawy, N.A.S., Osama, A., Gagliano, A. and 2 more (...) (2024).A technical and economic evaluation of floating photovoltaic systems in the context of the water-energy nexus. Energy,303
Advanced process integration for supercritical production of biodiesel: Residual waste heat recovery via organic Rankine cycle (ORC)	2.06	135	44	1.68	23.74	7	16	0	0	Aboelazayem, O., Gadalla, M., Alhajri, I. and 1 more (...) (2021).Advanced process integration for supercritical production of biodiesel: Residual waste heat recovery via organic Rankine cycle (ORC). Renewable Energy,164433-443
Polymer solar cell based on doped o-anthranilic acid and o-aminophenol copolymer	2.1	50	43	3.29	12.16	9	6	0	0	Zoromba, M.S., Tashkandi, M.A., Alshehri, A.A. and 5 more (...) (2020).Polymer solar cell based on doped o-anthranilic acid and o-aminophenol copolymer. Optical Materials,104
Performance estimation of a mini-passive solar still via machine learning	1.11	70	41	1.03	24.3	10	27	0	0	Maddah, H.A., Bassyouni, M., Abdel-Aziz, M.H. and 2 more (...) (2020). Performance estimation of a mini-passive solar still via machine learning. Renewable Energy,162489-503
An innovative cooling technique for floating photovoltaic module: Adoption of partially submerged angle fins	5.1	112	40	3.78	10.59	3	5	0	0	Elminshawy, N.A.S., Elminshawy, A., Osama, A. (2023).An innovative cooling technique for floating photovoltaic module: Adoption of partially submerged angle fins. Energy Conversion and Management: X,20
One-pot conversion of highly acidic waste cooking oil into biodiesel over a novel bio-based bi-functional catalyst	1.95	95	40	2.42	14.46	8	10	0	0	Naeem, M.M., Al-Sakkari, E.G., Boffito, D.C. and 2 more (...) (2021).One-pot conversion of highly acidic waste cooking oil into biodiesel over a novel bio-

										based bi-functional catalyst. Fuel,283
Power management strategy based on adaptive neuro fuzzy inference system for AC microgrid	1.11	28	39	1.84	12.49	11	14	0	0	Fekry, H.M., Eldesouky, A.A., Kassem, A.M. and 1 more (...) (2020).Power management strategy based on adaptive neuro fuzzy inference system for AC microgrid. IEEE Access,8192087-192100
Design and characterization of a vertical-axis micro tidal turbine for low velocity scenarios	2.18	71	39	2	14.96	8	13	0	0	Gharib Yosry, A., Fernández-Jiménez, A., Álvarez-Álvarez, E. and 1 more (...) (2021).Design and characterization of a vertical-axis micro tidal turbine for low velocity scenarios. Energy Conversion and Management,237
Catalytic fast pyrolysis of lignocellulosic biomass: Recent advances and comprehensive overview	4.33	119	39	2.54	15.36	1	10	0	0	El Bari, H., Fanezoune, C.K., Dorneanu, B. and 10 more (...) (2024).Catalytic fast pyrolysis of lignocellulosic biomass: Recent advances and comprehensive overview. Journal of Analytical and Applied Pyrolysis,178
Theoretical investigation of the temperature limits of an actively cooled high concentration photovoltaic system	1.87	53	38	1.6	13.72	11	16	0	0	Ahmed, A., Shanks, K., Sundaram, S. and 1 more (...) (2020).Theoretical investigation of the temperature limits of an actively cooled high concentration photovoltaic system. Energies,13(8)
Dual valorization of coastal biowastes for tetracycline remediation and biomethane production: A composite assisted anaerobic digestion	1.79	49	38	5.99	6.34	1	3	0	0	El-Qelish, M., Maged, A., Elwakeel, K.Z. and 2 more (...) (2024).Dual valorization of coastal biowastes for tetracycline remediation and biomethane production: A composite assisted anaerobic digestion. Journal of Hazardous Materials,465
Effectiveness of some novel heterocyclic compounds as corrosion inhibitors for carbon steel in 1 M HCl using practical and theoretical methods	0.58	14	38	2.45	11.01	8	10	0	0	Fouda, E.-A., Abd el-Maksoud, S.A., El-Sayed, E.H. and 2 more (...) (2021).Effectiveness of some novel heterocyclic compounds as corrosion inhibitors for carbon steel in 1 M HCl using practical and theoretical methods. RSC Advances,11(31) 19294-19309
Coyote optimization based on a fuzzy logic algorithm for energy-efficiency in wireless sensor networks	0.31	17	38	1.56	12.2	11	17	0	0	Mohamed, A., Saber, W., Elnahry, I. and 1 more (...) (2020).Coyote optimization based on a fuzzy logic algorithm for energy-efficiency in wireless sensor networks. IEEE Access,8185816-185829
Toward a national life cycle assessment tool: Generative design for early decision support	7.52	181	38	2.74	13.88	5	8	0	0	Hassan, S.R., Megahed, N.A., Abo Eleinen, O.M. and 1 more (...) (2022).Toward a national life cycle assessment tool: Generative design for early decision support. Energy and Buildings,267
Integration of active solar cooling technology into	2.61	76	37	3.04	12.19	6	7	0	0	Noaman, D.S., Moneer, S.A., Megahed, N.A. and 1 more (...)

passively designed facade in hot climates										(2022).Integration of active solar cooling technology into passively designed facade in hot climates. Journal of Building Engineering,56
Thermal regulation of partially floating photovoltaics for enhanced electricity production: A modeling and experimental analysis	3.05	93	37	1.99	18.63	6	13	0	0	Elminshawy, N.A.S., Osama, A., Naeim, N. and 2 more (...) (2022).Thermal regulation of partially floating photovoltaics for enhanced electricity production: A modeling and experimental analysis. Sustainable Energy Technologies and Assessments,53
Experimental performance analysis of enhanced concentrated photovoltaic utilizing various mass flow rates of Al2O3-nanofluid: Energy, exergy, and exergoeconomic study	3.12	95	37	1.99	18.63	6	13	0	0	Elminshawy, N., Elminshawy, A., Osama, A. and 2 more (...) (2022).Experimental performance analysis of enhanced concentrated photovoltaic utilizing various mass flow rates of Al2O3-nanofluid: Energy, exergy, and exergoeconomic study. Sustainable Energy Technologies and Assessments,53
Facile synthesis of spin-coated poly (4-nitroaniline) thin film: Structural and optical properties	0.93	25	37	1.97	12.16	11	13	0	0	Abed-Elmageed, A.A.I., Zoromba, M.S., Hassanien, R. and 1 more (...) (2020).Facile synthesis of spin-coated poly (4-nitroaniline) thin film: Structural and optical properties. Optical Materials,109
Exploring the potential of sheep wool as an eco-friendly insulation material: A comprehensive review and analytical ranking	2.78	93	37	2.08	17.78	1	13	0	0	Hetimy, S., Megahed, N., Eleinen, O.A. and 1 more (...) (2024).Exploring the potential of sheep wool as an eco-friendly insulation material: A comprehensive review and analytical ranking. Sustainable Materials and Technologies,39
Green hydrogen production ensemble forecasting based on hybrid dynamic optimization algorithm	2.6	68	33	2.93	11.26	4	7	0	0	Alhussan, A.A., El-Kenawy, E.-S.M., Saeed, M.A. and 7 more (...) (2023).Green hydrogen production ensemble forecasting based on hybrid dynamic optimization algorithm. Frontiers in Energy Research,11
Performance evaluation of a novel self-tuning particle swarm optimization algorithm-based maximum power point tracker for porton exchange membrane fuel cells under different operating conditions	1.9	29	32	5.32	6.02	2	3	0	0	Refaat, A., Elbaz, A., Khalifa, A.-E. and 3 more (...) (2024).Performance evaluation of a novel self-tuning particle swarm optimization algorithm-based maximum power point tracker for porton exchange membrane fuel cells under different operating conditions. Energy Conversion and Management,301
Conceptual design and numerical analysis of a novel floating desalination plant powered by marine renewable energy for Egypt	1.79	54	32	1.93	11.42	13	13	1	1	Amin, I., Ali, M.E.A., Bayoumi, S. and 3 more (...) (2020).Conceptual design and numerical analysis of a novel floating desalination plant powered by marine renewable

										energy for Egypt. Journal of Marine Science and Engineering,8(2) 1-23
Power management and optimized control of hybrid PV-BESS-grid integrated fast EV charging stations	2.74	40	32	4.94	6.47	2	4	0	0	Elsanabary, A., Khairullah, K., Aziz, N.F.A. and 1 more (...) (2024).Power management and optimized control of hybrid PV-BESS-grid integrated fast EV charging stations. Journal of Energy Storage,90
Artificial neural network based prediction of ship speed under operating conditions for operational optimization	1.71	39	31	3.13	9.9	4	7	0	0	Bassam, A.M., Phillips, A.B., Turnock, S.R. and 1 more (...) (2023).Artificial neural network based prediction of ship speed under operating conditions for operational optimization. Ocean Engineering,278
Hydrogen-Rich Syngas and Biochar Production by Non-Catalytic Valorization of Date Palm Seeds	1.93	44	30	2.19	13.72	8	11	0	0	Sait, H.H., Hussain, A., Bassyouni, M. and 4 more (...) (2022).Hydrogen-Rich Syngas and Biochar Production by Non-Catalytic Valorization of Date Palm Seeds. Energies,15(8)
Systematic study of optoelectronic and thermoelectric properties of new lead-free halide double perovskites A2KGaI6(A = Cs, Rb) for solar cell applications via ab-initio calculations	1.02	23	29	2.16	13.43	8	11	0	0	Waqas Mukhtar, M., Ramzan, M., Rashid, M. and 5 more (...) (2022).Systematic study of optoelectronic and thermoelectric properties of new lead-free halide double perovskites A2KGaI6(A = Cs, Rb) for solar cell applications via ab-initio calculations. Materials Science and Engineering: B,285
Prediction and assessment of automated lifting system performance for multi-storey parking lots powered by solar energy	1.06	53	29	1.14	17.55	15	24	0	0	Elhenawy, Y., Hafez, G., Abdel-Hamid, S. and 1 more (...) (2020).Prediction and assessment of automated lifting system performance for multi-storey parking lots powered by solar energy. Journal of Cleaner Production,266
Modelling the impact of lining and covering irrigation canals on underlying groundwater stores in the Nile Delta, Egypt	2.76	58	28	2.56	10.92	8	9	0	2	Abd-Elaty, I., Pugliese, L., Bali, K.M. and 2 more (...) (2022).Modelling the impact of lining and covering irrigation canals on underlying groundwater stores in the Nile Delta, Egypt. Hydrological Processes,36(1)
Water Desalination Using Solar Thermal Collectors Enhanced by Nanofluids	1.81	55	28	1.72	16.27	8	16	0	0	Zakaria, M., Sharaky, A.M., Al-Sherbini, A.-S. and 3 more (...) (2022).Water Desalination Using Solar Thermal Collectors Enhanced by Nanofluids. Chemical Engineering and Technology,45(1) 15-25
A Comparative Review on Single Phase Transformerless Inverter Topologies for Grid-Connected Photovoltaic Systems	0.66	30	28	0.92	30.3	5	31	0	0	Kibria, M.F., Elsanabary, A., Tey, K.S. and 2 more (...) (2023).A Comparative Review on Single Phase Transformerless Inverter Topologies for Grid-Connected Photovoltaic Systems. Energies,16(3)

Synthesis, characterization, and photosensitizer applications for dye-based on ZrO <sub>2</sub> - acriflavine nanocomposite thin film [ZrO <sub>2</sub> +ACF]C	1.65	44	27	2.25	11.99	9	11	0	0	Abd El-Aal, M., Mogharbel, R.T., Ibrahim, A. and 4 more (...) (2022).Synthesis, characterization, and photosensitizer applications for dye-based on ZrO <sub>2</sub> - acriflavine nanocomposite thin film [ZrO <sub>2</sub> +ACF]C. Journal of Molecular Structure,1250
Evaluation of Storage Stability for Biocrude Derived from Hydrothermal Liquefaction of Microalgae	1.47	43	27	1.55	15.49	13	18	0	0	Liu, G., Du, H., Sailikebuli, X. and 8 more (...) (2021).Evaluation of Storage Stability for Biocrude Derived from Hydrothermal Liquefaction of Microalgae. Energy and Fuels,35(13) 10623-10629
Experimental study of simultaneous effect of evacuated tube collectors coupled with parabolic reflectors on traditional single slope solar still efficiency	1.75	32	27	3.34	8.08	5	6	0	0	Farghaly, M.B., Alahmadi, R.N., Sarhan, H.H. and 1 more (...) (2023).Experimental study of simultaneous effect of evacuated tube collectors coupled with parabolic reflectors on traditional single slope solar still efficiency. Case Studies in Thermal Engineering,49
Single-stage waste oil conversion into biodiesel via sonication over bio-based bifunctional catalyst: Optimization, preliminary techno-economic and environmental analysis	3.81	77	25	2.43	10.27	6	10	0	0	Naeem, M.M., Al-Sakkari, E.G., Boffito, D.C. and 3 more (...) (2023).Single-stage waste oil conversion into biodiesel via sonication over bio-based bifunctional catalyst: Optimization, preliminary techno-economic and environmental analysis. Fuel,341
Retrofit of heat exchanger networks by graphical Pinch Analysis - A case study of a crude oil refinery in Kuwait	3.26	76	25	1.87	11.25	14	14	0	0	Alhajri, I.H., Gadalla, M.A., Abdelaziz, O.Y. and 1 more (...) (2021).Retrofit of heat exchanger networks by graphical Pinch Analysis - A case study of a crude oil refinery in Kuwait. Case Studies in Thermal Engineering,26
Energy and exergy analyses of new cooling schemes based on a serpentine configuration for a high concentrator photovoltaic system	2.42	84	25	1.27	16.56	14	22	0	0	Ahmed, A., Shanks, K., Sundaram, S. and 1 more (...) (2021).Energy and exergy analyses of new cooling schemes based on a serpentine configuration for a high concentrator photovoltaic system. Applied Thermal Engineering,199
Response Surface Optimisation of Vertical Axis Wind Turbine at low wind speeds	2.91	93	24	1.31	18.28	10	22	0	0	Elsakka, M.M., Ingham, D.B., Ma, L. and 3 more (...) (2022).Response Surface Optimisation of Vertical Axis Wind Turbine at low wind speeds. Energy Reports,810868-10880
Numerical hydrodynamics-based design of an offshore platform to support a desalination plant and a wind turbine in Egypt	1.93	55	24	1.68	13.71	15	16	0	0	Amin, I., Ali, M.E.A., Bayoumi, S. and 4 more (...) (2021).Numerical hydrodynamics-based design of an offshore platform to support a desalination plant and a wind

										turbine in Egypt. Ocean Engineering,229
Performance analysis of reinforced epoxy functionalized carbon nanotubes composites for vertical axis wind turbine blade	2.5	69	24	1.28	15.57	15	22	0	0	Elhenawy, Y., Fouad, Y., Marouani, H. and 1 more (...) (2021).Performance analysis of reinforced epoxy functionalized carbon nanotubes composites for vertical axis wind turbine blade. Polymers,13(3) 1-16
Techno-economic multi-objective reactive power planning in integrated wind power system with improving voltage stability	1.47	42	24	2.26	10.63	6	11	0	0	Eladl, A.A., Basha, M.I., ElDesouky, A.A. (2023).Techno-economic multi-objective reactive power planning in integrated wind power system with improving voltage stability. Electric Power Systems Research,214
Numerical investigation of the indoor thermal behaviour based on PCMs in a hot climate	1.46	44	23	2.92	7.86	11	7	0	0	Ismail, R.M., Megahed, N.A., Eltarabily, S. (2022).Numerical investigation of the indoor thermal behaviour based on PCMs in a hot climate. Architectural Science Review,65(3) 196-216
Recycling of catering waste for sequential production of biohydrogen and biomethane; pre-treatments, batch, and continuous mode studies	1.47	34	23	2.24	10.27	6	11	0	0	Elwakeel, K.Z., Elgarahy, A.M., Alghamdi, H.M. and 1 more (...) (2023).Recycling of catering waste for sequential production of biohydrogen and biomethane; pre-treatments, batch, and continuous mode studies. Journal of Environmental Chemical Engineering,11(5)
Photodeposition Conditions of Silver Cocatalyst on Titanium Oxide Photocatalyst Directing Product Selectivity in Photocatalytic Reduction of Carbon Dioxide with Water	1.33	49	22	0.61	21.49	20	41	0	0	Hammad, A., Anzai, A., Zhu, X. and 6 more (...) (2020).Photodeposition Conditions of Silver Cocatalyst on Titanium Oxide Photocatalyst Directing Product Selectivity in Photocatalytic Reduction of Carbon Dioxide with Water. Catalysis Letters,150(4) 1081-1088
Combined experimental and TDDFT computations for the structural and optical properties for poly (ortho phenylene diamine) thin film with different surfactants	1.91	36	22	1.6	12.52	16	17	0	0	Bourezgui, A., Al-Hossainy, A.F., ElAzab, I.H. and 5 more (...) (2021).Combined experimental and TDDFT computations for the structural and optical properties for poly (ortho phenylene diamine) thin film with different surfactants. Journal of Materials Science: Materials in Electronics,32(5) 5489-5503
Conducting polymer thin film for optoelectronic devices applications	1.43	40	22	1.42	13.42	16	20	0	0	Abdel-Aziz, M.H., Zwawi, M., Al-Hossainy, A.F. and 1 more (...) (2021).Conducting polymer thin film for optoelectronic devices applications. Polymers for Advanced Technologies,32(6) 2588-2596
Optoelectronic and photocatalytic properties of GaN, GeS and SiS	0.54	12	22	1.51	14.62	11	19	0	0	Abid, A., Haneef, M., Ali, S. and 1 more (...) (2022).Optoelectronic and photocatalytic properties of

monolayers and their vdW heterostructures										GaN, GeS and SiS monolayers and their vdW heterostructures. Journal of Physics and Chemistry of Solids,161
Improvement of the thermal stability and optical properties for poly (ortho phenylene diamine) using soft templates	2.53	66	22	1.19	12.57	20	23	0	0	Zoromba, M.S., Al-Hossainy, A.F., Mahmoud, S.A. and 2 more (...) (2020).Improvement of the thermal stability and optical properties for poly (ortho phenylene diamine) using soft templates. Journal of Molecular Structure,1221
Physical properties of KTaO3 compound for optoelectronic and thermoelectric applications: A DFT study	0.58	13	22	1.56	13.43	11	18	0	0	Sarfraz, S., Aldaghfag, S.A., Butt, M.K. and 3 more (...) (2022).Physical properties of KTaO3 compound for optoelectronic and thermoelectric applications: A DFT study. Materials Science in Semiconductor Processing,148
Optimal parameters identification for PEMFC using autonomous groups particle swarm optimization algorithm	1.83	28	22	3.45	6.38	3	6	0	0	Elfar, M.H., Fawzi, M., Serry, A.S. and 3 more (...) (2024).Optimal parameters identification for PEMFC using autonomous groups particle swarm optimization algorithm. International Journal of Hydrogen Energy,691113-1128
Polypyrrole/functionalized multi-walled carbon nanotube composite for optoelectronic device application	0.95	26	22	1.12	15.17	16	26	0	0	Zwawi, M., Attar, A., Al-Hossainy, A.F. and 2 more (...) (2021).Polypyrrole/functionalized multi-walled carbon nanotube composite for optoelectronic device application. Chemical Papers,75(12) 6575-6589
Physical characteristics of barium based cubic perovskites	1.17	26	22	1.29	13.22	16	22	0	0	Shakoor, F., Aldaghfag, S.A., Yaseen, M. and 6 more (...) (2021).Physical characteristics of barium based cubic perovskites. Chemical Physics Letters,779
One-dimensional ternary conducting polymers blend with 9.26% power conversion efficiency for photovoltaic devices applications	1.05	27	21	2.51	8.36	7	9	0	0	Abdel-Aziz, M.H., Maddah, H.A., Sh. Zoromba, M. and 1 more (...) (2023).One-dimensional ternary conducting polymers blend with 9.26% power conversion efficiency for photovoltaic devices applications. Alexandria Engineering Journal,66475-488
Experimental and numerical simulation of solar membrane distillation and humidification – dehumidification water desalination system	3.08	98	21	1.35	15.56	7	21	0	0	Elthenawy, Y., Bassyouni, M., Fouad, K. and 3 more (...) (2023).Experimental and numerical simulation of solar membrane distillation and humidification – dehumidification water desalination system. Renewable Energy,215
Yield and energy outputs analysis of sawdust biomass pyrolysis	3.41	52	21	3.49	6.02	3	6	0	0	Elthenawy, Y., Fouad, K., Bassyouni, M. and 2 more (...) (2024).Yield and energy outputs analysis of sawdust biomass pyrolysis. Energy Conversion and Management: X,22



Dragonfly-Based Joint Delay/Energy LTE Downlink Scheduling Algorithm	0.39	12	21	1.15	12.2	21	24	0	0	Nashaat, H., Refaat, O., Zaki, F.W. and 1 more (...) (2020).Dragonfly-Based Joint Delay/Energy LTE Downlink Scheduling Algorithm. IEEE Access,835392-35402
Experimental and multiphase modeling of small vertical-axis hydrokinetic turbine with free-surface variations	1.76	56	21	1.35	15.56	7	21	0	0	Yosry, A.G., Álvarez, E.Á., Valdés, R.E. and 2 more (...) (2023).Experimental and multiphase modeling of small vertical-axis hydrokinetic turbine with free-surface variations. Renewable Energy,203788-801
A renewable lignin-derived bio-oil for boosting the oxidation stability of biodiesel	1.31	60	20	0.89	22.57	13	32	2	0	Umar, Y., Velasco, O., Abdelaziz, O.Y. and 4 more (...) (2022).A renewable lignin-derived bio-oil for boosting the oxidation stability of biodiesel. Renewable Energy,182867-878
Comparison of the Computational Fluid Dynamics Predictions of Vertical Axis Wind Turbine Performance Against Detailed Pressure Measurements	1.89	69	20	1	19.06	18	29	0	0	Elsakka, M.M., Ingham, D.B., Ma, L. and 1 more (...) (2021).Comparison of the Computational Fluid Dynamics Predictions of Vertical Axis Wind Turbine Performance Against Detailed Pressure Measurements. International Journal of Renewable Energy Research,11(1) 276-293
Physical structure, TD-DFT computations, and optical properties of hybrid nanocomposite thin film as optoelectronic devices	1.04	25	20	1.4	14.34	13	20	0	0	Zoromba, M.S., Maddah, H.A., Abdel-Aziz, M.H. and 1 more (...) (2022).Physical structure, TD-DFT computations, and optical properties of hybrid nanocomposite thin film as optoelectronic devices. Journal of Industrial and Engineering Chemistry,112106-124
Aqueous Phase from Hydrothermal Liquefaction: Composition and Toxicity Assessment	2.85	57	20	2.7	7.4	8	8	0	0	Kulikova, Y., Klementev, S., Sirotkin, A. and 5 more (...) (2023).Aqueous Phase from Hydrothermal Liquefaction: Composition and Toxicity Assessment. Water (Switzerland),15(9)
Fabrication, characterization, TD-DFT, optical and electrical properties of poly (aniline-co-para nitroaniline)/ZrO2 composite for solar cell applications	1.91	46	20	1.4	14.34	13	20	0	0	Attar, A., Alharthy, R.D., Zwawi, M. and 6 more (...) (2022).Fabrication, characterization, TD-DFT, optical and electrical properties of poly (aniline-co-para nitroaniline)/ZrO2 composite for solar cell applications. Journal of Industrial and Engineering Chemistry,109230-244
Nickel Oxide Nanoparticles Application for Enhancing Biogas Production Using Certain Wastewater Bacteria and Aquatic Macrophytes Biomass	0.72	43	20	0.62	22.41	18	42	0	0	Salama, A.M., Helmy, E.A., Abd El-ghany, T.M. and 1 more (...) (2021).Nickel Oxide Nanoparticles Application for Enhancing Biogas Production Using Certain Wastewater Bacteria and Aquatic Macrophytes Biomass. Waste

										and Biomass Valorization,12(4) 2059-2070
Relevance of monocrystalline and thin-film technologies in implementing efficient grid-connected photovoltaic systems in historic buildings in Port Fouad city, Egypt	4.35	110	19	1.77	10.75	14	15	0	0	Badawy, N.M., Hosam Salah, E.S., Waseef, A.A.E. (2022).Relevance of monocrystalline and thin-film technologies in implementing efficient grid-connected photovoltaic systems in historic buildings in Port Fouad city, Egypt. Alexandria Engineering Journal,61(12) 12229-12246
Evolution of ion-acoustic soliton waves in Venus's ionosphere permeated by the solar wind	0.89	14	18	1.41	12.08	20	20	0	0	Afify, M.S., Elkamash, I.S., Shihab, M. and 1 more (...) (2021).Evolution of ion-acoustic soliton waves in Venus's ionosphere permeated by the solar wind. Advances in Space Research,67(12) 4110-4120
Conceptual design of a novel partially floating photovoltaic integrated with smart energy storage and management system for Egyptian North Lakes	2.23	51	18	1.82	9.9	9	15	0	0	Bassam, A.M., Amin, I., Mohamed, A. and 6 more (...) (2023).Conceptual design of a novel partially floating photovoltaic integrated with smart energy storage and management system for Egyptian North Lakes. Ocean Engineering,279
Model-assisted active disturbance rejection controller for maximum efficiency schemes of DFIG-based wind turbines	0.51	14	17	1	13.05	21	29	0	0	Sobhy, A., Lei, D. (2021).Model-assisted active disturbance rejection controller for maximum efficiency schemes of DFIG-based wind turbines. International Transactions on Electrical Energy Systems,31(11)
A Recommendation System for Electric Vehicles Users Based on Restricted Boltzmann Machine and WaterWheel Plant Algorithms	1.96	44	17	1.79	9.48	10	15	0	0	Ibrahim, A., El-Kenawy, E.-S.M., Eid, M.M. and 8 more (...) (2023).A Recommendation System for Electric Vehicles Users Based on Restricted Boltzmann Machine and WaterWheel Plant Algorithms. IEEE Access,11145111-145136
Experimental investigation of two novel arrangements of air gap membrane distillation module with heat recovery	2.35	75	17	0.93	18.28	16	31	0	0	Elhenawy, Y., Moustafa, G.H., Abdel-Hamid, S.M.S. and 2 more (...) (2022).Experimental investigation of two novel arrangements of air gap membrane distillation module with heat recovery. Energy Reports,88563-8573
A Comparative Study of MPPT for PV System Based on Modified Perturbation Observation Method	2.97	32	17	5.95	2.52	21	2	0	0	Osman, M.H., Ahmed, M.K., Refaat, A. and 1 more (...) (2021).A Comparative Study of MPPT for PV System Based on Modified Perturbation Observation Method. Proceedings of the 2021 IEEE Conference of Russian Young Researchers in Electrical and Electronic Engineering, ElConRus 2021,1023-1026

Optical constants of ternary Cux(Ge30Se70)100-x thin films for solar cell applications	0.93	22	16	1.15	12.16	27	24	0	0	Aly, K.A., Saddeek, Y.B., Dahshan, A. (2020).Optical constants of ternary Cux(Ge30Se70)100-x thin films for solar cell applications. Optical Materials,109
Enviro-economic and optimal hybrid energy system: Photovoltaic-biogas-hydro-battery system in rural areas of Pakistan	1.03	16	16	3.16	5.06	4	7	0	0	Mukhtar, S., Muhammad, S., Alyousef, H.A. and 3 more (...) (2024).Enviro-economic and optimal hybrid energy system: Photovoltaic-biogas-hydro-battery system in rural areas of Pakistan. Heliyon,10(16)
Toward Enhancing the Energy Efficiency and Minimizing the SLA Violations in Cloud Data Centers	0.78	21	16	1.07	13.98	23	27	0	0	Elsedimy, E.I., Algarni, F. (2021).Toward Enhancing the Energy Efficiency and Minimizing the SLA Violations in Cloud Data Centers. Applied Computational Intelligence and Soft Computing,2021
Development and implementation of two-stage boost converter for single-phase inverter without transformer for PV systems	0.87	22	16	0.8	12.53	27	34	0	0	Elnaghi, B.E., Dessouki, M.E., Abd-Atwahab, M.N. and 1 more (...) (2020).Development and implementation of two-stage boost converter for single-phase inverter without transformer for PV systems. International Journal of Electrical and Computer Engineering,10(1) 660-669
Synthesis, characterization, DFT-TDDFT calculations and optical properties of a novel pyrazole-1,2,3-triazole hybrid thin film	2.46	44	16	1.17	12.81	23	24	0	0	El Azab, I.H., Gobouri, A.A., Altalhi, T.A. and 10 more (...) (2021).Synthesis, characterization, DFT-TDDFT calculations and optical properties of a novel pyrazole-1,2,3-triazole hybrid thin film. Optik,247
Heuristic Approach for Net-Zero Energy Residential Buildings in Arid Region Using Dual Renewable Energy Sources	1.48	43	16	1.9	8.41	11	14	0	0	Ismaeil, E.M.H., Sobaih, A.E.E. (2023).Heuristic Approach for Net-Zero Energy Residential Buildings in Arid Region Using Dual Renewable Energy Sources. Buildings,13(3)
Correction to: Hydrogen production, storage, utilisation and environmental impacts: a review (Environmental Chemistry Letters, (2022), 20, 1, (153-188), 10.1007/s10311-021-01322-8)	4.36	79	16	18.5	0.86	17	1	0	0	Osman, A.I., Mehta, N., Elgarahy, A.M. and 4 more (...) (2022).Correction to: Hydrogen production, storage, utilisation and environmental impacts: a review (Environmental Chemistry Letters, (2022), 20, 1, (153-188), 10.1007/s10311-021-01322-8). Environmental Chemistry Letters,20(3)
Enhancing Healing Environment and Sustainable Finishing Materials in Healthcare Buildings	3.21	101	16	1.42	11.3	17	20	0	0	Ismaeil, E.M.H., Sobaih, A.E.E. (2022).Enhancing Healing Environment and Sustainable Finishing Materials in Healthcare Buildings. Buildings,12(10)
Aspen Plus simulation of a low capacity organic Rankine cycle heated by solar energy	1.41	51	15	0.82	18.28	18	35	0	0	Shalaby, S.M., Gadalla, M.A., El Sayed, A.R. and 2 more (...) (2022).Aspen Plus simulation of a low capacity organic Rankine

										cycle heated by solar energy. Energy Reports,8416-421
New analytical assessment for fast and complete pre-fault restoration of grid-connected FSWTs with fuzzy-logic pitch-angle controller	1.05	34	15	0.99	15.08	18	29	0	0	Salem, A.A., ElDesouky, A.A., Alaboudy, A.H.K. (2022).New analytical assessment for fast and complete pre-fault restoration of grid-connected FSWTs with fuzzy-logic pitch-angle controller. International Journal of Electrical Power and Energy Systems,136
Ionospheric losses of Venus in the solar wind	1.26	25	15	0.95	12.57	28	29	0	0	Salem, S., Moslem, W.M., Lazar, M. and 3 more (...) (2020).Ionospheric losses of Venus in the solar wind. Advances in Space Research,65(1) 129-137
Multi-functional core-shell pomegranate peel amended alginate beads for phenol decontamination and bio-hydrogen production: Synthesis, characterization, and kinetics investigation	2.43	55	15	1.5	10.02	11	19	0	0	El-Qelish, M., Elgarahy, A.M., Ibrahim, H.S. and 3 more (...) (2023).Multi-functional core-shell pomegranate peel amended alginate beads for phenol decontamination and bio-hydrogen production: Synthesis, characterization, and kinetics investigation. Biochemical Engineering Journal,195
Effect of using an infrared filter on the performance of a silicon solar cell for an ultra-high concentrator photovoltaic system	2.02	61	15	0.9	13.39	28	31	0	0	Ahmed, A., Alzahrani, M., Shanks, K. and 2 more (...) (2020).Effect of using an infrared filter on the performance of a silicon solar cell for an ultra-high concentrator photovoltaic system. Materials Letters,277
Trajectory optimization for UAV-assisted relay over 5G networks based on reinforcement learning framework	0.94	37	15	0.55	27.38	11	45	1	0	Abohashish, S.M.M., Rizk, R.Y., Elsedimy, E.I. (2023).Trajectory optimization for UAV-assisted relay over 5G networks based on reinforcement learning framework. Eurasip Journal on Wireless Communications and Networking,2023(1)
A fast-tracking MPPT-based modified coot optimization algorithm for PV systems under partial shading conditions	0.67	11	15	3.13	4.79	5	7	0	0	Talib Naser, A., Khairullah Mohammed, K., Fadilah Ab Aziz, N. and 3 more (...) (2024).A fast-tracking MPPT-based modified coot optimization algorithm for PV systems under partial shading conditions. Ain Shams Engineering Journal,15(10)
Sustainable Building Optimization Model for Early-Stage Design	2.61	76	15	1.78	8.41	11	15	0	0	Elbeltagi, E., Wefki, H., Khallaf, R. (2023).Sustainable Building Optimization Model for Early-Stage Design. Buildings,13(1)
Potential application of solar still desalination in NEOM region	2.25	27	15	3.69	4.06	5	6	0	0	AbdelMeguid, H., GHERISSI, A., Elsawy, M. and 4 more (...) (2024).Potential application of solar still desalination in NEOM region. Applied Water Science,14(3)
Implementation of boolean PSO for service restoration using	0.74	30	14	0.32	18.91	30	57	0	0	ElDesouky, A.A., Reyad, E.M., Mahmoud, G.A. (2020).Implementation of

distribution network reconfiguration simultaneously with distributed energy resources and capacitor banks										boolean PSO for service restoration using distribution network reconfiguration simultaneously with distributed energy resources and capacitor banks. International Journal of Renewable Energy Research,10(1) 354-365
Energetic, environmental and economic (3E) analysis of a CSA algorithm optimized floatovoltaic system integrated with heat sink: Modeling with experimental validation	3.7	38	14	4.97	2.82	5	4	0	0	Elminshawy, N.A.S., Osama, A., Elbaksawi, O. and 2 more (...) (2024).Energetic, environmental and economic (3E) analysis of a CSA algorithm optimized floatovoltaic system integrated with heat sink: Modeling with experimental validation. Engineering Analysis with Boundary Elements,159384-401
Experimental analysis and numerical simulation of biomass pyrolysis	5.16	60	14	3.49	4.01	5	6	0	0	Elhenawy, Y., Fouad, K., Mansi, A. and 4 more (...) (2024).Experimental analysis and numerical simulation of biomass pyrolysis. Journal of Thermal Analysis and Calorimetry,149(19) 10369-10383
The potential of optimized floating photovoltaic system for energy production in the Northern Lakes of Egypt	7.19	68	14	4.97	2.82	5	4	0	0	Elminshawy, N.A.S., Ahmed, A., Osama, A. and 2 more (...) (2024).The potential of optimized floating photovoltaic system for energy production in the Northern Lakes of Egypt. Engineering Analysis with Boundary Elements,161226-246
Combined experimental and theoretical study, characterization, and nonlinear optical properties of doped-poly (p-nitroaniline-co-o-aminophenol) thin films	1.27	31	14	1.12	12.48	25	26	0	0	Almutlaq, N., Al-Hossainy, A.F., Zoromba, M.S. (2021).Combined experimental and theoretical study, characterization, and nonlinear optical properties of doped-poly (p-nitroaniline-co-o-aminophenol) thin films. Journal of Molecular Structure,1227
An examination of hub wind turbine utilizing fluid-structure interaction strategy	0.83	22	13	1.56	8.36	14	18	0	0	Yassen, Y.E.S., Abdelhameed, A.S., Elshorbagy, K.A. (2023).An examination of hub wind turbine utilizing fluid-structure interaction strategy. Alexandria Engineering Journal,641-11
Facile synthesis of single-crystal of o-phenylene diamine dihydrochloride as a polychloride and fabrication of high-performance semiconductor thin film	1.95	40	13	1.07	12.12	27	27	0	0	Zoromba, M.S., Al-Hossainy, A.F., Rzaigui, M. and 4 more (...) (2021).Facile synthesis of single-crystal of o-phenylene diamine dihydrochloride as a polychloride and fabrication of high-performance semiconductor thin film. Optical Materials,112
Green retrofitting of heritage buildings based on (3Ts) framework: An applied case study	5.84	78	13	5.75	2.26	6	3	0	0	Shehata, A.O., Hassan, A.M., Shahda, M.M. and 1 more (...) (2024).Green retrofitting of heritage buildings based on (3Ts) framework: An applied case study. Frontiers of Architectural Research,13(4) 776-798

Experimental validation of a low-cost maximum power point tracking technique based on artificial neural network for photovoltaic systems	2.5	39	13	2.57	5.06	6	10	0	0	Abouzeid, A.F., Eleraky, H., Kalas, A. and 3 more (...) (2024).Experimental validation of a low-cost maximum power point tracking technique based on artificial neural network for photovoltaic systems. Scientific Reports,14(1)
Comprehensive Review of Renewable Energy Communication Modeling for Smart Systems	0.97	44	13	0.43	30.3	14	51	0	0	Ugwu, J., Odo, K.C., Ohanu, C.P. and 2 more (...) (2023).Comprehensive Review of Renewable Energy Communication Modeling for Smart Systems. Energies,16(1)
Innovative metaheuristic algorithm with comparative analysis of MPPT for 5.5 kW floating photovoltaic system	1.81	31	13	2.12	6.13	6	13	0	0	Elbaksawi, O., Elminshawy, N.A.S., Diab, S. and 3 more (...) (2024).Innovative metaheuristic algorithm with comparative analysis of MPPT for 5.5 kW floating photovoltaic system. Process Safety and Environmental Protection,1851072-1088
Acid-hydrolysed furfural production from rice straw bio-waste: Process synthesis, simulation, and optimisation	2.39	69	13	0.8	13.83	27	35	0	0	Sherif, N., Gadalla, M., Kamel, D. (2021).Acid-hydrolysed furfural production from rice straw bio-waste: Process synthesis, simulation, and optimisation. South African Journal of Chemical Engineering,3834-40
Holistic design of energy-efficient temporary houses: Meeting ventilation, heating, cooling, and lighting demands	3.01	55	13	2.7	4.82	6	9	0	0	Noaman, D.S., El-Ghafour, S.A. (2024).Holistic design of energy-efficient temporary houses: Meeting ventilation, heating, cooling, and lighting demands. Journal of Building Engineering,86
Electrical and thermoelectrical properties of Bi2-xNaxTe3 alloys	1.61	36	13	1.03	12.62	21	28	0	0	Adam, A.M., Diab, A.K., El-Hadek, M.A. and 2 more (...) (2022).Electrical and thermoelectrical properties of Bi2-xNaxTe3 alloys. Journal of Alloys and Compounds,920
Solar Chimney Performance Driven Air Ventilation Promotion: An Investigation of Various Configuration Parameters	0.67	43	13	0.54	24.27	14	46	0	0	Hassan, A.M. (2023).Solar Chimney Performance Driven Air Ventilation Promotion: An Investigation of Various Configuration Parameters. Buildings,13(11)
A Novel Circuit Configuration for the Integration of Modular Multilevel Converter With Large-Scale Grid-Connected PV Systems	0.64	8	13	2.25	5.78	6	12	0	0	Etsanabary, A., Mekhilef, S., Seyedmahmoudian, M. and 1 more (...) (2024).A Novel Circuit Configuration for the Integration of Modular Multilevel Converter With Large-Scale Grid-Connected PV Systems. IEEE Transactions on Energy Conversion,39(1) 3-16
High-performance 2D/3D hybrid dimensional p-n heterojunction solar cell with reduced	0.76	17	12	0.81	14.83	22	35	0	0	Hegazy, H.H., Afzal, A.M., Dahshan, A. and 2 more (...) (2022).High-performance 2D/3D hybrid dimensional p-n heterojunction solar cell with

recombination rate by an interfacial layer										reduced recombination rate by an interfacial layer. Journal of Materials Chemistry C,10(40) 14982-14992
A Novel Model Predictive Speed Controller for PMSG in Wind Energy Systems	1.11	34	12	0.64	18.63	22	42	0	0	Abuhashish, M.N., Daoud, A.A., Elfar, M.H. (2022).A Novel Model Predictive Speed Controller for PMSG in Wind Energy Systems. International Journal of Renewable Energy Research,12(1) 170-180
New Analysis Framework of Lyapunov-Based Stability for Hybrid Wind Farm Equipped with FRT: A Case Study of Egyptian Grid Code	0.26	7	12	0.82	13.48	29	34	0	0	Salem, A.A., Eldesouky, A.A., Farahat, A.A. and 1 more (...) (2021).New Analysis Framework of Lyapunov-Based Stability for Hybrid Wind Farm Equipped with FRT: A Case Study of Egyptian Grid Code. IEEE Access,980320-80339
Electrical, dielectric, I-V and antimicrobial behavior of cobalt incapacitated Prussian blue graphene ferrites composite	0.84	16	12	1.06	11.28	22	28	0	0	Aslam, A., Ali, M.D., Aftab, Z.E.H. and 6 more (...) (2022).Electrical, dielectric, I-V and antimicrobial behavior of cobalt incapacitated Prussian blue graphene ferrites composite. Inorganic Chemistry Communications,141
Optical losses and durability of flawed Fresnel lenses for concentrated photovoltaic application	1.59	43	11	0.67	13.39	35	38	0	0	Alzahrani, M., Ahmed, A., Shanks, K. and 2 more (...) (2020).Optical losses and durability of flawed Fresnel lenses for concentrated photovoltaic application. Materials Letters,275
Thermal annealing effect on the structural and optical characteristics of silicon phthalocyanine dichloride thin films	1.99	47	11	0.8	12.56	35	34	0	0	El- Mallah, H.M., Abd- El Salam, M., Elesh, E. and 1 more (...) (2020).Thermal annealing effect on the structural and optical characteristics of silicon phthalocyanine dichloride thin films. Optik,200
A retrofitting framework for improving curtain wall performance by the integration of adaptive technologies	4.94	131	11	1.22	9.05	16	24	0	0	Tolba, L.E., El Mokadem, A.A., Badawy, N. and 1 more (...) (2023).A retrofitting framework for improving curtain wall performance by the integration of adaptive technologies. Journal of Building Engineering,80
Optical component analysis for ultrahigh concentrated photovoltaic system (UHCPV)	2.34	77	11	0.4	20.23	31	54	0	0	Alzahrani, M., Ahmed, A., Shanks, K. and 2 more (...) (2021).Optical component analysis for ultrahigh concentrated photovoltaic system (UHCPV). Solar Energy,227321-333
Highly Efficient MPP Tracker Based on Adaptive Neuro-fuzzy Inference System for Stand-Alone Photovoltaic Generator System	0.72	22	11	0.59	18.63	24	44	0	0	Osman, M.H., Seify, M.A.E., Ahmed, M.K. and 2 more (...) (2022).Highly Efficient MPP Tracker Based on Adaptive Neuro-fuzzy Inference System for Stand-Alone Photovoltaic Generator System. International Journal of Renewable Energy Research,12(1) 209-217
Internal Power Balancing of an MMC-Based Large-	0.96	12	11	1.9	5.78	7	15	0	0	Elsanabary, A., Mekhilef, S., Fadilah Ab Aziz, N.

Scale PV System Under Unbalanced Voltage Sags										(2024).Internal Power Balancing of an MMC-Based Large-Scale PV System Under Unbalanced Voltage Sags. IEEE Journal of Emerging and Selected Topics in Power Electronics,12(4) 3729-3739
Effect of (SbS) addition on the physical properties of quaternary (CdTe)100-x(SbS)x (0 ≤ x ≤ 28 at. %) glasses and band gap engineering	0.35	12	11	0.49	18.42	35	47	0	0	Boukhris, I., Kebaili, I., Neffati, R. and 1 more (...) (2020).Effect of (SbS) addition on the physical properties of quaternary (CdTe)100-x(SbS)x (0 ≤ x ≤ 28 at. %) glasses and band gap engineering. Applied Physics A: Materials Science and Processing,126(7)
Effects of turbulence modelling on the predictions of the pressure distribution around the wing of a small scale vertical axis wind turbine	5.09	71	11	4.04	1.98	35	4	0	0	Elsakka, M.M., Ingham, D.B., Ma, L. and 1 more (...) (2020).Effects of turbulence modelling on the predictions of the pressure distribution around the wing of a small scale vertical axis wind turbine. Proceedings of the 6th European Conference on Computational Mechanics: Solids, Structures and Coupled Problems, ECCM 2018 and 7th European Conference on Computational Fluid Dynamics, ECFD 2018,3921-3931
Alloyed Ag2SexS1-x quantum dots with red to NIR shift: The band gap tuning with dopant content for energy harvesting applications	3.46	75	11	0.75	11.93	35	35	1	0	Chand, S., Dahshan, A., Thakur, N. and 2 more (...) (2020). Alloyed Ag2SexS1-x quantum dots with red to NIR shift: The band gap tuning with dopant content for energy harvesting applications. Infrared Physics and Technology,105
A reduced vector model predictive controller for a three-level neutral point clamped inverter with common-mode voltage suppression	2.69	42	11	2.17	5.06	7	13	0	0	Bebboukha, A., Chouaib, L., Meneceur, R. and 6 more (...) (2024).A reduced vector model predictive controller for a three-level neutral point clamped inverter with common-mode voltage suppression. Scientific Reports,14(1)
Hybrid Floating Power Station driven by Renewable Energy for Saudi Arabia Coastal Areas	2.72	38	11	1.24	4.84	35	22	0	0	Eshra, N.M., Amin, I. (2020).Hybrid Floating Power Station driven by Renewable Energy for Saudi Arabia Coastal Areas. 2nd International Conference on Electrical, Communication and Computer Engineering, ICECCE 2020,
Recent Advances in Floating Photovoltaic Systems	2.75	86	11	0.4	27.49	16	53	0	0	Ahmed, A., Elsakka, M., Elminshawy, N. and 2 more (...) (2023).Recent Advances in Floating Photovoltaic Systems. Chemical Record,23(12)
Fabrication, carrier transport mechanisms and photovoltaic properties of Au/silicon phthalocyanine	1.36	32	11	0.56	12.56	35	44	0	0	El-Damhagi, D.G., El-Mallah, H.M., el-Salam, M.A. and 1 more (...) (2020).Fabrication, carrier transport mechanisms and



dichloride/p-Si/Al heterojunction device										photovoltaic properties of Au/silicon phthalocyanine dichloride/p-Si/Al heterojunction device. Optical and Quantum Electronics,52(10)
Physical properties and DFT calculations of the hybrid organic polymeric nanocomposite thin film [P(An+o-Aph)+Glycine/TiO2]/HNC with 7.42% power conversion efficiency	1.4	28	11	0.92	11.99	24	32	0	0	Mansour, H., Abd El.Halium, E.M.F., Alrasheedi, N.F.H. and 2 more (...) (2022).Physical properties and DFT calculations of the hybrid organic polymeric nanocomposite thin film [P(An+o-Aph)+Glycine/TiO2]/HNC with 7.42% power conversion efficiency. Journal of Molecular Structure,1262
Simulation of glass fiber reinforced polypropylene nanocomposites for small wind turbine blades	2.45	66	10	0.61	14.81	33	43	0	0	Elhenawy, Y., Fouad, Y., Marouani, H. and 1 more (...) (2021).Simulation of glass fiber reinforced polypropylene nanocomposites for small wind turbine blades.Processes,9(4)
Fabrication, characterization and optical properties of poly(p-phenylenediamine-co-o-aminophenol) nanostructure thin film	0.97	26	10	0.44	18.08	33	52	0	0	Al-Hossainy, A.F., Zoromba, M.S. (2021).Fabrication, characterization and optical properties of poly(p-phenylenediamine- co-o-aminophenol) nanostructure thin film. Applied Physics A: Materials Science and Processing,127(4)
Performance Enhancement of Solar Still Unit Using v-Corrugated Basin, Internal Reflecting Mirror, Flat-Plate Solar Collector and Nanofluids	1.57	29	10	2.14	4.67	8	13	0	0	Abu-Zeid, M.A.-R., Elhenawy, Y., Toderaş, M. and 4 more (...) (2024).Performance Enhancement of Solar Still Unit Using v-Corrugated Basin, Internal Reflecting Mirror, Flat-Plate Solar Collector and Nanofluids. Sustainability (Switzerland),16(2)
Surface modification of Co3O4 nanostructures using wide range of natural compounds from rotten apple juice for the efficient oxygen evolution reaction	0.81	18	10	0.89	11.17	18	32	0	0	Laghari, A.J., Aftab, U., Shah, A.A. and 10 more (...) (2023).Surface modification of Co3O4 nanostructures using wide range of natural compounds from rotten apple juice for the efficient oxygen evolution reaction. International Journal of Hydrogen Energy,48(41) 15447-15459
Experimental study on the motion response of an integrated floating desalination plant and offshore wind turbine on a non-ship platform	1.64	47	10	0.73	13.71	33	38	0	0	Amin, I., Dai, S., Day, S. and 5 more (...) (2021).Experimental study on the motion response of an integrated floating desalination plant and offshore wind turbine on a non-ship platform. Ocean Engineering,234
Wind–water experimental analysis of small sc-darrieus turbine: An approach for energy production in urban systems	0.9	29	10	0.56	14.28	33	45	0	0	Gharib-Yosry, A., Blanco-Marigorta, E., Fernández-Jiménez, A. and 2 more (...) (2021).Wind–water experimental analysis of small sc-darrieus turbine: An approach for energy production in urban systems. Sustainability (Switzerland),13(9)

From seashells to sustainable energy: Trailblazing the utilization of Anadara uropigimelana shells for sustainable biohydrogen production from leftover cooking oil	2.61	40	10	1.85	5.41	8	16	0	0	El-Qelish, M., El-Shafai, S.A., Azouz, R.A.M. and 2 more (...) (2024).From seashells to sustainable energy: Trailblazing the utilization of Anadara uropigimelana shells for sustainable biohydrogen production from leftover cooking oil. Journal of Environmental Chemical Engineering,12(2)
A demand side response scheme for enhancing power system security in the presence of wind power	1.63	39	10	0.94	10.63	18	31	0	0	El-Araby, E.E., Yorino, N. (2023).A demand side response scheme for enhancing power system security in the presence of wind power. International Journal of Electrical Power and Energy Systems,146
A study of 2H and 1T phases of Janus monolayers and their van der Waals heterostructure with black phosphorene for optoelectronic and thermoelectric applications	1.25	25	9	0.74	12.18	29	38	0	0	Abid, A., Haneef, M., Ali, S. and 1 more (...) (2022).A study of 2H and 1T phases of Janus monolayers and their van der Waals heterostructure with black phosphorene for optoelectronic and thermoelectric applications. Journal of Solid State Chemistry,311
Fabrication and characterization of polypyrrole/multi-walled carbon nanotubes thin films using thermal evaporation	1.29	36	9	0.26	15.57	36	63	0	0	Attar, A., Alharthy, R.D., Zwawi, M. and 6 more (...) (2021).Fabrication and characterization of polypyrrole/multi-walled carbon nanotubes thin films using thermal evaporation. Polymers,13(22)
Optoelectronic and photo response performance of n-tris phenylpyridinato iridium/p-Si heterojunction device for photovoltaic applications	1.46	22	9	0.95	9.51	20	31	0	0	El-Damhogi, D.G., El-Shabaan, M.M., Abul-Nasr, K.T. and 2 more (...) (2023).Optoelectronic and photo response performance of n-tris phenylpyridinato iridium/p-Si heterojunction device for photovoltaic applications. Chinese Journal of Physics,85660-673
Study the Effect of Winglet Height Length on the Aerodynamic Performance of Horizontal Axis Wind Turbines Using Computational Investigation	0.99	20	9	0.91	9.94	20	32	0	0	Abdelghany, E.S., Sarhan, H.H., Alahmadi, R. and 1 more (...) (2023).Study the Effect of Winglet Height Length on the Aerodynamic Performance of Horizontal Axis Wind Turbines Using Computational Investigation. Energies,16(13)
Maximum Power Extraction from Polymer Electrolyte Membrane (PEM) Fuel Cell Based on Deterministic Particle Swarm Optimization Algorithm	3.73	33	9	2.92	3.08	29	7	0	0	Elbaz, A., Elfir, M.H., Kalas, A. and 1 more (...) (2022).Maximum Power Extraction from Polymer Electrolyte Membrane (PEM) Fuel Cell Based on Deterministic Particle Swarm Optimization Algorithm. Proceedings of the 2022 Conference of Russian Young Researchers in Electrical and Electronic Engineering, ElConRus 2022,613-619

Design and synthesis of high-performance polymer blend solar cell	0.59	8	9	1.55	5.81	9	19	0	0	Hosny, M.M., Abdel-Aziz, M.H., Zoromba, M.S. and 1 more (...) (2024).Design and synthesis of high-performance polymer blend solar cell. Journal of Materials Research and Technology,284199-4211
A simulation study of the effect of post-combustion amine-based carbon-capturing integrated with solar thermal collectors for combined cycle gas power plant	0.29	18	8	0.45	13.35	38	51	0	0	Ayyad, A., Abbas, A., Elminshawy, N. (2021).A simulation study of the effect of post-combustion amine-based carbon-capturing integrated with solar thermal collectors for combined cycle gas power plant. Discover Sustainability,2(1)
Synthesis, structural and optical characterizations of ZrO2-bromothymol blue nanocomposite thin-film [ZrO2+BTB]C and its application: experimental and TDD-DFT computations	1.7	31	8	1.32	6.08	32	22	0	0	Mogharbel, R.T., Al-Hossainy, A.F., Ibrahim, A. and 5 more (...) (2022).Synthesis, structural and optical characterizations of ZrO2-bromothymol blue nanocomposite thin-film [ZrO2+BTB]C and its application: experimental and TDD-DFT computations. Journal of Materials Science: Materials in Electronics,33(26) 20556-20576
Two Bio-inspired MPPT Algorithms to Harvest the Maximum Power from Partially Shaded PV Arrays	1.69	15	8	2.6	3.08	32	9	0	0	Khalifa, A.-E., Refaat, A., Kalas, A. and 1 more (...) (2022).Two Bio-inspired MPPT Algorithms to Harvest the Maximum Power from Partially Shaded PV Arrays. Proceedings of the 2022 Conference of Russian Young Researchers in Electrical and Electronic Engineering, ElConRus 2022,670-674
Forecasting wind power based on an improved al-Biruni Earth radius metaheuristic optimization algorithm	1.03	27	8	0.71	11.26	22	39	0	0	Saeed, M.A., Ibrahim, A., El-Kenawy, E.-S.M. and 6 more (...) (2023).Forecasting wind power based on an improved al-Biruni Earth radius metaheuristic optimization algorithm. Frontiers in Energy Research,11
Forecasting Methods in Various Applications Using Algorithm of Estimation Regression Models and Converting Data Sets into Markov Model	0.58	14	8	0.56	14.18	32	46	0	0	El Genidy, M.M., Beheary, M.S. (2022).Forecasting Methods in Various Applications Using Algorithm of Estimation Regression Models and Converting Data Sets into Markov Model. Complexity,2022
Waste Cooking Oil Management in Egypt: Production of Biodiesel-Development of Rapid Test Method	1.83	26	8	4.98	1.61	32	3	0	0	Mohamed, M., Sherif, N., Aboelazayem, O. and 3 more (...) (2022).Waste Cooking Oil Management in Egypt: Production of Biodiesel-Development of Rapid Test Method. Journal of Physics: Conference Series,2305(1)
Experimental investigation of a nano coating efficiency for dust mitigation on photovoltaic	3.27	51	8	1.58	5.06	11	19	0	0	Ahmed, A., Elsakka, M., Elhenawy, Y. and 5 more (...) (2024).Experimental investigation of a nano coating efficiency for dust mitigation on

panels in harsh climatic conditions										photovoltaic panels in harsh climatic conditions. Scientific Reports,14(1)
Enhanced biohydrogen production from thermally hydrolysed pulp and paper sludge via Al <sub>2</sub> O <sub>3</sub> and Fe <sub>3</sub> O <sub>4</sub> nanoparticles	3.74	49	8	1.27	6.28	11	23	0	0	Galal, A., Elgarahy, A.M., Haroun, B. and 3 more (...) (2024).Enhanced biohydrogen production from thermally hydrolysed pulp and paper sludge via Al <sub>2</sub> O <sub>3</sub> and Fe <sub>3</sub> O <sub>4</sub> nanoparticles. Chemical Engineering Research and Design,21082-96
Probabilistic Assessment of Available Transfer Capability Incorporating Load and Wind Power Uncertainties	0.8	18	8	0.84	9.48	22	34	0	0	Reyad, H.W., Elfarg, M., El-Araby, E.E. (2023).Probabilistic Assessment of Available Transfer Capability Incorporating Load and Wind Power Uncertainties. IEEE Access,1139048-39065
Elastic moduli and theoretical estimations of physical properties of Ge <sub>3</sub> Se <sub>7</sub> -As <sub>2</sub> Te <sub>3</sub>	0.6	15	8	0.19	16.1	38	68	0	0	El-Denglawey, A., Dahshan, A., Aly, K.A. and 1 more (...) (2021).Elastic moduli and theoretical estimations of physical properties of Ge <sub>3</sub> Se <sub>7</sub> -As <sub>2</sub> Te <sub>3</sub> . Current Applied Physics,31214-220
Furosemide drug as a corrosion inhibitor for carbon steel in 1.0 M hydrochloric acid	2.12	33	8	1.58	5.06	11	19	0	0	Abd El Maksoud, S., Fouda, A.E.A., Badawy, H. (2024).Furosemide drug as a corrosion inhibitor for carbon steel in 1.0 M hydrochloric acid. Scientific Reports,14(1)
Combined experimental and TDDFT computational studies of the optical and electrical characteristic of luminol films-doped TiO <sub>2</sub> with 9.027% power conversion efficiency	1.32	24	8	1.32	6.08	32	22	0	0	Mansour, H., Abd EL Halium, E.M.F., Alrasheedi, N.F.H. and 2 more (...) (2022).Combined experimental and TDDFT computational studies of the optical and electrical characteristic of luminol films-doped TiO <sub>2</sub> with 9.027% power conversion efficiency. Journal of Materials Science: Materials in Electronics,33(8) 5244-5264
Improving Power Quality Problems of Isolated MG Based on ANN Under Different Operating Conditions Through PMS and ASSC Integration	0.89	20	8	0.84	9.48	22	34	0	0	Elmetwaly, A.H., Eldesouky, A.A., Fekry, H.M. and 4 more (...) (2023).Improving Power Quality Problems of Isolated MG Based on ANN Under Different Operating Conditions Through PMS and ASSC Integration. IEEE Access,1199822-99835
Enhancing Misalignment Tolerance Using Naturally Decoupled Identical Dual-Transmitter-Dual-Receiver Coils for Wireless EV Charging System	0.72	9	7	1.21	5.78	13	25	0	0	Imtiaz, T., Elsanabary, A., Mubin, M. and 2 more (...) (2024).Enhancing Misalignment Tolerance Using Naturally Decoupled Identical Dual-Transmitter-Dual-Receiver Coils for Wireless EV Charging System. IEEE Journal of Emerging and Selected Topics in Power Electronics,12(5) 5337-5351
Effect of the decrease of Pb concentration on the properties of pentarnary	0.59	20	7	0.41	14.62	35	54	0	0	Ahmed, H., Jalil, A., Ilyas, S.Z. and 4 more (...) (2022).Effect of the decrease of Pb concentration

mixed-halide perovskites CsPb8-xSnxI2Br2 and CsPb8-xSnxI2Br (1≤x≤7) for solar-cell applications: A DFT study										on the properties of pentamary mixed-halide perovskites CsPb8-xSnxI2Br2 and CsPb8-xSnxI2Br (1≤x≤7) for solar-cell applications: A DFT study. Journal of Physics and Chemistry of Solids,161
Reliability and temperature limits of the focal spot of a primary optical component for an ultra-high concentrated photovoltaic system	2.33	33	7	4.36	1.61	35	4	0	0	Ahmed, A., Alzahrani, M., Shanks, K. and 2 more (...) (2022). Reliability and temperature limits of the focal spot of a primary optical component for an ultra-high concentrated photovoltaic system. AIP Conference Proceedings,2550
Exploring critical barriers towards the uptake of renewable energy usage in Egypt	1.88	30	7	1.41	4.97	13	21	0	0	Elba, H., Hegazy, H., Zhang, J. and 3 more (...) (2024). Exploring critical barriers towards the uptake of renewable energy usage in Egypt. Innovative Infrastructure Solutions,9(7)
Experimental and Numerical Performance Assessment of East-West Bifacial Photovoltaic Floating System in Freshwater Basins	1.54	24	7	1.4	5.01	13	21	0	0	Osama, A., Tina, G.M., Mannino, G. and 2 more (...) (2024). Experimental and Numerical Performance Assessment of East-West Bifacial Photovoltaic Floating System in Freshwater Basins. IEEE Access,12141425-141447
Coupling DFIG-Based Wind Turbines with the Grid under Voltage Imbalance Conditions	0.68	20	7	0.53	13.09	35	47	0	0	Sobhy, A., Abo-Khalil, A.G., Lei, D. and 3 more (...) (2022). Coupling DFIG-Based Wind Turbines with the Grid under Voltage Imbalance Conditions. Sustainability (Switzerland),14(9)
Simulating mitigation scenarios for natural and artificial inlets closure through validated morphodynamic models	1.09	20	7	0.59	8.51	41	43	0	0	Masria, A., El-Adawy, A., Eltarabily, M.G. (2021). Simulating mitigation scenarios for natural and artificial inlets closure through validated morphodynamic models. Regional Studies in Marine Science,47
A novel renewable energy powered zero liquid discharge scheme for RO desalination applications	3.36	76	7	0.72	9.76	25	38	0	0	Gadalla, M.A., Abdel Fatah, A., Elazab, H.A. (2023). A novel renewable energy powered zero liquid discharge scheme for RO desalination applications. Case Studies in Chemical and Environmental Engineering,8
Graphical analysis and revamping of crude distillation units under variable operational scenarios	1.33	30	6	0.61	9.76	28	43	0	0	Abo-mousa, A.G., Kamel, D.A., Elazab, H.A. and 2 more (...) (2023). Graphical analysis and revamping of crude distillation units under variable operational scenarios. Case Studies in Chemical and Environmental Engineering,8
Technical and economic feasibility of the first wind farm on the coast of Mediterranean Sea	1.01	26	6	0.55	10.85	45	45	0	0	Ahmed, A.S. (2021). Technical and economic feasibility of the first wind farm on the coast of Mediterranean Sea. Ain Shams

										Engineering Journal,12(2) 2145-2151
Comprehensive Optimisation of Biodiesel Production Conditions via Supercritical Methanolysis of Waste Cooking Oil	1.51	36	6	0.43	13.9	38	53	0	0	Aboelazayem, O., Gadalla, M., Saha, B. (2022).Comprehensive Optimisation of Biodiesel Production Conditions via Supercritical Methanolysis of Waste Cooking Oil. Energies,15(10)
Impact of indium content on the thermoelectric power, dark conductivity, and photoconductivity of Ge-As-Te thin films	0.64	21	6	0.27	18.42	49	60	0	0	Znaidia, S., Kebaili, I., Boukhris, I. and 6 more (...) (2020).Impact of indium content on the thermoelectric power, dark conductivity, and photoconductivity of Ge-As-Te thin films. Applied Physics A: Materials Science and Processing,126(3)
A fuzzy-predictive current control with real-time hardware for PEM fuel cell systems	1.03	16	6	1.19	5.06	15	25	0	0	Kanouni, B., Badoud, A.E., Mekhilef, S. and 3 more (...) (2024).A fuzzy-predictive current control with real-time hardware for PEM fuel cell systems. Scientific Reports,14(1)
Hybrid compressed air energy storage system and control strategy for a partially floating photovoltaic plant	2.06	35	6	1.04	5.75	15	28	0	0	Bassam, A.M., Elminshawy, N.A.S., Oterkus, E. and 1 more (...) (2024).Hybrid compressed air energy storage system and control strategy for a partially floating photovoltaic plant. Energy,313
Real-time V2G simulator for grid system frequency and voltage regulation with fault ride-through capabilities	2.47	31	6	1.04	5.78	15	28	0	0	Anany, M.G., ElDesouky, A.A., Salem, A.A. (2024).Real-time V2G simulator for grid system frequency and voltage regulation with fault ride-through capabilities. Electric Power Systems Research,234
Environmentally-driven design of a floating desalination platform (Case study: Reverse osmosis floating desalination platform of ras gharib, Egypt)	0.82	26	6	0.33	18.13	45	58	0	0	Bayoumi, S., Ali, M.E.A., Amin, I. and 4 more (...) (2021).Environmentally-driven design of a floating desalination platform (Case study: Reverse osmosis floating desalination platform of ras gharib, Egypt). AIMS Energy,9(3) 623-650
Advanced Maximum Adhesion Tracking Strategies in Railway Traction Drives	1.04	21	5	0.88	5.68	18	32	0	0	Abouzeid, A.F., Guerrero, J.M., Lejarza-Lasuen, L. and 3 more (...) (2024).Advanced Maximum Adhesion Tracking Strategies in Railway Traction Drives. IEEE Transactions on Transportation Electrification,10(2) 3645-3660
Offshore wind power integration to support weak grid voltage for industrial loads using VSC-HVDC transmission system	0.7	15	5	0.3	13.53	48	60	0	0	Daoud, A.A., Abouzeid, A.F., Dessouky, S.S. (2021).Offshore wind power integration to support weak grid voltage for industrial loads using VSC-HVDC transmission system. International Journal of Electrical and Computer Engineering,11(3) 1876-1885

Power performance assessment of vertical-axis tidal turbines using an experimental test rig	1.48	40	5	0.36	13.77	48	56	0	0	Fernández-Jiménez, A., Álvarez-álvarez, E., López, M. and 5 more (...) (2021).Power performance assessment of vertical-axis tidal turbines using an experimental test rig. Energies,14(20)
A Modified Phase Shift Control of the Dual Active Bridge-Based Modular Power Electronic Transformer to Minimize the LVdc Side Voltage Ripples under Unbalanced Load Conditions	0.67	15	5	0.38	13.21	42	56	0	0	Fawzi, M., Abdelsalam, I., Aboushady, A.A. and 1 more (...) (2022).A Modified Phase Shift Control of the Dual Active Bridge-Based Modular Power Electronic Transformer to Minimize the LVdc Side Voltage Ripples under Unbalanced Load Conditions. IEEE Access,1081309-81322
Gamma radiation induced variation in structure formation and optical characteristics of evaporated tris [2-phenylpyridinato-C2,N]iridium(III) films prepared by electron beam evaporator in photovoltaic applications	1.62	20	5	0.76	6.56	32	37	0	0	Elesh, E., El Damhogi, D.G., Mohamed, Z. (2023).Gamma radiation induced variation in structure formation and optical characteristics of evaporated tris [2-phenylpyridinato-C2,N]iridium(III) films prepared by electron beam evaporator in photovoltaic applications. Physica Scripta,98(3)
The Validation and Implementation of the Second-Order Adaptive Fuzzy Logic Controller of a Double-Fed Induction Generator in an Oscillating Water Column	0.97	13	5	0.93	5.36	18	31	0	0	Elnaghi, B.E., Abdelwhab, M.N., Mohammed, R.H. and 3 more (...) (2024).The Validation and Implementation of the Second-Order Adaptive Fuzzy Logic Controller of a Double-Fed Induction Generator in an Oscillating Water Column. Electronics (Switzerland),13(2)
Life cycle assessments of biofuel production from beach-cast seaweed by pyrolysis and hydrothermal liquefaction	3.81	58	5	0.83	6.02	18	33	0	0	Kulikova, Y., Ilinykh, G., Sliusar, N. and 2 more (...) (2024).Life cycle assessments of biofuel production from beach-cast seaweed by pyrolysis and hydrothermal liquefaction. Energy Conversion and Management: X,23
Tunable electronic and magnetic properties of single layer CdS via Li substitutional doping: A first-principle study	0.63	15	5	0.21	14.62	42	67	0	0	Ur Rahman, A., Sadiq, T., Khan, R. and 3 more (...) (2022).Tunable electronic and magnetic properties of single layer CdS via Li substitutional doping: A first-principle study. Journal of Physics and Chemistry of Solids,161
Efficiency of utilizing building information modeling tools for examining smart materials behavior in a hot climate	10.12	185	5	1.04	4.82	18	28	0	0	Mohamed, M.-A.T., Megahed, N.A., Shahda, M.M. and 1 more (...) (2024).Efficiency of utilizing building information modeling tools for examining smart materials behavior in a hot climate. Journal of Building Engineering,87
Electronic, optical and magnetic characteristics of v doped BeS	0.84	12	5	0.55	9.16	42	46	0	0	Ambreen, H., Aldaghfag, S.A., Yaseen, M. and 4 more (...) (2022).Electronic, optical and magnetic characteristics of v doped BeS. Physica Scripta,97(6)

Numerical Investigations on Latent Heat Storage Unit using Phase Change Material	1.05	24	5	3.05	1.64	52	7	0	0	Amer, A.E., Lebedev, V.A. (2020). Numerical Investigations on Latent Heat Storage Unit using Phase Change Material. Journal of Physics: Conference Series, 1565(1)
Distortion management of the pulse without and in the presence of Compton scattering in a three level atomic configuration	0.3	7	5	0.22	13.35	48	66	0	0	Ali, W., Ahmad, J., Haneef, M. and 5 more (...) (2021). Distortion management of the pulse without and in the presence of Compton scattering in a three level atomic configuration. European Physical Journal Plus, 136(7)
High-Performance Glazing for Enhancing Sustainable Environment in Arid Region's Healthcare Projects	1.31	38	5	0.59	8.41	32	44	0	0	Ismaeil, E.M.H., Sobaih, A.E.E. (2023). High-Performance Glazing for Enhancing Sustainable Environment in Arid Region's Healthcare Projects. Buildings, 13(5)
Proposed hybrid power system for short route ferries	0.36	13	5	0.15	13.12	52	69	0	0	Yehia, W., Kamar, L., Hassan, M.A. and 1 more (...) (2020). Proposed hybrid power system for short route ferries. Nase More, 67(3) 226-231
Maximum Power Point Tracking for Grid-tied PV System Using Adaptive Neuro-Fuzzy Inference System	1.07	11	5	1.23	2.44	48	23	0	0	Osman, M.H., Elseify, M.A., Ahmed, M.K. and 2 more (...) (2021). Maximum Power Point Tracking for Grid-tied PV System Using Adaptive Neuro-Fuzzy Inference System. Proceedings - ICOECS 2021: 2021 International Conference on Electrotechnical Complexes and Systems, 534-540
Peridynamic Modelling of Propagation of Cracks in Photovoltaic Panels	0.87	11	4	3.24	1.24	47	6	0	0	Premchander, A., Amin, I., Oterkus, S. and 2 more (...) (2022). Peridynamic Modelling of Propagation of Cracks in Photovoltaic Panels. Procedia Structural Integrity, 41(C) 305-316
A novel EPSO algorithm based on shifted sigmoid function parameters for maximizing the energy yield from photovoltaic arrays: An experimental investigation	1.39	23	4	0.84	4.79	22	33	0	0	Ali, Q.A., Elsakka, M.M., Korovkin, N.V. and 1 more (...) (2024). A novel EPSO algorithm based on shifted sigmoid function parameters for maximizing the energy yield from photovoltaic arrays: An experimental investigation. Results in Engineering, 24
Enhancement of the performance of wireless sensor networks using the multihop multiantenna power beacon path selection method in intelligent structures	0.63	14	4	0.25	16.26	47	65	0	0	Hammad, A., Mohamed, M.A., Abdel-Atty, H.M. (2022). Enhancement of the performance of wireless sensor networks using the multihop multiantenna power beacon path selection method in intelligent structures. PLoS ONE, 17(11)
Switching schemes of the bidirectional buck-boost converter for energy storage system	0.33	5	4	0.67	2.98	56	38	0	0	Georgious, R., Saeed, S., Garcia, J. and 1 more (...) (2020). Switching schemes of the bidirectional buck-boost converter for energy storage



										system. 2020 IEEE Vehicle Power and Propulsion Conference, VPPC 2020 - Proceedings,
Optimal performance of actuator disc models for horizontal-axis turbines	0.7	21	4	0.25	16.13	47	65	0	0	Wood, D.H., Hammam, M.M. (2022).Optimal performance of actuator disc models for horizontal-axis turbines. Frontiers in Energy Research,10
Techno-economic assessment of vertical axis wind turbine driven RO desalination with compressed air energy storage for remote communities	4.62	60	4	0.73	5.45	22	36	0	0	Alzahrani, K.M., Hee, J.L., Elsakka, M. and 3 more (...) (2024).Techno-economic assessment of vertical axis wind turbine driven RO desalination with compressed air energy storage for remote communities. Desalination,592
Highly flexible wind turbine blades utilizing corrugated surface hinges	0.57	15	4	0.14	14.26	53	72	0	0	Elsheikh, M.E. (2021).Highly flexible wind turbine blades utilizing corrugated surface hinges. Coatings,11(6)
Electrical properties of ternary Cux(Ge3Se7)100-x thin films	0.73	15	4	0.16	12.81	53	70	0	0	El-Denglawey, A., Aly, K.A., Saddeek, Y.B. and 1 more (...) (2021).Electrical properties of ternary Cux(Ge3Se7)100-x thin films. Optik,226
Enhanced biodiesel production with improved oxidation stability by water addition to supercritical methanolysis	1.78	43	4	0.28	14.34	47	62	0	0	Umar, Y., Aboelazayem, O., Gadalla, M.A. and 1 more (...) (2022).Enhanced biodiesel production with improved oxidation stability by water addition to supercritical methanolysis. Canadian Journal of Chemical Engineering,100(9) 2587-2607
Mechanical properties and band gap estimations of stoichiometric GeSe2-As2Se3 glasses	0.89	16	4	0.23	12.81	53	65	0	0	El-Denglawey, A., Dahshan, A., Aly, K.A. and 1 more (...) (2021).Mechanical properties and band gap estimations of stoichiometric GeSe2-As2Se3 glasses. Optik,245
Forecasting of Short-Term and Long-Term Wind Speed of Ras-Gharib Using Time Series Analysis	0.68	18	4	0.31	13.08	37	58	0	0	El-Kashty, O.A., Daoud, A.A., El-Araby, E.E. (2023).Forecasting of Short-Term and Long-Term Wind Speed of Ras-Gharib Using Time Series Analysis. International Journal of Renewable Energy Research,13(1) 258-272
Synthesis and evaluation of core-shell nanocomposites for the photodegradation of liner alkyl-benzene sulfonate water contaminations	1.9	41	4	0.89	4.52	22	32	0	0	Hassan, M.E.-D.R., Barakat, M.E.S., Yosef, E.H.E. (2024).Synthesis and evaluation of core-shell nanocomposites for the photodegradation of liner alkyl-benzene sulfonate water contaminations. International Journal of Environmental Science and Technology,21(3) 3185-3200
Techno-economic assessment of a novel wind-powered RO system with a compressed air energy storage for water desalination	3.42	58	4	0.7	5.75	22	37	0	0	Elsakka, M.M., Refaat, A., Alzahrani, K.M. and 8 more (...) (2024).Techno-economic assessment of a novel wind-powered RO system with a compressed air energy storage

										for water desalination. Energy,311
Experimental Validation of Second-Order Adaptive Fuzzy Logic Controller for Grid-Connected DFIG Wind Power Plant	0.58	13	4	0.42	9.48	37	52	0	0	Elnaghi, B.E., Abdelwhab, M.N., Abdel-Kader, F.E.S.A. and 3 more (...) (2023).Experimental Validation of Second-Order Adaptive Fuzzy Logic Controller for Grid-Connected DFIG Wind Power Plant. IEEE Access,11135255-135271
Polymeric solar cell with 18.06% efficiency based on poly(para-nitroaniline)/TiO2 composites	1.33	20	4	0.49	8.22	37	48	0	0	Alturki, A.A., Alharbi, A.F., Zoromba, M.S. and 2 more (...) (2023).Polymeric solar cell with 18.06% efficiency based on poly(para-nitroaniline)/TiO2 composites. Optical Materials,136
Assessment of Onshore Renewable Energy Power Supply for Ship's Emissions Reduction in Port Said West Port	1.27	17	4	0.84	4.79	22	33	0	0	Makram, M., Bassam, A.M., Tawfik, A.A. and 1 more (...) (2024).Assessment of Onshore Renewable Energy Power Supply for Ship's Emissions Reduction in Port Said West Port. Journal of Marine Science and Application,23(2) 506-524
A novel hybrid compact system of photovoltaic solar still air gap membrane distillation for the simultaneous production of water and energy	1.53	31	4	0.46	8.76	37	50	0	0	Alanezi, A.A., Hakobyan, A., Hakobyan, A. and 1 more (...) (2023).A novel hybrid compact system of photovoltaic solar still air gap membrane distillation for the simultaneous production of water and energy. Desalination and Water Treatment,2921-9
Evaluating BIPV Façades in a Building Envelope in Hot Districts for Enhancing Sustainable Ranking: A Saudi Arabian Perspective	1.89	55	4	0.48	8.41	37	49	0	0	Ismaeil, E.M.H., Sobaih, A.E.E. (2023).Evaluating BIPV Façades in a Building Envelope in Hot Districts for Enhancing Sustainable Ranking: A Saudi Arabian Perspective. Buildings,13(5)
AN APPROXIMATION OF USING VERTICAL-AXIS TIDAL TURBINE FOR WATER DESALINATION IN THE SUEZ CANAL WATERWAY	0.67	6	3	1.32	2.27	53	22	0	0	Gharib-Yosry, A., Valdes, R.E., Blanco-Marigorta, E. and 1 more (...) (2022).AN APPROXIMATION OF USING VERTICAL-AXIS TIDAL TURBINE FOR WATER DESALINATION IN THE SUEZ CANAL WATERWAY. Proceedings of ASME 2022 16th International Conference on Energy Sustainability, ES 2022,
The Effect of Novel Longitudinal Branched Fins on the Performance of the Latent Heat Accumulator based on Shell-and-Tube Configuration	1.67	44	3	0.23	13.08	43	63	0	0	Amer, A.E., Lebedev, V.A., Elsakka, M.M. (2023).The Effect of Novel Longitudinal Branched Fins on the Performance of the Latent Heat Accumulator based on Shell-and-Tube Configuration. International Journal of Renewable Energy Research,13(2) 768-777
Design and implementation of voltage source converters in HVDC systems	0.46	12	3	1.54	1.95	58	18	0	0	Ibrahim, N.F., Dessouky, S.S. (2021).Design and implementation of voltage source

										converters in HVDC systems. Power Systems,1-98
Enhancing the Performance of the Output Active Power of DFIG-Based Wind Turbines Using Auto Disturbance Rejection Control	0.68	6	3	0.97	3.08	53	30	0	0	Sobhy, A., Lei, D., Abo-Khalil, A.G. (2022). Enhancing the Performance of the Output Active Power of DFIG-Based Wind Turbines Using Auto Disturbance Rejection Control. Proceedings of the 2022 Conference of Russian Young Researchers in Electrical and Electronic Engineering, ElConRus 2022,876-881
Increased efficiency of hydrokinetic turbines through the use of an obstacle on the channel bottom	1.53	40	3	0.22	13.9	53	67	0	0	Espina-Valdés, R., Fernández-Álvarez, V.M., Gharib-Yosry, A. and 2 more (...) (2022). Increased efficiency of hydrokinetic turbines through the use of an obstacle on the channel bottom. Ocean Engineering,266
Neural Fuzzy Control of the Indoor Air Quality Onboard a RO-RO Ship Garage	1.7	41	3	0.22	13.78	61	64	0	0	Agamy, H., Abdelgelil, M., Mosleh, M. and 2 more (...) (2020). Neural Fuzzy Control of the Indoor Air Quality Onboard a RO-RO Ship Garage. International Journal of Fuzzy Systems,22(3) 1020-1035
Investigating the Kinetic Parameters in the Thermal Analysis of Jojoba Cake	1.1	22	3	0.28	10.58	43	60	0	0	Madany, N.M., Gadalla, M.A., Ashour, F.H. and 1 more (...) (2023). Investigating the Kinetic Parameters in the Thermal Analysis of Jojoba Cake. Egyptian Journal of Chemistry,66(7) 245-256
Synthesis, Structural, Time-Dependent Density-Functional Theory, Thermal Annealing and Optical Properties for Doped Polymer Nanostructured Thin Films as Optoelectronic Devices	0.19	5	3	0.22	13.61	58	66	0	0	Al-Hossainy, A.F., Zoromba, M.Sh. (2021). Synthesis, Structural, Time-Dependent Density-Functional Theory, Thermal Annealing and Optical Properties for Doped Polymer Nanostructured Thin Films as Optoelectronic Devices. Polymer (Korea),45(4) 541-551
Design and Three-Dimensional Simulation of a Solar Dish-Stirling Engine	0.85	24	3	0.25	12.15	58	64	0	0	El-Ghafour, S.A., Mikhael, N., El-Ghandour, M. (2021). Design and Three-Dimensional Simulation of a Solar Dish-Stirling Engine. Journal of Advanced Research in Fluid Mechanics and Thermal Sciences,82(1) 51-76
Experimental and numerical investigation of a three-blade horizontal axis hydrokinetic water turbine (HAHWT) in high blockage conditions	0.97	21	3	0.35	8.53	27	51	0	0	Ferraiuolo, R., Pugliese, F., Álvarez Álvarez, E. and 3 more (...) (2024). Experimental and numerical investigation of a three-blade horizontal axis hydrokinetic water turbine (HAHWT) in high blockage conditions. Renewable Energy,237
PVSails: Harnessing Innovation With Vertical Bifacial PV Modules in Floating Photovoltaic Systems	2.57	32	3	0.53	5.65	27	43	0	0	Tina, G., Osama, A., Cazzaniga, R. and 5 more (...) (2024). PVSails: Harnessing Innovation With Vertical Bifacial PV Modules in Floating

										Photovoltaic Systems. Progress in Photovoltaics: Research and Applications,32(12) 872-888
Experimental and Simulation Study of Solar-Powered Air-Gap Membrane Distillation Technology for Water Desalination	1.89	39	3	0.3	10.01	43	59	0	0	Abu-Zeid, M.A.-R., Bassiouni, M., Fouad, Y. and 3 more (...) (2023).Experimental and Simulation Study of Solar-Powered Air-Gap Membrane Distillation Technology for Water Desalination. Membranes,13(10)
A Centralized Protection Scheme for Microgrids with Artificial Neural Network-Based on Fault Detection and Location	1.61	13	3	1.37	2.19	53	21	0	0	Kabeel, M.A., Eladany, M.M., Eldesouky, A.A. (2022).A Centralized Protection Scheme for Microgrids with Artificial Neural Network-Based on Fault Detection and Location. 2022 23rd International Middle East Power Systems Conference, MEPCON 2022,
Critical Assessment of Current State of the Art in Wearable Sensor Nodes with Energy Harvesting Systems for Healthcare Applications	1.58	24	3	1.08	2.78	43	27	0	0	Alattar, A.E., Elkaseer, A., Scholz, S. and 1 more (...) (2023).Critical Assessment of Current State of the Art in Wearable Sensor Nodes with Energy Harvesting Systems for Healthcare Applications. Lecture Notes in Networks and Systems,561398-412
A Comparative Study of Two Metaheuristic MPPT Techniques to Extract Maximum Power from PV Array under Different Partial Shading Patterns	2.29	17	3	1.85	1.62	43	15	0	0	Refaat, A., Kalas, A., Khalifa, A.-E. and 1 more (...) (2023).A Comparative Study of Two Metaheuristic MPPT Techniques to Extract Maximum Power from PV Array under Different Partial Shading Patterns. IEEE Conference on Power Electronics and Renewable Energy, CPERE 2023,
Vsc-hvdc control system	0.46	10	2	1.03	1.95	64	28	0	0	Ibrahim, N.F., Dessouky, S.S. (2021).Vsc-hvdc control system. Power Systems,15-30
Fuzzy Logic-Pitch Angle Controller for SCIG based Wind Turbine	1.36	13	2	0.88	2.28	64	32	0	0	Salem, A.A., Eldesouky, A.A. (2021).Fuzzy Logic-Pitch Angle Controller for SCIG based Wind Turbine. Proceedings of 2021 31st Australasian Universities Power Engineering Conference, AUPEC 2021,
An Integrated Approach for Demand Response and Wind Curtailment Management in Distribution Systems	0.68	18	2	0.15	13.08	50	68	0	0	El-Kashty, O.A., Daoud, A.A., El-Araby, E.E. (2023).An Integrated Approach for Demand Response and Wind Curtailment Management in Distribution Systems. International Journal of Renewable Energy Research,13(2) 636-652
Aeroelastic modelling of tail fins for small wind turbines	0.56	8	2	1.25	1.61	60	23	0	0	Hammam, M.M., Wood, D.H. (2022).Aeroelastic modelling of tail fins for small wind turbines. Journal of Physics: Conference Series,2265(4)
DFT Study of Lead-Free Mixed-Halide Materials Cs2X2Y2 (X, Y = F, Cl, Br, I)	0.52	11	2	0.08	13.03	64	76	0	0	Ahmed, H., Ilyas, S.Z., Jalil, A. and 2 more (...) (2021).DFT Study of Lead-Free Mixed-Halide

for Optoelectronic Applications										Materials Cs2X2Y2 (X, Y = F, Cl, Br, I) for Optoelectronic Applications. Journal of Electronic Materials,50(10) 5647-5655
Hybrid MPPT-based predictive speed control model for variable speed PMSG wind energy conversion systems	0.63	14	2	0.12	16.26	60	74	0	0	Hashish, M.N.A., Daoud, A.A., Elfir, M.H. (2022).Hybrid MPPT-based predictive speed control model for variable speed PMSG wind energy conversion systems. International Journal of Applied Power Engineering,11(3) 218-228
Production and characterization of bio-oil from camelthorn plant using slow pyrolysis	3.01	35	2	0.5	4.01	34	44	0	0	Aboelela, D., Saleh, H., Attia, A.M. and 3 more (...) (2024).Production and characterization of bio-oil from camelthorn plant using slow pyrolysis. Journal of Thermal Analysis and Calorimetry,149(19) 10633-10645
Performance Assessment of Artificial Neural Networks-Based MPPT Technique for Photovoltaic Systems	2.07	8	2	2.76	0.73	34	9	0	0	Eleraky, H.G., Refaat, A., Kalas, A. and 1 more (...) (2024).Performance Assessment of Artificial Neural Networks-Based MPPT Technique for Photovoltaic Systems. ICEENG 2024 - 14th IEEE International Conference on Electrical Engineering,48-53
Optimal Energy Management of VPP-Based Energy Storage Considering Renewable Energy Integration and EV Charging	1	4	2	2.92	0.68	34	8	0	0	Abdelwahab, M.A., Eladany, M.M., Elfir, M.H. and 1 more (...) (2024).Optimal Energy Management of VPP-Based Energy Storage Considering Renewable Energy Integration and EV Charging. Proceedings of the International Middle East Power System Conference, MEPCON,(2024)
Surface plasmon polariton at the interface of dielectric and graphene medium using the Doppler broadening effect	0.45	9	2	0.16	12.13	60	71	0	0	Ahmad, F., Bakhtawar, Haneef, M. and 3 more (...) (2022).Surface plasmon polariton at the interface of dielectric and graphene medium using the Doppler broadening effect. Laser Physics,32(6)
Geometrically nonlinear transient analysis of Timoshenko tapered beam-column element using a finite element formulation based on the exact shape functions	3.35	105	2	0.53	3.8	34	43	0	0	Sallam, E., El Gendy, O., Mohamedien, M.A. (2024).Geometrically nonlinear transient analysis of Timoshenko tapered beam-column element using a finite element formulation based on the exact shape functions. Mechanics Based Design of Structures and Machines,52(5) 2956-2983
Efficient offloading and task scheduling in internet of things-cloud-fog environment	1.95	26	2	0.42	4.72	34	47	0	0	Gamal, M., Awad, S., Abdel-Kader, R.F. and 1 more (...) (2024).Efficient offloading and task scheduling in internet of things-cloud-fog environment. International Journal of Electrical

										and Computer Engineering,14(4) 4445-4455
First principle study of er, co-doped fe and yb of nabif6; a promising materials for optoelectronic and transport properties; probed by dft	0.51	11	2	0.15	13.51	64	71	0	0	Ullah, S., Azam, S., Gul, B. and 7 more (...) (2021).First principle study of er, co-doped fe and yb of nabif6; a promising materials for optoelectronic and transport properties; probed by dft. Digest Journal of Nanomaterials and Biostructures,16(3) 823-830
Hybrid concentrator photovoltaic/membrane distillation system for potable water production using new fabricated PS/ZIF_L membrane	1.41	34	2	0.19	10.42	50	66	0	0	Rabie, M., Elrasheedy, A., Zkria, A. and 3 more (...) (2023).Hybrid concentrator photovoltaic/membrane distillation system for potable water production using new fabricated PS/ZIF_L membrane. Journal of Water Process Engineering,53
Oleaginous fungi as a sustainable source for biodiesel production: Current and future prospect	0.62	14	2	0.11	18.54	50	71	0	0	Moharam, A.I., Beheary, M.S., Salama, A.M. and 1 more (...) (2023).Oleaginous fungi as a sustainable source for biodiesel production: Current and future prospect. Microbial Biosystems,8(1) 18-25
Optimal planning for sustainable and cost-effective power generation on the Red Sea coast	0.51	22	2	0.11	18.91	66	72	0	0	Ahmed, A.S. (2020).Optimal planning for sustainable and cost-effective power generation on the Red Sea coast. Sustainable Energy Technologies and Assessments,42
Thin film synthesis and photovoltaic performance of polypyrrole@cobalt hydroxide composites for solar cells and optoelectronic devices	0.67	9	2	0.32	6.19	34	53	0	0	Hosny, M.M., Abdel-Aziz, M.H., Zoromba, M.S. and 2 more (...) (2024).Thin film synthesis and photovoltaic performance of polypyrrole@cobalt hydroxide composites for solar cells and optoelectronic devices. Solar Energy Materials and Solar Cells,278
The nonlinear behavior of generic tail fins for small wind turbines	0.51	11	1	0.12	8.53	45	61	0	0	Khedr, A.A., Hammam, M.M., Gupta, A. and 3 more (...) (2024).The nonlinear behavior of generic tail fins for small wind turbines. Journal of Renewable and Sustainable Energy,16(5)
Finite Element Analysis for Dynamic Simulation of Composite HAWT Blade	1.44	38	1	0.08	13.08	60	73	0	0	Shamso, E., El-Hadek, M., Elsanabary, S. and 2 more (...) (2023).Finite Element Analysis for Dynamic Simulation of Composite HAWT Blade. International Journal of Renewable Energy Research,13(2) 790-801
High-voltage direct current transmission	0.91	35	1	0.51	1.95	71	47	0	0	Ibrahim, N.F., Dessouky, S.S. (2021).High-voltage direct current transmission. Power Systems,5-14
A solar energy-based shore side power system for a ferry service across the Suez Canal	3.21	49	1	0.21	4.79	45	57	0	0	Bassam, A.M., Phillips, A.B., Turnock, S.R. and 1 more (...) (2024).A solar energy-based shore side power system for a

										ferry service across the Suez Canal. Ships and Offshore Structures,19(9) 1368-1379
African vulture optimizer algorithm for fuzzy logic speed controller of fuel cell electric vehicle	0.8	10	1	0.17	5.78	45	60	0	0	Elnaghi, B.E., Dessouki, M.E., Mohamed, S.W. and 2 more (...) (2024).African vulture optimizer algorithm for fuzzy logic speed controller of fuel cell electric vehicle. International Journal of Power Electronics and Drive Systems,15(3) 1348-1357
Vsc-hvdc under ac and dc fault conditions	0.51	14	1	0.51	1.95	71	47	0	0	Ibrahim, N.F., Dessouky, S.S. (2021).Vsc-hvdc under ac and dc fault conditions. Power Systems,31-51
Photovoltaic-Powered Smart Aquaponic System: Integrating IoT and AI for Sustainable Food Production and Fish Health Management	2.7	13	1	1.1	0.91	45	27	0	0	Abd El-Atty, H.M., Ellaban, M.I., Mostafa, H.T. and 4 more (...) (2024).Photovoltaic-Powered Smart Aquaponic System: Integrating IoT and AI for Sustainable Food Production and Fish Health Management. 2024 International Telecommunications Conference, ITC-Egypt 2024,799-805
Experimental Examination of Enhanced Nanoceramic-Based Self-Cleaning Sprays for High-Efficiency Hydrophobic Photovoltaic Panels	1.92	24	1	0.18	5.48	45	60	0	0	Abdrabo, M., Elkaseer, A., Elshazly, E. and 2 more (...) (2024).Experimental Examination of Enhanced Nanoceramic-Based Self-Cleaning Sprays for High-Efficiency Hydrophobic Photovoltaic Panels. Coatings,14(10)
Protection of Wind Turbine Generators Using Microcontroller-Based Applications	0.43	8	1	0.48	2.06	68	50	0	0	Ibrahim, N.F., Dessouky, S.S., Mostafa Attia, H.E. and 1 more (...) (2022).Protection of Wind Turbine Generators Using Microcontroller-Based Applications. Green Energy and Technology,1-117
INTERNET OF ENERGY APPLIED TO WATER HYDROKINETIC SMART-GRIDS: A TEST RIG EXAMPLE	1.8	16	1	0.44	2.27	68	52	0	0	Gharib-Yosry, A., Fernandez-Jimenez, A., Pacheco, V.M.F. and 1 more (...) (2022).INTERNET OF ENERGY APPLIED TO WATER HYDROKINETIC SMART-GRIDS: A TEST RIG EXAMPLE. Proceedings of ASME 2022 16th International Conference on Energy Sustainability, ES 2022,
SM-BIM: A NEW CONCEPTUAL FRAMEWORK FOR MULTI-CRITERIA DECISION-MAKING PROCESS BASED ON SMART MATERIALS AND BUILDING INFORMATION MODELING	2.59	48	1	0.25	4.01	45	55	0	0	Mohamed, M.-A.T., Megahed, N.A., Eltarabily, S. and 1 more (...) (2024).SM-BIM: A NEW CONCEPTUAL FRAMEWORK FOR MULTI-CRITERIA DECISION-MAKING PROCESS BASED ON SMART MATERIALS AND BUILDING INFORMATION MODELING. Journal of Green Building,19(2) 163-192
Estimating the energy consumption for residential buildings in	2.37	37	1	0.2	5.06	45	58	0	0	Wefki, H., Khallaf, R., Ebid, A.M. (2024).Estimating the energy consumption for residential

semiarid and arid desert climate using artificial intelligence										buildings in semiarid and arid desert climate using artificial intelligence. Scientific Reports,14(1)
Graphical Revamping of a Crude Distillation Unit under Two Variable Operational Scenarios - Naphtha Stabilizer and Reformer Operated	0.62	15	1	0.07	14.34	68	78	0	0	Abo-Mousa, A.G., Kamel, D.A., Elazab, H.A. and 2 more (...) (2022).Graphical Revamping of a Crude Distillation Unit under Two Variable Operational Scenarios - Naphtha Stabilizer and Reformer Operated. Chemical Engineering Transactions,941225-1230
Static and dynamic analysis of a new offshore wind turbine system supported with outriggers	2.29	26	1	0.26	3.8	45	55	0	0	El Gendy, O., Mohamedien, M.A., Sallam, E. (2024).Static and dynamic analysis of a new offshore wind turbine system supported with outriggers. Mechanics Based Design of Structures and Machines,52(12) 10389-10421
Performance Assessment of T-Source Inverter Fed Induction Motor Drives Based on Photovoltaics	0.87	7	1	0.46	2.19	68	51	0	0	Amin, A.A., El-Kholy, E.E., Dessouki, M.E. (2022).Performance Assessment of T-Source Inverter Fed Induction Motor Drives Based on Photovoltaics. 2022 23rd International Middle East Power Systems Conference, MEPCON 2022,
Conversion of Fish Waste Oil into Biofuel: An Experimental Study	2.49	34	1	0.2	5.04	45	58	0	0	Mohamed, M.A., Elazab, H.A., Gadalla, M.A. and 1 more (...) (2024).Conversion of Fish Waste Oil into Biofuel: An Experimental Study. Letters in Applied NanoBioScience,13(3)
Study Network Reconfiguration Using Optimization Techniques to Improve Voltage Stability	1.62	17	1	0	3.61	71	79	0	0	Elrazky, R.R., Hieba, A.A., Daoud, A.A. (2021).Study Network Reconfiguration Using Optimization Techniques to Improve Voltage Stability. 2021 International Telecommunications Conference, ITC-Egypt 2021 - Proceedings,
Estimation of density of charged defect states in some glasses of SeTeSnPb system using low-temperature d.c. conductivity measurements	1.32	25	1	0	12.52	71	79	0	0	Saraswat, S., Tomar, V.K., Deolia, V.K. and 3 more (...) (2021).Estimation of density of charged defect states in some glasses of SeTeSnPb system using low-temperature d.c. conductivity measurements. Journal of Materials Science: Materials in Electronics,32(7) 9509-9516
Power grids with renewable energy: Storage, integration and digitalization	2.43	31	1	0.13	7.61	71	72	0	0	Sallam, A.A., Malik, O.P. (2021).Power grids with renewable energy: Storage, integration and digitalization. Power Grids with Renewable Energy: Storage, integration and digitalization,1-570
Green Hydrogen Production from Ethanol	0.08	1	1	0.16	6.28	45	61	0	0	Barakat, N.A.M., Farrag, T.E., Mahmoud, M.S. (2024).Green



Electrolysis Using Co/Ni Bimetallic Nanoparticles-Incorporated Carbon Nanofibers										Hydrogen Production from Ethanol Electrolysis Using Co/Ni Bimetallic Nanoparticles-Incorporated Carbon Nanofibers. Russian Journal of Applied Chemistry,97(6) 572-581
Experimentally validated simplified prediction model of unloaded spar-buoy wave energy converter motions' responses in waves	1.29	31	1	0.07	13.96	68	78	0	0	Bayoumi, S., Amin, I., Oterkus, E. and 1 more (...) (2022).Experimentally validated simplified prediction model of unloaded spar-buoy wave energy converter motions' responses in waves. Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy,236(8) 1608-1620
Joint Reflection Design and Channel Estimation for Intelligent Reflective Surfaces	0.42	2	0	0	0.91	62	61	0	0	Raslan, W., Abdel-Atty, H.M., El-Den, B.M. (2024).Joint Reflection Design and Channel Estimation for Intelligent Reflective Surfaces. 2024 International Telecommunications Conference, ITC-Egypt 2024,818-823
Protective Schemes for Induction Generator	0.7	13	0	0	2.06	79	79	0	0	Ibrahim, N.F., Dessouky, S.S., Mostafa Attia, H.E. and 1 more (...) (2022).Protective Schemes for Induction Generator. Green Energy and Technology,45-57
Conclusions and Future Work	0.53	10	0	0	2.06	79	79	0	0	Ibrahim, N.F., Dessouky, S.S., Mostafa Attia, H.E. and 1 more (...) (2022).Conclusions and Future Work. Green Energy and Technology,111-112
Vsc-hvdc simulation results	0.46	14	0	0	1.95	82	79	0	0	Ibrahim, N.F., Dessouky, S.S. (2021).Vsc-hvdc simulation results. Power Systems,53-81
Diagnostic Strategies for Microturbines Operating Status Applied to Predictive Maintenance: Experimental Test Case	2.38	18	0	0	1.4	73	73	0	0	Álvarez, E.Á., Yosry, A.G., Jiménez, A.F. and 2 more (...) (2023).Diagnostic Strategies for Microturbines Operating Status Applied to Predictive Maintenance: Experimental Test Case. Proceedings of the ASME Turbo Expo,14
Co-Flow Jet Effects on the Aerodynamic Performance of National Renewable Energy Laboratory Aerofoils with Different Thicknesses for Wind Turbine Applications	0.33	5	0	0	4.05	62	61	0	0	Aloukili, A.M., Elsakka, M., Mohamed, M.A. and 1 more (...) (2024).Co-Flow Jet Effects on the Aerodynamic Performance of National Renewable Energy Laboratory Aerofoils with Different Thicknesses for Wind Turbine Applications. Ecological Engineering and Environmental Technology,25(12) 218-232
Wind Tunnel and OpenFOAM Flow Analysis of A High Solidity Vertical-Axis Wind Turbine	0.79	6	0	0	1.4	73	73	0	0	Yosry, A.G., Álvarez, E.Á., Valdés, R.E. and 2 more (...) (2023).Wind Tunnel and OpenFOAM Flow Analysis of A High Solidity Vertical-Axis Wind Turbine. Proceedings of the ASME Turbo Expo,14

High-Power Three-Port Converter for Efficient EV Fast Charging Using Partial Power Processing	0.26	1	0	0	0.61	62	61	0	0	Firdous, Z., Mekhilef, S., Mubin, M.B. and 4 more (...) (2024).High-Power Three-Port Converter for Efficient EV Fast Charging Using Partial Power Processing. Proceedings of the International Conference on Power Electronics, Drives, and Energy Systems for Industrial Growth, PEDES,(2024)
Conclusions and future work	0.46	12	0	0	1.95	82	79	0	0	Ibrahim, N.F., Dessouky, S.S. (2021).Conclusions and future work. Power Systems,99-100
Experimental Setups and Results for Digital Relay Protection	1.23	23	0	0	2.06	79	79	0	0	Ibrahim, N.F., Dessouky, S.S., Mostafa Attia, H.E. and 1 more (...) (2022).Experimental Setups and Results for Digital Relay Protection. Green Energy and Technology,89-109
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Hydrogen production, storage, utilisation and environmental impacts: a review	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85116501469&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85116501469&amp;origin=resultslist</a>	10.1007/s10311-021-01322-8	Review	Hybrid gold   Green	2-s2.0-85116501469	-	South Valley University  Sultan Qaboos University  Swiss Federal Institute of Technology Zurich  Queen's University Belfast  Port Said University  Egyptian Propylene & Polypropylene Company	6
Conversion of biomass to biofuels and life cycle assessment: a review	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85111111734&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85111111734&amp;origin=resultslist</a>	10.1007/s10311-021-01273-0	Review	Hybrid gold   Green	2-s2.0-85111111734	-	Sultan Qaboos University  Queen's University Belfast  Port Said University  Egyptian Propylene & Polypropylene Company	4
Biochar for agronomy, animal farming, anaerobic digestion, composting, water treatment, soil remediation, construction, energy storage, and carbon sequestration: a review	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85129487821&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85129487821&amp;origin=resultslist</a>	10.1007/s10311-022-01424-x	Review	Hybrid gold   Green	2-s2.0-85129487821	-	Obihiro University of Agriculture and Veterinary Medicine  University of Florida  Qatar University  Taiz University  Al-Azhar University  Egyptian Atomic Energy Authority  Queen's University Belfast  Port Said University  Egyptian Propylene & Polypropylene Company  Assiut University	10
Methods to prepare biosorbents and magnetic sorbents for water treatment: a review	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85158063989&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85158063989&amp;origin=resultslist</a>	10.1007/s10311-023-01603-4	Review	Hybrid gold	2-s2.0-85158063989	-	Assiut University  Kobe University  Universidad Autonoma de Baja California  Xi'an Jiaotong-Liverpool University  Alexandria University  Queen's University Belfast  Nnamdi Azikiwe University, Awka  Port Said University  Egyptian Propylene & Polypropylene Company	9
Membrane Technology for Energy Saving: Principles, Techniques, Applications, Challenges, and Prospects	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85185279018&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85185279018&amp;origin=resultslist</a>	10.1002/aesr.202400011	Review	Gold	2-s2.0-85185279018	-	ICAR - Indian Institute of Soil and Water Conservation  Kobe University  Xi'an Jiaotong-Liverpool University  National Institute of Oceanography and Fisheries  Queen's University Belfast  Port Said University  Egyptian Propylene & Polypropylene Company  Assiut University	8

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Optimizing biomass pathways to bioenergy and biochar application in electricity generation, biodiesel production, and biohydrogen production	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85163691782&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85163691782&amp;origin=resultslist</a>	10.1007/s10311-023-01613-2	Review	Hybrid gold	2-s2.0-85163691782	-	King Saud University  Kobe University  Xi'an Jiaotong-Liverpool University  Universiti Malaysia Sarawak  Queen's University Belfast  Port Said University  Egyptian Propylene & Polypropylene Company  Assiut University	8
An Optimized Hybrid Fractional Order Controller for Frequency Regulation in Multi-Area Power Systems	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85097189567&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85097189567&amp;origin=resultslist</a>	10.1109/ACCESS.2020.3040620	Article	Gold	2-s2.0-85097189567	-	Al Jouf University  Aswan University  Universidad Técnica Federico Santa Maria  Port Said University	4
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Biofuel production, hydrogen production and water remediation by photocatalysis, biocatalysis and electrocatalysis	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85149474869&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85149474869&amp;origin=resultslist</a>	10.1007/s10311-023-01581-7	Review	Hybrid gold	2-s2.0-85149474869	-	Sultan Qaboos University  Quchan University of Technology  Chandigarh University  University of Johannesburg  Queen's University Belfast  Egyptian Propylene & Polypropylene Company  Seoul National University of Science and Technology (SNUST)  Kobe University  Universiti Kebangsaan Malaysia  Xi'an Jiaotong-Liverpool University  St. Petersburg National Research University of Information Technologies, Mechanics and Optics (ITMO)  Alexandria University  Port Said University  Assiut University	14
Design and fabrication of Fe <sub>2</sub> O <sub>3</sub> /FeP heterostructure for oxygen evolution reaction electrocatalysis	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85117880216&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85117880216&amp;origin=resultslist</a>	10.1016/j.jallcom.2021.162409	Article		2-s2.0-85117880216	-	King Fahd University of Petroleum and Minerals  Allama Iqbal Open University  University of Education  Quaid-I-Azam University  University of Gujrat  Shenzhen University  King Khalid University  International Islamic University Islamabad  Port Said University  Xi'an Jiaotong University	10
Recent Advances in Biomass Pyrolysis Processes for Bioenergy Production: Optimization of Operating Conditions	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85166594381&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85166594381&amp;origin=resultslist</a>	10.3390/su151411238	Review	Gold Green	2-s2.0-85166594381	-	The British University in Egypt  University of the Witwatersrand  Port Said University	3
An Adaptive D-FACTS for Power Quality Enhancement in an Isolated Microgrid	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85082933320&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85082933320&amp;origin=resultslist</a>	10.1109/ACCESS.2020.2981444	Article	Gold	2-s2.0-85082933320	-	El Shorouk Academy  Port Said University	2
Optimum Modified Fractional Order Controller for Future Electric Vehicles and Renewable Energy-Based Interconnected Power Systems	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85100835050&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85100835050&amp;origin=resultslist</a>	10.1109/ACCESS.2021.3058521	Article	Gold	2-s2.0-85100835050	-	Al Jouf University  Aswan University  Universidad Técnica Federico Santa Maria  Port Said University	4
Recent advances in greenly synthesized nanoengineered materials for water/wastewater	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85101080018&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85101080018&amp;origin=resultslist</a>	10.1007/s41204-021-00104-5	Review		2-s2.0-85101080018	-	Nuclear Materials Authority  University of Jeddah  Guangxi University  Port Said University  Egyptian Propylene & Polypropylene Company	5

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Synthesis and potential applications of cyclodextrin-based metal-organic frameworks: a review	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85138227423&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85138227423&amp;origin=resultslist</a>	10.1007/s10311-022-01509-7	Review	Hybrid gold   Green	2-s2.0-85138227423	-	South Valley University   Zhejiang University   University of Chinese Academy of Sciences   Alexandria University   Queen's University Belfast   Port Said University   Sohag University	7
Review on energy storage systems in microgrids	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85114106963&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85114106963&amp;origin=resultslist</a>	10.3390/electronics10172134	Review	Gold   Green	2-s2.0-85114106963	-	University of Oviedo   Port Said University	2
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A novel metaheuristic MPPT technique based on enhanced autonomous group Particle Swarm Optimization Algorithm to track the GMPP under partial shading conditions - Experimental validation	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85158030530&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85158030530&amp;origin=resultslist</a>	10.1016/j.enconman.2023.117124	Article		2-s2.0-85158030530	-	Port Said University	1
Comprehensive investigation of Opto-electronic and transport properties of Cs2ScAgX6 (X = Cl, Br, I) for solar cells and thermoelectric applications	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85110758564&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85110758564&amp;origin=resultslist</a>	10.1016/j.solener.2021.07.026	Article		2-s2.0-85110758564	-	Princess Nourah Bint Abdulrahman University   Khwaja Fareed University of Engineering & Information Technology   King Khalid University   Riphah International University   Port Said University	5
Sustainable management of food waste; pre-treatment strategies, techno-economic assessment, bibliometric analysis, and potential utilizations: A systematic review	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85149284328&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85149284328&amp;origin=resultslist</a>	10.1016/j.envres.2023.115558	Review		2-s2.0-85149284328	36842700	China Agricultural University   Huazhong Agricultural University   National Research Center   Ministry of Agriculture of the People's Republic of China   National Institute of Oceanography and Fisheries   Port Said University   Egyptian Propylene & Polypropylene Company	7
Emerging 2D-Nanostructured materials for electrochemical and sensing Application-A review	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85118535422&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85118535422&amp;origin=resultslist</a>	10.1016/j.ijhydene.2021.10.044	Review		2-s2.0-85118535422	-	Prince Sattam Bin Abdulaziz University   Al Jouf University   Khwaja Fareed University of Engineering & Information Technology   King Khalid University   Port Said University	5
Experimental and simulation study of multichannel air gap membrane distillation process with two types of solar collectors	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85108903443&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85108903443&amp;origin=resultslist</a>	10.1016/j.enconman.2021.114431	Article		2-s2.0-85108903443	-	Université d'ain Témouchent, Belhadj Bouchaib   Zewail City of Science and Technology   Port Said University	3
Performance evaluation of single multi-junction solar cell for high concentrator photovoltaics using	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85091625789&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85091625789&amp;origin=resultslist</a>	10.1016/j.applthermaleng.2020.115868	Article		2-s2.0-85091625789	-	University of Birmingham   University of Exeter   Port Said University	3

minichannel heat sink with nanofluids							
Enhanced electrochemical activity of Co3O4/Co9S8 heterostructure catalyst for water splitting	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85120795890&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85120795890&amp;origin=resultslist</a>	10.1016/j.jhydene.2021.11.124	Article		2-s2.0-85120795890	-	King Fahd University of Petroleum and Minerals   University of Education   Allama Iqbal Open University   Northeast Normal University   University of Gujrat   Muhammad Nawaz Sharif University of Engineering & Technology   King Khalid University   Xi'an Jiaotong University   Port Said University
Assessment of floating photovoltaic productivity with fins-assisted passive cooling	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85135962083&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85135962083&amp;origin=resultslist</a>	10.1016/j.apenergy.2022.119810	Article		2-s2.0-85135962083	-	Port Said University
Simulation and experimental performance analysis of partially floating PV system in windy conditions	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85119325714&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85119325714&amp;origin=resultslist</a>	10.1016/j.solener.2021.11.020	Article		2-s2.0-85119325714	-	University of Strathclyde   Port Said University
A novel concentrated photovoltaic-driven membrane distillation hybrid system for the simultaneous production of electricity and potable water	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85089946938&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85089946938&amp;origin=resultslist</a>	10.1016/j.renene.2020.08.041	Article		2-s2.0-85089946938	-	The British University in Egypt   Zewail City of Science and Technology   Port Said University
Synthesis, characterization and DFT molecular modeling of doped poly (para-nitroaniline-co-para-toluidine) thin film for optoelectronic devices applications	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85075926984&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85075926984&amp;origin=resultslist</a>	10.1016/j.optmat.2019.109593	Article		2-s2.0-85075926984	-	New Valley University   Center for Energy Research and Technologies   Al Jouf University   Aswan University   Northern Borders University   Zewail City of Science and Technology   Alexandria University   Qassim University   King Abdulaziz University   Port Said University   Université de Tunis El Manar
Extraction of maximum power from PV system based on horse herd optimization MPPT technique under various weather conditions	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85178110060&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85178110060&amp;origin=resultslist</a>	10.1016/j.renene.2023.119718	Article		2-s2.0-85178110060	-	University of the Witwatersrand   Peter the Great St. Petersburg Polytechnic University   Port Said University   Northern Technical University
Thermo-electrical performance assessment of a partially submerged floating photovoltaic system	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85124624063&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85124624063&amp;origin=resultslist</a>	10.1016/j.energy.2022.123444	Article		2-s2.0-85124624063	-	University of Catania   Port Said University
Efficient fractional-order modified Harris hawks optimizer for proton exchange membrane fuel cell modeling	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85101228573&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85101228573&amp;origin=resultslist</a>	10.1016/j.engappai.2021.104193	Article	Green	2-s2.0-85101228573	-	Al-Fayoum University   Torrens University Australia   Instituto Superior de Engenharia do Porto   Al Jouf University   Osmania University   Yonsei University   Zagazig University   Polytechnic Institute of Porto   Port Said University
Performance enhancement of a hybrid multi effect evaporation/membrane distillation system driven by solar energy for desalination	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85141848777&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85141848777&amp;origin=resultslist</a>	10.1016/j.jece.2022.108855	Article		2-s2.0-85141848777	-	The British University in Egypt   University of the Witwatersrand   Port Said University

Doped poly (o-phenylenediamine-co-p-toluidine) fibers for polymer solar cells applications	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85075499518&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85075499518&amp;origin=resultslist</a>	10.1016/j.solener.2019.11.064	Article		2-s2.0-85075499518	-	New Valley University   Northern Borders University   King Abdulaziz University   Port Said University	4
Design and performance a novel hybrid membrane distillation/humidification-dehumidification system	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85153602253&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85153602253&amp;origin=resultslist</a>	10.1016/j.enconman.2023.117039	Article		2-s2.0-85153602253	-	University of the Witwatersrand   Port Said University	2
Performance enhancement of flat-plate and parabolic trough solar collector using nanofluid for water heating application	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85180368544&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85180368544&amp;origin=resultslist</a>	10.1016/j.rineng.2023.101673	Article	Gold	2-s2.0-85180368544	-	American University of the Middle East   Suez Canal University   University of the Witwatersrand   Port Said University	4
Tuning cationic/anionic dyes sorption from aqueous solution onto green algal biomass for biohydrogen production	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85141223489&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85141223489&amp;origin=resultslist</a>	10.1016/j.envres.2022.114522	Article		2-s2.0-85141223489	36243056	Suez University   National Research Center   Port Said University   Egyptian Propylene & Polypropylene Company	4
Performance enhancement of concentrator photovoltaic systems using nanofluids	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85091177319&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85091177319&amp;origin=resultslist</a>	10.1002/er.5991	Article		2-s2.0-85091177319	-	Port Said University	1
Synthesis and characterization of Co-Al mixed oxide nanoparticles via thermal decomposition route of layered double hydroxide	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85077474743&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85077474743&amp;origin=resultslist</a>	10.1016/j.molstruc.2020.127679	Article		2-s2.0-85077474743	-	New Valley University   Northern Borders University   Alexandria University   King Abdulaziz University   Port Said University	5
Hydrogen production from wastewater, storage, economy, governance and applications: a review	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85136583562&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85136583562&amp;origin=resultslist</a>	10.1007/s10311-022-01480-3	Review		2-s2.0-85136583562	-	University of Jeddah   University of Medical Sciences Poznan   National Institute of Oceanography and Fisheries   Port Said University   Egyptian Propylene & Polypropylene Company   Agricultural Research Center, Giza	6
An energy-economic analysis of a hybrid PV/wind/battery energy-driven hydrogen generation system in rural regions of Egypt	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85181950663&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85181950663&amp;origin=resultslist</a>	10.1016/j.est.2023.110256	Article		2-s2.0-85181950663	-	Port Said University	1
Performance and potential of a novel floating photovoltaic system in Egyptian winter climate on calm water surface	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85125299548&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85125299548&amp;origin=resultslist</a>	10.1016/j.ijhydene.2022.02.034	Article		2-s2.0-85125299548	-	University of Strathclyde   Port Said University	2
A technical and economic evaluation of floating photovoltaic systems in the context of the water-energy nexus	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85195368514&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85195368514&amp;origin=resultslist</a>	10.1016/j.energy.2024.131904	Article		2-s2.0-85195368514	-	University of Strathclyde   University of Catania   Port Said University	3



Advanced process integration for supercritical production of biodiesel: Residual waste heat recovery via organic Rankine cycle (ORC)	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85091575033&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85091575033&amp;origin=resultslist</a>	10.1016/j.renene.2020.09.058	Article	Green	2-s2.0-85091575033	-	The British University in Egypt  London South Bank University  University of Nottingham  The Public Authority of Applied Education and Training  Port Said University	5
Polymer solar cell based on doped o-anthranilic acid and o-aminophenol copolymer	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85084066724&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85084066724&amp;origin=resultslist</a>	10.1016/j.optmat.2020.109947	Article		2-s2.0-85084066724	-	New Valley University  Northern Borders University  Minia University  Alexandria University  Université de Tunis El Manar  Port Said University  King Abdulaziz University	7
Performance estimation of a mini-passive solar still via machine learning	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85089946148&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85089946148&amp;origin=resultslist</a>	10.1016/j.renene.2020.08.006	Article		2-s2.0-85089946148	-	New Valley University  Northern Borders University  Zewail City of Science and Technology  Alexandria University  King Abdulaziz University  Port Said University	6
An innovative cooling technique for floating photovoltaic module: Adoption of partially submerged angle fins	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85162113370&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85162113370&amp;origin=resultslist</a>	10.1016/j.ecmx.2023.100408	Article	Gold	2-s2.0-85162113370	-	Port Said University	1
One-pot conversion of highly acidic waste cooking oil into biodiesel over a novel bio-based bi-functional catalyst	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85089477007&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85089477007&amp;origin=resultslist</a>	10.1016/j.fuel.2020.118914	Article		2-s2.0-85089477007	-	The British University in Egypt  University of Montreal  Cairo University  Polytechnique Montreal  Port Said University	5
Power management strategy based on adaptive neuro fuzzy inference system for AC microgrid	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85096718200&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85096718200&amp;origin=resultslist</a>	10.1109/ACCESS.2020.3032705	Article	Gold	2-s2.0-85096718200	-	Future University in Egypt  Port Said University  Sohag University  Egyptian Propylene & Polypropylene Company	4
Design and characterization of a vertical-axis micro tidal turbine for low velocity scenarios	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85104277768&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85104277768&amp;origin=resultslist</a>	10.1016/j.enconman.2021.114144	Article		2-s2.0-85104277768	-	University of Oviedo  Port Said University	2
Catalytic fast pyrolysis of lignocellulosic biomass: Recent advances and comprehensive overview	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85185834699&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85185834699&amp;origin=resultslist</a>	10.1016/j.jaap.2024.106390	Review	Green	2-s2.0-85185834699	-	Conservatoire national des arts et métiers  CNRS  Cairo University  Ibn Tofail University  University of the Witwatersrand  Institut de Recherche en Energie Solaire et Energies Nouvelles  Brandenburg University of Technology  Port Said University  Arts et Métiers ParisTech	9
Theoretical investigation of the temperature limits of an actively cooled high concentration photovoltaic system	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85083675417&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85083675417&amp;origin=resultslist</a>	10.3390/en13081902	Article	Gold  Green	2-s2.0-85083675417	-	University of Exeter  Port Said University	2
Dual valorization of coastal biowastes for tetracycline remediation and biomethane production: A composite assisted anaerobic digestion	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85179055197&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85179055197&amp;origin=resultslist</a>	10.1016/j.jhazmat.2023.133143	Article	Hybrid gold	2-s2.0-85179055197	38056261	Suez University  Johannes Kepler University Linz  National Research Center  Lappeenranta-Lahti University of Technology  Port Said University  Egyptian Propylene & Polypropylene Company	6
Effectiveness of some novel heterocyclic compounds as corrosion inhibitors for carbon steel in 1 M HCl	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85106860357&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85106860357&amp;origin=resultslist</a>	10.1039/d1ra03083c	Retracted	Gold  Green	2-s2.0-85106860357	-	Mansoura University  Jotun A/S  Port Said University	3

using practical and theoretical methods								
Coyote optimization based on a fuzzy logic algorithm for energy-efficiency in wireless sensor networks	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85102814392&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85102814392&amp;origin=resultslist</a>	10.1109/ACCESS.2020.3029683	Article	Gold	2-s2.0-85102814392	-	Cairo University   Port Said University	2
Toward a national life cycle assessment tool: Generative design for early decision support	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85129872803&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85129872803&amp;origin=resultslist</a>	10.1016/j.enbuild.2022.112144	Article		2-s2.0-85129872803	-	Port Said University	1
Integration of active solar cooling technology into passively designed facade in hot climates	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85132359639&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85132359639&amp;origin=resultslist</a>	10.1016/j.jobe.2022.104658	Article		2-s2.0-85132359639	-	Sinai University   Port Said University	2
Thermal regulation of partially floating photovoltaics for enhanced electricity production: A modeling and experimental analysis	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85135379852&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85135379852&amp;origin=resultslist</a>	10.1016/j.seta.2022.102582	Article		2-s2.0-85135379852	-	University of Catania   Port Said University	2
Experimental performance analysis of enhanced concentrated photovoltaic utilizing various mass flow rates of Al2O3-nanofluid: Energy, exergy, and exergoeconomic study	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85138042264&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85138042264&amp;origin=resultslist</a>	10.1016/j.seta.2022.102723	Article		2-s2.0-85138042264	-	Kocaeli University   Port Said University	2
Facile synthesis of spin-coated poly (4-nitroaniline) thin film: Structural and optical properties	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85091576179&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85091576179&amp;origin=resultslist</a>	10.1016/j.optmat.2020.110378	Article		2-s2.0-85091576179	-	New Valley University   Northern Borders University   King Abdulaziz University   Port Said University	4
Exploring the potential of sheep wool as an eco-friendly insulation material: A comprehensive review and analytical ranking	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85181084098&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85181084098&amp;origin=resultslist</a>	10.1016/j.susmat.2023.e00812	Review		2-s2.0-85181084098	-	Port Said University	1
Green hydrogen production ensemble forecasting based on hybrid dynamic optimization algorithm	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85164922295&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85164922295&amp;origin=resultslist</a>	10.3389/fenrg.2023.1221006	Article	Gold	2-s2.0-85164922295	-	Ain Shams University   Delta University for Science and Technology   Mansoura University   Middle East University, Jordan   Applied Science Private University   Al Ahliyya Amman University   Al al-Bayt University   Shaqra University   Yuan Ze University   Princess Nourah Bint Abdulrahman University   Sunway University   Port Said University   Universiti Sains Malaysia	13
Performance evaluation of a novel self-tuning particle swarm optimization algorithm-based maximum power point tracker for porton exchange membrane fuel cells under different operating conditions	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85183692136&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85183692136&amp;origin=resultslist</a>	10.1016/j.enconman.2023.118014	Article		2-s2.0-85183692136	-	Port Said University	1

Conceptual design and numerical analysis of a novel floating desalination plant powered by marine renewable energy for Egypt	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85085759976&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85085759976&amp;origin=resultslist</a>	10.3390/jmse8020095	Article	Gold   Green	2-s2.0-85085759976	-	University of Strathclyde   Desert Research Center   Arab Academy for Science, Technology and Maritime Transport   Port Said University	4
Power management and optimized control of hybrid PV-BESS-grid integrated fast EV charging stations	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85191811000&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85191811000&amp;origin=resultslist</a>	10.1016/j.est.2024.111802	Article		2-s2.0-85191811000	-	Swinburne University of Technology   Universiti Tenaga Nasional   Port Said University   University of Mosul	4
Artificial neural network based prediction of ship speed under operating conditions for operational optimization	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85153794027&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85153794027&amp;origin=resultslist</a>	10.1016/j.oceaneng.2023.114613	Article		2-s2.0-85153794027	-	University of Southampton   National Oceanography Centre   Port Said University	3
Hydrogen-Rich Syngas and Biochar Production by Non-Catalytic Valorization of Date Palm Seeds	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85128451263&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85128451263&amp;origin=resultslist</a>	10.3390/en15082727	Article	Gold   Green	2-s2.0-85128451263	-	Universiti Tenaga Nasional   King Abdulaziz University   Port Said University	3
Systematic study of optoelectronic and thermoelectric properties of new lead-free halide double perovskites A <sub>2</sub> KGa <sub>6</sub> (A = Cs, Rb) for solar cell applications via ab-initio calculations	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85136574404&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85136574404&amp;origin=resultslist</a>	10.1016/j.mseb.2022.115957	Article		2-s2.0-85136574404	-	Ghazi University   Gazi University   Islamia University   King Khalid University   Port Said University	5
Prediction and assessment of automated lifting system performance for multi-storey parking lots powered by solar energy	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85084331238&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85084331238&amp;origin=resultslist</a>	10.1016/j.jclepro.2020.121859	Article		2-s2.0-85084331238	-	Port Said University	1
Modelling the impact of lining and covering irrigation canals on underlying groundwater stores in the Nile Delta, Egypt	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85123711145&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85123711145&amp;origin=resultslist</a>	10.1002/hyp.14466	Article		2-s2.0-85123711145	-	University of California Division of Agriculture and Natural Resources   Aarhus University   Zagazig University   Port Said University   University of California at Davis	5
Water Desalination Using Solar Thermal Collectors Enhanced by Nanofluids	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85119113578&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85119113578&amp;origin=resultslist</a>	10.1002/ceat.202100339	Article		2-s2.0-85119113578	-	Cairo University   Shahrood University of Technology   Zewail City of Science and Technology   Port Said University	4
A Comparative Review on Single Phase Transformerless Inverter Topologies for Grid-Connected Photovoltaic Systems	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85147932966&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85147932966&amp;origin=resultslist</a>	10.3390/en16031363	Review	Gold   Green	2-s2.0-85147932966	-	University of Malaya   Hajee Mohammad Danesh Science and Technology University   Swinburne University of Technology   Universiti Tenaga Nasional   Port Said University	5
Synthesis, characterization, and photosensitizer applications for dye-based on ZrO <sub>2</sub> -acriflavine	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85118560821&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85118560821&amp;origin=resultslist</a>	10.1016/j.molstruc.2021.131827	Article		2-s2.0-85118560821	-	New Valley University   Tanta University   Northern Borders University   King Abdulaziz University   Port Said University   Assiut University	6

nanocomposite thin film [ZrO2+ACF]/C								
Evaluation of Storage Stability for Biocrude Derived from Hydrothermal Liquefaction of Microalgae	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85110218166&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85110218166&amp;origin=resultslist</a>	10.1021/acs.energyfuels.1c01386	Article		2-s2.0-85110218166	-	Renmin University of China  Beijing University of Chemical Technology  Washington State University Pullman  University of Utah  Port Said University	5
Experimental study of simultaneous effect of evacuated tube collectors coupled with parabolic reflectors on traditional single slope solar still efficiency	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85165228243&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85165228243&amp;origin=resultslist</a>	10.1016/j.csite.2023.103304	Article	Gold	2-s2.0-85165228243	-	Al-Fayoum University  Al Baha University  Port Said University	3
Single-stage waste oil conversion into biodiesel via sonication over bio-based bifunctional catalyst: Optimization, preliminary techno-economic and environmental analysis	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85147594303&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85147594303&amp;origin=resultslist</a>	10.1016/j.fuel.2023.127587	Article		2-s2.0-85147594303	-	The British University in Egypt  IHE Delft Institute for Water Education  Cairo University  University of Montreal  Polytechnique Montreal  Port Said University	6
Retrofit of heat exchanger networks by graphical Pinch Analysis - A case study of a crude oil refinery in Kuwait	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85105059129&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85105059129&amp;origin=resultslist</a>	10.1016/j.csite.2021.101030	Article	Gold	2-s2.0-85105059129	-	The British University in Egypt  Lund University  Cairo University  The Public Authority of Applied Education and Training  Port Said University	5
Energy and exergy analyses of new cooling schemes based on a serpentine configuration for a high concentrator photovoltaic system	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85115126217&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85115126217&amp;origin=resultslist</a>	10.1016/j.applthermaleng.2021.117528	Article		2-s2.0-85115126217	-	University of Exeter  Port Said University	2
Response Surface Optimisation of Vertical Axis Wind Turbine at low wind speeds	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85137161766&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85137161766&amp;origin=resultslist</a>	10.1016/j.egy.2022.08.222	Article	Gold	2-s2.0-85137161766	-	Port Said University  University of Sheffield	2
Numerical hydrodynamics-based design of an offshore platform to support a desalination plant and a wind turbine in Egypt	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85104281636&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85104281636&amp;origin=resultslist</a>	10.1016/j.oceaneng.2021.108598	Article		2-s2.0-85104281636	-	Ain Shams University  University of Strathclyde  Desert Research Center  Arab Academy for Science, Technology and Maritime Transport  Port Said University	5
Performance analysis of reinforced epoxy functionalized carbon nanotubes composites for vertical axis wind turbine blade	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85100018284&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85100018284&amp;origin=resultslist</a>	10.3390/polym13030422	Article	Gold  Green	2-s2.0-85100018284	-	King Saud University  Zewail City of Science and Technology  Port Said University	3
Techno-economic multi-objective reactive power planning in integrated wind power system with improving voltage stability	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85140638747&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85140638747&amp;origin=resultslist</a>	10.1016/j.epr.2022.108917	Article		2-s2.0-85140638747	-	Mansoura University  Port Said University	2

Numerical investigation of the indoor thermal behaviour based on PCMs in a hot climate	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85129518674&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85129518674&amp;origin=resultslist</a>	10.1080/00038628.2022.2058459	Article		2-s2.0-85129518674	-	Port Said University	1
Recycling of catering waste for sequential production of biohydrogen and biomethane; pre-treatments, batch, and continuous mode studies	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85170405320&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85170405320&amp;origin=resultslist</a>	10.1016/j.jece.2023.110955	Article		2-s2.0-85170405320	-	University of Jeddah   National Research Center   Port Said University	3
Photodeposition Conditions of Silver Cocatalyst on Titanium Oxide Photocatalyst Directing Product Selectivity in Photocatalytic Reduction of Carbon Dioxide with Water	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85075791148&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85075791148&amp;origin=resultslist</a>	10.1007/s10562-019-02997-z	Article		2-s2.0-85075791148	-	Egypt-Japan University of Science and Technology   Kyoto University   Port Said University	3
Combined experimental and TDDFT computations for the structural and optical properties for poly (ortho phenylene diamine) thin film with different surfactants	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85099912887&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85099912887&amp;origin=resultslist</a>	10.1007/s10854-021-05271-4	Article		2-s2.0-85099912887	-	New Valley University   Aswan University   Northern Borders University   Zewail City of Science and Technology   Alexandria University   Qassim University   King Abdulaziz University   Port Said University   Taif University	9
Conducting polymer thin film for optoelectronic devices applications	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85102627779&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85102627779&amp;origin=resultslist</a>	10.1002/pat.5290	Article		2-s2.0-85102627779	-	New Valley University   Northern Borders University   Alexandria University   King Abdulaziz University   Port Said University   Assiut University	6
Optoelectronic and photocatalytic properties of GaN, GeS and SiS monolayers and their vdW heterostructures	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85122536027&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85122536027&amp;origin=resultslist</a>	10.1016/j.jpcs.2021.110433	Article		2-s2.0-85122536027	-	Hazara University   Southern University of Science and Technology   King Khalid University   Port Said University	4
Improvement of the thermal stability and optical properties for poly (ortho phenylene diamine) using soft templates	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85087397842&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85087397842&amp;origin=resultslist</a>	10.1016/j.molstruc.2020.128792	Article		2-s2.0-85087397842	-	New Valley University   Al-Azhar University   Northern Borders University   King Abdulaziz University   Port Said University	5
Physical properties of KTaO3 compound for optoelectronic and thermoelectric applications: A DFT study	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85131092126&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85131092126&amp;origin=resultslist</a>	10.1016/j.mssp.2022.106811	Article		2-s2.0-85131092126	-	University of Agriculture Faisalabad   Princess Nourah Bint Abdulrahman University   King Khalid University   Port Said University	4
Optimal parameters identification for PEMFC using autonomous groups particle swarm optimization algorithm	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85192960810&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85192960810&amp;origin=resultslist</a>	10.1016/j.ijhydene.2024.05.068	Article		2-s2.0-85192960810	-	Mansoura University   Ural Federal University   Port Said University	3
Polypyrrole/functionalized multi-walled carbon nanotube composite for	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85113270346&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85113270346&amp;origin=resultslist</a>	10.1007/s11696-021-01830-5	Article		2-s2.0-85113270346	-	New Valley University   Alexandria University   King Abdulaziz University   Port Said University	4

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Physical characteristics of barium based cubic perovskites	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85109618875&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85109618875&amp;origin=resultslist</a>	10.1016/j.cplett.2021.138835	Article		2-s2.0-85109618875	-	University of Agriculture Faisalabad   Princess Nourah Bint Abdulrahman University   King Khalid University   Xi'an Jiaotong University   Port Said University	5
One-dimensional ternary conducting polymers blend with 9.26% power conversion efficiency for photovoltaic devices applications	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85142543799&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85142543799&amp;origin=resultslist</a>	10.1016/j.aej.2022.11.013	Article	Gold	2-s2.0-85142543799	-	New Valley University   Alexandria University   King Abdulaziz University   Port Said University	4
Experimental and numerical simulation of solar membrane distillation and humidification – dehumidification water desalination system	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85162152883&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85162152883&amp;origin=resultslist</a>	10.1016/j.renene.2023.118915	Article		2-s2.0-85162152883	-	Suez Canal University   Université d'ain Témouchent, Belhadj Bouchaib   University of the Witwatersrand   Port Said University	4
Yield and energy outputs analysis of sawdust biomass pyrolysis	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85189754144&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85189754144&amp;origin=resultslist</a>	10.1016/j.ecmx.2024.100583	Article	Gold	2-s2.0-85189754144	-	American University of the Middle East   University of the Witwatersrand   Port Said University	3
Dragonfly-Based Joint Delay/Energy LTE Downlink Scheduling Algorithm	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85080883973&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85080883973&amp;origin=resultslist</a>	10.1109/ACCESS.2020.2974856	Article	Gold	2-s2.0-85080883973	-	Mansoura University   Port Said University	2
Experimental and multiphase modeling of small vertical-axis hydrokinetic turbine with free-surface variations	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85145723682&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85145723682&amp;origin=resultslist</a>	10.1016/j.renene.2022.12.114	Article	Hybrid gold	2-s2.0-85145723682	-	University of Oviedo   Port Said University	2
A renewable lignin-derived bio-oil for boosting the oxidation stability of biodiesel	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85118219054&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85118219054&amp;origin=resultslist</a>	10.1016/j.renene.2021.10.061	Article		2-s2.0-85118219054	-	The British University in Egypt   London South Bank University   Lund University   Cairo University   University of Nottingham   Lancaster University   University of Leeds   Port Said University	8
Comparison of the Computational Fluid Dynamics Predictions of Vertical Axis Wind Turbine Performance Against Detailed Pressure Measurements	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85104001196&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85104001196&amp;origin=resultslist</a>	-	Article		2-s2.0-85104001196	-	Port Said University   University of Sheffield	2
Physical structure, TD-DFT computations, and optical properties of hybrid nanocomposite thin film as optoelectronic devices	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85130493030&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85130493030&amp;origin=resultslist</a>	10.1016/j.jiec.2022.05.004	Article		2-s2.0-85130493030	-	New Valley University   Alexandria University   King Abdulaziz University   Port Said University	4
Aqueous Phase from Hydrothermal Liquefaction: Composition and Toxicity Assessment	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85159372607&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85159372607&amp;origin=resultslist</a>	10.3390/w15091681	Article	Gold   Green	2-s2.0-85159372607	-	Perm State National Research University   University of the Witwatersrand   Port Said University   Kazan National Research Technological University	4
Fabrication, characterization, TD-DFT, optical and electrical properties of poly (aniline-co-para nitroaniline)/ZrO2	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85124904802&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85124904802&amp;origin=resultslist</a>	10.1016/j.jiec.2022.02.011	Article		2-s2.0-85124904802	-	New Valley University   Zewail City of Science and Technology   Alexandria University   King Abdulaziz University   Port Said University	5

composite for solar cell applications								
Nickel Oxide Nanoparticles Application for Enhancing Biogas Production Using Certain Wastewater Bacteria and Aquatic Macrophytes Biomass	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85087572009&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85087572009&amp;origin=resultslist</a>	10.1007/s12649-020-01144-9	Article		2-s2.0-85087572009	-	Al-Azhar University  King Abdulaziz University  Port Said University	3
Relevance of monocrystalline and thin-film technologies in implementing efficient grid-connected photovoltaic systems in historic buildings in Port Fouad city, Egypt	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85132236190&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85132236190&amp;origin=resultslist</a>	10.1016/j.aej.2022.06.007	Article	Gold	2-s2.0-85132236190	-	Dar Al Uloom University  University of Business and Technology  Port Said University	3
Evolution of ion-acoustic soliton waves in Venus's ionosphere permeated by the solar wind	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85103975476&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85103975476&amp;origin=resultslist</a>	10.1016/j.asr.2021.02.037	Article		2-s2.0-85103975476	-	Academy of Scientific Research and Technology  Mansoura University  Benha University  The British University in Egypt  Tanta University  Port Said University	6
Conceptual design of a novel partially floating photovoltaic integrated with smart energy storage and management system for Egyptian North Lakes	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85153847203&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85153847203&amp;origin=resultslist</a>	10.1016/j.oceaneng.2023.114416	Article	Hybrid gold	2-s2.0-85153847203	-	University of Strathclyde  Port Said University	2
Model-assisted active disturbance rejection controller for maximum efficiency schemes of DFIG-based wind turbines	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85114993827&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85114993827&amp;origin=resultslist</a>	10.1002/2050-7038.13107	Article		2-s2.0-85114993827	-	Beijing Institute of Technology  Port Said University	2
A Recommendation System for Electric Vehicles Users Based on Restricted Boltzmann Machine and WaterWheel Plant Algorithms	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85181547239&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85181547239&amp;origin=resultslist</a>	10.1109/ACCESS.2023.3345342	Article	Gold	2-s2.0-85181547239	-	Ain Shams University  Delta University for Science and Technology  Mansoura University  Shaqra University   Princess Nourah Bint Abdulrahman University  Damietta University  Port Said University  Ahmed Draia University	8
Experimental investigation of two novel arrangements of air gap membrane distillation module with heat recovery	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85133266172&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85133266172&amp;origin=resultslist</a>	10.1016/j.egy.2022.06.068	Article	Gold	2-s2.0-85133266172	-	Port Said University	1
A Comparative Study of MPPT for PV System Based on Modified Perturbation Observation Method	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85104795674&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85104795674&amp;origin=resultslist</a>	10.1109/ElConRus51938.2021.9396444	Conference Paper		2-s2.0-85104795674	-	Peter the Great St. Petersburg Polytechnic University  Port Said University	2
Optical constants of ternary Cux(Ge30Se70)100-x thin films for solar cell applications	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85089751774&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85089751774&amp;origin=resultslist</a>	10.1016/j.optmat.2020.110341	Article		2-s2.0-85089751774	-	Majmaah University   University of Jeddah   Al-Azhar University  King Khalid University  Port Said University	5

Enviro-economic and optimal hybrid energy system: Photovoltaic-biogas-hydro-battery system in rural areas of Pakistan	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85200642053&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85200642053&amp;origin=resultslist</a>	10.1016/j.heliyon.2024.e35182	Article	Gold   Green	2-s2.0-85200642053	-	Abdul Wali Khan University Mardan   King Faisal University   Lebanese American University   Princess Nourah Bint Abdulrahman University   Port Said University   Al Baha University	6
Toward Enhancing the Energy Efficiency and Minimizing the SLA Violations in Cloud Data Centers	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85099909376&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85099909376&amp;origin=resultslist</a>	10.1155/2021/8892734	Article	Gold	2-s2.0-85099909376	-	University of Bisha   Port Said University	2
Development and implementation of two-stage boost converter for single-phase inverter without transformer for PV systems	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85074595685&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85074595685&amp;origin=resultslist</a>	10.11591/ijece.v10i1.pp660-669	Article	Gold   Green	2-s2.0-85074595685	-	Suez Canal University   Menoufia University   King Abdulaziz University   Port Said University	4
Synthesis, characterization, DFT-TDDFT calculations and optical properties of a novel pyrazole-1,2,3-triazole hybrid thin film	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85115125407&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85115125407&amp;origin=resultslist</a>	10.1016/j.jle.2021.167971	Article		2-s2.0-85115125407	-	Majmaah University   New Valley University   Tanta University   Northern Borders University   Zewail City of Science and Technology   Kafrelsheikh University   Alexandria University   King Abdulaziz University   Port Said University   Taif University	10
Heuristic Approach for Net-Zero Energy Residential Buildings in Arid Region Using Dual Renewable Energy Sources	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85152701180&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85152701180&amp;origin=resultslist</a>	10.3390/buildings13030796	Article	Gold   Green	2-s2.0-85152701180	-	King Faisal University   Port Said University   Helwan University	3
Correction to: Hydrogen production, storage, utilisation and environmental impacts: a review (Environmental Chemistry Letters, (2022), 20, 1, (153-188), 10.1007/s10311-021-01322-8)	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85127429321&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85127429321&amp;origin=resultslist</a>	10.1007/s10311-022-01432-x	Erratum	Hybrid gold	2-s2.0-85127429321	-	South Valley University   Sultan Qaboos University   Swiss Federal Institute of Technology Zurich   Queen's University Belfast   Port Said University   Egyptian Propylene & Polypropylene Company	6
Enhancing Healing Environment and Sustainable Finishing Materials in Healthcare Buildings	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85140779319&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85140779319&amp;origin=resultslist</a>	10.3390/buildings12101676	Article	Gold   Green	2-s2.0-85140779319	-	King Faisal University   Port Said University   Helwan University	3
Aspen Plus simulation of a low capacity organic Rankine cycle heated by solar energy	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85120453202&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85120453202&amp;origin=resultslist</a>	10.1016/j.egy.2021.11.109	Article	Gold	2-s2.0-85120453202	-	The British University in Egypt   Tanta University   Port Said University	3
New analytical assessment for fast and complete pre-fault restoration of grid-connected FSWTs with fuzzy-logic pitch-angle controller	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85118548852&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85118548852&amp;origin=resultslist</a>	10.1016/j.jepes.2021.107745	Article		2-s2.0-85118548852	-	Suez University   Suez Canal University   Port Said University	3
Ionospheric losses of Venus in the solar wind	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85073517196&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85073517196&amp;origin=resultslist</a>	10.1016/j.asr.2019.09.032	Article		2-s2.0-85073517196	-	Arab Academy for Science, Technology and Maritime Transport   The British University in Egypt   Prince Sattam Bin Abdulaziz University   Ruhr University Bochum   KU Leuven   Port Said University	6
Multi-functional core-shell pomegranate peel amended alginate	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85152100999&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85152100999&amp;origin=resultslist</a>	10.1016/j.bej.2023.108932	Article		2-s2.0-85152100999	-	National Research Center   Port Said University   Egyptian Propylene & Polypropylene Company	3



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Effect of using an infrared filter on the performance of a silicon solar cell for an ultra-high concentrator photovoltaic system	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85088012636&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85088012636&amp;origin=resultslist</a>	10.1016/j.matlet.2020.128332	Article		2-s2.0-85088012636	-	Imam Abdulrahman Bin Faisal University   University of Exeter   Port Said University	3
Trajectory optimization for UAV-assisted relay over 5G networks based on reinforcement learning framework	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85164126701&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85164126701&amp;origin=resultslist</a>	10.1186/s13638-023-02268-x	Review	Gold	2-s2.0-85164126701	-	Port Said University	1
A fast-tracking MPPT-based modified coot optimization algorithm for PV systems under partial shading conditions	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85200104635&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85200104635&amp;origin=resultslist</a>	10.1016/j.asej.2024.102967	Article	Gold	2-s2.0-85200104635	-	University of Malaya   Swinburne University of Technology   Universiti Tenaga Nasional   Port Said University   University of Mosul	5
Sustainable Building Optimization Model for Early-Stage Design	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85146449235&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85146449235&amp;origin=resultslist</a>	10.3390/buildings13010074	Article	Gold   Green	2-s2.0-85146449235	-	Mansoura University   Future University in Egypt   Port Said University	3
Potential application of solar still desalination in NEOM region	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85185564484&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85185564484&amp;origin=resultslist</a>	10.1007/s13201-024-02115-4	Article	Gold	2-s2.0-85185564484	-	Mansoura University   University of Tabuk   King Faisal University   University of Jeddah   Aswan University   Port Said University	6
Implementation of boolean PSO for service restoration using distribution network reconfiguration simultaneously with distributed energy resources and capacitor banks	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85085123623&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85085123623&amp;origin=resultslist</a>	-	Article		2-s2.0-85085123623	-	Port Said University	1
Energetic, environmental and economic (3E) analysis of a CSA algorithm optimized floatovoltaic system integrated with heat sink: Modeling with experimental validation	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85179854305&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85179854305&amp;origin=resultslist</a>	10.1016/j.enganabound.2023.12.005	Article		2-s2.0-85179854305	-	Kocaeli University   Port Said University	2
Experimental analysis and numerical simulation of biomass pyrolysis	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85190106936&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85190106936&amp;origin=resultslist</a>	10.1007/s10973-024-12987-y	Article	Hybrid gold	2-s2.0-85190106936	-	Cairo University   University of the Witwatersrand   Port Said University	3
The potential of optimized floating photovoltaic system for energy production in the Northern Lakes of Egypt	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85184485253&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85184485253&amp;origin=resultslist</a>	10.1016/j.enganabound.2024.01.022	Article		2-s2.0-85184485253	-	Delta University for Science and Technology   Islamic University of Madinah   Tanta University   Port Said University	4
Combined experimental and theoretical study, characterization, and	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85097573984&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85097573984&amp;origin=resultslist</a>	10.1016/j.molstruc.2020.129712	Article		2-s2.0-85097573984	-	New Valley University   Northern Borders University   King Abdulaziz University   Port Said University	4

nonlinear optical properties of doped-poly (p-nitroaniline - co- o-aminophenol) thin films								
An examination of hub wind turbine utilizing fluid-structure interaction strategy	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85138130738&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85138130738&amp;origin=resultslist</a>	10.1016/j.aej.2022.08.042	Article	Gold	2-s2.0-85138130738	-	Alexandria University   Port Said University	2
Facile synthesis of single-crystal of o-phenylene diamine dihydrochloride as a polychloride and fabrication of high-performance semiconductor thin film	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85098472774&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85098472774&amp;origin=resultslist</a>	10.1016/j.optmat.2020.110758	Article		2-s2.0-85098472774	-	Assiut University   University of Carthage   New Valley University   Bournemouth University   Aswan University   Northern Borders University   Qassim University   King Abdulaziz University   Port Said University   Taif University	10
Green retrofitting of heritage buildings based on (3Ts) framework: An applied case study	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85191011684&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85191011684&amp;origin=resultslist</a>	10.1016/j.foar.2024.02.015	Article	Gold	2-s2.0-85191011684	-	Port Said University	1
Experimental validation of a low-cost maximum power point tracking technique based on artificial neural network for photovoltaic systems	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85200569600&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85200569600&amp;origin=resultslist</a>	10.1038/s41598-024-67306-0	Article	Gold   Green	2-s2.0-85200569600	39112638	Port Said University	1
Comprehensive Review of Renewable Energy Communication Modeling for Smart Systems	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85145665580&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85145665580&amp;origin=resultslist</a>	10.3390/en16010409	Review	Gold   Green	2-s2.0-85145665580	-	University of Oviedo   University of Nigeria   Port Said University	3
Innovative metaheuristic algorithm with comparative analysis of MPPT for 5.5 kW floating photovoltaic system	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85189042685&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85189042685&amp;origin=resultslist</a>	10.1016/j.psep.2024.03.082	Article		2-s2.0-85189042685	-	King Saud University   Port Said University	2
Acid-hydrolysed furfural production from rice straw bio-waste: Process synthesis, simulation, and optimisation	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85112302496&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85112302496&amp;origin=resultslist</a>	10.1016/j.sajce.2021.08.002	Article	Gold	2-s2.0-85112302496	-	The British University in Egypt   Port Said University	2
Holistic design of energy-efficient temporary houses: Meeting ventilation, heating, cooling, and lighting demands	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85185259518&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85185259518&amp;origin=resultslist</a>	10.1016/j.jobe.2024.108534	Article		2-s2.0-85185259518	-	Port Said University	1
Electrical and thermoelectrical properties of Bi <sub>2</sub> -xNaxTe <sub>3</sub> alloys	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85133418170&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85133418170&amp;origin=resultslist</a>	10.1016/j.jallcom.2022.165952	Article		2-s2.0-85133418170	-	King Salman International University   Port Said University   Sohag University	3
Solar Chimney Performance Driven Air Ventilation Promotion: An Investigation of	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85178365158&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85178365158&amp;origin=resultslist</a>	10.3390/buildings13112796	Review	Gold	2-s2.0-85178365158	-	Buraydah Private Colleges   Port Said University	2

Various Configuration Parameters								
A Novel Circuit Configuration for the Integration of Modular Multilevel Converter With Large-Scale Grid-Connected PV Systems	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85181568590&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85181568590&amp;origin=resultslist</a>	10.1109/TEC.2023.3318565	Article		2-s2.0-85181568590	-	Swinburne University of Technology  University of Hail  Universiti Tenaga Nasional  Port Said University	4
High-performance 2D/3D hybrid dimensional p-n heterojunction solar cell with reduced recombination rate by an interfacial layer	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85139515840&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85139515840&amp;origin=resultslist</a>	10.1039/d2tc02548e	Article		2-s2.0-85139515840	-	Al-Azhar University  University of Sfax  King Khalid University  Port Said University  Riphah International University	5
A Novel Model Predictive Speed Controller for PMSG in Wind Energy Systems	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85129101612&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85129101612&amp;origin=resultslist</a>	-	Article		2-s2.0-85129101612	-	Port Said University	1
New Analysis Framework of Lyapunov-Based Stability for Hybrid Wind Farm Equipped with FRT: A Case Study of Egyptian Grid Code	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85107342988&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85107342988&amp;origin=resultslist</a>	10.1109/ACCESS.2021.3085173	Article	Gold	2-s2.0-85107342988	-	Suez Canal University  Port Said University	2
Electrical, dielectric, I-V and antimicrobial behavior of cobalt incapacitated Prussian blue graphene ferrites composite	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85131061472&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85131061472&amp;origin=resultslist</a>	10.1016/j.inoche.2022.109548	Article		2-s2.0-85131061472	-	University of Engineering and Technology Lahore  University of the Punjab  National University of Computer and Emerging Science  King Khalid University  Port Said University	5
Optical losses and durability of flawed Fresnel lenses for concentrated photovoltaic application	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85086444609&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85086444609&amp;origin=resultslist</a>	10.1016/j.matlet.2020.128145	Article	Green	2-s2.0-85086444609	-	Imam Abdulrahman Bin Faisal University  University of Exeter  Port Said University	3
Thermal annealing effect on the structural and optical characteristics of silicon phthalocyanine dichloride thin films	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85072624694&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85072624694&amp;origin=resultslist</a>	10.1016/j.jileo.2019.163459	Article		2-s2.0-85072624694	-	Suez Canal University  Port Said University	2
A retrofitting framework for improving curtain wall performance by the integration of adaptive technologies	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85176407845&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85176407845&amp;origin=resultslist</a>	10.1016/j.jobe.2023.107979	Article		2-s2.0-85176407845	-	Dar Al Uloom University  Port Said University	2
Optical component analysis for ultrahigh concentrated photovoltaic system (UHCPV)	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85115005968&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85115005968&amp;origin=resultslist</a>	10.1016/j.solener.2021.09.019	Article	Green	2-s2.0-85115005968	-	Imam Abdulrahman Bin Faisal University  University of Exeter  Port Said University	3
Highly Efficient MPP Tracker Based on Adaptive Neuro-fuzzy Inference System for Stand-Alone Photovoltaic Generator System	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85129093751&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85129093751&amp;origin=resultslist</a>	-	Article		2-s2.0-85129093751	-	Al-Azhar University  Peter the Great St. Petersburg Polytechnic University  Port Said University	3

Internal Power Balancing of an MMC-Based Large-Scale PV System Under Unbalanced Voltage Sags	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85192704523&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85192704523&amp;origin=resultslist</a>	10.1109/JESTPE.2024.3399395	Article		2-s2.0-85192704523	-	Presidency University   Swinburne University of Technology   Universiti Tenaga Nasional   Port Said University	4
Effect of (SbS) addition on the physical properties of quaternary (CdTe)100-x(SbS)x (0 ≤ x ≤ 28 at. %) glasses and band gap engineering	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85086568134&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85086568134&amp;origin=resultslist</a>	10.1007/s00339-020-03703-2	Article		2-s2.0-85086568134	-	University of Carthage   University of Sfax   King Khalid University   Port Said University	4
Effects of turbulence modelling on the predictions of the pressure distribution around the wing of a small scale vertical axis wind turbine	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85081056531&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85081056531&amp;origin=resultslist</a>	-	Conference Paper		2-s2.0-85081056531	-	Port Said University   University of Sheffield	2
Alloyed Ag <sub>2</sub> Se <sub>x</sub> S <sub>1-x</sub> quantum dots with red to NIR shift: The band gap tuning with dopant content for energy harvesting applications	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85077505893&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85077505893&amp;origin=resultslist</a>	10.1016/j.infrared.2019.103162	Article		2-s2.0-85077505893	-	Himachal Pradesh University   King Khalid University   Jaypee University of Information Technology   Port Said University	4
A reduced vector model predictive controller for a three-level neutral point clamped inverter with common-mode voltage suppression	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85197264531&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85197264531&amp;origin=resultslist</a>	10.1038/s41598-024-66013-0	Article	Gold   Green	2-s2.0-85197264531	38956412	University of El Oued   Graphic Era Hill University   University of Malaya   Swinburne University of Technology   Al Ahliyya Amman University   National Academy of Sciences of Ukraine   Graphic Era   Port Said University   NASU - Institute of Electrodynamics	9
Hybrid Floating Power Station driven by Renewable Energy for Saudi Arabia Coastal Areas	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85091905888&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85091905888&amp;origin=resultslist</a>	10.1109/ICECCE49384.2020.9179476	Conference Paper		2-s2.0-85091905888	-	National Water Research Center   Ministry of Water Resources & Irrigation   Port Said University	3
Recent Advances in Floating Photovoltaic Systems	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85173817115&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85173817115&amp;origin=resultslist</a>	10.1002/tcr.202300229	Review		2-s2.0-85173817115	37823687	Teesside University   Port Said University	2
Fabrication, carrier transport mechanisms and photovoltaic properties of Au/silicon phthalocyanine dichloride/p-Si/Al heterojunction device	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85091319350&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85091319350&amp;origin=resultslist</a>	10.1007/s11082-020-02546-8	Article		2-s2.0-85091319350	-	Suez Canal University   Port Said University	2
Physical properties and DFT calculations of the hybrid organic polymeric nanocomposite thin film [P(An+o-Aph)+Glycine/TiO <sub>2</sub> ]/H NC with 7.42% power conversion efficiency	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85128310264&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85128310264&amp;origin=resultslist</a>	10.1016/j.molstruc.2022.133001	Article		2-s2.0-85128310264	-	Ain Shams University   New Valley University   Aswan University   Northern Borders University   Qassim University   King Abdulaziz University   Port Said University	7
Simulation of glass fiber reinforced polypropylene nanocomposites for small wind turbine blades	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85104231550&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85104231550&amp;origin=resultslist</a>	10.3390/pr9040622	Article	Gold   Green	2-s2.0-85104231550	-	King Saud University   Zewail City of Science and Technology   Port Said University	3

Fabrication, characterization and optical properties of poly(p-phenylenediamine-co-o-aminophenol) nanostructure thin film	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85103351204&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85103351204&amp;origin=resultslist</a>	10.1007/s00339-021-04434-8	Article		2-s2.0-85103351204	-	Northern Borders University  King Abdulaziz University  Port Said University	3
Performance Enhancement of Solar Still Unit Using v-Corrugated Basin, Internal Reflecting Mirror, Flat-Plate Solar Collector and Nanofluids	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85183437837&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85183437837&amp;origin=resultslist</a>	10.3390/su16020655	Article	Gold   Green	2-s2.0-85183437837	-	American University of the Middle East  Suez Canal University  University of Oradea  University of the Witwatersrand  Port Said University	5
Surface modification of Co3O4 nanostructures using wide range of natural compounds from rotten apple juice for the efficient oxygen evolution reaction	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85146637798&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85146637798&amp;origin=resultslist</a>	10.1016/j.ijhydene.2023.01.072	Article	Green	2-s2.0-85146637798	-	King Saud University  NED University of Engineering and Technology  CNRS  University of Málaga  University of Sindh  Princess Nourah Bint Abdulrahman University  Université de Lorraine  Mehran University of Engineering & Technology  Port Said University	9
Experimental study on the motion response of an integrated floating desalination plant and offshore wind turbine on a non-ship platform	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85108684182&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85108684182&amp;origin=resultslist</a>	10.1016/j.oceaneng.2021.109275	Article		2-s2.0-85108684182	-	Ain Shams University  University of Strathclyde  Desert Research Center  Port Said University	4
Wind–water experimental analysis of small sc-darrieus turbine: An approach for energy production in urban systems	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85105987755&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85105987755&amp;origin=resultslist</a>	10.3390/su13095256	Article	Gold   Green	2-s2.0-85105987755	-	University of Oviedo  Port Said University	2
From seashells to sustainable energy: Trailblazing the utilization of Anadara uropigmelana shells for sustainable biohydrogen production from leftover cooking oil	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85182702080&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85182702080&amp;origin=resultslist</a>	10.1016/j.jece.2024.111914	Article		2-s2.0-85182702080	-	University of Sadat City  National Research Center  Alexandria University  Port Said University  Egyptian Propylene & Polypropylene Company	5
A demand side response scheme for enhancing power system security in the presence of wind power	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85141430579&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85141430579&amp;origin=resultslist</a>	10.1016/j.ijepes.2022.108714	Article		2-s2.0-85141430579	-	Hiroshima University  Port Said University	2
A study of 2H and 1T phases of Janus monolayers and their van der Waals heterostructure with black phosphorene for optoelectronic and thermoelectric applications	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85129388715&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85129388715&amp;origin=resultslist</a>	10.1016/j.jssc.2022.123159	Article		2-s2.0-85129388715	-	University of Electronic Science and Technology of China  Hazara University  King Khalid University  Port Said University	4
Fabrication and characterization of polypyrrole/multi-walled carbon nanotubes thin films	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85120002900&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85120002900&amp;origin=resultslist</a>	10.3390/polym13224045	Article	Gold   Green	2-s2.0-85120002900	-	New Valley University  Zewail City of Science and Technology  Alexandria University  King Abdulaziz University  Port Said University	5

using thermal evaporation								
Optoelectronic and photo response performance of n-tris phenylpyridinato iridium/p-Si heterojunction device for photovoltaic applications	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85170054418&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85170054418&amp;origin=resultslist</a>	10.1016/j.cjph.2023.03.025	Article		2-s2.0-85170054418	-	Damietta University  Port Said University	2
Study the Effect of Winglet Height Length on the Aerodynamic Performance of Horizontal Axis Wind Turbines Using Computational Investigation	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85164977103&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85164977103&amp;origin=resultslist</a>	10.3390/en16135138	Article	Gold   Green	2-s2.0-85164977103	-	Al-Fayoum University  Port Said University  Al Baha University	3
Maximum Power Extraction from Polymer Electrolyte Membrane (PEM) Fuel Cell Based on Deterministic Particle Swarm Optimization Algorithm	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85129527444&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85129527444&amp;origin=resultslist</a>	10.1109/EIConRus54750.2022.9755807	Conference Paper		2-s2.0-85129527444	-	Port Said University	1
Design and synthesis of high-performance polymer blend solar cell	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85181825108&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85181825108&amp;origin=resultslist</a>	10.1016/j.jmrt.2024.01.047	Article	Gold	2-s2.0-85181825108	-	New Valley University  Alexandria University  King Abdulaziz University  Port Said University	4
A simulation study of the effect of post-combustion amine-based carbon-capturing integrated with solar thermal collectors for combined cycle gas power plant	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85138793797&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85138793797&amp;origin=resultslist</a>	10.1007/s43621-021-00018-x	Article	Gold	2-s2.0-85138793797	-	The British University in Egypt  Port Said University	2
Synthesis, structural and optical characterizations of ZrO2-bromothymol blue nanocomposite thin-film [ZrO2+BTB]C and its application: experimental and TDD-DFT computations	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85136091042&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85136091042&amp;origin=resultslist</a>	10.1007/s10854-022-08869-4	Retracted		2-s2.0-85136091042	-	New Valley University  Tanta University  Northern Borders University  King Abdulaziz University  Port Said University  Assiut University	6
Two Bio-inspired MPPT Algorithms to Harvest the Maximum Power from Partially Shaded PV Arrays	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85129526979&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85129526979&amp;origin=resultslist</a>	10.1109/EIConRus54750.2022.9755769	Conference Paper		2-s2.0-85129526979	-	Port Said University	1
Forecasting wind power based on an improved al-Biruni Earth radius metaheuristic optimization algorithm	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85166394637&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85166394637&amp;origin=resultslist</a>	10.3389/fenrg.2023.1220085	Article	Gold	2-s2.0-85166394637	-	Ain Shams University  Mansoura University  Applied Science Private University  Middle East University, Jordan  Al Ahliyya Amman University  Mustaqbal University  Al al-Bayt University  Shaqra University  Princess Nourah Bint Abdulrahman University  Port Said University  Universiti Sains Malaysia	11
Forecasting Methods in Various Applications Using Algorithm of Estimation Regression	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85124276566&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85124276566&amp;origin=resultslist</a>	10.1155/2022/2631939	Article	Gold	2-s2.0-85124276566	-	Port Said University	1

Models and Converting Data Sets into Markov Model								
Waste Cooking Oil Management in Egypt: Production of Biodiesel- Development of Rapid Test Method	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85137181697&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85137181697&amp;origin=resultslist</a>	10.1088/1742-6596/2305/1/012035	Conference Paper	Gold	2-s2.0-85137181697	-	The British University in Egypt  Lancaster University  University of California at San Diego  University of Leeds  Port Said University	5
Experimental investigation of a nano coating efficiency for dust mitigation on photovoltaic panels in harsh climatic conditions	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85205605674&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85205605674&amp;origin=resultslist</a>	10.1038/s41598-024-72772-7	Article	Gold  Green	2-s2.0-85205605674	39362961	Port Said University	1
Enhanced biohydrogen production from thermally hydrolysed pulp and paper sludge via Al <sub>2</sub> O <sub>3</sub> and Fe <sub>3</sub> O <sub>4</sub> nanoparticles	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85202533771&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85202533771&amp;origin=resultslist</a>	10.1016/j.cherd.2024.08.019	Article		2-s2.0-85202533771	-	Cairo University  National Research Center  Western University  Port Said University	4
Probabilistic Assessment of Available Transfer Capability Incorporating Load and Wind Power Uncertainties	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85153533914&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85153533914&amp;origin=resultslist</a>	10.1109/ACCESS.2023.3268544	Article	Gold	2-s2.0-85153533914	-	Port Said University	1
Elastic moduli and theoretical estimations of physical properties of Ge <sub>3</sub> Se <sub>7</sub> -As <sub>2</sub> Te <sub>3</sub>	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85114738415&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85114738415&amp;origin=resultslist</a>	10.1016/j.cap.2021.08.013	Article		2-s2.0-85114738415	-	Majmaah University  University of Jeddah  Al-Azhar University  King Khalid University  Port Said University  Taif University	6
Furosemide drug as a corrosion inhibitor for carbon steel in 1.0 M hydrochloric acid	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85190821579&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85190821579&amp;origin=resultslist</a>	10.1038/s41598-024-58713-4	Article	Gold  Green	2-s2.0-85190821579	38643175	Mansoura University  Port Said University	2
Combined experimental and TDDFT computational studies of the optical and electrical characteristic of luminol films-doped TiO <sub>2</sub> with 9.027% power conversion efficiency	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85123076782&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85123076782&amp;origin=resultslist</a>	10.1007/s10854-022-07713-z	Retracted		2-s2.0-85123076782	-	Ain Shams University  New Valley University  Aswan University  Northern Borders University  Qassim University  King Abdulaziz University  Port Said University	7
Improving Power Quality Problems of Isolated MG Based on ANN Under Different Operating Conditions Through PMS and ASSC Integration	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85169704544&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85169704544&amp;origin=resultslist</a>	10.1109/ACCESS.2023.3311369	Article	Gold	2-s2.0-85169704544	-	El Shorouk Academy  Suez Canal University  King Khalid University  Port Said University  Egyptian Propylene & Polypropylene Company	5
Enhancing Misalignment Tolerance Using Naturally Decoupled Identical Dual-Transmitter-Dual-Receiver Coils for Wireless EV Charging System	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85201747066&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85201747066&amp;origin=resultslist</a>	10.1109/JESTPE.2024.3447286	Article		2-s2.0-85201747066	-	Presidency University  University of Malaya  Swinburne University of Technology  Port Said University	4

Effect of the decrease of Pb concentration on the properties of pentamary mixed-halide perovskites CsPb8-xSnxIBr2 and CsPb8-xSnxI2Br (1xs7) for solar-cell applications: A DFT study	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85117083113&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85117083113&amp;origin=resultslist</a>	10.1016/j.jpccs.2021.110429	Article		2-s2.0-85117083113	-	Allama Iqbal Open University   Northwestern Polytechnical University Xian   University of Ioannina   King Khalid University   Port Said University	5
Reliability and temperature limits of the focal spot of a primary optical component for an ultra-high concentrated photovoltaic system	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85138278171&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85138278171&amp;origin=resultslist</a>	10.1063/5.0099091	Conference Paper	Hybrid gold	2-s2.0-85138278171	-	Imam Abdulrahman Bin Faisal University   University of Exeter   Port Said University	3
Exploring critical barriers towards the uptake of renewable energy usage in Egypt	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85196147339&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85196147339&amp;origin=resultslist</a>	10.1007/s41062-024-01578-3	Article		2-s2.0-85196147339	-	Ain Shams University   Purdue University   Future University in Egypt   Port Said University	4
Experimental and Numerical Performance Assessment of East-West Bifacial Photovoltaic Floating System in Freshwater Basins	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85204945766&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85204945766&amp;origin=resultslist</a>	10.1109/ACCESS.2024.3468228	Article	Gold	2-s2.0-85204945766	-	Enel   University of Catania   Port Said University	3
Coupling DFIG-Based Wind Turbines with the Grid under Voltage Imbalance Conditions	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85129051787&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85129051787&amp;origin=resultslist</a>	10.3390/su14095076	Article	Gold   Green	2-s2.0-85129051787	-	Saint Mary's University Halifax   University of Sharjah   University of Wisconsin-Milwaukee   Beijing Institute of Technology   Port Said University   Assiut University	6
Simulating mitigation scenarios for natural and artificial inlets closure through validated morphodynamic models	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85122807644&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85122807644&amp;origin=resultslist</a>	10.1016/j.rsma.2021.101991	Article		2-s2.0-85122807644	-	Mansoura University   University of California Division of Agriculture and Natural Resources   Al Jouf University   Institute of Science Tokyo   Port Said University	5
A novel renewable energy powered zero liquid discharge scheme for RO desalination applications	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85164359844&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85164359844&amp;origin=resultslist</a>	10.1016/j.cscee.2023.100407	Article	Gold	2-s2.0-85164359844	-	The British University in Egypt   Missouri University of Science and Technology   Port Said University	3
Graphical analysis and revamping of crude distillation units under variable operational scenarios	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85173515245&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85173515245&amp;origin=resultslist</a>	10.1016/j.cscee.2023.100490	Article	Gold	2-s2.0-85173515245	-	Cairo University   Missouri University of Science and Technology   University College London   Port Said University	4
Technical and economic feasibility of the first wind farm on the coast of Mediterranean Sea	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85099624275&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85099624275&amp;origin=resultslist</a>	10.1016/j.asej.2020.10.017	Article	Gold	2-s2.0-85099624275	-	Port Said University	1
Comprehensive Optimisation of Biodiesel Production Conditions via Supercritical	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85130763201&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85130763201&amp;origin=resultslist</a>	10.3390/en15103766	Article	Gold   Green	2-s2.0-85130763201	-	The British University in Egypt   London South Bank University   Lancaster University   University of Leeds   Port Said University	5



Methanolysis of Waste Cooking Oil								
Impact of indium content on the thermoelectric power, dark conductivity, and photoconductivity of Ge-As-Te thin films	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85078838912&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85078838912&amp;origin=resultslist</a>	10.1007/s00339-020-3321-2	Article		2-s2.0-85078838912	-	University of Carthage  University of Jeddah  University of Monastir  Al-Azhar University  University of Sfax  King Khalid University  Port Said University	7
A fuzzy-predictive current control with real-time hardware for PEM fuel cell systems	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85209105764&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85209105764&amp;origin=resultslist</a>	10.1038/s41598-024-78030-0	Article	Gold Green	2-s2.0-85209105764	39511308	Swinburne University of Technology  University of Business and Technology  Al Ahliyya Amman University  Universiti Tenaga Nasional  National Academy of Sciences of Ukraine  Graphic Era  Ferhat Abbas Sétif University 1  Port Said University  NASU - Institute of Electrodynamics	9
Hybrid compressed air energy storage system and control strategy for a partially floating photovoltaic plant	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85209375212&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85209375212&amp;origin=resultslist</a>	10.1016/j.energy.2024.133706	Article		2-s2.0-85209375212	-	University of Strathclyde  Port Said University	2
Real-time V2G simulator for grid system frequency and voltage regulation with fault ride-through capabilities	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85196419889&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85196419889&amp;origin=resultslist</a>	10.1016/j.epr.2024.110561	Article		2-s2.0-85196419889	-	Suez Canal University  Port Said University	2
Environmentally-driven design of a floating desalination platform (Case study: Reverse osmosis floating desalination platform of ras gharib, Egypt)	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85108560360&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85108560360&amp;origin=resultslist</a>	10.3934/energy.2021030	Article	Gold	2-s2.0-85108560360	-	University of Strathclyde  Desert Research Center  Arab Academy for Science, Technology and Maritime Transport  Port Said University  Princeton University	5
Advanced Maximum Adhesion Tracking Strategies in Railway Traction Drives	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85171563420&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85171563420&amp;origin=resultslist</a>	10.1109/TTE.2023.3312621	Article	Green	2-s2.0-85171563420	-	Ingeteam  University of Oviedo  Port Said University	3
Offshore wind power integration to support weak grid voltage for industrial loads using VSC-HVDC transmission system	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85101165908&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85101165908&amp;origin=resultslist</a>	10.11591/ijece.v11i3.pp1876-1885	Article	Gold Green	2-s2.0-85101165908	-	Port Said University	1
Power performance assessment of vertical-axis tidal turbines using an experimental test rig	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85117273592&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85117273592&amp;origin=resultslist</a>	10.3390/en14206686	Article	Gold Green	2-s2.0-85117273592	-	University of Oviedo  University of Santiago de Compostela  Port Said University	3
A Modified Phase Shift Control of the Dual Active Bridge-Based Modular Power Electronic Transformer to Minimize the LVdc Side Voltage Ripples under Unbalanced Load Conditions	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85135754605&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85135754605&amp;origin=resultslist</a>	10.1109/ACCESS.2022.3195941	Article	Gold Green	2-s2.0-85135754605	-	Arab Academy for Science, Technology and Maritime Transport  Glasgow Caledonian University  Port Said University	3
Gamma radiation induced variation in structure formation and optical characteristics of evaporated tris [2-phenylpyridinato-C2,N]iridium(III) films prepared by electron	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85148449420&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85148449420&amp;origin=resultslist</a>	10.1088/1402-4896/acb5cd	Article	Hybrid gold	2-s2.0-85148449420	-	Port Said University	1

beam evaporator in photovoltaic applications								
The Validation and Implementation of the Second-Order Adaptive Fuzzy Logic Controller of a Double-Fed Induction Generator in an Oscillating Water Column	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85183428937&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85183428937&amp;origin=resultslist</a>	10.3390/electronics13020291	Article	Gold   Green	2-s2.0-85183428937	-	Suez Canal University   Menoufia University   King Abdulaziz University   Port Said University	4
Life cycle assessments of biofuel production from beach-cast seaweed by pyrolysis and hydrothermal liquefaction	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85197562908&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85197562908&amp;origin=resultslist</a>	10.1016/j.ecmx.2024.100647	Article	Gold	2-s2.0-85197562908	-	Perm National Research Polytechnic University   Port Said University	2
Tunable electronic and magnetic properties of single layer CdS via Li substitutional doping: A first-principle study	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85115632845&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85115632845&amp;origin=resultslist</a>	10.1016/j.jpccs.2021.110380	Article		2-s2.0-85115632845	-	National University of Sciences and Technology Pakistan   King Khalid University   Xi'an Jiaotong University   Port Said University   Riphah International University	5
Efficiency of utilizing building information modeling tools for examining smart materials behavior in a hot climate	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85187960777&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85187960777&amp;origin=resultslist</a>	10.1016/j.job.2024.108924	Article		2-s2.0-85187960777	-	Port Said University	1
Electronic, optical and magnetic characteristics of v doped BeS	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85130139326&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85130139326&amp;origin=resultslist</a>	10.1088/1402-4896/ac6910	Article		2-s2.0-85130139326	-	University of Agriculture Faisalabad   Al-Azhar University   Princess Nourah Bint Abdulrahman University   King Khalid University   Port Said University	5
Numerical Investigations on Latent Heat Storage Unit using Phase Change Material	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85090201773&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85090201773&amp;origin=resultslist</a>	10.1088/1742-6596/1565/1/012099	Conference Paper	Gold	2-s2.0-85090201773	-	Saint Petersburg Mining University   Port Said University	2
Distortion management of the pulse without and in the presence of Compton scattering in a three level atomic configuration	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85110230740&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85110230740&amp;origin=resultslist</a>	10.1140/epjp/s13360-021-01721-4	Article		2-s2.0-85110230740	-	Hazara University   University of Malakand   King Khalid University   Port Said University	4
High-Performance Glazing for Enhancing Sustainable Environment in Arid Region's Healthcare Projects	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85160662737&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85160662737&amp;origin=resultslist</a>	10.3390/buildings13051243	Article	Gold   Green	2-s2.0-85160662737	-	King Faisal University   Port Said University   Helwan University	3
Proposed hybrid power system for short route ferries	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85092172651&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85092172651&amp;origin=resultslist</a>	10.17818/NM/2020/3.6	Article	Gold   Green	2-s2.0-85092172651	-	Port Said University	1
Maximum Power Point Tracking for Grid-tied PV System Using Adaptive Neuro-Fuzzy Inference System	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85124808279&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85124808279&amp;origin=resultslist</a>	10.1109/ICOECS52783.2021.9657445	Conference Paper		2-s2.0-85124808279	-	Al-Azhar University   Peter the Great St. Petersburg Polytechnic University   Port Said University	3
Peridynamic Modelling of Propagation of Cracks in Photovoltaic Panels	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85134562563&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85134562563&amp;origin=resultslist</a>	10.1016/j.prostr.2022.05.036	Conference Paper	Gold	2-s2.0-85134562563	-	University of Strathclyde   Port Said University	2

A novel EPSO algorithm based on shifted sigmoid function parameters for maximizing the energy yield from photovoltaic arrays: An experimental investigation	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85204569121&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85204569121&amp;origin=resultslist</a>	10.1016/j.rineng.2024.102967	Article	Gold	2-s2.0-85204569121	-	Peter the Great St. Petersburg Polytechnic University   Port Said University   Northern Technical University	3
Enhancement of the performance of wireless sensor networks using the multihop multiantenna power beacon path selection method in intelligent structures	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85141892481&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85141892481&amp;origin=resultslist</a>	10.1371/journal.pone.0276940	Article	Gold   Green	2-s2.0-85141892481	36342904	Mansoura University   Port Said University	2
Switching schemes of the bidirectional buck-boost converter for energy storage system	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85101994719&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85101994719&amp;origin=resultslist</a>	10.1109/VPPC49601.2020.9330869	Conference Paper		2-s2.0-85101994719	-	University of Oviedo   Port Said University	2
Optimal performance of actuator disc models for horizontal-axis turbines	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85142139013&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85142139013&amp;origin=resultslist</a>	10.3389/fenrg.2022.971177	Article	Gold	2-s2.0-85142139013	-	University of Calgary   Port Said University	2
Techno-economic assessment of vertical axis wind turbine driven RO desalination with compressed air energy storage for remote communities	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85203533080&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85203533080&amp;origin=resultslist</a>	10.1016/j.jdesal.2024.118094	Article	Hybrid gold	2-s2.0-85203533080	-	Port Said University   University of Sheffield   Taif University	3
Highly flexible wind turbine blades utilizing corrugated surface hinges	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85107544387&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85107544387&amp;origin=resultslist</a>	10.3390/coatings11060635	Article	Gold   Green	2-s2.0-85107544387	-	Port Said University	1
Electrical properties of ternary Cux(Ge3Se7)100-x thin films	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85096550086&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85096550086&amp;origin=resultslist</a>	10.1016/j.jileo.2020.165919	Article		2-s2.0-85096550086	-	Majmaah University   South Valley University   University of Jeddah   Al-Azhar University   King Khalid University   Port Said University   Taif University	7
Enhanced biodiesel production with improved oxidation stability by water addition to supercritical methanolysis	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85135065587&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85135065587&amp;origin=resultslist</a>	10.1002/cjce.24475	Article		2-s2.0-85135065587	-	The British University in Egypt   London South Bank University   Lancaster University   University of Leeds   Port Said University	5
Mechanical properties and band gap estimations of stoichiometric GeSe2-As2Se3 glasses	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85111297156&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85111297156&amp;origin=resultslist</a>	10.1016/j.jileo.2021.167693	Article		2-s2.0-85111297156	-	Majmaah University   University of Jeddah   Al-Azhar University   King Khalid University   Port Said University   Taif University	6
Forecasting of Short-Term and Long-Term Wind Speed of Ras-Gharib Using Time Series Analysis	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85151542178&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85151542178&amp;origin=resultslist</a>	10.20508/ijrer.v13i1.13785.g8680	Article	Gold	2-s2.0-85151542178	-	Port Said University	1
Synthesis and evaluation of core-shell nanocomposites for the photodegradation of liner alkyl-benzene	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85173728173&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85173728173&amp;origin=resultslist</a>	10.1007/s13762-023-05181-4	Article	Hybrid gold	2-s2.0-85173728173	-	Port Said University	1

sulfonate water contaminations								
Techno-economic assessment of a novel wind-powered RO system with a compressed air energy storage for water desalination	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85205918489&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85205918489&amp;origin=resultslist</a>	10.1016/j.energy.2024.133296	Article		2-s2.0-85205918489	-	University of the Witwatersrand   Port Said University  University of Sheffield   Taif University	4
Experimental Validation of Second-Order Adaptive Fuzzy Logic Controller for Grid-Connected DFIG Wind Power Plant	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85179584978&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85179584978&amp;origin=resultslist</a>	10.1109/ACCESS.2023.3337829	Article	Gold	2-s2.0-85179584978	-	Suez Canal University  Menoufia University   Port Said University	3
Polymeric solar cell with 18.06% efficiency based on poly(para-nitroaniline)/TiO2 composites	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85146710565&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85146710565&amp;origin=resultslist</a>	10.1016/j.optmat.2023.113502	Article		2-s2.0-85146710565	-	New Valley University  Alexandria University  King Abdulaziz University  Port Said University	4
Assessment of Onshore Renewable Energy Power Supply for Ship's Emissions Reduction in Port Said West Port	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85194177973&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85194177973&amp;origin=resultslist</a>	10.1007/s11804-024-00423-4	Article		2-s2.0-85194177973	-	Port Said University	1
A novel hybrid compact system of photovoltaic solar still air gap membrane distillation for the simultaneous production of water and energy	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85162086970&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85162086970&amp;origin=resultslist</a>	10.5004/dwt.2023.29493	Article	Bronze	2-s2.0-85162086970	-	Armenian National Agrarian University  The Public Authority of Applied Education and Training  Port Said University	3
Evaluating BIPV Façades in a Building Envelope in Hot Districts for Enhancing Sustainable Ranking: A Saudi Arabian Perspective	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85160610723&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85160610723&amp;origin=resultslist</a>	10.3390/buildings13051110	Article	Gold   Green	2-s2.0-85160610723	-	King Faisal University  Port Said University  Helwan University	3
AN APPROXIMATION OF USING VERTICAL-AXIS TIDAL TURBINE FOR WATER DESALINATION IN THE SUEZ CANAL WATERWAY	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85140788437&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85140788437&amp;origin=resultslist</a>	10.1115/ES2022-85533	Conference Paper		2-s2.0-85140788437	-	University of Oviedo   Port Said University	2
The Effect of Novel Longitudinal Branched Fins on the Performance of the Latent Heat Accumulator based on Shell-and-Tube Configuration	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85165150174&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85165150174&amp;origin=resultslist</a>	10.20508/ijrer.v13i2.13836.g8752	Article	Gold	2-s2.0-85165150174	-	Saint Petersburg Mining University  Port Said University	2
Design and implementation of voltage source converters in HVDC systems	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85090885181&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85090885181&amp;origin=resultslist</a>	-	Chapter		2-s2.0-85090885181	-	Suez University   Port Said University	2

Enhancing the Performance of the Output Active Power of DFIG-Based Wind Turbines Using Auto Disturbance Rejection Control	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85129541277&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85129541277&amp;origin=resultslist</a>	10.1109/ElConRus54750.2022.9755541	Conference Paper		2-s2.0-85129541277	-	University of Sharjah   Beijing Institute of Technology   Port Said University	3
Increased efficiency of hydrokinetic turbines through the use of an obstacle on the channel bottom	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85140275054&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85140275054&amp;origin=resultslist</a>	10.1016/j.oceaneng.2022.112872	Article	Hybrid gold	2-s2.0-85140275054	-	University of Oviedo   Port Said University	2
Neural Fuzzy Control of the Indoor Air Quality Onboard a RO-RO Ship Garage	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85079746860&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85079746860&amp;origin=resultslist</a>	10.1007/s40815-020-00804-1	Article		2-s2.0-85079746860	-	Arab Academy for Science, Technology and Maritime Transport   Alexandria University   Port Said University	3
Investigating the Kinetic Parameters in the Thermal Analysis of Jojoba Cake	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85164573954&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85164573954&amp;origin=resultslist</a>	10.21608/EJCHEM.2022.160576.6924	Article	Bronze	2-s2.0-85164573954	-	Cairo University   Port Said University	2
Synthesis, Structural, Time-Dependent Density-Functional Theory, Thermal Annealing and Optical Properties for Doped Polymer Nanostructured Thin Films as Optoelectronic Devices	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85124474777&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85124474777&amp;origin=resultslist</a>	10.7317/pk.2021.45.4.541	Article		2-s2.0-85124474777	-	Northern Borders University   King Abdulaziz University   Port Said University	3
Design and Three-Dimensional Simulation of a Solar Dish-Stirling Engine	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85105243245&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85105243245&amp;origin=resultslist</a>	10.37934/arfmts.82.1.5176	Article	Hybrid gold	2-s2.0-85105243245	-	Port Said University	1
Experimental and numerical investigation of a three-blade horizontal axis hydrokinetic water turbine (HAHWT) in high blockage conditions	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85206661413&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85206661413&amp;origin=resultslist</a>	10.1016/j.renene.2024.121640	Article		2-s2.0-85206661413	-	University of Oviedo   University of Naples Federico II   Port Said University	3
PVSails: Harnessing Innovation With Vertical Bifacial PV Modules in Floating Photovoltaic Systems	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85201553367&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85201553367&amp;origin=resultslist</a>	10.1002/pip.3841	Article	Hybrid gold	2-s2.0-85201553367	-	University of Catania   Port Said University	2
Experimental and Simulation Study of Solar-Powered Air-Gap Membrane Distillation Technology for Water Desalination	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85175008951&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85175008951&amp;origin=resultslist</a>	10.3390/membranes13100821	Article	Gold   Green	2-s2.0-85175008951	-	King Saud University   Suez Canal University   University of Oradea   Université d'ain Témouchent, Belhadj Bouchaib   University of the Witwatersrand   Port Said University	6
A Centralized Protection Scheme for Microgrids with Artificial Neural Network-Based on Fault Detection and Location	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85147704509&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85147704509&amp;origin=resultslist</a>	10.1109/MEPCON55441.2022.10021790	Conference Paper		2-s2.0-85147704509	-	Port Said University	1

Critical Assessment of Current State of the Art in Wearable Sensor Nodes with Energy Harvesting Systems for Healthcare Applications	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85142015859&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85142015859&amp;origin=resultslist</a>	10.1007/978-3-031-18344-7_27	Conference Paper		2-s2.0-85142015859	-	Swansea University   Karlsruhe Institute of Technology   Port Said University	3
A Comparative Study of Two Metaheuristic MPPT Techniques to Extract Maximum Power from PV Array under Different Partial Shading Patterns	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85160212658&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85160212658&amp;origin=resultslist</a>	10.1109/CPERE56564.2023.10119626	Conference Paper		2-s2.0-85160212658	-	Port Said University	1
Vsc-hvdc control system	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85090908326&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85090908326&amp;origin=resultslist</a>	10.1007/978-3-030-51661-1_3	Chapter		2-s2.0-85090908326	-	Suez University   Port Said University	2
Fuzzy Logic-Pitch Angle Controller for SCIG based Wind Turbine	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85123279874&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85123279874&amp;origin=resultslist</a>	10.1109/AUPEC52110.2021.9597776	Conference Paper		2-s2.0-85123279874	-	Suez Canal University   Port Said University	2
An Integrated Approach for Demand Response and Wind Curtailment Management in Distribution Systems	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85165146758&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85165146758&amp;origin=resultslist</a>	10.20508/ijrer.v13i2.14197.g8734	Article	Gold	2-s2.0-85165146758	-	Port Said University	1
Aeroelastic modelling of tail fins for small wind turbines	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85131898923&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85131898923&amp;origin=resultslist</a>	10.1088/1742-6596/2265/4/042073	Conference Paper	Gold	2-s2.0-85131898923	-	University of Calgary   Port Said University	2
DFT Study of Lead-Free Mixed-Halide Materials Cs <sub>2</sub> X <sub>2</sub> Y <sub>2</sub> (X, Y = F, Cl, Br, I) for Optoelectronic Applications	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85110831562&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85110831562&amp;origin=resultslist</a>	10.1007/s11664-021-09083-4	Article		2-s2.0-85110831562	-	Allama Iqbal Open University   University of Ioannina   King Khalid University   Port Said University	4
Hybrid MPPT-based predictive speed control model for variable speed PMSG wind energy conversion systems	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85162790136&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85162790136&amp;origin=resultslist</a>	10.11591/ijape.v11i3.pp218-228	Article	Gold	2-s2.0-85162790136	-	Port Said University	1
Production and characterization of bio-oil from camelthorn plant using slow pyrolysis	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85201613279&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85201613279&amp;origin=resultslist</a>	10.1007/s10973-024-13551-4	Article		2-s2.0-85201613279	-	The British University in Egypt   University of the Witwatersrand   Port Said University	3
Performance Assessment of Artificial Neural Networks-Based MPPT Technique for Photovoltaic Systems	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85197786499&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85197786499&amp;origin=resultslist</a>	10.1109/ICEENG58856.2024.10566372	Conference Paper		2-s2.0-85197786499	-	Port Said University	1
Optimal Energy Management of VPP-Based Energy Storage Considering Renewable Energy Integration and EV Charging	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-105001577459&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-105001577459&amp;origin=resultslist</a>	10.1109/MEPCON63025.2024.10850133	Conference Paper		2-s2.0-105001577459	-	Port Said University	1
Surface plasmon polariton at the interface of dielectric and graphene medium	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85132400870&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85132400870&amp;origin=resultslist</a>	10.1088/1555-6611/ac6ac4	Article		2-s2.0-85132400870	-	Hazara University   King Khalid University   Port Said University	3

using the Doppler broadening effect								
Geometrically nonlinear transient analysis of Timoshenko tapered beam-column element using a finite element formulation based on the exact shape functions	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-8515240694&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-8515240694&amp;origin=resultslist</a>	10.1080/15397734.2023.2194381	Article		2-s2.0-85152406945	-	Suez Canal University  Port Said University	2
Efficient offloading and task scheduling in internet of things-cloud-fog environment	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85195222440&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85195222440&amp;origin=resultslist</a>	10.11591/ijece.v14i4.pp4445-4455	Article	Gold	2-s2.0-85195222440	-	Suez Canal University  Port Said University	2
First principle study of er, co-doped fe and yb of nabif6; a promising materials for optoelectronic and transport properties; probed by dft	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-8511125876&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-8511125876&amp;origin=resultslist</a>	-	Article		2-s2.0-8511125876	-	Abdul Wali Khan University Mardan  National University of Sciences and Technology Pakistan  Hazara University  University of Swabi  King Khalid University  Port Said University  The Government Sadiq College Women University Bahawalpur  Riphah International University	8
Hybrid concentrator photovoltaic/membrane distillation system for potable water production using new fabricated PS/ZIF_L membrane	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85160813966&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85160813966&amp;origin=resultslist</a>	10.1016/j.jwpe.2023.103872	Article		2-s2.0-85160813966	-	City for Scientific Research and Technology Applications  Egypt-Japan University of Science and Technology  Mansoura University  Aswan University  Alexandria University  Kyushu University  Port Said University	7
Oleaginous fungi as a sustainable source for biodiesel production: Current and future prospect	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85167091247&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85167091247&amp;origin=resultslist</a>	10.21608/MB.2023.305659	Review	Gold	2-s2.0-85167091247	-	Suez Canal University  Port Said University  University of The Free State	3
Optimal planning for sustainable and cost-effective power generation on the Red Sea coast	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85094628579&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85094628579&amp;origin=resultslist</a>	10.1016/j.seta.2020.100891	Article		2-s2.0-85094628579	-	Port Said University	1
Thin film synthesis and photovoltaic performance of polypyrrole@cobalt hydroxide composites for solar cells and optoelectronic devices	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85206146062&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85206146062&amp;origin=resultslist</a>	10.1016/j.solmat.2024.113217	Article		2-s2.0-85206146062	-	New Valley University  Aswan University  Alexandria University  King Abdulaziz University  Port Said University	5
The nonlinear behavior of generic tail fins for small wind turbines	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85206495086&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85206495086&amp;origin=resultslist</a>	10.1063/5.0217729	Article	Green	2-s2.0-85206495086	-	United States Department of Energy  University of Massachusetts  National Renewable Energy Laboratory  University of Perugia  University of Calgary  Port Said University	6
Finite Element Analysis for Dynamic Simulation of Composite HAWT Blade	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85165175705&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85165175705&amp;origin=resultslist</a>	10.20508/ijrer.v13i2.13914.g8754	Article	Gold	2-s2.0-85165175705	-	Port Said University	1
High-voltage direct current transmission	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85090905236&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85090905236&amp;origin=resultslist</a>	10.1007/978-3-030-51661-1_2	Chapter		2-s2.0-85090905236	-	Suez University  Port Said University	2
A solar energy-based shore side power system for a ferry service across the Suez Canal	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85168089918&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85168089918&amp;origin=resultslist</a>	10.1080/17445302.2023.2245187	Article		2-s2.0-85168089918	-	University of Southampton  National Oceanography Centre  Port Said University	3

African vulture optimizer algorithm for fuzzy logic speed controller of fuel cell electric vehicle	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85198382045&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85198382045&amp;origin=resultslist</a>	10.11591/ijped.v15.i3.pp1348-1357	Article	Gold   Green	2-s2.0-85198382045	-	Suez Canal University   King Abdulaziz University   Port Said University	3
Vsc-hvdc under ac and dc fault conditions	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85090916824&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85090916824&amp;origin=resultslist</a>	10.1007/978-3-030-51661-1_4	Chapter		2-s2.0-85090916824	-	Suez University   Port Said University	2
Photovoltaic-Powered Smart Aquaponic System: Integrating IoT and AI for Sustainable Food Production and Fish Health Management	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85202342922&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85202342922&amp;origin=resultslist</a>	10.1109/ITC-Egypt61547.2024.10620487	Conference Paper		2-s2.0-85202342922	-	Port Said University	1
Experimental Examination of Enhanced Nanoceramic-Based Self-Cleaning Sprays for High-Efficiency Hydrophobic Photovoltaic Panels	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85207671308&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85207671308&amp;origin=resultslist</a>	10.3390/coatings14101239	Article	Gold	2-s2.0-85207671308	-	The British University in Egypt   Cairo University   Port Said University	3
Protection of Wind Turbine Generators Using Microcontroller-Based Applications	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85124553901&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85124553901&amp;origin=resultslist</a>	-	Chapter		2-s2.0-85124553901	-	Suez University   Port Said University	2
INTERNET OF ENERGY APPLIED TO WATER HYDROKINETIC SMART-GRIDS: A TEST RIG EXAMPLE	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85140763782&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85140763782&amp;origin=resultslist</a>	10.1115/ES2022-85552	Conference Paper		2-s2.0-85140763782	-	University of Oviedo   Port Said University	2
SM-BIM: A NEW CONCEPTUAL FRAMEWORK FOR MULTI-CRITERIA DECISION-MAKING PROCESS BASED ON SMART MATERIALS AND BUILDING INFORMATION MODELING	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85194381635&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85194381635&amp;origin=resultslist</a>	10.3992/jgb.19.2.163	Article		2-s2.0-85194381635	-	Port Said University	1
Estimating the energy consumption for residential buildings in semiarid and arid desert climate using artificial intelligence	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85195997495&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85195997495&amp;origin=resultslist</a>	10.1038/s41598-024-63843-w	Article	Gold   Green	2-s2.0-85195997495	3887171	Future University in Egypt   Port Said University	2
Graphical Revamping of a Crude Distillation Unit under Two Variable Operational Scenarios - Naphtha Stabilizer and Reformer Operated	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85139412791&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85139412791&amp;origin=resultslist</a>	10.3303/CET2294204	Article		2-s2.0-85139412791	-	The British University in Egypt   Cairo University   University of California at San Diego   Port Said University	4
Static and dynamic analysis of a new offshore wind turbine system supported with outriggers	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85193984985&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85193984985&amp;origin=resultslist</a>	10.1080/15397734.2024.2356062	Article		2-s2.0-85193984985	-	Suez Canal University   Port Said University	2
Performance Assessment of T-Source Inverter Fed	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85147697534&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85147697534&amp;origin=resultslist</a>	10.1109/MEPCON55441.2022.10021742	Conference Paper		2-s2.0-85147697534	-	Menoufia University   Port Said University	2



Induction Motor Drives Based on Photovoltaics								
Conversion of Fish Waste Oil into Biofuel: An Experimental Study	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-8520586845&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-8520586845&amp;origin=resultslist</a>	10.33263/LIANBS133.108	Article	Gold	2-s2.0-85205868455	-	The British University in Egypt  Missouri University of Science and Technology  University of the Witwatersrand  Port Said University	4
Study Network Reconfiguration Using Optimization Techniques to Improve Voltage Stability	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85113972747&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85113972747&amp;origin=resultslist</a>	10.1109/ITC-Egypt52936.2021.9513917	Conference Paper		2-s2.0-85113972747	-	Alexandria University  Port Said University	2
Estimation of density of charged defect states in some glasses of SeTeSnPb system using low-temperature d.c. conductivity measurements	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85103099931&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85103099931&amp;origin=resultslist</a>	10.1007/s10854-021-05614-1	Article		2-s2.0-85103099931	-	GLA University  Banaras Hindu University  King Khalid University  Port Said University	4
Power grids with renewable energy: Storage, integration and digitalization	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85114563620&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85114563620&amp;origin=resultslist</a>	-	Book		2-s2.0-85114563620	-	University of Calgary  Port Said University	2
Green Hydrogen Production from Ethanol Electrolysis Using Co/Ni Bimetallic Nanoparticles- Incorporated Carbon Nanofibers	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85218351330&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85218351330&amp;origin=resultslist</a>	10.1134/S1070427224060065	Article		2-s2.0-85218351330	-	Minia University  Port Said University	2
Experimentally validated simplified prediction model of unloaded spar-buoy wave energy converter motions' responses in waves	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85132668625&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85132668625&amp;origin=resultslist</a>	10.1177/09576509221098482	Article		2-s2.0-85132668625	-	University of Strathclyde  Arab Academy for Science, Technology and Maritime Transport  Port Said University	3
Joint Reflection Design and Channel Estimation for Intelligent Reflective Surfaces	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85202349067&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85202349067&amp;origin=resultslist</a>	10.1109/ITC-Egypt61547.2024.10620460	Conference Paper		2-s2.0-85202349067	-	Delta University for Science and Technology  Port Said University	2
Protective Schemes for Induction Generator	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85124557926&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85124557926&amp;origin=resultslist</a>	10.1007/978-3-030-92628-1_3	Chapter		2-s2.0-85124557926	-	Suez University  Port Said University	2
Conclusions and Future Work	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85124514035&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85124514035&amp;origin=resultslist</a>	10.1007/978-3-030-92628-1_7	Chapter		2-s2.0-85124514035	-	Suez University  Port Said University	2
Vsc-hvdc simulation results	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85090904316&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85090904316&amp;origin=resultslist</a>	10.1007/978-3-030-51661-1_5	Chapter		2-s2.0-85090904316	-	Suez University  Port Said University	2
Diagnostic Strategies for Microturbines Operating Status Applied to Predictive Maintenance: Experimental Test Case	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85177442718&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85177442718&amp;origin=resultslist</a>	10.1115/GT2023-104182	Conference Paper		2-s2.0-85177442718	-	University of Oviedo  Port Said University	2
Co-Flow Jet Effects on the Aerodynamic Performance of National Renewable Energy Laboratory	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85208975413&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85208975413&amp;origin=resultslist</a>	10.12912/27197050/194127	Article	Hybrid gold	2-s2.0-85208975413	-	Al-Azhar University  Port Said University	2

Aerofoils with Different Thicknesses for Wind Turbine Applications								
Wind Tunnel and OpenFOAM Flow Analysis of A High Solidity Vertical-Axis Wind Turbine	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85177461441&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85177461441&amp;origin=resultslist</a>	10.1115/GT2023-103527	Conference Paper		2-s2.0-85177461441	-	University of Oviedo   Port Said University	2
High-Power Three-Port Converter for Efficient EV Fast Charging Using Partial Power Processing	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-105006524454&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-105006524454&amp;origin=resultslist</a>	10.1109/PEDES61459.2024.10961745	Conference Paper		2-s2.0-105006524454	-	University of Malaya   Swinburne University of Technology   University of Hail   Port Said University	4
Conclusions and future work	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85090901086&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85090901086&amp;origin=resultslist</a>	10.1007/978-3-030-51661-1_7	Chapter		2-s2.0-85090901086	-	Suez University   Port Said University	2
Experimental Setups and Results for Digital Relay Protection	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85124540895&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85124540895&amp;origin=resultslist</a>	10.1007/978-3-030-92628-1_6	Chapter		2-s2.0-85124540895	-	Suez University   Port Said University	2
Solar wind effect on the multi-fluid plasma expansion in the Venusian upper ionosphere	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85194057294&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85194057294&amp;origin=resultslist</a>	10.1051/0004-6361/202245773	Article	Hybrid gold   Green	2-s2.0-85194057294	-	The British University in Egypt   Arab Academy for Science, Technology and Maritime Transport   Ruhr University Bochum   KU Leuven   Port Said University	5
Simulation and Optimization of Waste Heat to Electricity through Organic Rankine Cycles (ORCs): a Case Study in an Oil Refinery	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85159639247&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85159639247&amp;origin=resultslist</a>	10.3303/CET2398003	Article		2-s2.0-85159639247	-	The British University in Egypt   University College London   Port Said University	3
Remagnetization Strategies for Induction Machines Operating with Reduced Flux Levels	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85141090108&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85141090108&amp;origin=resultslist</a>	10.1109/ICEM51905.2022.9910738	Conference Paper		2-s2.0-85141090108	-	Ingeteam   University of Oviedo   Port Said University	3
An Evaluation of Firefly and Flower Pollination Techniques Used to Harvest Maximum Power from PEMFC	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85190380704&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85190380704&amp;origin=resultslist</a>	10.1109/MEPCON58725.2023.10462430	Conference Paper		2-s2.0-85190380704	-	Port Said University	1
Fabrication, photovoltaic analysis, and electrical characterization of Au/ZnTPyP/p-Si/Ag heterojunction under gamma radiation effect for solar cell applications	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85203313551&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85203313551&amp;origin=resultslist</a>	10.1140/epjp/s13360-024-05568-3	Article	Hybrid gold	2-s2.0-85203313551	-	Port Said University	1
New Efficient Configurations for Sour Wastewater Treatment	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85134328327&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85134328327&amp;origin=resultslist</a>	10.2174/2405520415666211229123400	Article		2-s2.0-85134328327	-	The British University in Egypt   Cairo University   University of California at San Diego   Port Said University	4
A Multi-Objective Approach for Available Transfer Capability Considering Capability Curve of DFIG Wind Farm	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-105001548094&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-105001548094&amp;origin=resultslist</a>	10.1109/MEPCON63025.2024.10850287	Conference Paper		2-s2.0-105001548094	-	Port Said University	1
Fully symbolic-based technique for solving	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85091132891&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85091132891&amp;origin=resultslist</a>	10.11591/ijece.v11i1.pp272-283	Article	Gold   Green	2-s2.0-85091132891	-	Cairo University   Al Jouf University   Port Said University	3

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Maximizing Renewable Energy Integration through Demand Response Strategies in Distribution Systems Considering Uncertainties	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85190374611&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85190374611&amp;origin=resultslist</a>	10.1109/MEPCON58725.2023.10462375	Conference Paper		2-s2.0-85190374611	-	Port Said University 1
Better heat and power integration of an existing gas-oil plant in Egypt through revamping the design and organic rankine cycle	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85109182162&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85109182162&amp;origin=resultslist</a>	10.2174/1874123102115010001	Article	Gold	2-s2.0-85109182162	-	The British University in Egypt  Cairo University  Port Said University 3
Graphical revamping of a delayed coker unit: A case study from an Egyptian refinery	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85204627866&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85204627866&amp;origin=resultslist</a>	10.1016/j.tsep.2024.102913	Article		2-s2.0-85204627866	-	Cairo University  Missouri University of Science and Technology  The Public Authority of Applied Education and Training  University of the Witwatersrand  Zhejiang Ocean University  Port Said University 6
Transient Behavior of Induction Generator Protective Relays	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85124574333&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85124574333&amp;origin=resultslist</a>	10.1007/978-3-030-92628-1_4	Chapter		2-s2.0-85124574333	-	Suez University  Port Said University 2
Introduction	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85090916464&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85090916464&amp;origin=resultslist</a>	10.1007/978-3-030-51661-1_1	Editorial		2-s2.0-85090916464	-	Suez University  Port Said University 2
Experimental investigation for hvdc system	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85090897563&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85090897563&amp;origin=resultslist</a>	10.1007/978-3-030-51661-1_6	Chapter		2-s2.0-85090897563	-	Suez University  Port Said University 2
THERMODYNAMIC ANALYSIS AND EXPERIMENTAL STUDY OF ALTERNATIVE BIOFUELS USING SAWDUST SLOW PYROLYSIS	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85174590069&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85174590069&amp;origin=resultslist</a>	-	Conference Paper		2-s2.0-85174590069	-	Cairo University  University of the Witwatersrand  Port Said University 3
Experimental Investigation into the Effects of Flat Plate Guiding Walls on the Performance of Vertical Axis Wind Turbine	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-105008717288&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-105008717288&amp;origin=resultslist</a>	10.17576/jkukm-2024-36(3)-20	Article	Gold	2-s2.0-105008717288	-	Universiti Kebangsaan Malaysia  Taibah University  Port Said University 3
Introduction and Previous Work	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-85124548248&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-85124548248&amp;origin=resultslist</a>	10.1007/978-3-030-92628-1_1	Chapter		2-s2.0-85124548248	-	Suez University  Port Said University 2
A Simplified Non-Linear Active Disturbance Rejection Control for Electric Traction Drives	<a href="https://www.scopus.com/record/display.url?eid=2-s2.0-105000961255&amp;origin=resultslist">https://www.scopus.com/record/display.url?eid=2-s2.0-105000961255&amp;origin=resultslist</a>	10.1109/IECON55916.2024.10905589	Conference Paper		2-s2.0-105000961255	-	Universidad San Sebastián  Port Said University 2

Title	Scopus Affiliation IDs	Scopus Affiliation names	Scopus Author ID First Author	Scopus Author ID Last Author	Scopus Author ID Corresponding Author	Scopus Author ID Single Author	Country/Region	Number of Countries/Regions
Hydrogen production, storage, utilisation and environmental impacts: a review	60029738  60274043  60108617  60092747  60025858  60018623  60018830  60071768	Queen's University Belfast  Faculty of Science  Port Said University  Egyptian Propylene and Polypropylene Company  ETH Zürich  South Valley University  Faculty of Science  Sultan Qaboos University	5.54E+10	7.01E+09	55362658600  39761537200  57117662400	-	United Kingdom  Oman  Egypt  Switzerland	4
Conversion of biomass to biofuels and life cycle assessment: a review	60029738  60108617  60274043  60092747  60071768	Queen's University Belfast  Port Said University  Faculty of Science  Egyptian Propylene and Polypropylene Company  Sultan Qaboos University	5.54E+10	7.01E+09	55362658600  39761537200  57117662400	-	United Kingdom  Oman  Egypt	3
Biochar for agronomy, animal farming, anaerobic digestion, composting, water treatment, soil remediation, construction, energy storage, and carbon sequestration: a review	60029738  60000402  60000617  60273147  60197146  60072749  60197145  60274043  60108617  60092747  60009353  60012577  60072795  60274955  60004871  128079878  60010177  60013959	Queen's University Belfast  Obihiro University of Agriculture and Veterinary Medicine  Assiut University  Faculty of Veterinary Medicine  Department of Chemistry and Earth Sciences, College of Arts and Sciences, Qatar University  Qatar University  College of Arts and Sciences, Qatar University  Faculty of Science  Port Said University  Egyptian Propylene and Polypropylene Company  Egyptian Atomic Energy Authority  National Center for Radiation Research and Technology  Taiz University  Faculty of Engineering  Al-Azhar University  Cemart for Building Materials and Insulation  University of Florida Institute of Food and Agricultural Sciences  University of Florida	5.54E+10	7.01E+09	5.54E+10	-	Qatar  United Kingdom  Egypt  Japan  United States  Yemen	6
Methods to prepare biosorbents and magnetic sorbents for water treatment: a review	60029738  60004238  60033041  60092747  60108617  60274043  60021842  60011418  60000617  60273147  60005618  60102426	Queen's University Belfast  Faculty of Science  Alexandria University  Egyptian Propylene and Polypropylene Company  Port Said University  Faculty of Science  Nnamdi Azikiwe University  Kobe University  Assiut University  Faculty of Veterinary Medicine  Universidad Autónoma de Baja California  Xi'an Jiaotong-Liverpool University	5.54E+10	5.72E+10	5.54E+10	-	United Kingdom  China  Mexico  Egypt  Japan  Nigeria	6
Membrane Technology for Energy Saving: Principles, Techniques, Applications, Challenges, and Prospects	60029738  60102426  60092747  60108617  60274043  60011418  60273147  60000617  60108640  60099697  60030271	Queen's University Belfast  Xi'an Jiaotong-Liverpool University  Egyptian Propylene and Polypropylene Company  Port Said University  Faculty of Science  Kobe University  Faculty of Veterinary Medicine  Assiut University  KPR Institute of Engineering and Technology  ICAR - Indian Institute of Soil and Water Conservation, Dehradun  National Institute of Oceanography and Fisheries	5.54E+10	3.61E+10	55362658600  36140024400	-	India  United Kingdom  China  Japan  Egypt	5
Materials, fuels, upgrading, economy, and life cycle assessment of the pyrolysis of algal and lignocellulosic biomass: a review	60029738  60011418  60000617  60273147  60092747  60108617  60274043  129212846  60019702  60078640  60033041  60004238  60005880  60019332  60274337  60102426	Queen's University Belfast  Kobe University  Assiut University  Faculty of Veterinary Medicine  Egyptian Propylene and Polypropylene Company  Port Said University  Faculty of Science  Egyptian Methanex Methanol Company (EMethanex)  University of Birmingham  Ming Chi University of Technology  Alexandria University  Faculty of Science  Imam Mohammad Ibn Saud Islamic University  Agricultural Research Center  Soil, Water and Environment Research Institute (SWERI)  Xi'an Jiaotong-Liverpool University	5.54E+10	7.01E+09	55362658600  36140024400	-	Taiwan  United Kingdom  China  Egypt  Japan  Saudi Arabia	6
Optimizing biomass pathways to bioenergy and biochar application in electricity generation, biodiesel production, and biohydrogen production	60029738  60024451  60011418  60273147  60000617  60092747  60108617  60274043  60274042  60013183  60102426	Queen's University Belfast  Universiti Malaysia Sarawak  Kobe University  Faculty of Veterinary Medicine  Assiut University  Egyptian Propylene and Polypropylene Company  Port Said University  Faculty of Science  Faculty of Engineering- Port Said University  King Saud University  Xi'an Jiaotong-Liverpool University	5.54E+10	3.61E+10	55362658600  56223568100  36140024400	-	United Kingdom  China  Egypt  Japan  Saudi Arabia  Malaysia	6
An Optimized Hybrid Fractional Order Controller for Frequency Regulation in Multi-Area Power Systems	60216388  60216392  60107271  60104126  60007087  60274042  60108617	Faculty of Energy Engineering  Faculty of Engineering  Aswan University  Jouf University  Universidad Técnica Federico Santa María  Faculty of Engineering- Port Said University  Port Said University	5.91E+10	5.7E+10	5.82E+10	-	Chile  Egypt  Saudi Arabia	3
Thermochemical conversion strategies of biomass to biofuels, techno-economic and bibliometric analysis: A conceptual review	60092747  60274043  60274042  60030271  60069010  60013551  60108699	Egyptian Propylene and Polypropylene Company  Faculty of Science  Faculty of Engineering- Port Said University  National Institute of Oceanography and Fisheries  Poznan University of Medical Sciences  China Agricultural University  University of Jeddah	5.72E+10	9.43E+09	57192696143  57200181654  57221645534  9433357000	-	China  Egypt  Poland  Saudi Arabia	4
Biofuel production, hydrogen production and water remediation by photocatalysis, biocatalysis and electrocatalysis	60029738  60274043  60108617  60092747  60033041  60004238  60026263  60109766  60072485  60011418  60273147  60000617  60071768  60102426  60000717  60001821  127800263  60111704	Queen's University Belfast  Faculty of Science  Port Said University  Egyptian Propylene and Polypropylene Company  Alexandria University  Faculty of Science  Seoul National University of Science and Technology  Quchan University of Technology  Saint Petersburg National Research University of Information Technologies, Mechanics and Optics Univ  Kobe University  Faculty of Veterinary Medicine  Assiut University  Sultan	5.54E+10	7.1E+09	55362658600  36140024400  7101751659	-	India  United Kingdom  South Korea  China  Egypt  Oman  Japan  South Africa	11

		Qaboos University  Xi'an Jiaotong-Liverpool University  University of Johannesburg  Universiti Kebangsaan Malaysia  Zhejiang Rongsheng Environmental Protection Paper Co. LTD  Chandigarh University					Malaysia  Russian Federation  Iran	
Design and fabrication of Fe <sub>2</sub> O <sub>3</sub> /FeP heterostructure for oxygen evolution reaction electrocatalysis	60018308  60046149  60000937  60121546  60064058  60121158  60009506  60089690  60027741  60274043  60058195	Xi'an Jiaotong University  Allama Iqbal Open University  Shenzhen University  University of Gujrat  Quaid-i-Azam University  University of Education  King Fahd University of Petroleum and Minerals  Sardar Bahadur Khan Women's University  King Khalid University  Faculty of Science  International Islamic University, Islamabad	5.72E+10	5.63E+10	5.72E+10	-	China  Egypt  Saudi Arabia  Pakistan	4
Recent Advances in Biomass Pyrolysis Processes for Bioenergy Production: Optimization of Operating Conditions	60023356  60273194  60016218  60079227  60108617  60274042	The British University in Egypt  Faculty of Energy & Environmental Engineering  University of the Witwatersrand, Johannesburg  School of Chemical and Metallurgical Engineering  Port Said University  Faculty of Engineering- Port Said University	5.72E+10	5.72E+10	5.72E+10	-	Egypt  South Africa	2
An Adaptive D-FACTS for Power Quality Enhancement in an Isolated Microgrid	60026746  60273661  60274042  60108617	El Shorouk Academy  Higher Institute of Engineering  Faculty of Engineering- Port Said University  Port Said University	5.72E+10	7E+09	5.72E+10	-	Egypt	1
Optimum Modified Fractional Order Controller for Future Electric Vehicles and Renewable Energy-Based Interconnected Power Systems	60104126  60216388  60107271  60216392  60007087  60274042  60108617	Jouf University  Faculty of Energy Engineering  Aswan University  Faculty of Engineering  Universidad Técnica Federico Santa María  Faculty of Engineering- Port Said University  Port Said University	5.82E+10	5.72E+10	5.91E+10	-	Chile  Egypt  Saudi Arabia	3
Recent advances in greenly synthesized nanoengineered materials for water/wastewater remediation: an overview	60092747  60108699  60108617  60274043  60030270  60023876	Egyptian Propylene and Polypropylene Company  University of Jeddah  Port Said University  Faculty of Science  Guangxi University  Nuclear Materials Authority	5.72E+10	3.67E+10	9.43E+09	-	China  Egypt  Saudi Arabia	3
Synthesis and potential applications of cyclodextrin-based metal-organic frameworks: a review	60003970  60342514  60274553  60029738  60004238  60274043  60027363  60273822	Zhejiang University  Department of Nutrition and Food Science  Faculty of Agriculture  Queen's University Belfast  Faculty of Science  Faculty of Science  University of Chinese Academy of Sciences  Faculty of Agriculture	5.7E+10	7.01E+09	55362658600  57191834563  57087450700	-	United Kingdom  China  Egypt	3
Review on energy storage systems in microgrids	60108617  60274042  60006793	Port Said University  Faculty of Engineering- Port Said University  Universidad de Oviedo	5.72E+10	3.69E+10	5.72E+10	-	Spain  Egypt	2
Biomass-to-sustainable biohydrogen: Insights into the production routes, and technical challenges	60030271  60274043  60108617  60092747  60019332  60110414  60274042  114372907  60108699	National Institute of Oceanography and Fisheries  Faculty of Science  Port Said University  Egyptian Propylene and Polypropylene Company  Agricultural Research Center  Central Agricultural Pesticides Laboratory  Faculty of Engineering- Port Said University  United Gas Derivative Company  University of Jeddah	5.59E+10	9.43E+09	5.72E+10	-	Egypt  Saudi Arabia	2
A novel metaheuristic MPPT technique based on enhanced autonomous group Particle Swarm Optimization Algorithm to track the GMPP under partial shading conditions - Experimental validation	60108617  60274042	Port Said University  Faculty of Engineering- Port Said University	5.72E+10	5.72E+10	5.72E+10	-	Egypt	1
Comprehensive investigation of Opto-electronic and transport properties of Cs <sub>2</sub> ScAgX <sub>6</sub> (X = Cl, Br, I) for solar cells and thermoelectric applications	60194949  60105146  60070611  60027741  60274043  60108617	Khawja Fareed University of Engineering & Information Technology  Princess Nourah Bint Abdulrahman University  Riphah International University  King Khalid University  Faculty of Science  Port Said University	2.67E+10	6.6E+09	57193509752  35812147900	-	Egypt  Saudi Arabia  Pakistan	3
Sustainable management of food waste; pre-treatment strategies, techno-economic assessment, bibliometric analysis, and potential	60274043  60108617  60092747  60030271  60032955  60013551  60087826  60014618	Faculty of Science  Port Said University  Egyptian Propylene and Polypropylene Company  National Institute of Oceanography and Fisheries  Huazhong Agricultural University  China Agricultural University  Ministry of Agriculture of the People's Republic of China  National Research Centre	5.72E+10	4.74E+10	55919580700  57307212500  9433357000	-	China  Egypt	2

utilizations: A systematic review								
Emerging 2D-Nanostructured materials for electrochemical and sensing Application-A review	60194949  123383725  60027741  60274043  60108617  60104126  60105222	Khwaja Fareed University of Engineering & Information Technology  University of Gujrat  King Khalid University  Faculty of Science  Port Said University  Jouf University  Prince Sattam Bin Abdulaziz University	5.75E+10	5.72E+10	5.83E+10	-	Egypt  Saudi Arabia  Pakistan	3
Experimental and simulation study of multichannel air gap membrane distillation process with two types of solar collectors	60105463  60274042  60108617  60104893  60274173	Université d'ain Témouchent, Belhadj Bouchaib  Faculty of Engineering- Port Said University  Port Said University  Zewail City of Science and Technology  University of Science and Technology	5.72E+10	5.72E+10	5.72E+10	-	Algeria  Egypt	2
Performance evaluation of single multi-junction solar cell for high concentrator photovoltaics using minichannel heat sink with nanofluids	60026479  60274042  60108617  60019702	University of Exeter  Faculty of Engineering- Port Said University  Port Said University  University of Birmingham	5.72E+10	6.6E+09	6.6E+09	-	United Kingdom  Egypt	2
Enhanced electrochemical activity of Co3O4/Co9S8 heterostructure catalyst for water splitting	60046149  60018308  60121546  60288329  60009506  60121158  113902663  60009509  60089690  60027741  60108617  60274043	Allama Iqbal Open University  Xi'an Jiaotong University  University of Gujrat  Muhammad Nawaz Sharif University of Engineering & Technology  King Fahd University of Petroleum and Minerals  University of Education  Changchun China Optical Science and Technology Museum  Northeast Normal University  Sardar Bahadur Khan Women's University  King Khalid University  Port Said University  Faculty of Science	5.96E+10	6.6E+09	57202517390  55584792053	-	China  Egypt  Saudi Arabia  Pakistan	4
Assessment of floating photovoltaic productivity with fins-assisted passive cooling	60274042  60108617  100638418	Faculty of Engineering- Port Said University  Port Said University  Ministry of Electricity and Renewable Energy	5.65E+10	5.73E+10	5.65E+10	-	Egypt	1
Simulation and experimental performance analysis of partially floating PV system in windy conditions	60274042  60108617  60024724	Faculty of Engineering- Port Said University  Port Said University  University of Strathclyde	5.65E+10	5.72E+10	5.65E+10	-	United Kingdom  Egypt	2
A novel concentrated photovoltaic-driven membrane distillation hybrid system for the simultaneous production of electricity and potable water	60108617  60274042  60023356  60273423  60274173  60104893  100395846  123006718	Port Said University  Faculty of Engineering- Port Said University  The British University in Egypt  Faculty of Engineering  University of Science and Technology  Zewail City of Science and Technology  Suez Canal Authority  Ministry of Electricity and Renewable Energy	5.65E+10	5.72E+10	5.65E+10	-	Egypt	1
Synthesis, characterization and DFT molecular modeling of doped poly (para-nitroaniline-co-para-toluidine) thin film for optoelectronic devices applications	60193407  60273722  60104697  60025518  60010333  60107271  60211593  112920419  60104126  60004582  60033041  60008708  60274042  60108617  60104893  60274173  60091645  60045778  60274043	New Valley University  Faculty of Science  Northern Border University  Qassim University  Faculty of Science  Aswan University  Centre de Recherches et des Technologies de l'Energie  Ministry of Military Production  Jouf University  King Abdulaziz University  Alexandria University  Faculty of Engineering  Faculty of Engineering- Port Said University  Port Said University  Zewail City of Science and Technology  University of Science and Technology  Université de Tunis El Manar, Faculté des Sciences de Tunis  Université de Tunis El Manar  Faculty of Science	2.44E+10	1.63E+10	6.51E+09	-	Egypt  Tunisia  Saudi Arabia	3
Extraction of maximum power from PV system based on horse herd optimization MPPT technique under various weather conditions	60108617  60274042  60108465  60017103  60079227  60016218	Port Said University  Faculty of Engineering- Port Said University  Northern Technical University  Peter the Great St. Petersburg Polytechnic University  School of Chemical and Metallurgical Engineering  University of the Witwatersrand, Johannesburg	5.72E+10	5.72E+10	5.72E+10	-	Iraq  Egypt  South Africa  Russian Federation	4
Thermo-electrical performance assessment of a partially submerged floating photovoltaic system	60108617  60274042  60010146	Port Said University  Faculty of Engineering- Port Said University  Università degli Studi di Catania	5.65E+10	5.92E+10	5.65E+10	-	Egypt  Italy	2

Efficient fractional-order modified Harris hawks optimizer for proton exchange membrane fuel cell modeling	60273899  60027423  60109096  60016912  60013835  60001350  60094091  60104126  60108617  60274042  60274154  60003593	Faculty of Engineering  Fayoum University  Torrens University Australia  Yonsei University  Instituto Politécnico do Porto  Instituto Superior de Engenharia do Porto  Chaitanya Bharathi Institute of Technology  Jofr University  Port Said University  Faculty of Engineering- Port Said University  Faculty of Engineering  Zagazig University	5.67E+1 0	2.57E+1 0	5.67E+10	-	India  South Korea  Egypt  Saudi Arabia  Australia  Portugal	6
Performance enhancement of a hybrid multi effect evaporation/membrane distillation system driven by solar energy for desalination	60108617  60274042  60079227  60016218  60273423  60023356  60273194	Port Said University  Faculty of Engineering- Port Said University  School of Chemical and Metallurgical Engineering  University of the Witwatersrand, Johannesburg  Faculty of Engineering  The British University in Egypt  Faculty of Energy & Environmental Engineering	5.72E+1 0	5.72E+1 0	5.72E+10	-	Egypt  South Africa	2
Doped poly (o-phenylenediamine -co- p- toluidine) fibers for polymer solar cells applications	60004582  60108617  60274043  60273722  60193407  60104697	King Abdulaziz University  Port Said University  Faculty of Science  Faculty of Science  New Valley University  Northern Border University	1.63E+1 0	6.51E+0 9	1.63E+10	-	Egypt  Saudi Arabia	2
Design and performance a novel hybrid membrane distillation/humidification -dehumidification system	60108617  60274042  60079227  60016218  121850477	Port Said University  Faculty of Engineering- Port Said University  School of Chemical and Metallurgical Engineering  University of the Witwatersrand, Johannesburg  Higher Future Institute of Engineering and Technology	5.72E+1 0	5.6E+10	5.72E+10	-	Egypt  South Africa	2
Performance enhancement of flat-plate and parabolic trough solar collector using nanofluid for water heating application	60239219  60020322  60108617  60274042  60079227  60016218  114464338  60105846	Faculty of Agriculture  Suez Canal University  Port Said University  Faculty of Engineering- Port Said University  School of Chemical and Metallurgical Engineering  University of the Witwatersrand, Johannesburg  Universidad de Oradea  American University of the Middle East	5.64E+1 0	5.72E+1 0	57193261423  55963977100	-	Egypt  South Africa  Kuwait  Romania	4
Tuning cationic/anionic dyes sorption from aqueous solution onto green algal biomass for biohydrogen production	60092747  60274043  60108617  60274485  60104710  60014618	Egyptian Propylene and Polypropylene Company  Faculty of Science  Port Said University  Faculty of Science  Suez University  National Research Centre	5.72E+1 0	4.74E+1 0	5.72E+10	-	Egypt	1
Performance enhancement of concentrator photovoltaic systems using nanofluids	123006718  60108617  60274042	Ministry of Electricity and Renewable Energy  Port Said University  Faculty of Engineering- Port Said University	5.72E+1 0	5.72E+1 0	5.72E+10	-	Egypt	1
Synthesis and characterization of Co-Al mixed oxide nanoparticles via thermal decomposition route of layered double hydroxide	60004582  60033041  60008708  60108617  60274043  60274042  60104697  60193407  60273722	King Abdulaziz University  Alexandria University  Faculty of Engineering  Port Said University  Faculty of Science  Faculty of Engineering- Port Said University  Northern Border University  New Valley University  Faculty of Science	3.65E+1 0	6.51E+0 9	3.65E+10	-	Egypt  Saudi Arabia	2
Hydrogen production from wastewater, storage, economy, governance and applications: a review	60108617  60274043  60092747  60030271  60274042  60019332  60110414  114372907  60069010  60108699	Port Said University  Faculty of Science  Egyptian Propylene and Polypropylene Company  National Institute of Oceanography and Fisheries  Faculty of Engineering- Port Said University  Agricultural Research Center  Central Agricultural Pesticides Laboratory  United Gas Derivative Company  Poznan University of Medical Sciences  University of Jeddah	5.72E+1 0	9.43E+0 9	57192696143  55919580700  57200181654  54954871200  57307212500  57859732100  9433357000	-	Egypt  Saudi Arabia  Poland	3
An energy-economic analysis of a hybrid PV/wind/battery energy-driven hydrogen generation system in rural regions of Egypt	60108617  60274042	Port Said University  Faculty of Engineering- Port Said University	5.65E+1 0	5.72E+1 0	5.65E+10	-	Egypt	1
Performance and potential of a novel floating photovoltaic system in Egyptian winter climate on calm water surface	60274042  60108617  60024724	Faculty of Engineering- Port Said University  Port Said University  University of Strathclyde	5.65E+1 0	8.35E+0 9	5.65E+10	-	United Kingdom  Egypt	2
A technical and economic evaluation of floating	60274042  60108617  60010146  60024724	Faculty of Engineering- Port Said University  Port Said University  Università degli Studi di Catania  University of Strathclyde	5.65E+1 0	5.92E+1 0	5.65E+10	-	United Kingdom  Egypt  Italy	3

photovoltaic systems in the context of the water-energy nexus								
Advanced process integration for supercritical production of biodiesel: Residual waste heat recovery via organic Rankine cycle (ORC)	60015138  60031237  60273423  60023356  60274042  60108617  60069831	University of Nottingham  London South Bank University  Faculty of Engineering  The British University in Egypt  Faculty of Engineering- Port Said University  Port Said University  College of Technological Studies Kuwait	5.72E+10	7.2E+09	5.72E+10	-	United Kingdom  Egypt  Kuwait	3
Polymer solar cell based on doped o-anthranilic acid and o-aminophenol copolymer	60004582  60274043  60108617  60104697  60008708  60033041  60274042  60274631  60009750  60091645  60045778  60193407  60273722	King Abdulaziz University  Faculty of Science  Port Said University  Northern Border University  Faculty of Engineering  Alexandria University  Faculty of Engineering- Port Said University  Faculty of Science  Minia University  Université de Tunis El Manar, Faculté des Sciences de Tunis  Université de Tunis El Manar  New Valley University  Faculty of Science	1.63E+10	6.51E+09	1.63E+10	-	Tunisia  Egypt  Saudi Arabia	3
Performance estimation of a mini-passive solar still via machine learning	60004582  60108617  60274042  60274173  60104893  60033041  60008708  60274043  60104697  60193407  60273722	King Abdulaziz University  Port Said University  Faculty of Engineering- Port Said University  University of Science and Technology  Zewail City of Science and Technology  Alexandria University  Faculty of Engineering  Faculty of Science  Northern Border University  New Valley University  Faculty of Science	5.7E+10	6.51E+09	5.7E+10	-	Egypt  Saudi Arabia	2
An innovative cooling technique for floating photovoltaic module: Adoption of partially submerged angle fins	60274042  60108617  120738979	Faculty of Engineering- Port Said University  Port Said University  Ministry of Electricity and Renewable Energy	5.65E+10	5.73E+10	5.65E+10	-	Egypt	1
One-pot conversion of highly acidic waste cooking oil into biodiesel over a novel bio-based bi-functional catalyst	60273423  60023356  60019141  60010294  60002575  60108617  60274042	Faculty of Engineering  The British University in Egypt  Polytechnique Montréal  Cairo University  Faculty of Engineering  Port Said University  Faculty of Engineering- Port Said University	5.72E+10	5.78E+10	5.72E+10	-	Egypt  Canada	2
Power management strategy based on adaptive neuro fuzzy inference system for AC microgrid	60092747  60108617  60274042  60014101  60273830  60002744  60273396	Egyptian Propylene and Polypropylene Company  Port Said University  Faculty of Engineering- Port Said University  Sohag University  Faculty of Engineering  Future University in Egypt  Faculty of Engineering & Technology	2.44E+10	7E+09	2.44E+10	-	Egypt	1
Design and characterization of a vertical-axis micro tidal turbine for low velocity scenarios	60006793  60108617  60274042	Universidad de Oviedo  Port Said University  Faculty of Engineering- Port Said University	5.72E+10	5.72E+10	5.72E+10	-	Spain  Egypt	2
Catalytic fast pyrolysis of lignocellulosic biomass: Recent advances and comprehensive overview	60030441  60020345  60079227  60109550  60115196  60274042  60002575	Faculty of Science, Ibn Tofail University  Brandenburgische Technische Universität Cottbus  School of Chemical and Metallurgical Engineering  Institut de Recherche en Energie Solaire et Energies Nouvelles  Procédés et Ingénierie en Mécanique et Matériaux  Faculty of Engineering- Port Said University  Faculty of Engineering	2.4E+10	5.78E+10	2.4E+10	-	Egypt  South Africa  Germany  Morocco  France	5
Theoretical investigation of the temperature limits of an actively cooled high concentration photovoltaic system	60026479  60108617  60274042	University of Exeter  Port Said University  Faculty of Engineering- Port Said University	5.72E+10	6.6E+09	6.6E+09	-	United Kingdom  Egypt	2
Dual valorization of coastal biowastes for tetracycline remediation and biomethane production: A composite assisted anaerobic digestion	60014618  60014304  60274485  60104710  60021931  60108617  60274043  60092747	National Research Centre  LUT University  Faculty of Science  Suez University  Johannes Kepler University Linz  Port Said University  Faculty of Science  Egyptian Propylene and Polypropylene Company	4.74E+10	5.72E+10	5.72E+10	-	Austria  Egypt  Finland	3
Effectiveness of some novel heterocyclic compounds as corrosion inhibitors for carbon steel in 1 M HCl using practical and theoretical methods	60012078  60012022  60108617  60274043  113040527  60114629	Faculty of Science  Mansoura University  Port Said University  Faculty of Science  Egyptian Natural Gas Company (GASCO)  Jotun A/S	5.62E+10	2.56E+10	5.72E+10	-	Egypt	1



Coyote optimization based on a fuzzy logic algorithm for energy-efficiency in wireless sensor networks	60274042   60108617   60010294   60243149	Faculty of Engineering- Port Said University   Port Said University   Cairo University   Faculty of Computers and Artificial Intelligence	5.72E+1 0	5.72E+1 0	5.61E+10	-	Egypt	1
Toward a national life cycle assessment tool: Generative design for early decision support	60108617   60274042	Port Said University   Faculty of Engineering- Port Said University	5.77E+1 0	5.72E+1 0	5.77E+10	-	Egypt	1
Integration of active solar cooling technology into passively designed facade in hot climates	60274042   60108617   60082030   60273858   60273855	Faculty of Engineering- Port Said University   Port Said University   Sinai University   Faculty of Engineering   Sinai University - Kantara	5.72E+1 0	3.53E+1 0	5.78E+10	-	Egypt	1
Thermal regulation of partially floating photovoltaics for enhanced electricity production: A modeling and experimental analysis	60274042   60108617   60010146	Faculty of Engineering- Port Said University   Port Said University   Università degli Studi di Catania	5.65E+1 0	5.92E+1 0	5.65E+10	-	Egypt  Italy	2
Experimental performance analysis of enhanced concentrated photovoltaic utilizing various mass flow rates of Al2O3-nanofluid: Energy, exergy, and exergoeconomic study	60108617   60274042   127156768   60028583	Port Said University   Faculty of Engineering- Port Said University   Ministry of Electricity and Renewable Energy   Kocaeli Üniversitesi	5.65E+1 0	3.61E+1 0	5.65E+10	-	Egypt  Turkey	2
Facile synthesis of spin-coated poly (4-nitroaniline) thin film: Structural and optical properties	60273722   60193407   60004582   60274043   60108617   60104697	Faculty of Science   New Valley University   King Abdulaziz University   Faculty of Science   Port Said University   Northern Border University	5.72E+1 0	6.51E+0 9	6.51E+09	-	Egypt  Saudi Arabia	2
Exploring the potential of sheep wool as an eco-friendly insulation material: A comprehensive review and analytical ranking	60274042	Faculty of Engineering- Port Said University	5.82E+1 0	5.72E+1 0	5.82E+10	-	Egypt	1
Green hydrogen production ensemble forecasting based on hybrid dynamic optimization algorithm	60105146   123707192   60012022   60231617   60110524   60016618   60217005   60170200   60273670   60036479   60013395   60058937   60109124   60043655   60000906   60107208   60108617   60274042	Princess Nourah Bint Abdulrahman University   Delta Higher Institute of Engineering and Technology   Mansoura University   Faculty of Engineering   Shaqra University   Ain Shams University   Faculty of Computer and Information Sciences   Delta University for Science and Technology   Faculty of Artificial Intelligence   Al Al-Bayt University   Yuan Ze University   Al-Ahliyya Amman University   Middle East University Jordan   Applied Science Private University   Universiti Sains Malaysia   Sunway University   Port Said University   Faculty of Engineering- Port Said University	5.72E+1 0	5.72E+1 0	57191347112   58088844800	-	Taiwan   Egypt   Saudi Arabia   Jordan   Malaysia	5
Performance evaluation of a novel self-tuning particle swarm optimization algorithm-based maximum power point tracker for porton exchange membrane fuel cells under different operating conditions	60274042   60108617	Faculty of Engineering- Port Said University   Port Said University	5.72E+1 0	5.72E+1 0	5.72E+10	-	Egypt	1
Conceptual design and numerical analysis of a novel floating desalination plant powered by marine	60108617   60274042   60028225   60272999   60007253   60024724	Port Said University   Faculty of Engineering- Port Said University   Desert Research Center   Water Resources and Desert Lands Division   Arab Academy for Science, Technology and Maritime Transport   University of Strathclyde	5.72E+1 0	8.35E+0 9	8.35E+09	-	United Kingdom   Egypt	2

renewable energy for Egypt								
Power management and optimized control of hybrid PV-BESS-grid integrated fast EV charging stations	60005762  60274042  60108617  60071150  60030804	Universiti Tenaga Nasional  Faculty of Engineering- Port Said University  Port Said University  University of Mosul  Swinburne University of Technology	5.72E+10	5.79E+10	5.72E+10	-	Iraq  Egypt  Australia  Malaysia	4
Artificial neural network based prediction of ship speed under operating conditions for operational optimization	60274042  60108617  60025225  60010934	Faculty of Engineering- Port Said University  Port Said University  University of Southampton  National Oceanography Centre Southampton	5.68E+10	5.72E+10	5.68E+10	-	United Kingdom  Egypt	2
Hydrogen-Rich Syngas and Biochar Production by Non-Catalytic Valorization of Date Palm Seeds	60238518  60004582  60108617  60274042  60005762	Faculty of Engineering Rabigh Branch, King Abdulaziz University  King Abdulaziz University  Port Said University  Faculty of Engineering- Port Said University  Universiti Tenaga Nasional	2.46E+10	5.72E+10	2.46E+10	-	Egypt  Saudi Arabia  Malaysia	3
Systematic study of optoelectronic and thermoelectric properties of new lead-free halide double perovskites A2KGa16(A = Cs, Rb) for solar cell applications via ab-initio calculations	60037241  60264833  60013849  60027741  60108617  60274043	The Islamia University of Bahawalpur  Ghazi University  Gazi Üniversitesi  King Khalid University  Port Said University  Faculty of Science	5.72E+10	9.25E+09	5.72E+10	-	Egypt  Saudi Arabia  Turkey  Pakistan	4
Prediction and assessment of automated lifting system performance for multi-storey parking lots powered by solar energy	60274042  60108617  123480810	Faculty of Engineering- Port Said University  Port Said University  Affiliated to Ministry of Military Production	5.72E+10	5.72E+10	5.72E+10	-	Egypt	1
Modelling the impact of lining and covering irrigation canals on underlying groundwater stores in the Nile Delta, Egypt	60274154  60003593  60029616  60008493  60014439  60274042  60108617	Faculty of Engineering  Zagazig University  Aarhus Universitet  University of California Kearney Agricultural Research and Extension Center  University of California, Davis  Faculty of Engineering- Port Said University  Port Said University	5.72E+10	5.7E+10	5.7E+10	-	Egypt  United States  Denmark	3
Water Desalination Using Solar Thermal Collectors Enhanced by Nanofluids	60010294  60243231  60243246  60108617  60274042  60104893  60274173  60033391	Cairo University  Faculty of Graduate African Studies  National Institute of Laser Enhanced Sciences  Port Said University  Faculty of Engineering- Port Said University  Zewail City of Science and Technology  University of Science and Technology  Shahrood University of Technology	5.73E+10	5.72E+10	5.72E+10	-	Egypt  Iran	2
A Comparative Review on Single Phase Transformerless Inverter Topologies for Grid-Connected Photovoltaic Systems	60029157  60004468  60005762  60108617  60274042  60030804	Universiti Malaya  Hajee Mohammad Danesh Science and Technology University  Universiti Tenaga Nasional  Port Said University  Faculty of Engineering- Port Said University  Swinburne University of Technology	5.72E+10	5.79E+10	57203226751  57928298500	-	Egypt  Australia  Malaysia  Bangladesh	4
Synthesis, characterization, and photosensitizer applications for dye-based on ZrO2-acriflavine nanocomposite thin film [ZrO2+ACF]C	60273131  60000617  60104697  60011568  60221156  60004582  60108617  60274043  60193407  60273722	Faculty of Science  Assiut University  Northern Border University  Tanta University  Faculty of Science  King Abdulaziz University  Port Said University  Faculty of Science  New Valley University  Faculty of Science	5.72E+10	9.94E+09	6.51E+09	-	Egypt  Saudi Arabia	2
Evaluation of Storage Stability for Biocrude Derived from Hydrothermal Liquefaction of Microalgae	60014402  60021843  60025488  60150772  60018208  60160236  60108617  60274043	Renmin University of China  Beijing University of Chemical Technology  The University of Utah  John and Marcia Price College of Engineering  Washington State University Pullman  Voiland College of Engineering and Architecture  Port Said University  Faculty of Science	5.62E+10	5.72E+10	57044542300  57196076658	-	China  Egypt  United States	3

Experimental study of simultaneous effect of evacuated tube collectors coupled with parabolic reflectors on traditional single slope solar still efficiency	60027423  60273899  60104698  60274042  60108617  60324598	Fayoum University  Faculty of Engineering  Al Baha University  Faculty of Engineering- Port Said University  Port Said University  Institute of Aviation Engineering and Technology	5.75E+1 0	5.58E+1 0	5.75E+10	-	Egypt  Saudi Arabia	2
Single-stage waste oil conversion into biodiesel via sonication over bio-based bifunctional catalyst: Optimization, preliminary techno-economic and environmental analysis	60273423  60023356  60002575  60010294  60019141  60022091  60108617  60274042	Faculty of Engineering  The British University in Egypt  Faculty of Engineering  Cairo University  Polytechnique Montréal  IHE Delft Institute for Water Education  Port Said University  Faculty of Engineering- Port Said University	5.72E+1 0	5.78E+1 0	5.72E+10	-	Egypt  Netherlands  Canada	3
Retrofit of heat exchanger networks by graphical Pinch Analysis - A case study of a crude oil refinery in Kuwait	60069831  60274042  60108617  60273423  60023356  60029170  60118717  60010294	College of Technological Studies Kuwait  Faculty of Engineering- Port Said University  Port Said University  Faculty of Engineering  The British University in Egypt  Lunds Universitet  Institutionen för Kemiteknik  Cairo University	3.62E+1 0	5.78E+1 0	3.62E+10	-	Egypt  Kuwait  Sweden	3
Energy and exergy analyses of new cooling schemes based on a serpentine configuration for a high concentrator photovoltaic system	60026479  60108617  60274042	University of Exeter  Port Said University  Faculty of Engineering- Port Said University	5.72E+1 0	6.6E+09	6.6E+09	-	United Kingdom  Egypt	2
Response Surface Optimisation of Vertical Axis Wind Turbine at low wind speeds	60274042  60108617  60001881	Faculty of Engineering- Port Said University  Port Said University  The University of Sheffield	5.72E+1 0	5.72E+1 0	5.72E+10	-	United Kingdom  Egypt	2
Numerical hydrodynamics-based design of an offshore platform to support a desalination plant and a wind turbine in Egypt	60108617  60274042  60028225  60007253  60016618  60024724	Port Said University  Faculty of Engineering- Port Said University  Desert Research Center  Arab Academy for Science, Technology and Maritime Transport  Ain Shams University  University of Strathclyde	5.72E+1 0	8.35E+0 9	8.35E+09	-	United Kingdom  Egypt	2
Performance analysis of reinforced epoxy functionalized carbon nanotubes composites for vertical axis wind turbine blade	60274042  60108617  60013183  60274173  60104893	Faculty of Engineering- Port Said University  Port Said University  King Saud University  University of Science and Technology  Zewail City of Science and Technology	5.72E+1 0	5.72E+1 0	6.6E+09	-	Egypt  Saudi Arabia	2
Techno-economic multi-objective reactive power planning in integrated wind power system with improving voltage stability	60231617  60012022  122255079  60108617  60274042	Faculty of Engineering  Mansoura University  East Delta Electricity Production Company (EDEPCo)  Port Said University  Faculty of Engineering- Port Said University	5.72E+1 0	6.51E+0 9	5.72E+10	-	Egypt	1
Numerical investigation of the indoor thermal behaviour based on PCMs in a hot climate	60274042  60108617	Faculty of Engineering- Port Said University  Port Said University	5.77E+1 0	5.72E+1 0	5.77E+10	-	Egypt	1
Recycling of catering waste for sequential production of biohydrogen and biomethane; pre-treatments, batch, and continuous mode studies	60108699  60274043  60108617  60014618	University of Jeddah  Faculty of Science  Port Said University  National Research Centre	9.43E+0 9	4.74E+1 0	9.43E+09	-	Egypt  Saudi Arabia	2
Photodeposition Conditions of Silver Cocatalyst on Titanium Oxide Photocatalyst Directing Product	60273876  60117075  60274042  60108617  60011001	Faculty of Engineering  Egypt-Japan University of Science and Technology  Faculty of Engineering- Port Said University  Port Said University  Kyoto University	5.72E+1 0	5.55E+1 0	5.55E+10	-	Japan  Egypt	2

Selectivity in Photocatalytic Reduction of Carbon Dioxide with Water								
Combined experimental and TDDFT computations for the structural and optical properties for poly (ortho phenylene diamine) thin film with different surfactants	124708644  60273722  60193407  60104697  60091164  60107271  60010333  60025518  60108617  60274042  60274173  60104893  60004582  60008708  60033041  60274043	Laboratory  Faculty of Science  New Valley University  Northern Border University  Taif University  Aswan University  Faculty of Science  Qassim University  Port Said University  Faculty of Engineering- Port Said University  University of Science and Technology  Zewail City of Science and Technology  King Abdulaziz University  Faculty of Engineering  Alexandria University  Faculty of Science	5.72E+1 0	1.63E+1 0	36463135100  16305817700	-	Egypt  Tunisia  Saudi Arabia	3
Conducting polymer thin film for optoelectronic devices applications	60004582  60033041  60008708  60000617  60273722  60273131  60104697  60108617  60274043	King Abdulaziz University  Alexandria University  Faculty of Engineering  Assiut University  Faculty of Science  Faculty of Science  Northern Border University  Port Said University  Faculty of Science	3.65E+1 0	1.63E+1 0	3.65E+10	-	Egypt  Saudi Arabia	2
Optoelectronic and photocatalytic properties of GaN, GeS and SIS monolayers and their vdW heterostructures	60070606  60105683  60027741  60108617  60274043	Hazara University Pakistan  Southern University of Science and Technology  King Khalid University  Port Said University  Faculty of Science	5.72E+1 0	6.6E+09	4.13E+10	-	China  Egypt  Saudi Arabia  Pakistan	4
Improvement of the thermal stability and optical properties for poly (ortho phenylene diamine) using soft templates	60004582  60108617  60274043  60193407  60273722  60104697  124708644  60274951  60004871	King Abdulaziz University  Port Said University  Faculty of Science  New Valley University  Faculty of Science  Northern Border University  Laboratory  Faculty of Science  Al-Azhar University	1.63E+1 0	1.23E+1 0	6505746085  12344915200	-	Egypt  Tunisia  Saudi Arabia	3
Physical properties of KTaO3 compound for optoelectronic and thermoelectric applications: A DFT study	60078212  60105146  60027741  60108617  60274043	University of Agriculture, Faisalabad  Princess Nourah Bint Abdulrahman University  King Khalid University  Port Said University  Faculty of Science	5.77E+1 0	6.6E+09	5.72E+10	-	Egypt  Saudi Arabia  Pakistan	3
Optimal parameters identification for PEMFC using autonomous groups particle swarm optimization algorithm	60108617  60274042  60012022  60231617  60121046  60121054  60103702	Port Said University  Faculty of Engineering- Port Said University  Mansoura University  Faculty of Engineering  Department of Automated Electrical Systems  Ural Power Engineering Institute  Ural Federal University	5.72E+1 0	5.72E+1 0	5.72E+10	-	Egypt  Russian Federation	2
Polypyrrole/functionalized multi-walled carbon nanotube composite for optoelectronic device application	60004582  60193407  60273722  60008708  60033041  60274043  60108617	King Abdulaziz University  New Valley University  Faculty of Science  Faculty of Engineering  Alexandria University  Faculty of Science  Port Said University	5.66E+1 0	1.63E+1 0	3.65E+10	-	Egypt  Saudi Arabia	2
Physical characteristics of barium based cubic perovskites	60078212  60105146  60018308  60027741  60108617  60274043	University of Agriculture, Faisalabad  Princess Nourah Bint Abdulrahman University  Xi'an Jiaotong University  King Khalid University  Port Said University  Faculty of Science	5.72E+1 0	6.6E+09	5.72E+10	-	China  Egypt  Saudi Arabia  Pakistan	4
One-dimensional ternary conducting polymers blend with 9.26% power conversion efficiency for photovoltaic devices applications	60004582  60008708  60033041  60108617  60274043  60273722  60193407	King Abdulaziz University  Faculty of Engineering  Alexandria University  Port Said University  Faculty of Science  Faculty of Science  New Valley University	3.65E+1 0	6.51E+0 9	3.65E+10	-	Egypt  Saudi Arabia	2
Experimental and numerical simulation of solar membrane distillation and humidification – dehumidification water desalination system	60079227  60016218  60108617  60108617  121850477  60105463  60239219  60020322	School of Chemical and Metallurgical Engineering  University of the Witwatersrand, Johannesburg  Port Said University  Faculty of Engineering- Port Said University  Higher Future Institute of Engineering and Technology  Université d'ain Témouchent, Belhadj Bouchaib  Faculty of Agriculture  Suez Canal University	5.72E+1 0	5.6E+10	57194448020  57193261423	-	Algeria  Egypt  South Africa	3
Yield and energy outputs analysis of sawdust biomass pyrolysis	60016218  60079227  60274042  60108617  121850477  60105846	University of the Witwatersrand, Johannesburg  School of Chemical and Metallurgical Engineering  Faculty of Engineering- Port Said University  Port Said University  Higher Future Institute of Engineering and Technology  American University of the Middle East	5.72E+1 0	5.6E+10	5.72E+10	-	Egypt  South Africa  Kuwait	3
Dragonfly-Based Joint Delay/Energy LTE	60274042  60108617  60231617  60012022	Faculty of Engineering- Port Said University  Port Said University  Faculty of Engineering  Mansoura University	4.16E+1 0	5.58E+1 0	4.16E+10	-	Egypt	1

Downlink Scheduling Algorithm								
Experimental and multiphase modeling of small vertical-axis hydrokinetic turbine with free-surface variations	60006793  60274042  60108617	Universidad de Oviedo  Faculty of Engineering- Port Said University  Port Said University	5.72E+10	5.72E+10	57204932141  57226002189	-	Spain  Egypt	2
A renewable lignin-derived bio-oil for boosting the oxidation stability of biodiesel	60031237  60118717  60029170  60010294  60015138  60012070  60023356  60273423  60108617  60274042  60023643  60117770	London South Bank University  Institutionen för Kemiteknik  Lunds Universitet  Cairo University  University of Nottingham  University of Leeds  The British University in Egypt  Faculty of Engineering  Port Said University  Faculty of Engineering- Port Said University  Lancaster University  Department of Engineering, Lancaster University	5.72E+10	7.2E+09	57095795900  7202946094	-	United Kingdom  Egypt  Sweden	3
Comparison of the Computational Fluid Dynamics Predictions of Vertical Axis Wind Turbine Performance Against Detailed Pressure Measurements	60108617  60274042  60001881	Port Said University  Faculty of Engineering- Port Said University  The University of Sheffield	5.72E+10	7E+09	5.72E+10	-	United Kingdom  Egypt	2
Physical structure, TD-DFT computations, and optical properties of hybrid nanocomposite thin film as optoelectronic devices	60004582  60274043  60108617  60008708  60033041  60273722  60193407	King Abdulaziz University  Faculty of Science  Port Said University  Faculty of Engineering  Alexandria University  Faculty of Science  New Valley University	1.63E+10	6.51E+09	1.63E+10	-	Egypt  Saudi Arabia	2
Aqueous Phase from Hydrothermal Liquefaction: Composition and Toxicity Assessment	127433852  60105002  60023914  60108617  60274042  60079227  60016218	Institute of Living Systems  Kazan National Research Technological University  Perm State University  Port Said University  Faculty of Engineering- Port Said University  School of Chemical and Metallurgical Engineering  University of the Witwatersrand, Johannesburg	5.8E+10	5.52E+10	5.8E+10	-	Egypt  South Africa  Russian Federation	3
Fabrication, characterization, TD-DFT, optical and electrical properties of poly (aniline-co-para nitroaniline)/ZrO2 composite for solar cell applications	60004582  60274042  60108617  60274173  60104893  60033041  60008708  60274043  60193407  60273722	King Abdulaziz University  Faculty of Engineering- Port Said University  Port Said University  University of Science and Technology  Zewail City of Science and Technology  Alexandria University  Faculty of Engineering  Faculty of Science  New Valley University  Faculty of Science	5.6E+10	6.51E+09	3.65E+10	-	Egypt  Saudi Arabia	2
Nickel Oxide Nanoparticles Application for Enhancing Biogas Production Using Certain Wastewater Bacteria and Aquatic Macrophytes Biomass	60274043  60108617  60004871  60274951  60004582  60238510	Faculty of Science  Port Said University  Al-Azhar University  Faculty of Science  King Abdulaziz University  Faculty of Sciences, King Abdulaziz University	5.72E+10	5.54E+10	5.92E+10	-	Egypt  Saudi Arabia	2
Relevance of monocrystalline and thin-film technologies in implementing efficient grid-connected photovoltaic systems in historic buildings in Port Fouad city, Egypt	60193233  60108617  60274042  60122462	Dar Al Uloom University  Port Said University  Faculty of Engineering- Port Said University  University of Business and Technology	5.67E+10	5.72E+10	5.72E+10	-	Egypt  Saudi Arabia	2
Evolution of ion-acoustic soliton waves in Venus's ionosphere permeated by the solar wind	60026112  60014841  60012022  60012078  60221156  60011568  60115114  60108617  60274043  60273444  60023356	Benha University  Faculty of Science  Mansoura University  Faculty of Science  Faculty of Science  Tanta University  Academy of Scientific Research & Technology, Cairo  Port Said University  Faculty of Science  Centre for Theoretical Physics  The British University in Egypt	4.75E+10	6.6E+09	4.75E+10	-	Egypt	1
Conceptual design of a novel partially floating photovoltaic integrated with smart energy storage and management system for Egyptian North Lakes	60274042  60108617  60024724	Faculty of Engineering- Port Said University  Port Said University  University of Strathclyde	5.68E+10	8.35E+09	8.35E+09	-	United Kingdom  Egypt	2

Model-assisted active disturbance rejection controller for maximum efficiency schemes of DFIG-based wind turbines	60129547  60016835  60108617  60274042	School of Automation, Beijing Institute of Technology  Beijing Institute of Technology  Port Said University  Faculty of Engineering- Port Said University	5.73E+1 0	5.64E+1 0	5.73E+10	-	China  Egypt	2
A Recommendation System for Electric Vehicles Users Based on Restricted Boltzmann Machine and WaterWheel Plant Algorithms	60231617  60012022  123707192  60273670  60170200  60110524  60016618  60217005  60105146  60107578  60273151  60274042  60108617  60105421	Faculty of Engineering  Mansoura University  Delta Higher Institute of Engineering and Technology  Faculty of Artificial Intelligence  Delta University for Science and Technology  Shaqra University  Ain Shams University  Faculty of Computer and Information Sciences  Princess Nourah Bint Abdulrahman University  Damietta University  Faculty of Computers and Information  Faculty of Engineering- Port Said University  Port Said University  Université Ahmed Draïa - Adrar	3.49E+1 0	5.72E+1 0	34876676400  57191347112  57695465800	-	Algeria  Egypt  Saudi Arabia	3
Experimental investigation of two novel arrangements of air gap membrane distillation module with heat recovery	60274042  60108617  123348060	Faculty of Engineering- Port Said University  Port Said University  Egyptian Academy for Engineering and Advanced Technology Affiliated to Ministry of Military Producti	5.72E+1 0	5.72E+1 0	5.72E+10	-	Egypt	1
A Comparative Study of MPPT for PV System Based on Modified Perturbation Observation Method	60017103  60274042  60108617	Peter the Great St. Petersburg Polytechnic University  Faculty of Engineering- Port Said University  Port Said University	5.72E+1 0	6.6E+09	-	-	Egypt  Russian Federation	2
Optical constants of ternary Cux(Ge30Se70)100-x thin films for solar cell applications	60108699  60274951  60004871  60110525  60027741  60274043  60108617	University of Jeddah  Faculty of Science  Al-Azhar University  Majmaah University  King Khalid University  Faculty of Science  Port Said University	1.3E+10	6.6E+09	1.3E+10	-	Egypt  Saudi Arabia	2
Enviro-economic and optimal hybrid energy system: Photovoltaic-biogas-hydro-battery system in rural areas of Pakistan	60030736  60107589  60105146  60068769  60274043  60108617  60104698	King Faisal University  Abdul Wali Khan University Mardan  Princess Nourah Bint Abdulrahman University  Lebanese American University  Faculty of Science  Port Said University  Al Baha University	2.66E+1 0	3.61E+1 0	2.66E+10	-	Lebanon  Egypt  Saudi Arabia  Pakistan	4
Toward Enhancing the Energy Efficiency and Minimizing the SLA Violations in Cloud Data Centers	60108617  60274081  60110530	Port Said University  Faculty of Management Technology and Information Systems  University of Bisha	5.72E+1 0	5.53E+1 0	5.72E+10	-	Egypt  Saudi Arabia	2
Development and implementation of two-stage boost converter for single-phase inverter without transformer for PV systems	60020322  60239348  60004582  60108617  60274042  60023291  60273996	Suez Canal University  Faculty of Engineering  King Abdulaziz University  Port Said University  Faculty of Engineering- Port Said University  Menoufia University  Faculty of Engineering	5.72E+1 0	3.65E+1 0	5.54E+10	-	Egypt  Saudi Arabia	2
Synthesis, characterization, DFT-TDDFT calculations and optical properties of a novel pyrazole-1,2,3-triazole hybrid thin film	60091164  60227320  60025733  60104697  60004582  60274043  60108617  60008708  60033041  60274042  60104893  60274173  60011568  60221156  60110525  60193407  60273722	Taif University  Faculty of Science  Kafrelsheikh University  Northern Border University  King Abdulaziz University  Faculty of Science  Port Said University  Faculty of Engineering  Alexandria University  Faculty of Engineering- Port Said University  Zewail City of Science and Technology  University of Science and Technology  Tanta University  Faculty of Science  Majmaah University  New Valley University  Faculty of Science	5.34E+1 0	6.51E+0 9	53363409300  36463135100	-	Egypt  Saudi Arabia	2
Heuristic Approach for Net-Zero Energy Residential Buildings in Arid Region Using Dual Renewable Energy Sources	60030736  60108617  60274042  60273335  60029258	King Faisal University  Port Said University  Faculty of Engineering- Port Said University  Faculty of Tourism & Hotel Management  Helwan University	5.77E+1 0	4.38E+1 0	57732309400  43762250600	-	Egypt  Saudi Arabia	2
Correction to: Hydrogen production, storage, utilisation and environmental impacts: a review (Environmental Chemistry Letters,	60029738  60108617  60274043  60092747  60025858  60018830  60018623  60071768	Queen's University Belfast  Port Said University  Faculty of Science  Egyptian Propylene and Polypropylene Company  ETH Zürich  Faculty of Science  South Valley University  Sultan Qaboos University	5.54E+1 0	7.01E+0 9	55362658600  39761537200  57117662400	-	United Kingdom  Oman  Egypt  Switzerland	4

(2022), 20, 1, (153-188), 10.1007/s10311-021-01322-8)								
Enhancing Healing Environment and Sustainable Finishing Materials in Healthcare Buildings	60030736   60274042   60108617   60029258   60273335	King Faisal University   Faculty of Engineering- Port Said University   Port Said University   Helwan University   Faculty of Tourism & Hotel Management	5.77E+1 0	4.38E+1 0	57732309400   43762250600	-	Egypt   Saudi Arabia	2
Aspen Plus simulation of a low capacity organic Rankine cycle heated by solar energy	60011568   60221163   60108617   60274042   60023356   112622616	Tanta University   Faculty of Engineering   Port Said University   Faculty of Engineering- Port Said University   The British University in Egypt   Higher Institute of Engineering and Technology	3.67E+1 0	1.32E+1 0	3.67E+10	-	Egypt	1
New analytical assessment for fast and complete pre-fault restoration of grid-connected FSWTs with fuzzy-logic pitch-angle controller	60020322   60239348   60274042   60108617   60104710   60274484	Suez Canal University   Faculty of Engineering   Faculty of Engineering- Port Said University   Port Said University   Suez University   Faculty of Technology and Education	5.72E+1 0	3.66E+1 0	5.72E+10	-	Egypt	1
Ionospheric losses of Venus in the solar wind	60108617   60274043   60275183   60007253   60023356   60273444   60005322   60121247   60025063   60105222	Port Said University   Faculty of Science   College of Engineering and Technology   Arab Academy for Science, Technology and Maritime Transport   The British University in Egypt   Centre for Theoretical Physics   Ruhr-Universität Bochum   Departement Wiskunde   KU Leuven   Prince Sattam Bin Abdulaziz University	5.72E+1 0	8.92E+0 9	6.6E+09	-	Belgium   Egypt   Saudi Arabia   Germany	4
Multi-functional core-shell pomegranate peel amended alginate beads for phenol decontamination and bio-hydrogen production: Synthesis, characterization, and kinetics investigation	60014618   60274043   60108617   60092747	National Research Centre   Faculty of Science   Port Said University   Egyptian Propylene and Polypropylene Company	4.74E+1 0	7.4E+09	47360967500   57192696143	-	Egypt	1
Effect of using an infrared filter on the performance of a silicon solar cell for an ultra-high concentrator photovoltaic system	60026479   60108617   60274042   60104334	University of Exeter   Port Said University   Faculty of Engineering- Port Said University   Imam Abdulrahman Bin Faisal University	5.72E+1 0	6.6E+09	5.72E+10	-	United Kingdom   Egypt   Saudi Arabia	3
Trajectory optimization for UAV-assisted relay over 5G networks based on reinforcement learning framework	60108617   60274081   60274042	Port Said University   Faculty of Management Technology and Information Systems   Faculty of Engineering- Port Said University	5.72E+1 0	5.72E+1 0	5.72E+10	-	Egypt	1
A fast-tracking MPPT-based modified coot optimization algorithm for PV systems under partial shading conditions	60005762   60071150   60030804   60029157   60274042   60108617   60111225	Universiti Tenaga Nasional   University of Mosul   Swinburne University of Technology   Universiti Malaya   Faculty of Engineering- Port Said University   Port Said University   The Iraqi Ministry of Interior	5.9E+10	5.79E+1 0	5.9E+10	-	Iraq   Egypt   Australia   Malaysia	4
Sustainable Building Optimization Model for Early-Stage Design	60012022   60231617   60108617   60002744   60273396	Mansoura University   Faculty of Engineering   Port Said University   Future University in Egypt   Faculty of Engineering & Technology	6.6E+09	5.72E+1 0	5.72E+10	-	Egypt	1
Potential application of solar still desalination in NEOM region	60110514   60231617   60012022   60216392   60107271   60030736   60274042   60108617   60108699	University of Tabuk   Faculty of Engineering   Mansoura University   Faculty of Engineering   Aswan University   King Faisal University   Faculty of Engineering- Port Said University   Port Said University   University of Jeddah	3.68E+1 0	5.7E+10	3.68E+10	-	Egypt   Saudi Arabia	2
Implementation of boolean PSO for service restoration using distribution network reconfiguration simultaneously with distributed energy	60274042   110240053	Faculty of Engineering- Port Said University   Port-Said Tropical Hospital	6.51E+0 9	5.99E+1 0	6.51E+09	-	Egypt	1

resources and capacitor banks								
Energetic, environmental and economic (3E) analysis of a CSA algorithm optimized floatovoltaic system integrated with heat sink: Modeling with experimental validation	60274042   60108617   60028583	Faculty of Engineering- Port Said University   Port Said University   Kocaeli Üniversitesi	5.65E+10	5.72E+10	5.65E+10	-	Egypt   Turkey	2
Experimental analysis and numerical simulation of biomass pyrolysis	60079227   60016218   60108617   60274042   121850477   60010294	School of Chemical and Metallurgical Engineering   University of the Witwatersrand, Johannesburg   Port Said University   Faculty of Engineering- Port Said University   Higher Future Institute of Engineering and Technology   Cairo University	5.72E+10	5.6E+10	57194448020   55961235600	-	Egypt   South Africa	2
The potential of optimized floating photovoltaic system for energy production in the Northern Lakes of Egypt	60274042   60108617   60273669   60170200   60011568   60221163   60105081	Faculty of Engineering- Port Said University   Port Said University   Faculty of Engineering   Delta University for Science and Technology   Tanta University   Faculty of Engineering   Islamic University of Madinah	5.65E+10	5.72E+10	5.65E+10	-	Egypt   Saudi Arabia	2
Combined experimental and theoretical study, characterization, and nonlinear optical properties of doped-poly (p-nitroaniline -co- o-aminophenol) thin films	60104697   60273722   60193407   60004582   60274043   60108617	Northern Border University   Faculty of Science   New Valley University   King Abdulaziz University   Faculty of Science   Port Said University	5.79E+10	1.63E+10	6.51E+09	-	Egypt   Saudi Arabia	2
An examination of hub wind turbine utilizing fluid-structure interaction strategy	60274042   60108617   60033041   60008708	Faculty of Engineering- Port Said University   Port Said University   Alexandria University   Faculty of Engineering	5.72E+10	6.6E+09	5.72E+10	-	Egypt	1
Facile synthesis of single-crystal of o-phenylene diamine dihydrochloride as a polychloride and fabrication of high-performance semiconductor thin film	60004582   60274043   60108617   60000617   60273722   60273131   60104697   60091666   60029336   60025518   60091164   60107271   60010333	King Abdulaziz University   Faculty of Science   Port Said University   Assiut University   Faculty of Science   Faculty of Science   Northern Border University   University of Carthage, Faculté des Sciences de Bizerte   Bournemouth University   Qassim University   Taif University   Aswan University   Faculty of Science	1.63E+10	8.29E+09	16305817700   6505746085	-	United Kingdom   Tunisia   Egypt   Saudi Arabia	4
Green retrofitting of heritage buildings based on (3Ts) framework: An applied case study	60108617   60274042	Port Said University   Faculty of Engineering- Port Said University	5.79E+10	5.59E+10	5.79E+10	-	Egypt	1
Experimental validation of a low-cost maximum power point tracking technique based on artificial neural network for photovoltaic systems	60108617   60274042	Port Said University   Faculty of Engineering- Port Said University	5.72E+10	5.72E+10	5.72E+10	-	Egypt	1
Comprehensive Review of Renewable Energy Communication Modeling for Smart Systems	60006793   60025390   60108617   60274042	Universidad de Oviedo   University of Nigeria   Port Said University   Faculty of Engineering- Port Said University	5.74E+10	5.72E+10	5.72E+10	-	Spain   Egypt   Nigeria	3
Innovative metaheuristic algorithm with comparative analysis of MPPT for 5.5 kW floating photovoltaic system	60274042   60108617   60013183	Faculty of Engineering- Port Said University   Port Said University   King Saud University	5.72E+10	5.6E+10	5.65E+10	-	Egypt   Saudi Arabia	2
Acid-hydrolysed furfural production from rice straw bio-waste: Process synthesis, simulation, and optimisation	60273423   60023356   60108617   60274042	Faculty of Engineering   The British University in Egypt   Port Said University   Faculty of Engineering- Port Said University	5.75E+10	5.59E+10	5.59E+10	-	Egypt	1



Holistic design of energy-efficient temporary houses: Meeting ventilation, heating, cooling, and lighting demands	60108617  60274042	Port Said University  Faculty of Engineering- Port Said University	5.72E+1 0	3.53E+1 0	5.72E+10	-	Egypt	1
Electrical and thermoelectrical properties of Bi2-xNaxTe3 alloys	60273824  60014101  60273930  60273941  60108617  60274042	Faculty of Science  Sohag University  King Salman International University  Field of Engineering  Port Said University  Faculty of Engineering- Port Said University	3.49E+1 0	3.5E+10	3.49E+10	-	Egypt	1
Solar Chimney Performance Driven Air Ventilation Promotion: An Investigation of Various Configuration Parameters	60274638  60274042  60108617	Buraydah Private Colleges  Faculty of Engineering- Port Said University  Port Said University	-	-	5.72E+10	5.72E+1 0	Egypt  Saudi Arabia	2
A Novel Circuit Configuration for the Integration of Modular Multilevel Converter With Large-Scale Grid-Connected PV Systems	60005762  60274042  60108617  60030804  60104671	Universiti Tenaga Nasional  Faculty of Engineering- Port Said University  Port Said University  Swinburne University of Technology  University of Ha'il	5.72E+1 0	5.59E+1 0	5.72E+10	-	Egypt  Saudi Arabia  Australia  Malaysia	4
High-performance 2D/3D hybrid dimensional p-n heterojunction solar cell with reduced recombination rate by an interfacial layer	60027741  60004871  60274951  60070611  60274043  60108617  60064746	King Khalid University  Al-Azhar University  Faculty of Science  Riphah International University  Faculty of Science  Port Said University  University of Sfax	6.6E+09	3.71E+1 0	5.72E+10	-	Egypt  Tunisia  Saudi Arabia  Pakistan	4
A Novel Model Predictive Speed Controller for PMSG in Wind Energy Systems	60274042  60108617	Faculty of Engineering- Port Said University  Port Said University	5.77E+1 0	5.72E+1 0	5.77E+10	-	Egypt	1
New Analysis Framework of Lyapunov-Based Stability for Hybrid Wind Farm Equipped with FRT: A Case Study of Egyptian Grid Code	60239348  60020322  60108617  60274042	Faculty of Engineering  Suez Canal University  Port Said University  Faculty of Engineering- Port Said University	5.72E+1 0	4.61E+1 0	5.72E+10	-	Egypt	1
Electrical, dielectric, I-V and antimicrobial behavior of cobalt incapacitated Prussian blue graphene ferrites composite	60053707  60070602  60222517  60056462  60027741  123704645  60108617  60274043	University of the Punjab  National University of Computer and Emerging Sciences Lahore  Punjab University College of Pharmacy  University of Engineering and Technology, Lahore  King Khalid University  Laboratoire des matériaux et de l'environnement pour le développement durable LR18ES10  Port Said University  Faculty of Science	5.72E+1 0	6.6E+09	5.72E+10	-	Tunisia  Egypt  Saudi Arabia  Pakistan	4
Optical losses and durability of flawed Fresnel lenses for concentrated photovoltaic application	60026479  60104334  60274042  60108617	University of Exeter  Imam Abdulrahman Bin Faisal University  Faculty of Engineering- Port Said University  Port Said University	5.72E+1 0	6.6E+09	5.72E+10	-	United Kingdom  Egypt  Saudi Arabia	3
Thermal annealing effect on the structural and optical characteristics of silicon phthalocyanine dichloride thin films	60108617  60274042  60020322  60239261  60274043	Port Said University  Faculty of Engineering- Port Said University  Suez Canal University  Faculty of Science  Faculty of Science	9.64E+0 9	5.72E+1 0	5.72E+10	-	Egypt	1
A retrofitting framework for improving curtain wall performance by the integration of adaptive technologies	60108617  60274042  60193233	Port Said University  Faculty of Engineering- Port Said University  Dar Al Uloom University	5.87E+1 0	5.72E+1 0	5.87E+10	-	Egypt  Saudi Arabia	2
Optical component analysis for ultrahigh concentrated photovoltaic system (UHCPV)	60026479  60104334  60274042  60108617	University of Exeter  Imam Abdulrahman Bin Faisal University  Faculty of Engineering- Port Said University  Port Said University	5.72E+1 0	6.6E+09	5.72E+10	-	United Kingdom  Egypt  Saudi Arabia	3

Highly Efficient MPP Tracker Based on Adaptive Neuro-fuzzy Inference System for Stand-Alone Photovoltaic Generator System	60004871  60274955  60017103  60108617  60274042	Al-Azhar University  Faculty of Engineering  Peter the Great St. Petersburg Polytechnic University  Port Said University  Faculty of Engineering- Port Said University	5.72E+1 0	5.72E+1 0	5.78E+10	-	Egypt  Russian Federation	2
Internal Power Balancing of an MMC-Based Large-Scale PV System Under Unbalanced Voltage Sags	60108617  60274042  60005762  60030804  60189940	Port Said University  Faculty of Engineering- Port Said University  Universiti Tenaga Nasional  Swinburne University of Technology  Presidency University Bangalore	5.72E+1 0	5.72E+1 0	57221120034  57928298500	-	India  Egypt  Australia  Malaysia	4
Effect of (SbS) addition on the physical properties of quaternary (CdTe)100-x(SbS)x (0 ≤ x ≤ 28 at. %) glasses and band gap engineering	60027741  60064746  60070319  60070324  60274043  60108617	King Khalid University  University of Sfax  University of Carthage, Institut Préparatoire aux Etudes d'Ingénieurs de Nabeul  University of Carthage  Faculty of Science  Port Said University	2.29E+1 0	6.6E+09	2.29E+10	-	Egypt  Tunisia  Saudi Arabia	3
Effects of turbulence modelling on the predictions of the pressure distribution around the wing of a small scale vertical axis wind turbine	60001881  60108617  60274042	The University of Sheffield  Port Said University  Faculty of Engineering- Port Said University	5.72E+1 0	7E+09	-	-	United Kingdom  Egypt	2
Alloyed Ag <sub>2</sub> SexS <sub>1-x</sub> quantum dots with red to NIR shift: The band gap tuning with dopant content for energy harvesting applications	60104116  123734903  60027741  60108617  60274043  60013164	Jaypee University of Information Technology, Solan  Government Polytechnic Paonta Sahib  King Khalid University  Port Said University  Faculty of Science  Himachal Pradesh University	5.83E+1 0	3.55E+1 0	5.83E+10	-	India  Egypt  Saudi Arabia	3
A reduced vector model predictive controller for a three-level neutral point clamped inverter with common-mode voltage suppression	60105417  60108617  60274042  60029157  60030804  60011313  60104554  60103785  60058937  60122498  60280518	Université d'Echahid Hamma Lakhdar – El-oued  Port Said University  Faculty of Engineering- Port Said University  Universiti Malaya  Swinburne University of Technology  National Academy of Sciences of Ukraine  Institute of Electrodynamics of the National Academy of Sciences of Ukraine  Graphic Era Deemed to be University  Al-Ahliyya Amman University  Graphic Era Hill University  Center for Information-analytical and Technical Support of Nuclear Power Facilities Monitoring of th	5.87E+1 0	5.72E+1 0	55606990800  57189048184	-	Algeria  India  Egypt  Jordan  Australia  Malaysia  Ukraine	7
Hybrid Floating Power Station driven by Renewable Energy for Saudi Arabia Coastal Areas	60280981  60013119  60108617  60274042	Nile Research Institute (NRI)  National Water Research Center (NWRC)  Port Said University  Faculty of Engineering- Port Said University	3.69E+1 0	5.72E+1 0	-	-	Egypt	1
Recent Advances in Floating Photovoltaic Systems	60108617  60025655	Port Said University  Teesside University	5.72E+1 0	5.72E+1 0	5.72E+10	-	United Kingdom  Egypt	2
Fabrication, carrier transport mechanisms and photovoltaic properties of Au/silicon phthalocyanine dichloride/p-Si/Al heterojunction device	60108617  60274042  60020322  60239261  60274043	Port Said University  Faculty of Engineering- Port Said University  Suez Canal University  Faculty of Science  Faculty of Science	5.72E+1 0	3.71E+1 0	5.72E+10	-	Egypt	1
Physical properties and DFT calculations of the hybrid organic polymeric nanocomposite thin film [P(An+o-Aph)+Glycine/TiO <sub>2</sub> ]/HNC with 7.42% power conversion efficiency	60025518  60092702  60216969  60016618  60010333  60107271  60004582  60274043  60108617  60193407  60273722  60104697	Qassim University  Faculty of Women - Ain Shams University  College of Science  Ain Shams University  Faculty of Science  Aswan University  King Abdulaziz University  Faculty of Science  Port Said University  New Valley University  Faculty of Science  Northern Border University	5.72E+1 0	6.51E+0 9	6.51E+09	-	Egypt  Saudi Arabia	2
Simulation of glass fiber reinforced polypropylene nanocomposites for small wind turbine blades	60108617  60274042  60013183  60104893  60274173	Port Said University  Faculty of Engineering- Port Said University  King Saud University  Zewail City of Science and Technology  University of Science and Technology	5.72E+1 0	5.72E+1 0	6.6E+09	-	Egypt  Saudi Arabia	2

Fabrication, characterization and optical properties of poly(p-phenylenediamine-co-o-aminophenol) nanostructure thin film	60104697  60004582  60108617  60274043	Northern Border University  King Abdulaziz University  Port Said University  Faculty of Science	6.51E+09	1.63E+10	6.51E+09	-	Egypt  Saudi Arabia	2
Performance Enhancement of Solar Still Unit Using v-Corrugated Basin, Internal Reflecting Mirror, Flat-Plate Solar Collector and Nanofluids	60020322  60239219  60274042  60108617  60079227  60016218  60026575  60105846	Suez Canal University  Faculty of Agriculture  Faculty of Engineering- Port Said University  Port Said University  School of Chemical and Metallurgical Engineering  University of the Witwatersrand, Johannesburg  University of Oradea  American University of the Middle East	5.64E+10	5.72E+10	55963977100  55961235600	-	Egypt  South Africa  Kuwait  Romania	4
Surface modification of Co3O4 nanostructures using wide range of natural compounds from rotten apple juice for the efficient oxygen evolution reaction	60041178  60035791  60060302  60104289  60008134  60003662  60108617  60013183  60005353  60105146	Mehran University of Engineering & Technology  University of Sindh  NED University of Engineering & Technology  Université de Lorraine  CNRS Centre National de la Recherche Scientifique  Universidad de Málaga  Port Said University  King Saud University  College of Sciences  Princess Nourah Bint Abdulrahman University	5.77E+10	5.72E+10	5.72E+10	-	Egypt  Saudi Arabia  Pakistan  France	4
Experimental study on the motion response of an integrated floating desalination plant and offshore wind turbine on a non-ship platform	60108617  60274042  60024724  60272999  60028225  60016618	Port Said University  Faculty of Engineering- Port Said University  University of Strathclyde  Water Resources and Desert Lands Division  Desert Research Center  Ain Shams University	5.72E+10	8.35E+09	8.35E+09	-	United Kingdom  Egypt	2
Wind-water experimental analysis of small sc-darrieus turbine: An approach for energy production in urban systems	60006793  60274042  60108617	Universidad de Oviedo  Faculty of Engineering- Port Said University  Port Said University	5.72E+10	5.72E+10	5.72E+10	-	Spain  Egypt	2
From seashells to sustainable energy: Trailblazing the utilization of Anadara uropigmelana shells for sustainable biohydrogen production from leftover cooking oil	60014618  60108625  60004238  60033041  60274043  60108617  60092747	National Research Centre  University of Sadat City  Faculty of Science  Alexandria University  Faculty of Science  Port Said University  Egyptian Propylene and Polypropylene Company	4.74E+10	5.72E+10	5.72E+10	-	Egypt	1
A demand side response scheme for enhancing power system security in the presence of wind power	60274042  60108617  60030788	Faculty of Engineering- Port Said University  Port Said University  Hiroshima University	5.72E+10	7E+09	5.72E+10	-	Japan  Egypt	2
A study of 2H and 1T phases of Janus monolayers and their van der Waals heterostructure with black phosphorene for optoelectronic and thermoelectric applications	60070606  60005465  60027741  60274043  60108617	Hazara University Pakistan  University of Electronic Science and Technology of China  King Khalid University  Faculty of Science  Port Said University	5.72E+10	6.6E+09	4.13E+10	-	China  Egypt  Saudi Arabia  Pakistan	4
Fabrication and characterization of polypyrrole/multi-walled carbon nanotubes thin films using thermal evaporation	60004582  60274042  60108617  60274173  60104893  60033041  60008708  60274043  60193407  60273722	King Abdulaziz University  Faculty of Engineering- Port Said University  Port Said University  University of Science and Technology  Zewail City of Science and Technology  Alexandria University  Faculty of Engineering  Faculty of Science  New Valley University  Faculty of Science	5.6E+10	6.51E+09	5.72E+10	-	Egypt  Saudi Arabia	2
Optoelectronic and photo response performance of n-tris phenylpyridinato iridium/p-Si	60274042  60108617  60107578  60273133  60274043	Faculty of Engineering- Port Said University  Port Said University  Damietta University  Faculty of Science  Faculty of Science	5.72E+10	3.71E+10	5.72E+10	-	Egypt	1

heterojunction device for photovoltaic applications								
Study the Effect of Winglet Height Length on the Aerodynamic Performance of Horizontal Axis Wind Turbines Using Computational Investigation	60104698  60324598  60274042  60108617  60273899  60027423	Al Baha University  Institute of Aviation Engineering and Technology  Faculty of Engineering- Port Said University  Port Said University  Faculty of Engineering  Fayoum University	5.58E+10	5.75E+10	5.75E+10	-	Egypt  Saudi Arabia	2
Maximum Power Extraction from Polymer Electrolyte Membrane (PEM) Fuel Cell Based on Deterministic Particle Swarm Optimization Algorithm	60108617  60274042	Port Said University  Faculty of Engineering- Port Said University	5.77E+10	5.72E+10	-	-	Egypt	1
Design and synthesis of high-performance polymer blend solar cell	60004582  60008708  60033041  60108617  60274043  60273722  60193407	King Abdulaziz University  Faculty of Engineering  Alexandria University  Port Said University  Faculty of Science  Faculty of Science  New Valley University	7E+09	6.51E+09	3.65E+10	-	Egypt  Saudi Arabia	2
A simulation study of the effect of post-combustion amine-based carbon-capturing integrated with solar thermal collectors for combined cycle gas power plant	129405422  60273423  60023356  60108617  60274042	Egyptian Methanex Methanol Company (EMethanex)  Faculty of Engineering  The British University in Egypt  Port Said University  Faculty of Engineering- Port Said University	5.81E+10	5.65E+10	5.81E+10	-	Egypt	1
Synthesis, structural and optical characterizations of ZrO2-bromothymol blue nanocomposite thin-film [ZrO2+BTB]C and its application: experimental and TDD-DFT computations	60104697  60273722  60193407  60221156  60011568  60273131  60000617  60004582  60274043  60108617	Northern Border University  Faculty of Science  New Valley University  Faculty of Science  Tanta University  Faculty of Science  Assiut University  King Abdulaziz University  Faculty of Science  Port Said University	5.72E+10	5.9E+10	57208178810  59499324900	-	Egypt  Saudi Arabia	2
Two Bio-inspired MPPT Algorithms to Harvest the Maximum Power from Partially Shaded PV Arrays	60108617  60274042	Port Said University  Faculty of Engineering- Port Said University	5.77E+10	5.72E+10	-	-	Egypt	1
Forecasting wind power based on an improved al-Biruni Earth radius metaheuristic optimization algorithm	60231617  60012022  60277868  123707192  60110524  60217005  60016618  60058937  60109124  60000906  60036479  60043655  60105146  60108617  60274042	Faculty of Engineering  Mansoura University  Mustaqbal University  Delta Higher Institute of Engineering and Technology  Shaqra University  Faculty of Computer and Information Sciences  Ain Shams University  Al-Ahliyya Amman University  Middle East University Jordan  Universiti Sains Malaysia  Al Al-Bayt University  Applied Science Private University  Princess Nourah Bint Abdulrahman University  Port Said University  Faculty of Engineering- Port Said University	5.72E+10	5.72E+10	57191347112  57695465800	-	Egypt  Saudi Arabia  Jordan  Malaysia	4
Forecasting Methods in Various Applications Using Algorithm of Estimation Regression Models and Converting Data Sets into Markov Model	60108617  60274043	Port Said University  Faculty of Science	5.52E+10	6.5E+09	5.52E+10	-	Egypt	1
Waste Cooking Oil Management in Egypt: Production of Biodiesel-Development of Rapid Test Method	60273423  60023356  60012070  60121663  60030612  60274042  60108617  60117770  60023643	Faculty of Engineering  The British University in Egypt  University of Leeds  UC San Diego Jacobs School of Engineering  University of California, San Diego  Faculty of Engineering- Port Said University  Port Said University  Department of Engineering, Lancaster University  Lancaster University	5.72E+10	7.2E+09	5.75E+10	-	United Kingdom  Egypt  United States	3
Experimental investigation of a nano coating efficiency for dust mitigation on	60108617  60274042	Port Said University  Faculty of Engineering- Port Said University	5.72E+10	5.72E+10	5.72E+10	-	Egypt	1

photovoltaic panels in harsh climatic conditions								
Enhanced biohydrogen production from thermally hydrolysed pulp and paper sludge via Al <sub>2</sub> O <sub>3</sub> and Fe <sub>3</sub> O <sub>4</sub> nanoparticles	60026365   60010294   60274043   60108617   60010884   60014618   60002575	Faculty of Science   Cairo University   Faculty of Science   Port Said University   Western University   National Research Centre   Faculty of Engineering	5.72E+10	5.72E+10	5.72E+10	-	Egypt   Canada	2
Probabilistic Assessment of Available Transfer Capability Incorporating Load and Wind Power Uncertainties	60274042   60108617	Faculty of Engineering- Port Said University   Port Said University	5.82E+10	5.72E+10	5.72E+10	-	Egypt	1
Elastic moduli and theoretical estimations of physical properties of Ge <sub>3</sub> Se <sub>7</sub> -As <sub>2</sub> Te <sub>3</sub>	60091164   60027741   60108617   60274043   60108699   60274951   60004871   60110525	Taif University   King Khalid University   Port Said University   Faculty of Science   University of Jeddah   Faculty of Science   Al-Azhar University   Majmaah University	5.72E+10	6.6E+09	57193526449   6602133954	-	Egypt   Saudi Arabia	2
Furosemide drug as a corrosion inhibitor for carbon steel in 1.0 M hydrochloric acid	60274043   60108617   60012022   60012078	Faculty of Science   Port Said University   Mansoura University   Faculty of Science	5.72E+10	5.86E+10	5.72E+10	-	Egypt	1
Combined experimental and TDDFT computational studies of the optical and electrical characteristic of luminol films-doped TiO <sub>2</sub> with 9.027% power conversion efficiency	60025518   60092702   60216969   60016618   60107271   60010333   60004582   60108617   60274043   60193407   60273722   60104697	Qassim University   Faculty of Women - Ain Shams University   College of Science   Ain Shams University   Aswan University   Faculty of Science   King Abdulaziz University   Port Said University   Faculty of Science   New Valley University   Faculty of Science   Northern Border University	5.72E+10	6.51E+09	6.51E+09	-	Egypt   Saudi Arabia	2
Improving Power Quality Problems of Isolated MG Based on ANN Under Different Operating Conditions Through PMS and ASSC Integration	60026746   60274042   60108617   60092747   60027741   60239348   60020322	El Shorouk Academy   Faculty of Engineering- Port Said University   Port Said University   Egyptian Propylene and Polypropylene Company   King Khalid University   Faculty of Engineering   Suez Canal University	5.72E+10	5.72E+10	5.72E+10	-	Egypt   Saudi Arabia	2
Enhancing Misalignment Tolerance Using Naturally Decoupled Identical Dual-Transmitter-Dual-Receiver Coils for Wireless EV Charging System	60029157   60274042   60108617   60030804   60189940	Universiti Malaya   Faculty of Engineering- Port Said University   Port Said University   Swinburne University of Technology   Presidency University Bangalore	5.72E+10	5.79E+10	57216687062   25930079700   57928298500	-	India   Egypt   Australia   Malaysia	4
Effect of the decrease of Pb concentration on the properties of pentamary mixed-halide perovskites CsPb <sub>8-x</sub> Sn <sub>x</sub> IBr <sub>2</sub> and CsPb <sub>8-x</sub> Sn <sub>x</sub> I <sub>2</sub> Br (1≤x≤7) for solar-cell applications: A DFT study	60046149   60003977   60004716   113085648   60027741   60274043   60108617	Atlana Iqbal Open University   Northwestern Polytechnical University   University of Ioannina   National Center for Physics   King Khalid University   Faculty of Science   Port Said University	5.72E+10	6.6E+09	5.72E+10	-	China   Egypt   Saudi Arabia   Pakistan   Greece	5
Reliability and temperature limits of the focal spot of a primary optical component for an ultra-high concentrated photovoltaic system	60026479   60108617   60274042   60104334	University of Exeter   Port Said University   Faculty of Engineering- Port Said University   Imam Abdulrahman Bin Faisal University	5.72E+10	6.6E+09	5.72E+10	-	United Kingdom   Egypt   Saudi Arabia	3
Exploring critical barriers towards the uptake of renewable energy usage in Egypt	60108617   60017406   60009254   60002744   60273396   60016618   60216991	Port Said University   Purdue Polytechnic Institute   Purdue University   Future University in Egypt   Faculty of Engineering & Technology   Ain Shams University   Faculty of Engineering Ain Shams University	5.92E+10	3.62E+10	5.72E+10	-	Egypt   United States	2
Experimental and Numerical Performance Assessment of East-West Bifacial Photovoltaic	60010146   60274042   60108617   60027994	Università degli Studi di Catania   Faculty of Engineering- Port Said University   Port Said University   Enel	5.73E+10	5.69E+10	5.92E+10	-	Egypt   Italy	2

Floating System in Freshwater Basins								
Coupling DFIG-Based Wind Turbines with the Grid under Voltage Imbalance Conditions	60016835  60129547  60274042  60108617  60070813  60273137  60000617  60016297  60019909  60158572	Beijing Institute of Technology  School of Automation, Beijing Institute of Technology  Faculty of Engineering- Port Said University  Port Said University  University of Sharjah  Faculty of Engineering  Assiut University  Saint Mary's University  University of Wisconsin-Milwaukee  College of Engineering & Applied Science	5.73E+10	9.33E+09	1.28E+10	-	United Arab Emirates  China  Egypt  United States  Canada	5
Simulating mitigation scenarios for natural and artificial inlets closure through validated morphodynamic models	60104126  60283164  60012022  60231617  60108617  60274042  60008493	Jouf University  Institute of Science Tokyo  Mansoura University  Faculty of Engineering  Port Said University  Faculty of Engineering- Port Said University  University of California Kearney Agricultural Research and Extension Center	5.61E+10	5.7E+10	5.7E+10	-	Japan  Egypt  Saudi Arabia  United States	4
A novel renewable energy powered zero liquid discharge scheme for RO desalination applications	60108617  60023356  60273423  60146648  60024728	Port Said University  The British University in Egypt  Faculty of Engineering  College of Engineering and Computing  Missouri University of Science and Technology	1.4E+10	5.72E+10	5.72E+10	-	Egypt  United States	2
Graphical analysis and revamping of crude distillation units under variable operational scenarios	127310401  60022148  60146648  60024728  60108617  60010294  60002575	Higher Institute of Engineering and Technology  University College London  College of Engineering and Computing  Missouri University of Science and Technology  Port Said University  Cairo University  Faculty of Engineering	5.79E+10	7.01E+09	5.72E+10	-	United Kingdom  Egypt  United States	3
Technical and economic feasibility of the first wind farm on the coast of Mediterranean Sea	60274043  60108617	Faculty of Science  Port Said University	-	-	-	1.63E+10	Egypt	1
Comprehensive Optimisation of Biodiesel Production Conditions via Supercritical Methanolysis of Waste Cooking Oil	60031237  60023356  60273423  60012070  60108617  60274042  60023643  60117770	London South Bank University  The British University in Egypt  Faculty of Engineering  University of Leeds  Port Said University  Faculty of Engineering- Port Said University  Lancaster University  Department of Engineering, Lancaster University	5.72E+10	7.2E+09	7.2E+09	-	United Kingdom  Egypt	2
Impact of indium content on the thermoelectric power, dark conductivity, and photoconductivity of Ge-As-Te thin films	60027741  60091646  60050038  60091680  60064746  60070319  60070324  60274951  60004871  60108699  60274043  60108617	King Khalid University  Faculté des Sciences de Monastir  Université de Monastir  Faculté des Sciences de Sfax  University of Sfax  University of Carthage, Institut Préparatoire aux Etudes d'Ingénieurs de Nabeul  University of Carthage  Faculty of Science  Al-Azhar University  University of Jeddah  Faculty of Science  Port Said University	9.25E+09	6.6E+09	6.6E+09	-	Egypt  Tunisia  Saudi Arabia	3
A fuzzy-predictive current control with real-time hardware for PEM fuel cell systems	60068741  60030804  60005762  60108617  60274042  60103785  60058937  60122462  60011313  60104554  60280518	Université Ferhat Abbas Sétif 1  Swinburne University of Technology  Universiti Tenaga Nasional  Port Said University  Faculty of Engineering- Port Said University  Graphic Era Deemed to be University  Al-Ahliyya Amman University  University of Business and Technology  National Academy of Sciences of Ukraine  Institute of Electrodynamics of the National Academy of Sciences of Ukraine  Center for Information-analytical and Technical Support of Nuclear Power Facilities Monitoring of th	5.73E+10	5.92E+10	36805436300  57189048184  59198121200	-	Algeria  India  Egypt  Saudi Arabia  Jordan  Australia  Malaysia  Ukraine	8
Hybrid compressed air energy storage system and control strategy for a partially floating photovoltaic plant	60274042  60108617  60024724	Faculty of Engineering- Port Said University  Port Said University  University of Strathclyde	5.68E+10	5.72E+10	8.35E+09	-	United Kingdom  Egypt	2
Real-time V2G simulator for grid system frequency and voltage regulation with fault ride-through capabilities	131371669  60274042  60108617  60020322  60239348	El Ain El Sokhna  Faculty of Engineering- Port Said University  Port Said University  Suez Canal University  Faculty of Engineering	5.72E+10	5.72E+10	5.72E+10	-	Egypt	1
Environmentally-driven design of a floating desalination platform (Case study: Reverse osmosis floating desalination platform of ras gharib, Egypt)	60007253  60272999  60028225  60108617  60274042  60024724  60003269  60141284	Arab Academy for Science, Technology and Maritime Transport  Water Resources and Desert Lands Division  Desert Research Center  Port Said University  Faculty of Engineering- Port Said University  University of Strathclyde  Princeton University  School of Engineering and Applied Science	5.63E+10	8.35E+09	8.35E+09	-	United Kingdom  Egypt  United States	3

Advanced Maximum Adhesion Tracking Strategies in Railway Traction Drives	60006793  60274042  60108617  60111642	Universidad de Oviedo  Faculty of Engineering- Port Said University  Port Said University  Ingeteam, S.A.	5.72E+10	6.7E+09	5.72E+10	-	Spain  Egypt	2
Offshore wind power integration to support weak grid voltage for industrial loads using VSC-HVDC transmission system	60274042  60108617	Faculty of Engineering- Port Said University  Port Said University	3.69E+10	8.32E+09	3.69E+10	-	Egypt	1
Power performance assessment of vertical-axis tidal turbines using an experimental test rig	60006793  60028419  60274042  60108617	Universidad de Oviedo  Universidade de Santiago de Compostela  Faculty of Engineering- Port Said University  Port Said University	5.72E+10	3.53E+10	5.72E+10	-	Spain  Egypt	2
A Modified Phase Shift Control of the Dual Active Bridge-Based Modular Power Electronic Transformer to Minimize the LVdc Side Voltage Ripples under Unbalanced Load Conditions	60274042  60108617  60275166  60275151  60007573  128470429	Faculty of Engineering- Port Said University  Port Said University  College of Engineering & Technology Heliopolis  Arab Academy for Science, Technology and Maritime Transport Heliopolis Campus  Glasgow Caledonian University  The High Institute of Engineering and Technology	2.48E+10	5.72E+10	2.48E+10	-	United Kingdom  Egypt	2
Gamma radiation induced variation in structure formation and optical characteristics of evaporated tris [2-phenylpyridinato-C2,N]iridium(III) films prepared by electron beam evaporator in photovoltaic applications	60108617  60274043  60274042	Port Said University  Faculty of Science  Faculty of Engineering- Port Said University	3.71E+10	5.95E+10	37053581400  57193408017	-	Egypt	1
The Validation and Implementation of the Second-Order Adaptive Fuzzy Logic Controller of a Double-Fed Induction Generator in an Oscillating Water Column	60020322  60239348  60273996  60023291  60238518  60004582  60108617  60274042	Suez Canal University  Faculty of Engineering  Faculty of Engineering  Menoufia University  Faculty of Engineering Rabigh Branch, King Abdulaziz University  King Abdulaziz University  Port Said University  Faculty of Engineering- Port Said University	5.72E+10	5.54E+10	5.54E+10	-	Egypt  Saudi Arabia	2
Life cycle assessments of biofuel production from beach-cast seaweed by pyrolysis and hydrothermal liquefaction	127433852  60023325  60108617  60274042	Institute of Living Systems  Perm National Research Polytechnic University  Port Said University  Faculty of Engineering- Port Said University	5.8E+10	5.72E+10	5.8E+10	-	Egypt  Russian Federation	2
Tunable electronic and magnetic properties of single layer CdS via Li substitutional doping: A first-principle study	60070611  60018308  60059937  60027741  60274043  60108617	Riphah International University  Xi'an Jiaotong University  National University of Sciences and Technology  King Khalid University  Faculty of Science  Port Said University	5.72E+10	6.6E+09	5.72E+10	-	China  Egypt  Saudi Arabia  Pakistan	4
Efficiency of utilizing building information modeling tools for examining smart materials behavior in a hot climate	60274042  60108617	Faculty of Engineering- Port Said University  Port Said University	5.9E+10	5.72E+10	5.9E+10	-	Egypt	1
Electronic, optical and magnetic characteristics of v doped BeS	60078212  60105146  60027741  60108617  60274043  60004871  60274951	University of Agriculture, Faisalabad  Princess Nourah Bint Abdulrahman University  King Khalid University  Port Said University  Faculty of Science  Al-Azhar University  Faculty of Science	5.72E+10	6.6E+09	5.72E+10	-	Egypt  Saudi Arabia  Pakistan	3
Numerical Investigations on Latent Heat Storage Unit using Phase Change Material	60029071  60108617	Saint Petersburg Mining University  Port Said University	5.72E+10	5.65E+10	5.72E+10	-	Egypt  Russian Federation	2

Distortion management of the pulse without and in the presence of Compton scattering in a three level atomic configuration	60089669  60070606  60027741  60108617  60274043	University of Malakand  Hazara University Pakistan  King Khalid University  Port Said University  Faculty of Science	5.72E+1 0	6.6E+09	4.13E+10	-	Egypt  Saudi Arabia  Pakistan	3
High-Performance Glazing for Enhancing Sustainable Environment in Arid Region's Healthcare Projects	60030736  60108617  60274042  60273335  60029258	King Faisal University  Port Said University  Faculty of Engineering- Port Said University  Faculty of Tourism & Hotel Management  Helwan University	5.77E+1 0	4.38E+1 0	57732309400  43762250600	-	Egypt  Saudi Arabia	2
Proposed hybrid power system for short route ferries	60274042  60108617	Faculty of Engineering- Port Said University  Port Said University	1.51E+1 0	2.31E+1 0	-	-	Egypt	1
Maximum Power Point Tracking for Grid-tied PV System Using Adaptive Neuro-Fuzzy Inference System	60004871  60017103  60274042  60108617	Al-Azhar University  Peter the Great St. Petersburg Polytechnic University  Faculty of Engineering- Port Said University  Port Said University	5.72E+1 0	5.72E+1 0	-	-	Egypt  Russian Federation	2
Peridynamic Modelling of Propagation of Cracks in Photovoltaic Panels	60024724  60274042  60108617	University of Strathclyde  Faculty of Engineering- Port Said University  Port Said University	5.78E+1 0	5.78E+1 0	5.78E+10	-	United Kingdom  Egypt	2
A novel EPSO algorithm based on shifted sigmoid function parameters for maximizing the energy yield from photovoltaic arrays: An experimental investigation	60108465  60017103  60108617  60274042	Northern Technical University  Peter the Great St. Petersburg Polytechnic University  Port Said University  Faculty of Engineering- Port Said University	5.75E+1 0	5.72E+1 0	5.72E+10	-	Iraq  Egypt  Russian Federation	3
Enhancement of the performance of wireless sensor networks using the multihop multiantenna power beacon path selection method in intelligent structures	60231617  60012022  60274042  60108617	Faculty of Engineering  Mansoura University  Faculty of Engineering- Port Said University  Port Said University	5.72E+1 0	3.62E+1 0	5.72E+10	-	Egypt	1
Switching schemes of the bidirectional buck-boost converter for energy storage system	60006793  60108617  60274042	Universidad de Oviedo  Port Said University  Faculty of Engineering- Port Said University	5.72E+1 0	7.2E+09	-	-	Spain  Egypt	2
Optimal performance of actuator disc models for horizontal-axis turbines	60002306  60274042  60108617	University of Calgary  Faculty of Engineering- Port Said University  Port Said University	7.4E+09	5.72E+1 0	7.4E+09	-	Egypt  Canada	2
Techno-economic assessment of vertical axis wind turbine driven RO desalination with compressed air energy storage for remote communities	60001881  60091164  60274042  60108617	The University of Sheffield  Taif University  Faculty of Engineering- Port Said University  Port Said University	5.72E+1 0	7E+09	5.72E+10	-	United Kingdom  Egypt  Saudi Arabia	3
Highly flexible wind turbine blades utilizing corrugated surface hinges	60274042  60108617	Faculty of Engineering- Port Said University  Port Said University	-	-	5.72E+10	5.72E+1 0	Egypt	1
Electrical properties of ternary Cux(Ge3Se7)100-x thin films	60091164  60018830  60018623  60004871  60274951  60108699  60110525  60027741  60274043  60108617	Taif University  Faculty of Science  South Valley University  Al-Azhar University  Faculty of Science  University of Jeddah  Majmaah University  King Khalid University  Faculty of Science  Port Said University	5.72E+1 0	6.6E+09	5.72E+10	-	Egypt  Saudi Arabia	2
Enhanced biodiesel production with improved oxidation stability by water addition to	60031237  60012070  60108617  60274042  60023356  60273423  60023643  60117770	London South Bank University  University of Leeds  Port Said University  Faculty of Engineering- Port Said University  The British University in Egypt  Faculty of Engineering  Lancaster University  Department of Engineering, Lancaster University	5.72E+1 0	7.2E+09	7.2E+09	-	United Kingdom  Egypt	2



supercritical methanolysis								
Mechanical properties and band gap estimations of stoichiometric GeSe2-As2Se3 glasses	60091164   60027741   60274043   60108617   60108699   60004871   60274951   60110525	Taif University   King Khalid University   Faculty of Science   Port Said University   University of Jeddah   Al-Azhar University   Faculty of Science   Majmaah University	5.72E+1 0	6.6E+09	57193526449   6602133954	-	Egypt   Saudi Arabia	2
Forecasting of Short-Term and Long-Term Wind Speed of Ras-Gharib Using Time Series Analysis	60274042   60108617	Faculty of Engineering- Port Said University   Port Said University	5.82E+1 0	5.72E+1 0	5.82E+10	-	Egypt	1
Synthesis and evaluation of core-shell nanocomposites for the photodegradation of liner alkyl-benzene sulfonate water contaminations	60108617   60274043	Port Said University   Faculty of Science	5.72E+1 0	5.86E+1 0	5.72E+10	-	Egypt	1
Techno-economic assessment of a novel wind-powered RO system with a compressed air energy storage for water desalination	60108617   60274042   60001881   60091164   60079227   60016218	Port Said University   Faculty of Engineering- Port Said University   The University of Sheffield   Taif University   School of Chemical and Metallurgical Engineering   University of the Witwatersrand, Johannesburg	5.72E+1 0	5.72E+1 0	5.72E+10	-	United Kingdom   Egypt   Saudi Arabia   South Africa	4
Experimental Validation of Second-Order Adaptive Fuzzy Logic Controller for Grid-Connected DFIG Wind Power Plant	60020322   60239348   60023291   60273996   60274042   60108617	Suez Canal University   Faculty of Engineering   Menoufia University   Faculty of Engineering   Faculty of Engineering- Port Said University   Port Said University	5.72E+1 0	5.54E+1 0	5.54E+10	-	Egypt	1
Polymeric solar cell with 18.06% efficiency based on poly(para-nitroaniline)/TiO2 composites	60004582   60274043   60108617   60008708   60033041   60273722   60193407	King Abdulaziz University   Faculty of Science   Port Said University   Faculty of Engineering   Alexandria University   Faculty of Science   New Valley University	5.72E+1 0	6.51E+0 9	3.65E+10	-	Egypt   Saudi Arabia	2
Assessment of Onshore Renewable Energy Power Supply for Ship's Emissions Reduction in Port Said West Port	60274042   60108617	Faculty of Engineering- Port Said University   Port Said University	5.91E+1 0	1.51E+1 0	5.91E+10	-	Egypt	1
A novel hybrid compact system of photovoltaic solar still air gap membrane distillation for the simultaneous production of water and energy	60069831   60043484   129839176   60070838   60274042   60108617	College of Technological Studies Kuwait   The Public Authority of Applied Education and Training   DGYAK Ltd   Armenian National Agrarian University   Faculty of Engineering- Port Said University   Port Said University	5.62E+1 0	5.72E+1 0	5.62E+10	-	Egypt   Armenia   Kuwait	3
Evaluating BIPV Façades in a Building Envelope in Hot Districts for Enhancing Sustainable Ranking: A Saudi Arabian Perspective	60030736   60108617   60274042   60273335   60029258	King Faisal University   Port Said University   Faculty of Engineering- Port Said University   Faculty of Tourism & Hotel Management   Helwan University	5.77E+1 0	4.38E+1 0	57732309400   43762250600	-	Egypt   Saudi Arabia	2
AN APPROXIMATION OF USING VERTICAL-AXIS TIDAL TURBINE FOR WATER DESALINATION IN THE SUEZ CANAL WATERWAY	60108617   60006793	Port Said University   Universidad de Oviedo	5.72E+1 0	5.72E+1 0	5.72E+10	-	Spain   Egypt	2
The Effect of Novel Longitudinal Branched Fins on the Performance of the Latent Heat Accumulator based on	60108617   60274042   60029071	Port Said University   Faculty of Engineering- Port Said University   Saint Petersburg Mining University	5.72E+1 0	5.72E+1 0	5.72E+10	-	Egypt   Russian Federation	2

Shell-and-Tube Configuration								
Design and implementation of voltage source converters in HVDC systems	60104710  60274484  60274042  60108617	Suez University  Faculty of Technology and Education  Faculty of Engineering- Port Said University  Port Said University	5.72E+10	8.32E+09	-	-	Egypt	1
Enhancing the Performance of the Output Active Power of DFIG-Based Wind Turbines Using Auto Disturbance Rejection Control	60129547  60016835  60108617  60274042  60070813	School of Automation, Beijing Institute of Technology  Beijing Institute of Technology  Port Said University  Faculty of Engineering- Port Said University  University of Sharjah	5.73E+10	1.28E+10	-	-	United Arab Emirates  China  Egypt	3
Increased efficiency of hydrokinetic turbines through the use of an obstacle on the channel bottom	60006793  60108617  60274042	Universidad de Oviedo  Port Said University  Faculty of Engineering- Port Said University	5.72E+10	5.72E+10	5.72E+10	-	Spain  Egypt	2
Neural Fuzzy Control of the Indoor Air Quality Onboard a RO-RO Ship Garage	60007253  60274446  60008708  60033041  60274042  60108617	Arab Academy for Science, Technology and Maritime Transport  College of Engineering and Technology  Faculty of Engineering  Alexandria University  Faculty of Engineering- Port Said University  Port Said University	5.72E+10	5.72E+10	5.72E+10	-	Egypt	1
Investigating the Kinetic Parameters in the Thermal Analysis of Jojoba Cake	60010294  60002575  60274042  60108617	Cairo University  Faculty of Engineering  Faculty of Engineering- Port Said University  Port Said University	5.85E+10	7.01E+09	5.85E+10	-	Egypt	1
Synthesis, Structural, Time-Dependent Density-Functional Theory, Thermal Annealing and Optical Properties for Doped Polymer Nanostructured Thin Films as Optoelectronic Devices	60104697  60004582  60274043  60108617	Northern Border University  King Abdulaziz University  Faculty of Science  Port Said University	6.51E+09	1.63E+10	6.51E+09	-	Egypt  Saudi Arabia	2
Design and Three-Dimensional Simulation of a Solar Dish-Stirling Engine	60274042  60108617	Faculty of Engineering- Port Said University  Port Said University	3.53E+10	5.1E+10	3.53E+10	-	Egypt	1
Experimental and numerical investigation of a three-blade horizontal axis hydrokinetic water turbine (HAHWT) in high blockage conditions	60017293  60006793  60274042  60108617	Università degli Studi di Napoli Federico II  Universidad de Oviedo  Faculty of Engineering- Port Said University  Port Said University	5.72E+10	5.8E+10	5.72E+10	-	Spain  Egypt  Italy	3
PVSails: Harnessing Innovation With Vertical Bifacial PV Modules in Floating Photovoltaic Systems	60010146  60108617  60274042  119021383  131578607	Università degli Studi di Catania  Port Said University  Faculty of Engineering- Port Said University  Koiné Multimedia  Solar Marine Energy Ltd	5.92E+10	3.58E+10	5.92E+10	-	Egypt  Ireland  Italy	3
Experimental and Simulation Study of Solar-Powered Air-Gap Membrane Distillation Technology for Water Desalination	60020322  60239219  60108617  60274042  60013183  60026575  60105463  60016218  60079227	Suez Canal University  Faculty of Agriculture  Port Said University  Faculty of Engineering- Port Said University  King Saud University  University of Oradea  Université d'ain Témouchent, Belhadj Bouchaib  University of the Witwatersrand, Johannesburg  School of Chemical and Metallurgical Engineering	5.64E+10	5.72E+10	57193261423  55963977100  57194448020	-	Algeria  Egypt  Saudi Arabia  South Africa  Romania	5
A Centralized Protection Scheme for Microgrids with Artificial Neural Network-Based on Fault Detection and Location	60108617  60274042	Port Said University  Faculty of Engineering- Port Said University	5.72E+10	6.51E+09	-	-	Egypt	1

Critical Assessment of Current State of the Art in Wearable Sensor Nodes with Energy Harvesting Systems for Healthcare Applications	118208541  60102538  60108617  60274042  60027314  60004572	Al-Madinah Higher Institute for Engineering and Technology  Karlsruher Institut für Technologie  Port Said University  Faculty of Engineering- Port Said University  Karlsruher Institut für Technologie, Campus Nord  Swansea University	5.8E+10	5.72E+10	5.48E+10	-	United Kingdom  Egypt  Germany	3
A Comparative Study of Two Metaheuristic MPPT Techniques to Extract Maximum Power from PV Array under Different Partial Shading Patterns	60108617  60274042	Port Said University  Faculty of Engineering- Port Said University	5.72E+10	5.72E+10	5.72E+10	-	Egypt	1
Vsc-hvdc control system	60274484  60104710  60274042  60108617	Faculty of Technology and Education  Suez University  Faculty of Engineering- Port Said University  Port Said University	5.72E+10	8.32E+09	5.72E+10	-	Egypt	1
Fuzzy Logic-Pitch Angle Controller for SCIG based Wind Turbine	60239348  60020322  60108617  60274042	Faculty of Engineering  Suez Canal University  Port Said University  Faculty of Engineering- Port Said University	5.72E+10	6.51E+09	5.72E+10	-	Egypt	1
An Integrated Approach for Demand Response and Wind Curtailment Management in Distribution Systems	60108617  60274042	Port Said University  Faculty of Engineering- Port Said University	5.82E+10	5.72E+10	5.72E+10	-	Egypt	1
Aeroelastic modelling of tail fins for small wind turbines	60108617  60274042  60002306	Port Said University  Faculty of Engineering- Port Said University  University of Calgary	5.72E+10	7.4E+09	-	-	Egypt  Canada	2
DFT Study of Lead-Free Mixed-Halide Materials Cs <sub>2</sub> X <sub>2</sub> Y <sub>2</sub> (X, Y = F, Cl, Br, I) for Optoelectronic Applications	60046149  60004716  60027741  60108617  60274043	Allama Iqbal Open University  University of Ioannina  King Khalid University  Port Said University  Faculty of Science	5.72E+10	6.6E+09	5.72E+10	-	Egypt  Saudi Arabia  Pakistan  Greece	4
Hybrid MPPT-based predictive speed control model for variable speed PMSG wind energy conversion systems	60108617	Port Said University	5.83E+10	5.72E+10	3.69E+10	-	Egypt	1
Production and characterization of bio-oil from camelthorn plant using slow pyrolysis	60273194  60023356  60079227  60016218  60108617  60274042	Faculty of Energy & Environmental Engineering  The British University in Egypt  School of Chemical and Metallurgical Engineering  University of the Witwatersrand, Johannesburg  Port Said University  Faculty of Engineering- Port Said University	5.72E+10	5.72E+10	55961235600  57193261423	-	Egypt  South Africa	2
Performance Assessment of Artificial Neural Networks-Based MPPT Technique for Photovoltaic Systems	60274042  60108617	Faculty of Engineering- Port Said University  Port Said University	5.92E+10	5.72E+10	-	-	Egypt	1
Optimal Energy Management of VPP-Based Energy Storage Considering Renewable Energy Integration and EV Charging	60108617  60274042	Port Said University  Faculty of Engineering- Port Said University	5.97E+10	6.51E+09	5.97E+10	-	Egypt	1
Surface plasmon polariton at the interface of dielectric and graphene medium using the Doppler broadening effect	60070606  60027741  60274043  60108617	Hazara University Pakistan  King Khalid University  Faculty of Science  Port Said University	5.78E+10	6.6E+09	4.13E+10	-	Egypt  Saudi Arabia  Pakistan	3
Geometrically nonlinear transient analysis of Timoshenko tapered beam-column element using a finite element	60274042  60108617  60020322  60239348	Faculty of Engineering- Port Said University  Port Said University  Suez Canal University  Faculty of Engineering	5.77E+10	6.51E+09	5.77E+10	-	Egypt	1

formulation based on the exact shape functions								
Efficient offloading and task scheduling in internet of things-cloud-fog environment	60239348  60020322  60274042  60108617	Faculty of Engineering  Suez Canal University  Faculty of Engineering- Port Said University  Port Said University	5.73E+1 0	5.72E+1 0	5.92E+10	-	Egypt	1
First principle study of er, co-doped fe and yb of nabif6; a promising materials for optoelectronic and transport properties; probed by dft	60070606  60070611  60059937  60107589  126629825  60027741  60274043  60108617  60159511  60259857	Hazara University Pakistan  Riphah International University  National University of Sciences and Technology  Abdul Wali Khan University Mardan  Government Post Graduate College Swabi  King Khalid University  Faculty of Science  Port Said University  University of Swabi  The Government Sadiq College Women University Bahawalpur	5.8E+10	6.6E+09	5.59E+10	-	Egypt  Saudi Arabia  Pakistan	3
Hybrid concentrator photovoltaic/membrane distillation system for potable water production using new fabricated PS/ZIF_L membrane	60231617  60012022  60011047  60274042  60108617  60010333  60107271  60273876  60117075  60032860  60273117  60033041  60008708	Faculty of Engineering  Mansoura University  Kyushu University  Faculty of Engineering- Port Said University  Port Said University  Faculty of Science  Aswan University  Faculty of Engineering  Egypt-Japan University of Science and Technology  City of Scientific Research and Technological Applications  Advanced Technology and New Materials Research Institute  Alexandria University  Faculty of Engineering	5.72E+1 0	7.01E+0 9	5.72E+10	-	Japan  Egypt	2
Oleaginous fungi as a sustainable source for biodiesel production: Current and future prospect	60108617  60274043  60239261  60020322  60015706	Port Said University  Faculty of Science  Faculty of Science  Suez Canal University  University of the Free State	5.85E+1 0	5.91E+1 0	5.85E+10	-	Egypt  South Africa	2
Optimal planning for sustainable and cost-effective power generation on the Red Sea coast	60274043  60108617	Faculty of Science  Port Said University	-	-	-	1.63E+1 0	Egypt	1
Thin film synthesis and photovoltaic performance of polypyrrole@cobalt hydroxide composites for solar cells and optoelectronic devices	60004582  60033041  60008708  60274043  60108617  60273722  60193407  60010333  60107271	King Abdulaziz University  Alexandria University  Faculty of Engineering  Faculty of Science  Port Said University  Faculty of Science  New Valley University  Faculty of Science  Aswan University	7E+09	8.29E+0 9	3.65E+10	-	Egypt  Saudi Arabia	2
The nonlinear behavior of generic tail fins for small wind turbines	60003003  60274042  60108617  60030451  60014313  60152069  60002306	Università degli Studi di Perugia  Faculty of Engineering- Port Said University  Port Said University  National Renewable Energy Laboratory  University of Massachusetts Amherst  College of Engineering  University of Calgary	5.72E+1 0	7.4E+09	7.4E+09	-	Egypt  United States  Italy  Canada	4
Finite Element Analysis for Dynamic Simulation of Composite HAWT Blade	60274042  60108617	Faculty of Engineering- Port Said University  Port Said University	5.85E+1 0	5.72E+1 0	5.7E+10	-	Egypt	1
High-voltage direct current transmission	60104710  60274484  60274042  60108617	Suez University  Faculty of Technology and Education  Faculty of Engineering- Port Said University  Port Said University	5.72E+1 0	8.32E+0 9	5.72E+10	-	Egypt	1
A solar energy-based shore side power system for a ferry service across the Suez Canal	60274042  60108617  60010934  60025225	Faculty of Engineering- Port Said University  Port Said University  National Oceanography Centre Southampton  University of Southampton	5.68E+1 0	5.72E+1 0	5.68E+10	-	United Kingdom  Egypt	2
African vulture optimizer algorithm for fuzzy logic speed controller of fuel cell electric vehicle	60020322  60239348  60004582  60238518  60108617  60274042	Suez Canal University  Faculty of Engineering  King Abdulaziz University  Faculty of Engineering Rabigh Branch, King Abdulaziz University  Port Said University  Faculty of Engineering- Port Said University	5.72E+1 0	5.28E+1 0	5.72E+10	-	Egypt  Saudi Arabia	2
Vsc-hvdc under ac and dc fault conditions	60274484  60104710  60274042  60108617	Faculty of Technology and Education  Suez University  Faculty of Engineering- Port Said University  Port Said University	5.72E+1 0	8.32E+0 9	5.72E+10	-	Egypt	1
Photovoltaic-Powered Smart Aquaponic System: Integrating IoT and AI for Sustainable Food Production and Fish Health Management	60108617  60274042	Port Said University  Faculty of Engineering- Port Said University	3.62E+1 0	5.72E+1 0	-	-	Egypt	1

Experimental Examination of Enhanced Nanoceramic-Based Self-Cleaning Sprays for High-Efficiency Hydrophobic Photovoltaic Panels	60273423  60023356  60108617  60274042  60026365  60010294  60273194  60002575	Faculty of Engineering  The British University in Egypt  Port Said University  Faculty of Engineering- Port Said University  Faculty of Science  Cairo University  Faculty of Energy & Environmental Engineering  Faculty of Engineering	5.94E+1 0	6.51E+0 9	6.51E+09	-	Egypt	1
Protection of Wind Turbine Generators Using Microcontroller-Based Applications	60104710  60274484  60274042  60108617	Suez University  Faculty of Technology and Education  Faculty of Engineering- Port Said University  Port Said University	5.72E+1 0	3.66E+1 0	-	-	Egypt	1
INTERNET OF ENERGY APPLIED TO WATER HYDROKINETIC SMART-GRIDS: A TEST RIG EXAMPLE	60108617  60006793	Port Said University  Universidad de Oviedo	5.72E+1 0	5.6E+10	5.72E+10	-	Spain  Egypt	2
SM-BIM: A NEW CONCEPTUAL FRAMEWORK FOR MULTI-CRITERIA DECISION-MAKING PROCESS BASED ON SMART MATERIALS AND BUILDING INFORMATION MODELING	60274042	Faculty of Engineering- Port Said University	5.9E+10	5.72E+1 0	5.9E+10	-	Egypt	1
Estimating the energy consumption for residential buildings in semiarid and arid desert climate using artificial intelligence	60108617  60002744  60273396	Port Said University  Future University in Egypt  Faculty of Engineering & Technology	5.72E+1 0	5.72E+1 0	5.72E+10	-	Egypt	1
Graphical Revamping of a Crude Distillation Unit under Two Variable Operational Scenarios - Naphtha Stabilizer and Reformer Operated	124796734  60023356  60273423  60121663  60030612  60108617  60002575  60010294	Higher Institute of Engineering and Technology  The British University in Egypt  Faculty of Engineering  UC San Diego Jacobs School of Engineering  University of California, San Diego  Port Said University  Faculty of Engineering  Cairo University	5.79E+1 0	7.01E+0 9	5.72E+10	-	Egypt  United States	2
Static and dynamic analysis of a new offshore wind turbine system supported with outriggers	60020322  60108617	Suez Canal University  Port Said University	5.77E+1 0	5.77E+1 0	5.77E+10	-	Egypt	1
Performance Assessment of T-Source Inverter Fed Induction Motor Drives Based on Photovoltaics	128268763  60273996  60023291  60108617  60274042	Delta Technological University  Faculty of Engineering  Menoufia University  Port Said University  Faculty of Engineering- Port Said University	5.72E+1 0	5.54E+1 0	-	-	Egypt	1
Conversion of Fish Waste Oil into Biofuel: An Experimental Study	60273423  60023356  60024728  60146648  60108617  60016218	Faculty of Engineering  The British University in Egypt  Missouri University of Science and Technology  College of Engineering and Computing  Port Said University  University of the Witwatersrand, Johannesburg	5.94E+1 0	5.94E+1 0	5.72E+10	-	Egypt  South Africa  United States	3
Study Network Reconfiguration Using Optimization Techniques to Improve Voltage Stability	60108617  60274042  60033041	Port Said University  Faculty of Engineering- Port Said University  Alexandria University	5.72E+1 0	3.69E+1 0	-	-	Egypt	1
Estimation of density of charged defect states in some glasses of SeTeSnPb system using low-temperature d.c. conductivity measurements	60114077  60282667  60027741  60108617  60274043  60008721	GLA University, Mathura  Mahatma Gandhi Central University  King Khalid University  Port Said University  Faculty of Science  Banaras Hindu University	5.72E+1 0	9.63E+0 9	9.63E+09	-	India  Egypt  Saudi Arabia	3
Power grids with renewable energy: Storage, integration and digitalization	60108617  60002306	Port Said University  University of Calgary	7E+09	7.1E+09	-	-	Egypt  Canada	2

Green Hydrogen Production from Ethanol Electrolysis Using Co/Ni Bimetallic Nanoparticles-Incorporated Carbon Nanofibers	60009750  60274625  60274042  60108617  60281135	Minia University  Faculty of Engineering  Faculty of Engineering- Port Said University  Port Said University  University of Technology and Applied Sciences Suhar	2.17E+10	1.51E+10	2.17E+10	-	Egypt  Oman	2
Experimentally validated simplified prediction model of unloaded spar-buoy wave energy converter motions' responses in waves	60007253  60108617  60274042  60024724	Arab Academy for Science, Technology and Maritime Transport  Port Said University  Faculty of Engineering- Port Said University  University of Strathclyde	5.63E+10	7E+09	5.63E+10	-	United Kingdom  Egypt	2
Joint Reflection Design and Channel Estimation for Intelligent Reflective Surfaces	60170200  60273669  60274042  60108617	Delta University for Science and Technology  Faculty of Engineering  Faculty of Engineering- Port Said University  Port Said University	2.48E+10	4.22E+10	-	-	Egypt	1
Protective Schemes for Induction Generator	60104710  60274484  60274042  60108617	Suez University  Faculty of Technology and Education  Faculty of Engineering- Port Said University  Port Said University	5.72E+10	3.66E+10	5.72E+10	-	Egypt	1
Conclusions and Future Work	60104710  60274484  60274042  60108617	Suez University  Faculty of Technology and Education  Faculty of Engineering- Port Said University  Port Said University	5.72E+10	3.66E+10	5.72E+10	-	Egypt	1
Vsc-hvdc simulation results	60104710  60274484  60108617  60274042	Suez University  Faculty of Technology and Education  Port Said University  Faculty of Engineering- Port Said University	5.72E+10	8.32E+09	5.72E+10	-	Egypt	1
Diagnostic Strategies for Microturbines Operating Status Applied to Predictive Maintenance: Experimental Test Case	60006793  60108617  60274042	Universidad de Oviedo  Port Said University  Faculty of Engineering- Port Said University	5.72E+10	5.87E+10	5.72E+10	-	Spain  Egypt	2
Co-Flow Jet Effects on the Aerodynamic Performance of National Renewable Energy Laboratory Aerofoils with Different Thicknesses for Wind Turbine Applications	60289775  60274955  60004871  60108617	University of Derna  Faculty of Engineering  Al-Azhar University  Port Said University	5.93E+10	5.87E+10	5.93E+10	-	Egypt  Libya	2
Wind Tunnel and OpenFOAM Flow Analysis of A High Solidity Vertical-Axis Wind Turbine	60108617  60274042  60006793	Port Said University  Faculty of Engineering- Port Said University  Universidad de Oviedo	5.72E+10	5.72E+10	5.72E+10	-	Spain  Egypt	2
High-Power Three-Port Converter for Efficient EV Fast Charging Using Partial Power Processing	60030804  60029157  60274042  60108617  60104671	Swinburne University of Technology  Universiti Malaya  Faculty of Engineering- Port Said University  Port Said University  University of Ha'il	5.79E+10	5.97E+10	57872541300  57928298500	-	Egypt  Saudi Arabia  Australia  Malaysia	4
Conclusions and future work	60104710  60274484  60108617  60274042	Suez University  Faculty of Technology and Education  Port Said University  Faculty of Engineering- Port Said University	5.72E+10	8.32E+09	5.72E+10	-	Egypt	1
Experimental Setups and Results for Digital Relay Protection	60274484  60104710  60108617  60274042	Faculty of Technology and Education  Suez University  Port Said University  Faculty of Engineering- Port Said University	5.72E+10	3.66E+10	5.72E+10	-	Egypt	1
Solar wind effect on the multi-fluid plasma expansion in the Venusian upper ionosphere	60005322  60007253  60108617  60274043  60273444  60023356  60025063  60121247	Ruhr-Universitat Bochum  Arab Academy for Science, Technology and Maritime Transport  Port Said University  Faculty of Science  Centre for Theoretical Physics  The British University in Egypt  KU Leuven  Departement Wiskunde	5.72E+10	5.62E+10	5.72E+10	-	Belgium  Egypt  Germany	3
Simulation and Optimization of Waste Heat to Electricity through Organic Rankine Cycles (ORCs): a Case Study in an Oil Refinery	60273423  60023356  60108617  60022148	Faculty of Engineering  The British University in Egypt  Port Said University  University College London	5.72E+10	5.72E+10	5.72E+10	-	United Kingdom  Egypt	2
Remagnetization Strategies for Induction Machines Operating with Reduced Flux Levels	60006793  60108617  60274042  60111642	Universidad de Oviedo  Port Said University  Faculty of Engineering- Port Said University  Ingeteam, S.A.	5.72E+10	6.7E+09	-	-	Spain  Egypt	2

An Evaluation of Firefly and Flower Pollination Techniques Used to Harvest Maximum Power from PEMFC	60274042   60108617	Faculty of Engineering- Port Said University   Port Said University	5.77E+10	6.6E+09	5.77E+10	-	Egypt	1
Fabrication, photovoltaic analysis, and electrical characterization of Au/ZnTPyP/p-Si/Ag heterojunction under gamma radiation effect for solar cell applications	60108617   60274043   60274042	Port Said University   Faculty of Science   Faculty of Engineering- Port Said University	3.71E+10	5.72E+10	3.71E+10	-	Egypt	1
New Efficient Configurations for Sour Wastewater Treatment	60274042   60108617   60023356   60273423   60010294   60002575   60273442   60121663   60030612	Faculty of Engineering- Port Said University   Port Said University   The British University in Egypt   Faculty of Engineering   Cairo University   Faculty of Engineering   Nanotechnology Research Center   UC San Diego Jacobs School of Engineering   University of California, San Diego	1.4E+10	5.72E+10	5.72E+10	-	Egypt   United States	2
A Multi-Objective Approach for Available Transfer Capability Considering Capability Curve of DFIG Wind Farm	60274042   60108617	Faculty of Engineering- Port Said University   Port Said University	5.82E+10	6.5E+09	5.82E+10	-	Egypt	1
Fully symbolic-based technique for solving complex state-space control systems	60108617   60274042   60104126   60002575   60010294	Port Said University   Faculty of Engineering- Port Said University   Jof University   Faculty of Engineering   Cairo University	5.64E+10	6.7E+09	5.64E+10	-	Egypt   Saudi Arabia	2
Maximizing Renewable Energy Integration through Demand Response Strategies in Distribution Systems Considering Uncertainties	60108617   60274042	Port Said University   Faculty of Engineering- Port Said University	5.82E+10	3.69E+10	5.82E+10	-	Egypt	1
Better heat and power integration of an existing gas-oil plant in Egypt through revamping the design and organic rankine cycle	60108617   60274042   60023356   60273423   100467224   60002575   60010294   60273442	Port Said University   Faculty of Engineering- Port Said University   The British University in Egypt   Faculty of Engineering   College of Technology   Faculty of Engineering   Cairo University   Nanotechnology Research Center	1.4E+10	5.72E+10	5.72E+10	-	Egypt   Kuwait	2
Graphical revamping of a delayed coker unit: A case study from an Egyptian refinery	60069831   60043484   60274042   60108617   60016218   60028037   60002575   60010294   60146648   60024728	College of Technological Studies Kuwait   The Public Authority of Applied Education and Training   Faculty of Engineering- Port Said University   Port Said University   University of the Witwatersrand, Johannesburg   Zhejiang Ocean University   Faculty of Engineering   Cairo University   College of Engineering and Computing   Missouri University of Science and Technology	3.57E+10	5.78E+10	5.72E+10	-	China   Egypt   United States   South Africa   Kuwait	5
Transient Behavior of Induction Generator Protective Relays	60274484   60104710   60108617   60274042	Faculty of Technology and Education   Suez University   Port Said University   Faculty of Engineering- Port Said University	5.72E+10	3.66E+10	5.72E+10	-	Egypt	1
Introduction	60104710   60274484   60274042   60108617	Suez University   Faculty of Technology and Education   Faculty of Engineering- Port Said University   Port Said University	5.72E+10	8.32E+09	5.72E+10	-	Egypt	1
Experimental investigation for hvdc system	60104710   60274484   60108617   60274042	Suez University   Faculty of Technology and Education   Port Said University   Faculty of Engineering- Port Said University	5.72E+10	8.32E+09	5.72E+10	-	Egypt	1
THERMODYNAMIC ANALYSIS AND EXPERIMENTAL STUDY OF ALTERNATIVE BIOFUELS USING SAWDUST SLOW PYROLYSIS	60079227   60016218   60108617   60274042   126708671   60010294	School of Chemical and Metallurgical Engineering   University of the Witwatersrand, Johannesburg   Port Said University   Faculty of Engineering- Port Said University   Higher Future Institute of Engineering and Technology   Cairo University	5.72E+10	5.6E+10	5.72E+10	-	Egypt   South Africa	2
Experimental Investigation into the Effects of Flat Plate Guiding Walls on the	60001821   60108617   60274042   60008920	Universiti Kebangsaan Malaysia   Port Said University   Faculty of Engineering- Port Said University   Taibah University	5.76E+10	5.52E+10	5.52E+10	-	Egypt   Saudi Arabia   Malaysia	3

Performance of Vertical Axis Wind Turbine								
Introduction and Previous Work	60104710  60274484  60108617  60274042	Suez University  Faculty of Technology and Education  Port Said University  Faculty of Engineering- Port Said University	5.72E+10	3.66E+10	5.72E+10	-	Egypt	1
A Simplified Non-Linear Active Disturbance Rejection Control for Electric Traction Drives	60108617  60274042  60000636	Port Said University  Faculty of Engineering- Port Said University  Universidad San Sebastián	5.72E+10	5.73E+10	5.72E+10	-	Chile  Egypt	2

Title	All Science Journal Classification (ASJC) code	All Science Journal Classification (ASJC) field name	Quacquarelli Symonds (QS) Subject area code	Quacquarelli Symonds (QS) Subject area field name	Quacquarelli Symonds (QS) Subject code	Quacquarelli Symonds (QS) Subject field name	Times Higher Education (THE) code	Times Higher Education (THE) field name
Hydrogen production, storage, utilisation and environmental impacts: a review	2304	Environmental Chemistry	4  2	Natural Sciences  Engineering & Technology	249  424	Engineering - Petroleum  Environmental Sciences	37	Physical Sciences
Conversion of biomass to biofuels and life cycle assessment: a review	2304	Environmental Chemistry	2  4	Engineering & Technology  Natural Sciences	424  249	Environmental Sciences  Engineering - Petroleum	37	Physical Sciences
Biochar for agronomy, animal farming, anaerobic digestion, composting, water treatment, soil remediation, construction, energy storage, and carbon sequestration: a review	2304	Environmental Chemistry	4  2	Natural Sciences  Engineering & Technology	249  424	Engineering - Petroleum  Environmental Sciences	37	Physical Sciences
Methods to prepare biosorbents and magnetic sorbents for water treatment: a review	2304	Environmental Chemistry	2  4	Engineering & Technology  Natural Sciences	424  249	Environmental Sciences  Engineering - Petroleum	37	Physical Sciences
Membrane Technology for Energy Saving: Principles, Techniques, Applications, Challenges, and Prospects	2102  2301  2303  2311	Energy Engineering and Power Technology  Environmental Science (miscellaneous)  Ecology  Waste Management and Disposal	2  4  3	Engineering & Technology  Natural Sciences  Social Sciences & Management	424  249  221	Environmental Sciences  Engineering - Petroleum  Engineering - Electrical & Electronic	36  37	Engineering  Physical Sciences
Materials, fuels, upgrading, economy, and life cycle assessment of the pyrolysis of algal and lignocellulosic biomass: a review	2304	Environmental Chemistry	2  4	Engineering & Technology  Natural Sciences	249  424	Engineering - Petroleum  Environmental Sciences	37	Physical Sciences
Optimizing biomass pathways to bioenergy and biochar application in electricity generation, biodiesel production, and biohydrogen production	2304	Environmental Chemistry	4  2	Natural Sciences  Engineering & Technology	424  249	Environmental Sciences  Engineering - Petroleum	37	Physical Sciences
An Optimized Hybrid Fractional Order Controller for Frequency Regulation in Multi-Area Power Systems	1700  2200  2500	General Computer Science  General Engineering  General Materials Science	2	Engineering & Technology	433  212	Materials Science  Computer Science & Information Systems	36  38	Engineering  Computer Science



Thermochemical conversion strategies of biomass to biofuels, techno-economic and bibliometric analysis: A conceptual review	1500   1501   1508   2200   2301   2310   2311	General Chemical Engineering   Chemical Engineering (miscellaneous)   Process Chemistry and Technology   General Engineering   Environmental Science (miscellaneous)   Pollution   Waste Management and Disposal	3   2	Social Sciences & Management   Engineering & Technology	424   219   249	Environmental Sciences   Engineering - Chemical   Engineering - Petroleum	36   37	Engineering   Physical Sciences
Biofuel production, hydrogen production and water remediation by photocatalysis, biocatalysis and electrocatalysis	2304	Environmental Chemistry	2   4	Engineering & Technology   Natural Sciences	424   249	Environmental Sciences   Engineering - Petroleum	37	Physical Sciences
Design and fabrication of Fe <sub>2</sub> O <sub>3</sub> /FeP heterostructure for oxygen evolution reaction electrocatalysis	2210   2211   2505   2506	Mechanical Engineering   Mechanics of Materials   Materials Chemistry   Metals and Alloys	4   2	Natural Sciences   Engineering & Technology	222   433	Engineering - Mechanical   Materials Science	36	Engineering
Recent Advances in Biomass Pyrolysis Processes for Bioenergy Production: Optimization of Operating Conditions	1701   1705   1708   2102   2105   2301   2308   3305	Computer Science (miscellaneous)   Computer Networks and Communications   Hardware and Architecture   Energy Engineering and Power Technology   Renewable Energy, Sustainability and the Environment   Environmental Science (miscellaneous)   Management, Monitoring, Policy and Law   Geography, Planning and Development	3   2	Social Sciences & Management   Engineering & Technology	249   221   424   212   425	Engineering - Petroleum   Engineering - Electrical & Electronic   Environmental Sciences   Computer Science & Information Systems   Geography	40   38   36   37	Social Sciences   Computer Science   Engineering   Physical Sciences
An Adaptive D-FACTS for Power Quality Enhancement in an Isolated Microgrid	1700   2200   2208   2500	General Computer Science   General Engineering   Electrical and Electronic Engineering   General Materials Science	2	Engineering & Technology	249   212   433   221	Engineering - Petroleum   Computer Science & Information Systems   Materials Science   Engineering - Electrical & Electronic	38   36	Computer Science   Engineering
Optimum Modified Fractional Order Controller for Future Electric Vehicles and Renewable Energy-Based Interconnected Power Systems	1700   2200   2500	General Computer Science   General Engineering   General Materials Science	2	Engineering & Technology	212   433	Computer Science & Information Systems   Materials Science	36   38	Engineering   Computer Science
Recent advances in greenly synthesized nanoengineered materials for water/wastewater remediation: an overview	1502   2304   2305	Bioengineering   Environmental Chemistry   Environmental Engineering	4   2	Natural Sciences   Engineering & Technology	249   219   424	Engineering - Petroleum   Engineering - Chemical   Environmental Sciences	36   37	Engineering   Physical Sciences
Synthesis and potential applications of cyclodextrin-based metal-organic frameworks: a review	2304	Environmental Chemistry	2   4	Engineering & Technology   Natural Sciences	424   249	Environmental Sciences   Engineering - Petroleum	37	Physical Sciences
Review on energy storage systems in microgrids	1705   1708   1711   2207   2208	Computer Networks and Communications   Hardware and Architecture   Signal Processing   Control and Systems Engineering   Electrical and Electronic Engineering	2	Engineering & Technology	213   221   249   212	Data Science   Engineering - Electrical & Electronic   Engineering - Petroleum   Computer Science & Information Systems	36   38	Engineering   Computer Science
Biomass-to-sustainable biohydrogen: Insights into the production routes, and technical challenges	1500   1600   2209   2304	General Chemical Engineering   General Chemistry   Industrial and Manufacturing Engineering   Environmental Chemistry	2   4	Engineering & Technology   Natural Sciences	249   222   219   424   409	Engineering - Petroleum   Engineering - Mechanical   Engineering - Chemical   Environmental Sciences   Chemistry	36   37	Engineering   Physical Sciences
A novel metaheuristic MPPT technique based on enhanced autonomous group Particle Swarm Optimization Algorithm to track the GMPP under partial shading conditions - Experimental validation	2102   2103   2104   2105	Energy Engineering and Power Technology   Fuel Technology   Nuclear Energy and Engineering   Renewable Energy, Sustainability and the Environment	2	Engineering & Technology	249   221	Engineering - Petroleum   Engineering - Electrical & Electronic	36	Engineering
Comprehensive investigation of Opto-electronic and transport	2105   2500	Renewable Energy, Sustainability and the Environment   General Materials Science	2	Engineering & Technology	221   433	Engineering - Electrical & Electronic   Materials Science	36	Engineering

properties of Cs <sub>2</sub> ScAgX <sub>6</sub> (X = Cl, Br, I) for solar cells and thermoelectric applications								
Sustainable management of food waste; pre-treatment strategies, techno-economic assessment, bibliometric analysis, and potential utilizations: A systematic review	1303  2300  2739	Biochemistry  General Environmental Science  Public Health, Environmental and Occupational Health	5  2	Life Sciences & Medicine  Engineering & Technology	424  532  507	Environmental Sciences  Medicine  Biological Sciences	34  32  37	Medical and Health  Life Sciences  Physical Sciences
Emerging 2D-Nanostructured materials for electrochemical and sensing Application-A review	2102  2103  2105  3104	Energy Engineering and Power Technology  Fuel Technology  Renewable Energy, Sustainability and the Environment  Condensed Matter Physics	2  4	Engineering & Technology  Natural Sciences	439  221  249	Physics & Astronomy  Engineering - Electrical & Electronic  Engineering - Petroleum	37  36	Physical Sciences  Engineering
Experimental and simulation study of multichannel air gap membrane distillation process with two types of solar collectors	2102  2103  2104  2105	Energy Engineering and Power Technology  Fuel Technology  Nuclear Energy and Engineering  Renewable Energy, Sustainability and the Environment	2	Engineering & Technology	249  221	Engineering - Petroleum  Engineering - Electrical & Electronic	36	Engineering
Performance evaluation of single multi-junction solar cell for high concentrator photovoltaics using minichannel heat sink with nanofluids	1507  2102  2209  2210	Fluid Flow and Transfer Processes  Energy Engineering and Power Technology  Industrial and Manufacturing Engineering  Mechanical Engineering	2	Engineering & Technology	221  222  219  249	Engineering - Electrical & Electronic  Engineering - Mechanical  Engineering - Chemical  Engineering - Petroleum	36	Engineering
Enhanced electrochemical activity of Co <sub>3</sub> O <sub>4</sub> /Co <sub>9</sub> S <sub>8</sub> heterostructure catalyst for water splitting	2102  2103  2105  3104	Energy Engineering and Power Technology  Fuel Technology  Renewable Energy, Sustainability and the Environment  Condensed Matter Physics	4  2	Natural Sciences  Engineering & Technology	221  249  439	Engineering - Electrical & Electronic  Engineering - Petroleum  Physics & Astronomy	36  37	Engineering  Physical Sciences
Assessment of floating photovoltaic productivity with fins-assisted passive cooling	2100  2105  2210  2215  2308	General Energy  Renewable Energy, Sustainability and the Environment  Mechanical Engineering  Building and Construction  Management, Monitoring, Policy and Law	3  2	Social Sciences & Management  Engineering & Technology	249  221  222  424  106  220	Engineering - Petroleum  Engineering - Electrical & Electronic  Engineering - Mechanical  Environmental Sciences  Architecture  Engineering - Civil & Structural	37  36	Physical Sciences  Engineering
Simulation and experimental performance analysis of partially floating PV system in windy conditions	2105  2500	Renewable Energy, Sustainability and the Environment  General Materials Science	2	Engineering & Technology	433  221	Materials Science  Engineering - Electrical & Electronic	36	Engineering
A novel concentrated photovoltaic-driven membrane distillation hybrid system for the simultaneous production of electricity and potable water	2105	Renewable Energy, Sustainability and the Environment	2	Engineering & Technology	221	Engineering - Electrical & Electronic	36	Engineering
Synthesis, characterization and DFT molecular modeling of doped poly (para-nitroaniline-co-para-toluidine) thin film for optoelectronic devices applications	1604  1605  1606  1607  2208  2504  3107	Inorganic Chemistry  Organic Chemistry  Physical and Theoretical Chemistry  Spectroscopy  Electrical and Electronic Engineering  Electronic, Optical and Magnetic Materials  Atomic and Molecular Physics, and Optics	2  4	Engineering & Technology  Natural Sciences	409  439  249  433  221	Chemistry  Physics & Astronomy  Engineering - Petroleum  Materials Science  Engineering - Electrical & Electronic	37  36	Physical Sciences  Engineering
Extraction of maximum power from PV system based on horse herd optimization MPPT	2105	Renewable Energy, Sustainability and the Environment	2	Engineering & Technology	221	Engineering - Electrical & Electronic	36	Engineering

technique under various weather conditions								
Thermo-electrical performance assessment of a partially submerged floating photovoltaic system	2100  2102  2103  2105  2205  2208  2209  2210  2215  2308  2310  2611	General Energy  Energy Engineering and Power Technology  Fuel Technology  Renewable Energy, Sustainability and the Environment  Civil and Structural Engineering  Electrical and Electronic Engineering  Industrial and Manufacturing Engineering  Mechanical Engineering  Building and Construction  Management, Monitoring, Policy and Law  Pollution  Modeling and Simulation	4  2  3	Natural Sciences  Engineering & Technology  Social Sciences & Management	221  220  249  106  424  222  431	Engineering - Electrical & Electronic  Engineering - Civil & Structural  Engineering - Petroleum  Architecture  Environmental Sciences  Engineering - Mechanical  Mathematics	37  36	Physical Sciences  Engineering
Efficient fractional-order modified Harris hawks optimizer for proton exchange membrane fuel cell modeling	1702  2207  2208	Artificial Intelligence  Control and Systems Engineering  Electrical and Electronic Engineering	2	Engineering & Technology	249  213  212  221	Engineering - Petroleum  Data Science  Computer Science & Information Systems  Engineering - Electrical & Electronic	38  36	Computer Science  Engineering
Performance enhancement of a hybrid multi effect evaporation/membrane distillation system driven by solar energy for desalination	1501  1508  2310  2311	Chemical Engineering (miscellaneous)  Process Chemistry and Technology  Pollution  Waste Management and Disposal	3  2	Social Sciences & Management  Engineering & Technology	424  219  249	Environmental Sciences  Engineering - Chemical  Engineering - Petroleum	36  37	Engineering  Physical Sciences
Doped poly (o-phenylenediamine -co- p-toluidine) fibers for polymer solar cells applications	2105  2500	Renewable Energy, Sustainability and the Environment  General Materials Science	2	Engineering & Technology	221  433	Engineering - Electrical & Electronic  Materials Science	36	Engineering
Design and performance a novel hybrid membrane distillation/humidification-dehumidification system	2102  2103  2104  2105	Energy Engineering and Power Technology  Fuel Technology  Nuclear Energy and Engineering  Renewable Energy, Sustainability and the Environment	2	Engineering & Technology	221  249	Engineering - Electrical & Electronic  Engineering - Petroleum	36	Engineering
Performance enhancement of flat-plate and parabolic trough solar collector using nanofluid for water heating application	2200	General Engineering	2	Engineering & Technology	-	-	36	Engineering
Tuning cationic/anionic dyes sorption from aqueous solution onto green algal biomass for biohydrogen production	1303  2300	Biochemistry  General Environmental Science	5  2	Life Sciences & Medicine  Engineering & Technology	424  507	Environmental Sciences  Biological Sciences	37  32	Physical Sciences  Life Sciences
Performance enhancement of concentrator photovoltaic systems using nanofluids	2102  2103  2104  2105	Energy Engineering and Power Technology  Fuel Technology  Nuclear Energy and Engineering  Renewable Energy, Sustainability and the Environment	2	Engineering & Technology	249  221	Engineering - Petroleum  Engineering - Electrical & Electronic	36	Engineering
Synthesis and characterization of Co-Al mixed oxide nanoparticles via thermal decomposition route of layered double hydroxide	1602  1604  1605  1607	Analytical Chemistry  Inorganic Chemistry  Organic Chemistry  Spectroscopy	2  4	Engineering & Technology  Natural Sciences	409  249	Chemistry  Engineering - Petroleum	37	Physical Sciences
Hydrogen production from wastewater, storage, economy, governance and applications: a review	2304	Environmental Chemistry	2  4	Engineering & Technology  Natural Sciences	249  424	Engineering - Petroleum  Environmental Sciences	37	Physical Sciences
An energy-economic analysis of a hybrid PV/wind/battery energy-driven hydrogen generation system in rural regions of Egypt	2102  2105  2208	Energy Engineering and Power Technology  Renewable Energy, Sustainability and the Environment  Electrical and Electronic Engineering	2	Engineering & Technology	221  249	Engineering - Electrical & Electronic  Engineering - Petroleum	36	Engineering

Performance and potential of a novel floating photovoltaic system in Egyptian winter climate on calm water surface	2102  2103  2105  3104	Energy Engineering and Power Technology  Fuel Technology  Renewable Energy, Sustainability and the Environment  Condensed Matter Physics	4  2	Natural Sciences  Engineering & Technology	439  221  249	Physics & Astronomy  Engineering - Electrical & Electronic  Engineering - Petroleum	37  36	Physical Sciences  Engineering
A technical and economic evaluation of floating photovoltaic systems in the context of the water-energy nexus	2100  2102  2103  2105  2205  2208  2209  2210  2215  2308  2310  2611	General Energy  Energy Engineering and Power Technology  Fuel Technology  Renewable Energy, Sustainability and the Environment  Civil and Structural Engineering  Electrical and Electronic Engineering  Industrial and Manufacturing Engineering  Mechanical Engineering  Building and Construction  Management, Monitoring, Policy and Law  Pollution  Modeling and Simulation	3  4  2	Social Sciences & Management  Natural Sciences  Engineering & Technology	106  431  424  222  221  220  249	Architecture  Mathematics  Environmental Sciences  Engineering - Mechanical  Engineering - Electrical & Electronic  Engineering - Civil & Structural  Engineering - Petroleum	36  37	Engineering  Physical Sciences
Advanced process integration for supercritical production of biodiesel: Residual waste heat recovery via organic Rankine cycle (ORC)	2105	Renewable Energy, Sustainability and the Environment	2	Engineering & Technology	221	Engineering - Electrical & Electronic	36	Engineering
Polymer solar cell based on doped o-anthranilic acid and o-aminophenol copolymer	1604  1605  1606  1607  2208  2504  3107	Inorganic Chemistry  Organic Chemistry  Physical and Theoretical Chemistry  Spectroscopy  Electrical and Electronic Engineering  Electronic, Optical and Magnetic Materials  Atomic and Molecular Physics, and Optics	2  4	Engineering & Technology  Natural Sciences	409  439  249  221  433	Chemistry  Physics & Astronomy  Engineering - Petroleum  Engineering - Electrical & Electronic  Materials Science	37  36	Physical Sciences  Engineering
Performance estimation of a mini-passive solar still via machine learning	2105	Renewable Energy, Sustainability and the Environment	2	Engineering & Technology	221	Engineering - Electrical & Electronic	36	Engineering
An innovative cooling technique for floating photovoltaic module: Adoption of partially submerged angle fins	2102  2103  2104  2105	Energy Engineering and Power Technology  Fuel Technology  Nuclear Energy and Engineering  Renewable Energy, Sustainability and the Environment	2	Engineering & Technology	249  221	Engineering - Petroleum  Engineering - Electrical & Electronic	36	Engineering
One-pot conversion of highly acidic waste cooking oil into biodiesel over a novel bio-based bi-functional catalyst	1500  1605  2102  2103	General Chemical Engineering  Organic Chemistry  Energy Engineering and Power Technology  Fuel Technology	2  4	Engineering & Technology  Natural Sciences	249  219  409  221	Engineering - Petroleum  Engineering - Chemical  Chemistry  Engineering - Electrical & Electronic	37  36	Physical Sciences  Engineering
Power management strategy based on adaptive neuro fuzzy inference system for AC microgrid	1700  2200  2208  2500	General Computer Science  General Engineering  Electrical and Electronic Engineering  General Materials Science	2	Engineering & Technology	212  249  433  221	Computer Science & Information Systems  Engineering - Petroleum  Materials Science  Engineering - Electrical & Electronic	38  36	Computer Science  Engineering
Design and characterization of a vertical-axis micro tidal turbine for low velocity scenarios	2102  2103  2104  2105	Energy Engineering and Power Technology  Fuel Technology  Nuclear Energy and Engineering  Renewable Energy, Sustainability and the Environment	2	Engineering & Technology	221  249	Engineering - Electrical & Electronic  Engineering - Petroleum	36	Engineering
Catalytic fast pyrolysis of lignocellulosic biomass: Recent advances and comprehensive overview	1602  2103	Analytical Chemistry  Fuel Technology	2  4	Engineering & Technology  Natural Sciences	409  249  221	Chemistry  Engineering - Petroleum  Engineering - Electrical & Electronic	36  37	Engineering  Physical Sciences
Theoretical investigation of the temperature limits of an actively cooled high concentration photovoltaic system	2101  2102  2103  2105  2201  2208  2215  2606	Energy (miscellaneous)  Energy Engineering and Power Technology  Fuel Technology  Renewable Energy, Sustainability and the Environment  Engineering (miscellaneous)  Electrical and Electronic Engineering  Building and Construction  Control and Optimization	4  2	Natural Sciences  Engineering & Technology	221  106  220  431  249	Engineering - Electrical & Electronic  Architecture  Engineering - Civil & Structural  Mathematics  Engineering - Petroleum	36  37	Engineering  Physical Sciences
Dual valorization of coastal biowastes for tetracycline remediation and biomethane production: A composite assisted anaerobic digestion	2304  2305  2307  2310  2311	Environmental Chemistry  Environmental Engineering  Health, Toxicology and Mutagenesis  Pollution  Waste Management and Disposal	3  4  2  5	Social Sciences & Management  Natural Sciences  Engineering & Technology  Life Sciences & Medicine	424  249	Environmental Sciences  Engineering - Petroleum	34  37	Medical and Health  Physical Sciences

Effectiveness of some novel heterocyclic compounds as corrosion inhibitors for carbon steel in 1 M HCl using practical and theoretical methods	1500  1600	General Chemical Engineering  General Chemistry	4  2	Natural Sciences  Engineering & Technology	409  219	Chemistry  Engineering - Chemical	37  36	Physical Sciences  Engineering
Coyote optimization based on a fuzzy logic algorithm for energy-efficiency in wireless sensor networks	1700  2200  2500	General Computer Science  General Engineering  General Materials Science	2	Engineering & Technology	212  433	Computer Science & Information Systems  Materials Science	36  38	Engineering  Computer Science
Toward a national life cycle assessment tool: Generative design for early decision support	2205  2208  2210  2215	Civil and Structural Engineering  Electrical and Electronic Engineering  Mechanical Engineering  Building and Construction	2	Engineering & Technology	106  221  222  249  220	Architecture  Engineering - Electrical & Electronic  Engineering - Mechanical  Engineering - Petroleum  Engineering - Civil & Structural	36	Engineering
Integration of active solar cooling technology into passively designed facade in hot climates	2205  2211  2213  2215  2216	Civil and Structural Engineering  Mechanics of Materials  Safety, Risk, Reliability and Quality  Building and Construction  Architecture	2  1	Engineering & Technology  Arts & Humanities	106  220  249  433  222	Architecture  Engineering - Civil & Structural  Engineering - Petroleum  Materials Science  Engineering - Mechanical	36  33	Engineering  Arts and Humanities
Thermal regulation of partially floating photovoltaics for enhanced electricity production: A modeling and experimental analysis	2102  2105	Energy Engineering and Power Technology  Renewable Energy, Sustainability and the Environment	2	Engineering & Technology	249  221	Engineering - Petroleum  Engineering - Electrical & Electronic	36	Engineering
Experimental performance analysis of enhanced concentrated photovoltaic utilizing various mass flow rates of Al2O3-nanofluid: Energy, exergy, and exergoeconomic study	2102  2105	Energy Engineering and Power Technology  Renewable Energy, Sustainability and the Environment	2	Engineering & Technology	249  221	Engineering - Petroleum  Engineering - Electrical & Electronic	36	Engineering
Facile synthesis of spin-coated poly (4-nitroaniline) thin film: Structural and optical properties	1604  1605  1606  1607  2208  2504  3107	Inorganic Chemistry  Organic Chemistry  Physical and Theoretical Chemistry  Spectroscopy  Electrical and Electronic Engineering  Electronic, Optical and Magnetic Materials  Atomic and Molecular Physics, and Optics	2  4	Engineering & Technology  Natural Sciences	409  439  221  249  433	Chemistry  Physics & Astronomy  Engineering - Electrical & Electronic  Engineering - Petroleum  Materials Science	37  36	Physical Sciences  Engineering
Exploring the potential of sheep wool as an eco-friendly insulation material: A comprehensive review and analytical ranking	2105  2209  2311  2500	Renewable Energy, Sustainability and the Environment  Industrial and Manufacturing Engineering  Waste Management and Disposal  General Materials Science	3  2	Social Sciences & Management  Engineering & Technology	222  424  221  433	Engineering - Mechanical  Environmental Sciences  Engineering - Electrical & Electronic  Materials Science	36  37	Engineering  Physical Sciences
Green hydrogen production ensemble forecasting based on hybrid dynamic optimization algorithm	2002  2102  2103  2105	Economics and Econometrics  Energy Engineering and Power Technology  Fuel Technology  Renewable Energy, Sustainability and the Environment	2  3	Engineering & Technology  Social Sciences & Management	317  249  221	Economics and Econometrics  Engineering - Petroleum  Engineering - Electrical & Electronic	36  35	Engineering  Business and Economics
Performance evaluation of a novel self-tuning particle swarm optimization algorithm-based maximum power point tracker for porton exchange membrane fuel cells under different operating conditions	2102  2103  2104  2105	Energy Engineering and Power Technology  Fuel Technology  Nuclear Energy and Engineering  Renewable Energy, Sustainability and the Environment	2	Engineering & Technology	249  221	Engineering - Petroleum  Engineering - Electrical & Electronic	36	Engineering
Conceptual design and numerical analysis of a novel floating desalination plant powered by marine renewable energy for Egypt	2205  2212  2312	Civil and Structural Engineering  Ocean Engineering  Water Science and Technology	2  4	Engineering & Technology  Natural Sciences	247  451  424  249  220  416	Engineering - Mineral & Mining  Geophysics  Environmental Sciences  Engineering - Petroleum  Engineering - Civil & Structural  Earth & Marine Sciences	37  36	Physical Sciences  Engineering

Power management and optimized control of hybrid PV-BESS-grid integrated fast EV charging stations	2102  2105  2208	Energy Engineering and Power Technology  Renewable Energy, Sustainability and the Environment  Electrical and Electronic Engineering	2	Engineering & Technology	249  221	Engineering - Petroleum  Engineering - Electrical & Electronic	36	Engineering
Artificial neural network based prediction of ship speed under operating conditions for operational optimization	2212  2305	Ocean Engineering  Environmental Engineering	4  2	Natural Sciences  Engineering & Technology	249  247  424  416  451	Engineering - Petroleum  Engineering - Mineral & Mining  Environmental Sciences  Earth & Marine Sciences  Geophysics	36  37	Engineering  Physical Sciences
Hydrogen-Rich Syngas and Biochar Production by Non-Catalytic Valorization of Date Palm Seeds	2101  2102  2103  2105  2201  2208  2606	Energy (miscellaneous)  Energy Engineering and Power Technology  Fuel Technology  Renewable Energy, Sustainability and the Environment  Engineering (miscellaneous)  Electrical and Electronic Engineering  Control and Optimization	2  4	Engineering & Technology  Natural Sciences	249  221  431	Engineering - Petroleum  Engineering - Electrical & Electronic  Mathematics	36  37	Engineering  Physical Sciences
Systematic study of optoelectronic and thermoelectric properties of new lead-free halide double perovskites A2KGa6(A = Cs, Rb) for solar cell applications via ab-initio calculations	2210  2211  2500  3104	Mechanical Engineering  Mechanics of Materials  General Materials Science  Condensed Matter Physics	2  4	Engineering & Technology  Natural Sciences	439  222  433	Physics & Astronomy  Engineering - Mechanical  Materials Science	37  36	Physical Sciences  Engineering
Prediction and assessment of automated lifting system performance for multi-storey parking lots powered by solar energy	1408  2105  2209  2215  2300	Strategy and Management  Renewable Energy, Sustainability and the Environment  Industrial and Manufacturing Engineering  Building and Construction  General Environmental Science	3  2	Social Sciences & Management  Engineering & Technology	308  222  221  424  220  106	Business & Management Studies  Engineering - Mechanical  Engineering - Electrical & Electronic  Environmental Sciences  Engineering - Civil & Structural  Architecture	36  37  35	Engineering  Physical Sciences  Business and Economics
Modelling the impact of lining and covering irrigation canals on underlying groundwater stores in the Nile Delta, Egypt	2312	Water Science and Technology	2	Engineering & Technology	424	Environmental Sciences	37	Physical Sciences
Water Desalination Using Solar Thermal Collectors Enhanced by Nanofluids	1500  1600  2209	General Chemical Engineering  General Chemistry  Industrial and Manufacturing Engineering	2  4	Engineering & Technology  Natural Sciences	222  409  219	Engineering - Mechanical  Chemistry  Engineering - Chemical	37  36	Physical Sciences  Engineering
A Comparative Review on Single Phase Transformerless Inverter Topologies for Grid-Connected Photovoltaic Systems	2101  2102  2103  2105  2201  2208  2606	Energy (miscellaneous)  Energy Engineering and Power Technology  Fuel Technology  Renewable Energy, Sustainability and the Environment  Engineering (miscellaneous)  Electrical and Electronic Engineering  Control and Optimization	2  4	Engineering & Technology  Natural Sciences	431  221  249	Mathematics  Engineering - Electrical & Electronic  Engineering - Petroleum	37  36	Physical Sciences  Engineering
Synthesis, characterization, and photosensitizer applications for dye-based on ZrO2- acriflavine nanocomposite thin film [ZrO2+ACF]C	1602  1604  1605  1607	Analytical Chemistry  Inorganic Chemistry  Organic Chemistry  Spectroscopy	2  4	Engineering & Technology  Natural Sciences	409  249	Chemistry  Engineering - Petroleum	37	Physical Sciences
Evaluation of Storage Stability for Biocrude Derived from Hydrothermal Liquefaction of Microalgae	1500  2102  2103	General Chemical Engineering  Energy Engineering and Power Technology  Fuel Technology	2	Engineering & Technology	249  219  221	Engineering - Petroleum  Engineering - Chemical  Engineering - Electrical & Electronic	36	Engineering
Experimental study of simultaneous effect of evacuated tube collectors coupled with parabolic reflectors on traditional single slope solar still efficiency	1507  2201	Fluid Flow and Transfer Processes  Engineering (miscellaneous)	2	Engineering & Technology	249  219	Engineering - Petroleum  Engineering - Chemical	36	Engineering

Single-stage waste oil conversion into biodiesel via sonication over bio-based bifunctional catalyst: Optimization, preliminary techno-economic and environmental analysis	1500  1605  2102  2103	General Chemical Engineering  Organic Chemistry  Energy Engineering and Power Technology  Fuel Technology	2  4	Engineering & Technology  Natural Sciences	409  249  221  219	Chemistry  Engineering - Petroleum  Engineering - Electrical & Electronic  Engineering - Chemical	36  37	Engineering  Physical Sciences
Retrofit of heat exchanger networks by graphical Pinch Analysis - A case study of a crude oil refinery in Kuwait	1507  2201	Fluid Flow and Transfer Processes  Engineering (miscellaneous)	2	Engineering & Technology	219  249	Engineering - Chemical  Engineering - Petroleum	36	Engineering
Energy and exergy analyses of new cooling schemes based on a serpentine configuration for a high concentrator photovoltaic system	2102  2209	Energy Engineering and Power Technology  Industrial and Manufacturing Engineering	2	Engineering & Technology	222  249  221	Engineering - Mechanical  Engineering - Petroleum  Engineering - Electrical & Electronic	36	Engineering
Response Surface Optimisation of Vertical Axis Wind Turbine at low wind speeds	2100	General Energy	2	Engineering & Technology	249  221	Engineering - Petroleum  Engineering - Electrical & Electronic	36	Engineering
Numerical hydrodynamics-based design of an offshore platform to support a desalination plant and a wind turbine in Egypt	2212  2305	Ocean Engineering  Environmental Engineering	4  2	Natural Sciences  Engineering & Technology	424  451  247  416  249	Environmental Sciences  Geophysics  Engineering - Mineral & Mining  Earth & Marine Sciences  Engineering - Petroleum	36  37	Engineering  Physical Sciences
Performance analysis of reinforced epoxy functionalized carbon nanotubes composites for vertical axis wind turbine blade	1600  2507	General Chemistry  Polymers and Plastics	4	Natural Sciences	409  433	Chemistry  Materials Science	36  37	Engineering  Physical Sciences
Techno-economic multi-objective reactive power planning in integrated wind power system with improving voltage stability	2102  2208	Energy Engineering and Power Technology  Electrical and Electronic Engineering	2	Engineering & Technology	249  221	Engineering - Petroleum  Engineering - Electrical & Electronic	36	Engineering
Numerical investigation of the indoor thermal behaviour based on PCMs in a hot climate	2216	Architecture	1	Arts & Humanities	106	Architecture	33	Arts and Humanities
Recycling of catering waste for sequential production of biohydrogen and biomethane; pre-treatments, batch, and continuous mode studies	1501  1508  2310  2311	Chemical Engineering (miscellaneous)  Process Chemistry and Technology  Pollution  Waste Management and Disposal	2  3	Engineering & Technology  Social Sciences & Management	424  219  249	Environmental Sciences  Engineering - Chemical  Engineering - Petroleum	36  37	Engineering  Physical Sciences
Photodeposition Conditions of Silver Cocatalyst on Titanium Oxide Photocatalyst Directing Product Selectivity in Photocatalytic Reduction of Carbon Dioxide with Water	1503  1600	Catalysis  General Chemistry	2  4	Engineering & Technology  Natural Sciences	409  249  219	Chemistry  Engineering - Petroleum  Engineering - Chemical	36  37	Engineering  Physical Sciences
Combined experimental and TDDFT computations for the structural and optical properties for poly	2208  2504  3104  3107	Electrical and Electronic Engineering  Electronic, Optical and Magnetic Materials  Condensed Matter Physics  Atomic and Molecular Physics, and Optics	2  4	Engineering & Technology  Natural Sciences	439  221  249  433	Physics & Astronomy  Engineering - Electrical & Electronic  Engineering - Petroleum  Materials Science	37  36	Physical Sciences  Engineering

(ortho phenylene diamine) thin film with different surfactants								
Conducting polymer thin film for optoelectronic devices applications	2507	Polymers and Plastics	4	Natural Sciences	433	Materials Science	36	Engineering
Optoelectronic and photocatalytic properties of GaN, GeS and SiS monolayers and their vdW heterostructures	1600  2500  3104	General Chemistry  General Materials Science  Condensed Matter Physics	4  2	Natural Sciences  Engineering & Technology	409  439  433	Chemistry  Physics & Astronomy  Materials Science	37  36	Physical Sciences  Engineering
Improvement of the thermal stability and optical properties for poly (ortho phenylene diamine) using soft templates	1602  1604  1605  1607	Analytical Chemistry  Inorganic Chemistry  Organic Chemistry  Spectroscopy	2  4	Engineering & Technology  Natural Sciences	249  409	Engineering - Petroleum  Chemistry	37	Physical Sciences
Physical properties of KTaO3 compound for optoelectronic and thermoelectric applications: A DFT study	2210  2211  2500  3104	Mechanical Engineering  Mechanics of Materials  General Materials Science  Condensed Matter Physics	4  2	Natural Sciences  Engineering & Technology	222  439  433	Engineering - Mechanical  Physics & Astronomy  Materials Science	37  36	Physical Sciences  Engineering
Optimal parameters identification for PEMFC using autonomous groups particle swarm optimization algorithm	2102  2103  2105  3104	Energy Engineering and Power Technology  Fuel Technology  Renewable Energy, Sustainability and the Environment  Condensed Matter Physics	4  2	Natural Sciences  Engineering & Technology	221  249  439	Engineering - Electrical & Electronic  Engineering - Petroleum  Physics & Astronomy	36  37	Engineering  Physical Sciences
Polypyrrole/functionalized multi-walled carbon nanotube composite for optoelectronic device application	1303  1500  1600  2209  2505	Biochemistry  General Chemical Engineering  General Chemistry  Industrial and Manufacturing Engineering  Materials Chemistry	2  4  5	Engineering & Technology  Natural Sciences  Life Sciences & Medicine	222  409  219  433  507	Engineering - Mechanical  Chemistry  Engineering - Chemical  Materials Science  Biological Sciences	32  36  37	Life Sciences  Engineering  Physical Sciences
Physical characteristics of barium based cubic perovskites	1606  3100	Physical and Theoretical Chemistry  General Physics and Astronomy	4  2	Natural Sciences  Engineering & Technology	409  249  439	Chemistry  Engineering - Petroleum  Physics & Astronomy	37	Physical Sciences
One-dimensional ternary conducting polymers blend with 9.26% power conversion efficiency for photovoltaic devices applications	2200	General Engineering	2	Engineering & Technology	-	-	36	Engineering
Experimental and numerical simulation of solar membrane distillation and humidification – dehumidification water desalination system	2105	Renewable Energy, Sustainability and the Environment	2	Engineering & Technology	221	Engineering - Electrical & Electronic	36	Engineering
Yield and energy outputs analysis of sawdust biomass pyrolysis	2102  2103  2104  2105	Energy Engineering and Power Technology  Fuel Technology  Nuclear Energy and Engineering  Renewable Energy, Sustainability and the Environment	2	Engineering & Technology	221  249	Engineering - Electrical & Electronic  Engineering - Petroleum	36	Engineering
Dragonfly-Based Joint Delay/Energy LTE Downlink Scheduling Algorithm	1700  2200  2500	General Computer Science  General Engineering  General Materials Science	2	Engineering & Technology	433  212	Materials Science  Computer Science & Information Systems	38  36	Computer Science  Engineering
Experimental and multiphase modeling of small vertical-axis hydrokinetic turbine with free-surface variations	2105	Renewable Energy, Sustainability and the Environment	2	Engineering & Technology	221	Engineering - Electrical & Electronic	36	Engineering
A renewable lignin-derived bio-oil for boosting the	2105	Renewable Energy, Sustainability and the Environment	2	Engineering & Technology	221	Engineering - Electrical & Electronic	36	Engineering



oxidation stability of biodiesel								
Comparison of the Computational Fluid Dynamics Predictions of Vertical Axis Wind Turbine Performance Against Detailed Pressure Measurements	2102  2105	Energy Engineering and Power Technology  Renewable Energy, Sustainability and the Environment	2	Engineering & Technology	221  249	Engineering - Electrical & Electronic  Engineering - Petroleum	36	Engineering
Physical structure, TD-DFT computations, and optical properties of hybrid nanocomposite thin film as optoelectronic devices	1500	General Chemical Engineering	2	Engineering & Technology	219	Engineering - Chemical	36	Engineering
Aqueous Phase from Hydrothermal Liquefaction: Composition and Toxicity Assessment	1104  1303  2312  3305	Aquatic Science  Biochemistry  Water Science and Technology  Geography, Planning and Development	2  5  3	Engineering & Technology  Life Sciences & Medicine  Social Sciences & Management	425  424  502  507	Geography  Environmental Sciences  Agriculture & Forestry  Biological Sciences	32  40  37	Life Sciences  Social Sciences  Physical Sciences
Fabrication, characterization, TD-DFT, optical and electrical properties of poly (aniline-co-para nitroaniline)/ZrO2 composite for solar cell applications	1500	General Chemical Engineering	2	Engineering & Technology	219	Engineering - Chemical	36	Engineering
Nickel Oxide Nanoparticles Application for Enhancing Biogas Production Using Certain Wastewater Bacteria and Aquatic Macrophytes Biomass	2105  2305  2311	Renewable Energy, Sustainability and the Environment  Environmental Engineering  Waste Management and Disposal	3  2	Social Sciences & Management  Engineering & Technology	221  424	Engineering - Electrical & Electronic  Environmental Sciences	36  37	Engineering  Physical Sciences
Relevance of monocrystalline and thin-film technologies in implementing efficient grid-connected photovoltaic systems in historic buildings in Port Fouad city, Egypt	2200	General Engineering	2	Engineering & Technology	-	-	36	Engineering
Evolution of ion-acoustic soliton waves in Venus's ionosphere permeated by the solar wind	1900  1902  1908  1912  2202  3103	General Earth and Planetary Sciences  Atmospheric Science  Geophysics  Space and Planetary Science  Aerospace Engineering  Astronomy and Astrophysics	4  2	Natural Sciences  Engineering & Technology	249  416  247  439  222  450  451	Engineering - Petroleum  Earth & Marine Sciences  Engineering - Mineral & Mining  Physics & Astronomy  Engineering - Mechanical  Geology  Geophysics	37  36	Physical Sciences  Engineering
Conceptual design of a novel partially floating photovoltaic integrated with smart energy storage and management system for Egyptian North Lakes	2212  2305	Ocean Engineering  Environmental Engineering	4  2	Natural Sciences  Engineering & Technology	247  249  416  451  424	Engineering - Mineral & Mining  Engineering - Petroleum  Earth & Marine Sciences  Geophysics  Environmental Sciences	36  37	Engineering  Physical Sciences
Model-assisted active disturbance rejection controller for maximum efficiency schemes of DFIG-based wind turbines	2102  2208  2611	Energy Engineering and Power Technology  Electrical and Electronic Engineering  Modeling and Simulation	2  4	Engineering & Technology  Natural Sciences	221  431  249	Engineering - Electrical & Electronic  Mathematics  Engineering - Petroleum	37  36	Physical Sciences  Engineering
A Recommendation System for Electric Vehicles Users Based on Restricted Boltzmann	1700  2200  2500	General Computer Science  General Engineering  General Materials Science	2	Engineering & Technology	212  433	Computer Science & Information Systems  Materials Science	38  36	Computer Science  Engineering

Machine and WaterWheel Plant Algorithms								
Experimental investigation of two novel arrangements of air gap membrane distillation module with heat recovery	2100	General Energy	2	Engineering & Technology	249  221	Engineering - Petroleum  Engineering - Electrical & Electronic	36	Engineering
A Comparative Study of MPPT for PV System Based on Modified Perturbation Observation Method	1705  1708  2207  2208  2213  2504  3105  3107	Computer Networks and Communications  Hardware and Architecture  Control and Systems Engineering  Electrical and Electronic Engineering  Safety, Risk, Reliability and Quality  Electronic, Optical and Magnetic Materials  Instrumentation  Atomic and Molecular Physics, and Optics	4  2	Natural Sciences  Engineering & Technology	433  439  249  212  221	Materials Science  Physics & Astronomy  Engineering - Petroleum  Computer Science & Information Systems  Engineering - Electrical & Electronic	37  36  38	Physical Sciences  Engineering  Computer Science
Optical constants of ternary Cux(Ge30Se70)100-x thin films for solar cell applications	1604  1605  1606  1607  2208  2504  3107	Inorganic Chemistry  Organic Chemistry  Physical and Theoretical Chemistry  Spectroscopy  Electrical and Electronic Engineering  Electronic, Optical and Magnetic Materials  Atomic and Molecular Physics, and Optics	4  2	Natural Sciences  Engineering & Technology	409  439  221  433  249	Chemistry  Physics & Astronomy  Engineering - Electrical & Electronic  Materials Science  Engineering - Petroleum	37  36	Physical Sciences  Engineering
Enviro-economic and optimal hybrid energy system: Photovoltaic-biogas-hydro-battery system in rural areas of Pakistan	1000	Multidisciplinary	-	-	-	-	-	-
Toward Enhancing the Energy Efficiency and Minimizing the SLA Violations in Cloud Data Centers	1702  1705  1706  2205  2206	Artificial Intelligence  Computer Networks and Communications  Computer Science Applications  Civil and Structural Engineering  Computational Mechanics	2	Engineering & Technology	222  212  213  220	Engineering - Mechanical  Computer Science & Information Systems  Data Science  Engineering - Civil & Structural	38  36	Computer Science  Engineering
Development and implementation of two-stage boost converter for single-phase inverter without transformer for PV systems	1700  2208	General Computer Science  Electrical and Electronic Engineering	2	Engineering & Technology	249  212  221	Engineering - Petroleum  Computer Science & Information Systems  Engineering - Electrical & Electronic	36  38	Engineering  Computer Science
Synthesis, characterization, DFT-TDDFT calculations and optical properties of a novel pyrazole-1,2,3-triazole hybrid thin film	2208  2504  3107	Electrical and Electronic Engineering  Electronic, Optical and Magnetic Materials  Atomic and Molecular Physics, and Optics	4  2	Natural Sciences  Engineering & Technology	433  439  221  249	Materials Science  Physics & Astronomy  Engineering - Electrical & Electronic  Engineering - Petroleum	37  36	Physical Sciences  Engineering
Heuristic Approach for Net-Zero Energy Residential Buildings in Arid Region Using Dual Renewable Energy Sources	2205  2215  2216	Civil and Structural Engineering  Building and Construction  Architecture	2  1	Engineering & Technology  Arts & Humanities	220  106	Engineering - Civil & Structural  Architecture	36  33	Engineering  Arts and Humanities
Correction to: Hydrogen production, storage, utilisation and environmental impacts: a review (Environmental Chemistry Letters, (2022), 20, 1, (153-188), 10.1007/s10311-021-01322-8)	2304	Environmental Chemistry	4  2	Natural Sciences  Engineering & Technology	249  424	Engineering - Petroleum  Environmental Sciences	37	Physical Sciences
Enhancing Healing Environment and Sustainable Finishing Materials in Healthcare Buildings	2205  2215  2216	Civil and Structural Engineering  Building and Construction  Architecture	2  1	Engineering & Technology  Arts & Humanities	106  220	Architecture  Engineering - Civil & Structural	33  36	Arts and Humanities  Engineering
Aspen Plus simulation of a low capacity organic	2100	General Energy	2	Engineering & Technology	249  221	Engineering - Petroleum  Engineering - Electrical & Electronic	36	Engineering

Rankine cycle heated by solar energy								
New analytical assessment for fast and complete pre-fault restoration of grid-connected FSWTs with fuzzy-logic pitch-angle controller	2102  2208	Energy Engineering and Power Technology  Electrical and Electronic Engineering	2	Engineering & Technology	249  221	Engineering - Petroleum  Engineering - Electrical & Electronic	36	Engineering
Ionospheric losses of Venus in the solar wind	1900  1902  1908  1912  2202  3103	General Earth and Planetary Sciences  Atmospheric Science  Geophysics  Space and Planetary Science  Aerospace Engineering  Astronomy and Astrophysics	4  2	Natural Sciences  Engineering & Technology	416  247  451  249  439  450  222	Earth & Marine Sciences  Engineering - Mineral & Mining  Geophysics  Engineering - Petroleum  Physics & Astronomy  Geology  Engineering - Mechanical	37  36	Physical Sciences  Engineering
Multi-functional core-shell pomegranate peel amended alginate beads for phenol decontamination and bio-hydrogen production: Synthesis, characterization, and kinetics investigation	1305  1502  2204  2305	Biotechnology  Bioengineering  Biomedical Engineering  Environmental Engineering	2  5	Engineering & Technology  Life Sciences & Medicine	219  424  507	Engineering - Chemical  Environmental Sciences  Biological Sciences	36  32  37	Engineering  Life Sciences  Physical Sciences
Effect of using an infrared filter on the performance of a silicon solar cell for an ultra-high concentrator photovoltaic system	2210  2211  2500  3104	Mechanical Engineering  Mechanics of Materials  General Materials Science  Condensed Matter Physics	4  2	Natural Sciences  Engineering & Technology	222  439  433	Engineering - Mechanical  Physics & Astronomy  Materials Science	36  37	Engineering  Physical Sciences
Trajectory optimization for UAV-assisted relay over 5G networks based on reinforcement learning framework	1705  1706  1711	Computer Networks and Communications  Computer Science Applications  Signal Processing	2	Engineering & Technology	212  213	Computer Science & Information Systems  Data Science	38	Computer Science
A fast-tracking MPPT-based modified coot optimization algorithm for PV systems under partial shading conditions	2200	General Engineering	2	Engineering & Technology	-	-	36	Engineering
Sustainable Building Optimization Model for Early-Stage Design	2205  2215  2216	Civil and Structural Engineering  Building and Construction  Architecture	2  1	Engineering & Technology  Arts & Humanities	220  106	Engineering - Civil & Structural  Architecture	36  33	Engineering  Arts and Humanities
Potential application of solar still desalination in NEOM region	2312	Water Science and Technology	2	Engineering & Technology	424	Environmental Sciences	37	Physical Sciences
Implementation of boolean PSO for service restoration using distribution network reconfiguration simultaneously with distributed energy resources and capacitor banks	2102  2105	Energy Engineering and Power Technology  Renewable Energy, Sustainability and the Environment	2	Engineering & Technology	221  249	Engineering - Electrical & Electronic  Engineering - Petroleum	36	Engineering
Energetic, environmental and economic (3E) analysis of a CSA algorithm optimized floatovoltaic system integrated with heat sink: Modeling with experimental validation	2200  2603  2604  2605	General Engineering  Analysis  Applied Mathematics  Computational Mathematics	2  4	Engineering & Technology  Natural Sciences	431	Mathematics	36  37	Engineering  Physical Sciences

Experimental analysis and numerical simulation of biomass pyrolysis	1606   2505   2507   3104   3500	Physical and Theoretical Chemistry   Materials Chemistry   Polymers and Plastics   Condensed Matter Physics   General Dentistry	5   2   4	Life Sciences & Medicine   Engineering & Technology   Natural Sciences	433   409   439   514   249	Materials Science   Chemistry   Physics & Astronomy   Dentistry   Engineering - Petroleum	37   34   36	Physical Sciences   Medical and Health   Engineering
The potential of optimized floating photovoltaic system for energy production in the Northern Lakes of Egypt	2200   2603   2604   2605	General Engineering   Analysis   Applied Mathematics   Computational Mathematics	2   4	Engineering & Technology   Natural Sciences	431	Mathematics	37   36	Physical Sciences   Engineering
Combined experimental and theoretical study, characterization, and nonlinear optical properties of doped-poly (p-nitroaniline -co- o-aminophenol) thin films	1602   1604   1605   1607	Analytical Chemistry   Inorganic Chemistry   Organic Chemistry   Spectroscopy	4   2	Natural Sciences   Engineering & Technology	249   409	Engineering - Petroleum   Chemistry	37	Physical Sciences
An examination of hub wind turbine utilizing fluid-structure interaction strategy	2200	General Engineering	2	Engineering & Technology	-	-	36	Engineering
Facile synthesis of single-crystal of o-phenylene diamine dihydrochloride as a polychloride and fabrication of high-performance semiconductor thin film	1604   1605   1606   1607   2208   2504   3107	Inorganic Chemistry   Organic Chemistry   Physical and Theoretical Chemistry   Spectroscopy   Electrical and Electronic Engineering   Electronic, Optical and Magnetic Materials   Atomic and Molecular Physics, and Optics	2   4	Engineering & Technology   Natural Sciences	439   249   221   409   433	Physics & Astronomy   Engineering - Petroleum   Engineering - Electrical & Electronic   Chemistry   Materials Science	36   37	Engineering   Physical Sciences
Green retrofitting of heritage buildings based on (3Ts) framework: An applied case study	2215   2216   3302   3322	Building and Construction   Architecture   Archeology   Urban Studies	1   3   2	Arts & Humanities   Social Sciences & Management   Engineering & Technology	106   220   105	Architecture   Engineering - Civil & Structural   Archaeology	40   36   33	Social Sciences   Engineering   Arts and Humanities
Experimental validation of a low-cost maximum power point tracking technique based on artificial neural network for photovoltaic systems	1000	Multidisciplinary	-	-	-	-	-	-
Comprehensive Review of Renewable Energy Communication Modeling for Smart Systems	2101   2102   2103   2105   2201   2208   2606	Energy (miscellaneous)   Energy Engineering and Power Technology   Fuel Technology   Renewable Energy, Sustainability and the Environment   Engineering (miscellaneous)   Electrical and Electronic Engineering   Control and Optimization	4   2	Natural Sciences   Engineering & Technology	431   221   249	Mathematics   Engineering - Electrical & Electronic   Engineering - Petroleum	37   36	Physical Sciences   Engineering
Innovative metaheuristic algorithm with comparative analysis of MPPT for 5.5 kW floating photovoltaic system	1500   2213   2304   2305	General Chemical Engineering   Safety, Risk, Reliability and Quality   Environmental Chemistry   Environmental Engineering	4   2	Natural Sciences   Engineering & Technology	219   249   424	Engineering - Chemical   Engineering - Petroleum   Environmental Sciences	37   36	Physical Sciences   Engineering
Acid-hydrolysed furfural production from rice straw bio-waste: Process synthesis, simulation, and optimisation	1503   1506   1507   1508   2101   3304	Catalysis   Filtration and Separation   Fluid Flow and Transfer Processes   Process Chemistry and Technology   Energy (miscellaneous)   Education	2   3	Engineering & Technology   Social Sciences & Management	219   221   249   318	Engineering - Chemical   Engineering - Electrical & Electronic   Engineering - Petroleum   Education & Training	41   36	Education Studies   Engineering
Holistic design of energy-efficient temporary houses: Meeting ventilation, heating, cooling, and lighting demands	2205   2211   2213   2215   2216	Civil and Structural Engineering   Mechanics of Materials   Safety, Risk, Reliability and Quality   Building and Construction   Architecture	2   1	Engineering & Technology   Arts & Humanities	222   433   220   249   106	Engineering - Mechanical   Materials Science   Engineering - Civil & Structural   Engineering - Petroleum   Architecture	36   33	Engineering   Arts and Humanities
Electrical and thermoelectrical	2210   2211   2505   2506	Mechanical Engineering   Mechanics of Materials   Materials Chemistry   Metals and Alloys	4   2	Natural Sciences	433   222	Materials Science   Engineering - Mechanical	36	Engineering

properties of Bi <sub>2</sub> -xNaxTe <sub>3</sub> alloys				Engineering & Technology				
Solar Chimney Performance Driven Air Ventilation Promotion: An Investigation of Various Configuration Parameters	2205   2215   2216	Civil and Structural Engineering   Building and Construction   Architecture	1   2	Arts & Humanities   Engineering & Technology	106   220	Architecture   Engineering - Civil & Structural	33   36	Arts and Humanities   Engineering
A Novel Circuit Configuration for the Integration of Modular Multilevel Converter With Large-Scale Grid-Connected PV Systems	2102   2208	Energy Engineering and Power Technology   Electrical and Electronic Engineering	2	Engineering & Technology	221   249	Engineering - Electrical & Electronic   Engineering - Petroleum	36	Engineering
High-performance 2D/3D hybrid dimensional p-n heterojunction solar cell with reduced recombination rate by an interfacial layer	1600   2505	General Chemistry   Materials Chemistry	4	Natural Sciences	409   433	Chemistry   Materials Science	37   36	Physical Sciences   Engineering
A Novel Model Predictive Speed Controller for PMSG in Wind Energy Systems	2102   2105	Energy Engineering and Power Technology   Renewable Energy, Sustainability and the Environment	2	Engineering & Technology	221   249	Engineering - Electrical & Electronic   Engineering - Petroleum	36	Engineering
New Analysis Framework of Lyapunov-Based Stability for Hybrid Wind Farm Equipped with FRT: A Case Study of Egyptian Grid Code	1700   2200   2208   2500	General Computer Science   General Engineering   Electrical and Electronic Engineering   General Materials Science	2	Engineering & Technology	221   249   433   212	Engineering - Electrical & Electronic   Engineering - Petroleum   Materials Science   Computer Science & Information Systems	36   38	Engineering   Computer Science
Electrical, dielectric, I-V and antimicrobial behavior of cobalt incapacitated Prussian blue graphene ferrites composite	1604   1606   2505	Inorganic Chemistry   Physical and Theoretical Chemistry   Materials Chemistry	2   4	Engineering & Technology   Natural Sciences	433   409   249	Materials Science   Chemistry   Engineering - Petroleum	36   37	Engineering   Physical Sciences
Optical losses and durability of flawed Fresnel lenses for concentrated photovoltaic application	2210   2211   2500   3104	Mechanical Engineering   Mechanics of Materials   General Materials Science   Condensed Matter Physics	4   2	Natural Sciences   Engineering & Technology	433   439   222	Materials Science   Physics & Astronomy   Engineering - Mechanical	36   37	Engineering   Physical Sciences
Thermal annealing effect on the structural and optical characteristics of silicon phthalocyanine dichloride thin films	2208   2504   3107	Electrical and Electronic Engineering   Electronic, Optical and Magnetic Materials   Atomic and Molecular Physics, and Optics	4   2	Natural Sciences   Engineering & Technology	221   249   439   433	Engineering - Electrical & Electronic   Engineering - Petroleum   Physics & Astronomy   Materials Science	37   36	Physical Sciences   Engineering
A retrofitting framework for improving curtain wall performance by the integration of adaptive technologies	2205   2211   2213   2215   2216	Civil and Structural Engineering   Mechanics of Materials   Safety, Risk, Reliability and Quality   Building and Construction   Architecture	1   2	Arts & Humanities   Engineering & Technology	220   249   106   433   222	Engineering - Civil & Structural   Engineering - Petroleum   Architecture   Materials Science   Engineering - Mechanical	33   36	Arts and Humanities   Engineering
Optical component analysis for ultrahigh concentrated photovoltaic system (UHCPV)	2105   2500	Renewable Energy, Sustainability and the Environment   General Materials Science	2	Engineering & Technology	433   221	Materials Science   Engineering - Electrical & Electronic	36	Engineering
Highly Efficient MPP Tracker Based on Adaptive Neuro-fuzzy Inference System for Stand-Alone Photovoltaic Generator System	2102   2105	Energy Engineering and Power Technology   Renewable Energy, Sustainability and the Environment	2	Engineering & Technology	221   249	Engineering - Electrical & Electronic   Engineering - Petroleum	36	Engineering
Internal Power Balancing of an MMC-Based Large-Scale PV System Under Unbalanced Voltage Sags	2102   2208	Energy Engineering and Power Technology   Electrical and Electronic Engineering	2	Engineering & Technology	221   249	Engineering - Electrical & Electronic   Engineering - Petroleum	36	Engineering

Effect of (SbS) addition on the physical properties of quaternary (CdTe)100-x(SbS)x (0 ≤ x ≤ 28 at. %) glasses and band gap engineering	1600  2500	General Chemistry  General Materials Science	4  2	Natural Sciences  Engineering & Technology	433  409	Materials Science  Chemistry	37  36	Physical Sciences  Engineering
Effects of turbulence modelling on the predictions of the pressure distribution around the wing of a small scale vertical axis wind turbine	1703  1706  2210  2211	Computational Theory and Mathematics  Computer Science Applications  Mechanical Engineering  Mechanics of Materials	2	Engineering & Technology	222  213  212  433	Engineering - Mechanical  Data Science  Computer Science & Information Systems  Materials Science	36  38	Engineering  Computer Science
Alloyed Ag <sub>2</sub> SexS <sub>1-x</sub> quantum dots with red to NIR shift: The band gap tuning with dopant content for energy harvesting applications	2504  3104  3107	Electronic, Optical and Magnetic Materials  Condensed Matter Physics  Atomic and Molecular Physics, and Optics	4	Natural Sciences	439  433	Physics & Astronomy  Materials Science	36  37	Engineering  Physical Sciences
A reduced vector model predictive controller for a three-level neutral point clamped inverter with common-mode voltage suppression	1000	Multidisciplinary	-	-	-	-	-	-
Hybrid Floating Power Station driven by Renewable Energy for Saudi Arabia Coastal Areas	1702  1705  1706  1708  1711  2208  2606  2718	Artificial Intelligence  Computer Networks and Communications  Computer Science Applications  Hardware and Architecture  Signal Processing  Electrical and Electronic Engineering  Control and Optimization  Health Informatics	2  5  4	Engineering & Technology  Life Sciences & Medicine  Natural Sciences	212  213  221  532  249  431	Computer Science & Information Systems  Data Science  Engineering - Electrical & Electronic  Medicine  Engineering - Petroleum  Mathematics	37  36  34  38	Physical Sciences  Engineering  Medical and Health  Computer Science
Recent Advances in Floating Photovoltaic Systems	1303  1500  1600  2505	Biochemistry  General Chemical Engineering  General Chemistry  Materials Chemistry	5  4  2	Life Sciences & Medicine  Natural Sciences  Engineering & Technology	507  219  409  433	Biological Sciences  Engineering - Chemical  Chemistry  Materials Science	37  32  36	Physical Sciences  Life Sciences  Engineering
Fabrication, carrier transport mechanisms and photovoltaic properties of Au/silicon phthalocyanine dichloride/p-Si/Al heterojunction device	2208  2504  3107	Electrical and Electronic Engineering  Electronic, Optical and Magnetic Materials  Atomic and Molecular Physics, and Optics	2  4	Engineering & Technology  Natural Sciences	249  221  433  439	Engineering - Petroleum  Engineering - Electrical & Electronic  Materials Science  Physics & Astronomy	36  37	Engineering  Physical Sciences
Physical properties and DFT calculations of the hybrid organic polymeric nanocomposite thin film [P(An+o-Aph)+Glycine/TiO <sub>2</sub> ]/HNC with 7.42% power conversion efficiency	1602  1604  1605  1607	Analytical Chemistry  Inorganic Chemistry  Organic Chemistry  Spectroscopy	2  4	Engineering & Technology  Natural Sciences	249  409	Engineering - Petroleum  Chemistry	37	Physical Sciences
Simulation of glass fiber reinforced polypropylene nanocomposites for small wind turbine blades	1501  1502  1508	Chemical Engineering (miscellaneous)  Bioengineering  Process Chemistry and Technology	2	Engineering & Technology	219  249	Engineering - Chemical  Engineering - Petroleum	36	Engineering
Fabrication, characterization and optical properties of poly(p-phenylenediamine-co-o-aminophenol) nanostructure thin film	1600  2500	General Chemistry  General Materials Science	2  4	Engineering & Technology  Natural Sciences	409  433	Chemistry  Materials Science	37  36	Physical Sciences  Engineering

Performance Enhancement of Solar Still Unit Using v-Corrugated Basin, Internal Reflecting Mirror, Flat-Plate Solar Collector and Nanofluids	1701  1705  1708  2102  2105  2301  2308  3305	Computer Science (miscellaneous)  Computer Networks and Communications  Hardware and Architecture  Energy Engineering and Power Technology  Renewable Energy, Sustainability and the Environment  Environmental Science (miscellaneous)  Management, Monitoring, Policy and Law  Geography, Planning and Development	2  3	Engineering & Technology  Social Sciences & Management	425  424  212  221  249	Geography  Environmental Sciences  Computer Science & Information Systems  Engineering - Electrical & Electronic  Engineering - Petroleum	38  37  40  36	Computer Science  Physical Sciences  Social Sciences  Engineering
Surface modification of Co3O4 nanostructures using wide range of natural compounds from rotten apple juice for the efficient oxygen evolution reaction	2102  2103  2105  3104	Energy Engineering and Power Technology  Fuel Technology  Renewable Energy, Sustainability and the Environment  Condensed Matter Physics	2  4	Engineering & Technology  Natural Sciences	249  439  221	Engineering - Petroleum  Physics & Astronomy  Engineering - Electrical & Electronic	36  37	Engineering  Physical Sciences
Experimental study on the motion response of an integrated floating desalination plant and offshore wind turbine on a non-ship platform	2212  2305	Ocean Engineering  Environmental Engineering	4  2	Natural Sciences  Engineering & Technology	249  416  424  247  451	Engineering - Petroleum  Earth & Marine Sciences  Environmental Sciences  Engineering - Mineral & Mining  Geophysics	36  37	Engineering  Physical Sciences
Wind-water experimental analysis of small sc-darrieus turbine: An approach for energy production in urban systems	1701  1705  1708  2102  2105  2215  2301  2308  3305	Computer Science (miscellaneous)  Computer Networks and Communications  Hardware and Architecture  Energy Engineering and Power Technology  Renewable Energy, Sustainability and the Environment  Building and Construction  Environmental Science (miscellaneous)  Management, Monitoring, Policy and Law  Geography, Planning and Development	2  3	Engineering & Technology  Social Sciences & Management	106  425  221  212  424  220  249	Architecture  Geography  Engineering - Electrical & Electronic  Computer Science & Information Systems  Environmental Sciences  Engineering - Civil & Structural  Engineering - Petroleum	37  38  36  40	Physical Sciences  Computer Science  Engineering  Social Sciences
From seashells to sustainable energy: Trailblazing the utilization of Anadara uropigmelana shells for sustainable biohydrogen production from leftover cooking oil	1501  1508  2310  2311	Chemical Engineering (miscellaneous)  Process Chemistry and Technology  Pollution  Waste Management and Disposal	3  2	Social Sciences & Management  Engineering & Technology	249  424  219	Engineering - Petroleum  Environmental Sciences  Engineering - Chemical	36  37	Engineering  Physical Sciences
A demand side response scheme for enhancing power system security in the presence of wind power	2102  2208	Energy Engineering and Power Technology  Electrical and Electronic Engineering	2	Engineering & Technology	221  249	Engineering - Electrical & Electronic  Engineering - Petroleum	36	Engineering
A study of 2H and 1T phases of Janus monolayers and their van der Waals heterostructure with black phosphorene for optoelectronic and thermoelectric applications	1604  1606  2503  2504  2505  3104	Inorganic Chemistry  Physical and Theoretical Chemistry  Ceramics and Composites  Electronic, Optical and Magnetic Materials  Materials Chemistry  Condensed Matter Physics	4  2	Natural Sciences  Engineering & Technology	439  409  249  433	Physics & Astronomy  Chemistry  Engineering - Petroleum  Materials Science	37  36	Physical Sciences  Engineering
Fabrication and characterization of polypyrrole/multi-walled carbon nanotubes thin films using thermal evaporation	1600  2507	General Chemistry  Polymers and Plastics	4	Natural Sciences	409  433	Chemistry  Materials Science	36  37	Engineering  Physical Sciences
Optoelectronic and photo response performance of n-tris phenylpyridinato iridium/p-Si heterojunction device for photovoltaic applications	3100	General Physics and Astronomy	4	Natural Sciences	439	Physics & Astronomy	37	Physical Sciences
Study the Effect of Winglet Height Length on the Aerodynamic Performance of Horizontal Axis Wind Turbines Using	2101  2102  2103  2105  2201  2208  2606	Energy (miscellaneous)  Energy Engineering and Power Technology  Fuel Technology  Renewable Energy, Sustainability and the Environment  Engineering (miscellaneous)  Electrical and Electronic Engineering  Control and Optimization	2  4	Engineering & Technology  Natural Sciences	249  221  431	Engineering - Petroleum  Engineering - Electrical & Electronic  Mathematics	37  36	Physical Sciences  Engineering

Computational Investigation								
Maximum Power Extraction from Polymer Electrolyte Membrane (PEM) Fuel Cell Based on Deterministic Particle Swarm Optimization Algorithm	1702  1705  1708  1802  2208  3107	Artificial Intelligence  Computer Networks and Communications  Hardware and Architecture  Information Systems and Management  Electrical and Electronic Engineering  Atomic and Molecular Physics, and Optics	4  2	Natural Sciences  Engineering & Technology	249  439  212  213  221	Engineering - Petroleum  Physics & Astronomy  Computer Science & Information Systems  Data Science  Engineering - Electrical & Electronic	36  37  38	Engineering  Physical Sciences  Computer Science
Design and synthesis of high-performance polymer blend solar cell	2502  2503  2506  2508	Biomaterials  Ceramics and Composites  Metals and Alloys  Surfaces, Coatings and Films	4	Natural Sciences	433	Materials Science	36	Engineering
A simulation study of the effect of post-combustion amine-based carbon-capturing integrated with solar thermal collectors for combined cycle gas power plant	2101  2105  2301  3305	Energy (miscellaneous)  Renewable Energy, Sustainability and the Environment  Environmental Science (miscellaneous)  Geography, Planning and Development	2  3	Engineering & Technology  Social Sciences & Management	221  424  425  249	Engineering - Electrical & Electronic  Environmental Sciences  Geography  Engineering - Petroleum	37  36  40	Physical Sciences  Engineering  Social Sciences
Synthesis, structural and optical characterizations of ZrO <sub>2</sub> -bromothymol blue nanocomposite thin-film [ZrO <sub>2</sub> +BTB]C and its application: experimental and TDD-DFT computations	2208  2504  3104  3107	Electrical and Electronic Engineering  Electronic, Optical and Magnetic Materials  Condensed Matter Physics  Atomic and Molecular Physics, and Optics	2  4	Engineering & Technology  Natural Sciences	439  249  221  433	Physics & Astronomy  Engineering - Petroleum  Engineering - Electrical & Electronic  Materials Science	36  37	Engineering  Physical Sciences
Two Bio-inspired MPPT Algorithms to Harvest the Maximum Power from Partially Shaded PV Arrays	1702  1705  1708  1802  2208  3107	Artificial Intelligence  Computer Networks and Communications  Hardware and Architecture  Information Systems and Management  Electrical and Electronic Engineering  Atomic and Molecular Physics, and Optics	4  2	Natural Sciences  Engineering & Technology	249  212  439  221  213	Engineering - Petroleum  Computer Science & Information Systems  Physics & Astronomy  Engineering - Electrical & Electronic  Data Science	36  37  38	Engineering  Physical Sciences  Computer Science
Forecasting wind power based on an improved al-Biruni Earth radius metaheuristic optimization algorithm	2002  2102  2103  2105	Economics and Econometrics  Energy Engineering and Power Technology  Fuel Technology  Renewable Energy, Sustainability and the Environment	2  3	Engineering & Technology  Social Sciences & Management	317  221  249	Economics & Econometrics  Engineering - Electrical & Electronic  Engineering - Petroleum	35  36	Business and Economics  Engineering
Forecasting Methods in Various Applications Using Algorithm of Estimation Regression Models and Converting Data Sets into Markov Model	1000  1700	Multidisciplinary  General Computer Science	2	Engineering & Technology	212	Computer Science & Information Systems	38	Computer Science
Waste Cooking Oil Management in Egypt: Production of Biodiesel-Development of Rapid Test Method	3100	General Physics and Astronomy	4	Natural Sciences	439	Physics & Astronomy	37	Physical Sciences
Experimental investigation of a nano coating efficiency for dust mitigation on photovoltaic panels in harsh climatic conditions	1000	Multidisciplinary	-	-	-	-	-	-
Enhanced biohydrogen production from thermally hydrolysed pulp and paper sludge via Al <sub>2</sub> O <sub>3</sub> and Fe <sub>3</sub> O <sub>4</sub> nanoparticles	1500  1600	General Chemical Engineering  General Chemistry	2  4	Engineering & Technology  Natural Sciences	219  409	Engineering - Chemical  Chemistry	37  36	Physical Sciences  Engineering
Probabilistic Assessment of Available Transfer Capability Incorporating	1700  2200  2500	General Computer Science  General Engineering  General Materials Science	2	Engineering & Technology	212  433	Computer Science & Information Systems  Materials Science	38  36	Computer Science  Engineering



Load and Wind Power Uncertainties								
Elastic moduli and theoretical estimations of physical properties of Ge <sub>3</sub> Se <sub>7</sub> -As <sub>2</sub> Te <sub>3</sub>	2500   3100	General Materials Science   General Physics and Astronomy	4   2	Natural Sciences   Engineering & Technology	433   439	Materials Science   Physics & Astronomy	36   37	Engineering   Physical Sciences
Furosemide drug as a corrosion inhibitor for carbon steel in 1.0 M hydrochloric acid	1000	Multidisciplinary	-	-	-	-	-	-
Combined experimental and TDDFT computational studies of the optical and electrical characteristic of luminol films-doped TiO <sub>2</sub> with 9.027% power conversion efficiency	2208   2504   3104   3107	Electrical and Electronic Engineering   Electronic, Optical and Magnetic Materials   Condensed Matter Physics   Atomic and Molecular Physics, and Optics	2   4	Engineering & Technology   Natural Sciences	439   221   433   249	Physics & Astronomy   Engineering - Electrical & Electronic   Materials Science   Engineering - Petroleum	36   37	Engineering   Physical Sciences
Improving Power Quality Problems of Isolated MG Based on ANN Under Different Operating Conditions Through PMS and ASSC Integration	1700   2200   2500	General Computer Science   General Engineering   General Materials Science	2	Engineering & Technology	433   212	Materials Science   Computer Science & Information Systems	38   36	Computer Science   Engineering
Enhancing Misalignment Tolerance Using Naturally Decoupled Identical Dual-Transmitter-Dual-Receiver Coils for Wireless EV Charging System	2102   2208	Energy Engineering and Power Technology   Electrical and Electronic Engineering	2	Engineering & Technology	221   249	Engineering - Electrical & Electronic   Engineering - Petroleum	36	Engineering
Effect of the decrease of Pb concentration on the properties of pentamary mixed-halide perovskites CsPb <sub>8-x</sub> Sn <sub>x</sub> IBr <sub>2</sub> and CsPb <sub>8-x</sub> Sn <sub>x</sub> I <sub>2</sub> Br (1 ≤ x ≤ 7) for solar-cell applications: A DFT study	1600   2500   3104	General Chemistry   General Materials Science   Condensed Matter Physics	4   2	Natural Sciences   Engineering & Technology	433   409   439	Materials Science   Chemistry   Physics & Astronomy	37   36	Physical Sciences   Engineering
Reliability and temperature limits of the focal spot of a primary optical component for an ultra-high concentrated photovoltaic system	3100	General Physics and Astronomy	4	Natural Sciences	439	Physics & Astronomy	37	Physical Sciences
Exploring critical barriers towards the uptake of renewable energy usage in Egypt	1909   2201   2205   2215   2305	Geotechnical Engineering and Engineering Geology   Engineering (miscellaneous)   Civil and Structural Engineering   Building and Construction   Environmental Engineering	2   4	Engineering & Technology   Natural Sciences	249   106   416   424   450   220   451   247	Engineering - Petroleum   Architecture   Earth & Marine Sciences   Environmental Sciences   Geology   Engineering - Civil & Structural   Geophysics   Engineering - Mineral & Mining	37   36	Physical Sciences   Engineering
Experimental and Numerical Performance Assessment of East-West Bifacial Photovoltaic Floating System in Freshwater Basins	1700   2200   2500	General Computer Science   General Engineering   General Materials Science	2	Engineering & Technology	212   433	Computer Science & Information Systems   Materials Science	36   38	Engineering   Computer Science
Coupling DFIG-Based Wind Turbines with the Grid under Voltage Imbalance Conditions	1701   1705   1708   2102   2105   2301   2308   3305	Computer Science (miscellaneous)   Computer Networks and Communications   Hardware and Architecture   Energy Engineering and Power Technology   Renewable Energy, Sustainability and the Environment   Environmental Science (miscellaneous)   Management, Monitoring, Policy and Law   Geography, Planning and Development	2   3	Engineering & Technology   Social Sciences & Management	425   249   221   424   212	Geography   Engineering - Petroleum   Engineering - Electrical & Electronic   Environmental Sciences   Computer Science & Information Systems	37   38   40   36	Physical Sciences   Computer Science   Social Sciences   Engineering

Simulating mitigation scenarios for natural and artificial inlets closure through validated morphodynamic models	1103  1104  1105  2303	Animal Science and Zoology  Aquatic Science  Ecology, Evolution, Behavior and Systematics  Ecology	4  5	Natural Sciences  Life Sciences & Medicine	502  424	Agriculture & Forestry  Environmental Sciences	32  37	Life Sciences  Physical Sciences
A novel renewable energy powered zero liquid discharge scheme for RO desalination applications	1500  2201  2301  2304  2305	General Chemical Engineering  Engineering (miscellaneous)  Environmental Science (miscellaneous)  Environmental Chemistry  Environmental Engineering	2  4	Engineering & Technology  Natural Sciences	424  219  249	Environmental Sciences  Engineering - Chemical  Engineering - Petroleum	36  37	Engineering  Physical Sciences
Graphical analysis and revamping of crude distillation units under variable operational scenarios	1500  2201  2301  2304  2305	General Chemical Engineering  Engineering (miscellaneous)  Environmental Science (miscellaneous)  Environmental Chemistry  Environmental Engineering	4  2	Natural Sciences  Engineering & Technology	424  249  219	Environmental Sciences  Engineering - Petroleum  Engineering - Chemical	36  37	Engineering  Physical Sciences
Technical and economic feasibility of the first wind farm on the coast of Mediterranean Sea	2200	General Engineering	2	Engineering & Technology	-	-	36	Engineering
Comprehensive Optimisation of Biodiesel Production Conditions via Supercritical Methanolysis of Waste Cooking Oil	2101  2102  2103  2105  2201  2208  2215  2606	Energy (miscellaneous)  Energy Engineering and Power Technology  Fuel Technology  Renewable Energy, Sustainability and the Environment  Engineering (miscellaneous)  Electrical and Electronic Engineering  Building and Construction  Control and Optimization	4  2	Natural Sciences  Engineering & Technology	431  249  221  106  220	Mathematics  Engineering - Petroleum  Engineering - Electrical & Electronic  Architecture  Engineering - Civil & Structural	36  37	Engineering  Physical Sciences
Impact of indium content on the thermoelectric power, dark conductivity, and photoconductivity of Ge-As-Te thin films	1600  2500	General Chemistry  General Materials Science	4  2	Natural Sciences  Engineering & Technology	433  409	Materials Science  Chemistry	37  36	Physical Sciences  Engineering
A fuzzy-predictive current control with real-time hardware for PEM fuel cell systems	1000	Multidisciplinary	-	-	-	-	-	-
Hybrid compressed air energy storage system and control strategy for a partially floating photovoltaic plant	2100  2102  2103  2105  2205  2208  2209  2210  2215  2308  2310  2611	General Energy  Energy Engineering and Power Technology  Fuel Technology  Renewable Energy, Sustainability and the Environment  Civil and Structural Engineering  Electrical and Electronic Engineering  Industrial and Manufacturing Engineering  Mechanical Engineering  Building and Construction  Management, Monitoring, Policy and Law  Pollution  Modeling and Simulation	3  4  2	Social Sciences & Management  Natural Sciences  Engineering & Technology	222  424  431  220  106  249  221	Engineering - Mechanical  Environmental Sciences  Mathematics  Engineering - Civil & Structural  Architecture  Engineering - Petroleum  Engineering - Electrical & Electronic	37  36	Physical Sciences  Engineering
Real-time V2G simulator for grid system frequency and voltage regulation with fault ride-through capabilities	2102  2208	Energy Engineering and Power Technology  Electrical and Electronic Engineering	2	Engineering & Technology	221  249	Engineering - Electrical & Electronic  Engineering - Petroleum	36	Engineering
Environmentally-driven design of a floating desalination platform (Case study: Reverse osmosis floating desalination platform of ras gharib, Egypt)	2102  2103  2105	Energy Engineering and Power Technology  Fuel Technology  Renewable Energy, Sustainability and the Environment	2	Engineering & Technology	249  221	Engineering - Petroleum  Engineering - Electrical & Electronic	36	Engineering
Advanced Maximum Adhesion Tracking Strategies in Railway Traction Drives	2102  2203  2208  3313	Energy Engineering and Power Technology  Automotive Engineering  Electrical and Electronic Engineering  Transportation	2  3	Engineering & Technology  Social Sciences & Management	221  222  249  106	Engineering - Electrical & Electronic  Engineering - Mechanical  Engineering - Petroleum  Architecture	40  36	Social Sciences  Engineering
Offshore wind power integration to support weak grid voltage for industrial loads using VSC-HVDC transmission system	1700  2208	General Computer Science  Electrical and Electronic Engineering	2	Engineering & Technology	212  221  249	Computer Science & Information Systems  Engineering - Electrical & Electronic  Engineering - Petroleum	36  38	Engineering  Computer Science

Power performance assessment of vertical-axis tidal turbines using an experimental test rig	2101  2102  2103  2105  2201  2208  2606	Energy (miscellaneous)  Energy Engineering and Power Technology  Fuel Technology  Renewable Energy, Sustainability and the Environment  Engineering (miscellaneous)  Electrical and Electronic Engineering  Control and Optimization	2  4	Engineering & Technology  Natural Sciences	431  221  249	Mathematics  Engineering - Electrical & Electronic  Engineering - Petroleum	36  37	Engineering  Physical Sciences
A Modified Phase Shift Control of the Dual Active Bridge-Based Modular Power Electronic Transformer to Minimize the LVdc Side Voltage Ripples under Unbalanced Load Conditions	1700  2200  2208  2500	General Computer Science  General Engineering  Electrical and Electronic Engineering  General Materials Science	2	Engineering & Technology	212  221  433  249	Computer Science & Information Systems  Engineering - Electrical & Electronic  Materials Science  Engineering - Petroleum	38  36	Computer Science  Engineering
Gamma radiation induced variation in structure formation and optical characteristics of evaporated tris [2-phenylpyridinato-C2,N]iridium(III) films prepared by electron beam evaporator in photovoltaic applications	2610  3104  3107	Mathematical Physics  Condensed Matter Physics  Atomic and Molecular Physics, and Optics	4	Natural Sciences	439	Physics & Astronomy	37	Physical Sciences
The Validation and Implementation of the Second-Order Adaptive Fuzzy Logic Controller of a Double-Fed Induction Generator in an Oscillating Water Column	1705  1708  1711  2207  2208	Computer Networks and Communications  Hardware and Architecture  Signal Processing  Control and Systems Engineering  Electrical and Electronic Engineering	2	Engineering & Technology	249  221  213  212	Engineering - Petroleum  Engineering - Electrical & Electronic  Data Science  Computer Science & Information Systems	36  38	Engineering  Computer Science
Life cycle assessments of biofuel production from beach-cast seaweed by pyrolysis and hydrothermal liquefaction	2102  2103  2104  2105	Energy Engineering and Power Technology  Fuel Technology  Nuclear Energy and Engineering  Renewable Energy, Sustainability and the Environment	2	Engineering & Technology	249  221	Engineering - Petroleum  Engineering - Electrical & Electronic	36	Engineering
Tunable electronic and magnetic properties of single layer CdS via Li substitutional doping: A first-principle study	1600  2500  3104	General Chemistry  General Materials Science  Condensed Matter Physics	2  4	Engineering & Technology  Natural Sciences	409  439  433	Chemistry  Physics & Astronomy  Materials Science	36  37	Engineering  Physical Sciences
Efficiency of utilizing building information modeling tools for examining smart materials behavior in a hot climate	2205  2211  2213  2215  2216	Civil and Structural Engineering  Mechanics of Materials  Safety, Risk, Reliability and Quality  Building and Construction  Architecture	1  2	Arts & Humanities  Engineering & Technology	249  106  220  433  222	Engineering - Petroleum  Architecture  Engineering - Civil & Structural  Materials Science  Engineering - Mechanical	36  33	Engineering  Arts and Humanities
Electronic, optical and magnetic characteristics of v doped BeS	2610  3104  3107	Mathematical Physics  Condensed Matter Physics  Atomic and Molecular Physics, and Optics	4	Natural Sciences	439	Physics & Astronomy	37	Physical Sciences
Numerical Investigations on Latent Heat Storage Unit using Phase Change Material	3100	General Physics and Astronomy	4	Natural Sciences	439	Physics & Astronomy	37	Physical Sciences
Distortion management of the pulse without and in the presence of Compton scattering in a three level atomic configuration	1507  3100	Fluid Flow and Transfer Processes  General Physics and Astronomy	4  2	Natural Sciences  Engineering & Technology	439  219  249	Physics & Astronomy  Engineering - Chemical  Engineering - Petroleum	36  37	Engineering  Physical Sciences
High-Performance Glazing for Enhancing Sustainable Environment in Arid Region's Healthcare Projects	2205  2215  2216	Civil and Structural Engineering  Building and Construction  Architecture	2  1	Engineering & Technology  Arts & Humanities	220  106	Engineering - Civil & Structural  Architecture	33  36	Arts and Humanities  Engineering

Proposed hybrid power system for short route ferries	1508  2212  2312  3313	Process Chemistry and Technology  Ocean Engineering  Water Science and Technology  Transportation	2  4  3	Engineering & Technology  Natural Sciences  Social Sciences & Management	247  106  249  219  416  451  424	Engineering - Mineral & Mining  Architecture  Engineering - Petroleum  Engineering - Chemical  Earth & Marine Sciences  Geophysics  Environmental Sciences	36  40  37	Engineering  Social Sciences  Physical Sciences
Maximum Power Point Tracking for Grid-tied PV System Using Adaptive Neuro-Fuzzy Inference System	2102  2208  2210	Energy Engineering and Power Technology  Electrical and Electronic Engineering  Mechanical Engineering	2	Engineering & Technology	221  222  249	Engineering - Electrical & Electronic  Engineering - Mechanical  Engineering - Petroleum	36	Engineering
Peridynamic Modelling of Propagation of Cracks in Photovoltaic Panels	2205  2210  2211  2500	Civil and Structural Engineering  Mechanical Engineering  Mechanics of Materials  General Materials Science	2	Engineering & Technology	433  222  220	Materials Science  Engineering - Mechanical  Engineering - Civil & Structural	36	Engineering
A novel EPSO algorithm based on shifted sigmoid function parameters for maximizing the energy yield from photovoltaic arrays: An experimental investigation	2200	General Engineering	2	Engineering & Technology	-	-	36	Engineering
Enhancement of the performance of wireless sensor networks using the multihop multiantenna power beacon path selection method in intelligent structures	1000	Multidisciplinary	-	-	-	-	-	-
Switching schemes of the bidirectional buck-boost converter for energy storage system	1702  2102  2202  2203  2208  2210  2606  2611	Artificial Intelligence  Energy Engineering and Power Technology  Aerospace Engineering  Automotive Engineering  Electrical and Electronic Engineering  Mechanical Engineering  Control and Optimization  Modeling and Simulation	4  2	Natural Sciences  Engineering & Technology	249  212  213  221  222  431	Engineering - Petroleum  Computer Science & Information Systems  Data Science  Engineering - Electrical & Electronic  Engineering - Mechanical  Mathematics	38  36  37	Computer Science  Engineering  Physical Sciences
Optimal performance of actuator disc models for horizontal-axis turbines	2002  2102  2103  2105	Economics and Econometrics  Energy Engineering and Power Technology  Fuel Technology  Renewable Energy, Sustainability and the Environment	3  2	Social Sciences & Management  Engineering & Technology	221  249  317	Engineering - Electrical & Electronic  Engineering - Petroleum  Economics & Econometrics	36  35	Engineering  Business and Economics
Techno-economic assessment of vertical axis wind turbine driven RO desalination with compressed air energy storage for remote communities	1500  1600  2210  2312  2500	General Chemical Engineering  General Chemistry  Mechanical Engineering  Water Science and Technology  General Materials Science	4  2	Natural Sciences  Engineering & Technology	433  222  219  424  409	Materials Science  Engineering - Mechanical  Engineering - Chemical  Environmental Sciences  Chemistry	37  36	Physical Sciences  Engineering
Highly flexible wind turbine blades utilizing corrugated surface hinges	2505  2508  3110	Materials Chemistry  Surfaces, Coatings and Films  Surfaces and Interfaces	4	Natural Sciences	433  439	Materials Science  Physics & Astronomy	36  37	Engineering  Physical Sciences
Electrical properties of ternary $Cu_x(Ge_3Se_7)_{100-x}$ thin films	2208  2504  3107	Electrical and Electronic Engineering  Electronic, Optical and Magnetic Materials  Atomic and Molecular Physics, and Optics	2  4	Engineering & Technology  Natural Sciences	439  249  433  221	Physics & Astronomy  Engineering - Petroleum  Materials Science  Engineering - Electrical & Electronic	37  36	Physical Sciences  Engineering
Enhanced biodiesel production with improved oxidation stability by water addition to supercritical methanolysis	1500	General Chemical Engineering	2	Engineering & Technology	219	Engineering - Chemical	36	Engineering
Mechanical properties and band gap estimations of stoichiometric $GeSe_2$ - $As_2Se_3$ glasses	2208  2504  3107	Electrical and Electronic Engineering  Electronic, Optical and Magnetic Materials  Atomic and Molecular Physics, and Optics	4  2	Natural Sciences  Engineering & Technology	439  249  433  221	Physics & Astronomy  Engineering - Petroleum  Materials Science  Engineering - Electrical & Electronic	36  37	Engineering  Physical Sciences
Forecasting of Short-Term and Long-Term Wind	2102  2105	Energy Engineering and Power Technology  Renewable Energy, Sustainability and the Environment	2	Engineering & Technology	221  249	Engineering - Electrical & Electronic  Engineering - Petroleum	36	Engineering

Speed of Ras-Gharib Using Time Series Analysis								
Synthesis and evaluation of core-shell nanocomposites for the photodegradation of liner alkyl-benzene sulfonate water contaminations	1100  2304  2305	General Agricultural and Biological Sciences  Environmental Chemistry  Environmental Engineering	2  4  5	Engineering & Technology  Natural Sciences  Life Sciences & Medicine	249  424  502	Engineering - Petroleum  Environmental Sciences  Agriculture & Forestry	37  32	Physical Sciences  Life Sciences
Techno-economic assessment of a novel wind-powered RO system with a compressed air energy storage for water desalination	2100  2102  2103  2105  2205  2208  2209  2210  2215  2308  2310  2611	General Energy  Energy Engineering and Power Technology  Fuel Technology  Renewable Energy, Sustainability and the Environment  Civil and Structural Engineering  Electrical and Electronic Engineering  Industrial and Manufacturing Engineering  Mechanical Engineering  Building and Construction  Management, Monitoring, Policy and Law  Pollution  Modeling and Simulation	3  2  4	Social Sciences & Management  Engineering & Technology  Natural Sciences	106  221  249  220  431  424  222	Architecture  Engineering - Electrical & Electronic  Engineering - Petroleum  Engineering - Civil & Structural  Mathematics  Environmental Sciences  Engineering - Mechanical	36  37	Engineering  Physical Sciences
Experimental Validation of Second-Order Adaptive Fuzzy Logic Controller for Grid-Connected DFIG Wind Power Plant	1700  2200  2500	General Computer Science  General Engineering  General Materials Science	2	Engineering & Technology	433  212	Materials Science  Computer Science & Information Systems	38  36	Computer Science  Engineering
Polymeric solar cell with 18.06% efficiency based on poly(para-nitroaniline)/TiO2 composites	1604  1605  1606  1607  2208  2504  3107	Inorganic Chemistry  Organic Chemistry  Physical and Theoretical Chemistry  Spectroscopy  Electrical and Electronic Engineering  Electronic, Optical and Magnetic Materials  Atomic and Molecular Physics, and Optics	4  2	Natural Sciences  Engineering & Technology	439  433  409  249  221	Physics & Astronomy  Materials Science  Chemistry  Engineering - Petroleum  Engineering - Electrical & Electronic	37  36	Physical Sciences  Engineering
Assessment of Onshore Renewable Energy Power Supply for Ship's Emissions Reduction in Port Said West Port	2210  2212	Mechanical Engineering  Ocean Engineering	2  4	Engineering & Technology  Natural Sciences	222  247  249  451  416	Engineering - Mechanical  Engineering - Mineral & Mining  Engineering - Petroleum  Geophysics  Earth & Marine Sciences	36	Engineering
A novel hybrid compact system of photovoltaic solar still air gap membrane distillation for the simultaneous production of water and energy	2212  2310  2312	Ocean Engineering  Pollution  Water Science and Technology	2  3  4	Engineering & Technology  Social Sciences & Management  Natural Sciences	247  249  424  416  451	Engineering - Mineral & Mining  Engineering - Petroleum  Environmental Sciences  Earth & Marine Sciences  Geophysics	37  36	Physical Sciences  Engineering
Evaluating BIPV Façades in a Building Envelope in Hot Districts for Enhancing Sustainable Ranking: A Saudi Arabian Perspective	2205  2215  2216	Civil and Structural Engineering  Building and Construction  Architecture	2  1	Engineering & Technology  Arts & Humanities	106  220	Architecture  Engineering - Civil & Structural	36  33	Engineering  Arts and Humanities
AN APPROXIMATION OF USING VERTICAL-AXIS TIDAL TURBINE FOR WATER DESALINATION IN THE SUEZ CANAL WATERWAY	2102  2105	Energy Engineering and Power Technology  Renewable Energy, Sustainability and the Environment	2	Engineering & Technology	249  221	Engineering - Petroleum  Engineering - Electrical & Electronic	36	Engineering
The Effect of Novel Longitudinal Branched Fins on the Performance of the Latent Heat Accumulator based on Shell-and-Tube Configuration	2102  2105	Energy Engineering and Power Technology  Renewable Energy, Sustainability and the Environment	2	Engineering & Technology	249  221	Engineering - Petroleum  Engineering - Electrical & Electronic	36	Engineering
Design and implementation of voltage source converters in HVDC systems	2102  2208	Energy Engineering and Power Technology  Electrical and Electronic Engineering	2	Engineering & Technology	249  221	Engineering - Petroleum  Engineering - Electrical & Electronic	36	Engineering
Enhancing the Performance of the Output Active Power of DFIG-Based Wind Turbines	1702  1705  1708  1802  2208  3107	Artificial Intelligence  Computer Networks and Communications  Hardware and Architecture  Information Systems and Management  Electrical and Electronic Engineering  Atomic and Molecular Physics, and Optics	4  2	Natural Sciences  Engineering & Technology	213  439  249  221  212	Data Science  Physics & Astronomy  Engineering - Petroleum  Engineering - Electrical & Electronic  Computer Science & Information Systems	37  38  36	Physical Sciences  Computer Science  Engineering

Using Auto Disturbance Rejection Control								
Increased efficiency of hydrokinetic turbines through the use of an obstacle on the channel bottom	2212  2305	Ocean Engineering  Environmental Engineering	4  2	Natural Sciences  Engineering & Technology	451  424  247  249  416	Geophysics  Environmental Sciences  Engineering - Mineral & Mining  Engineering - Petroleum  Earth & Marine Sciences	37  36	Physical Sciences  Engineering
Neural Fuzzy Control of the Indoor Air Quality Onboard a RO-RO Ship Garage	1702  1703  1710  1712  2207  2614	Artificial Intelligence  Computational Theory and Mathematics  Information Systems  Software  Control and Systems Engineering  Theoretical Computer Science	2	Engineering & Technology	213  212	Data Science  Computer Science & Information Systems	38  37  36	Computer Science  Physical Sciences  Engineering
Investigating the Kinetic Parameters in the Thermal Analysis of Jojoba Cake	1600  2500  2501	General Chemistry  General Materials Science  Materials Science (miscellaneous)	2  4	Engineering & Technology  Natural Sciences	433  409	Materials Science  Chemistry	36  37	Engineering  Physical Sciences
Synthesis, Structural, Time-Dependent Density-Functional Theory, Thermal Annealing and Optical Properties for Doped Polymer Nanostructured Thin Films as Optoelectronic Devices	1500  2505  2507	General Chemical Engineering  Materials Chemistry  Polymers and Plastics	2  4	Engineering & Technology  Natural Sciences	433  219	Materials Science  Engineering - Chemical	36	Engineering
Design and Three-Dimensional Simulation of a Solar Dish-Stirling Engine	1507	Fluid Flow and Transfer Processes	2	Engineering & Technology	249  219	Engineering - Petroleum  Engineering - Chemical	36	Engineering
Experimental and numerical investigation of a three-blade horizontal axis hydrokinetic water turbine (HAHT) in high blockage conditions	2105	Renewable Energy, Sustainability and the Environment	2	Engineering & Technology	221	Engineering - Electrical & Electronic	36	Engineering
PVSails: Harnessing Innovation With Vertical Bifacial PV Modules in Floating Photovoltaic Systems	2105  2208  2504  3104	Renewable Energy, Sustainability and the Environment  Electrical and Electronic Engineering  Electronic, Optical and Magnetic Materials  Condensed Matter Physics	2  4	Engineering & Technology  Natural Sciences	249  439  433  221	Engineering - Petroleum  Physics & Astronomy  Materials Science  Engineering - Electrical & Electronic	36  37	Engineering  Physical Sciences
Experimental and Simulation Study of Solar-Powered Air-Gap Membrane Distillation Technology for Water Desalination	1501  1506  1508	Chemical Engineering (miscellaneous)  Filtration and Separation  Process Chemistry and Technology	2	Engineering & Technology	249  219	Engineering - Petroleum  Engineering - Chemical	36	Engineering
A Centralized Protection Scheme for Microgrids with Artificial Neural Network-Based on Fault Detection and Location	2102  2105  2208  2504  2606	Energy Engineering and Power Technology  Renewable Energy, Sustainability and the Environment  Electrical and Electronic Engineering  Electronic, Optical and Magnetic Materials  Control and Optimization	4  2	Natural Sciences  Engineering & Technology	249  433  431  221	Engineering - Petroleum  Materials Science  Mathematics  Engineering - Electrical & Electronic	37  36	Physical Sciences  Engineering
Critical Assessment of Current State of the Art in Wearable Sensor Nodes with Energy Harvesting Systems for Healthcare Applications	1705  1711  2207	Computer Networks and Communications  Signal Processing  Control and Systems Engineering	2	Engineering & Technology	213  212	Data Science  Computer Science & Information Systems	36  38	Engineering  Computer Science
A Comparative Study of Two Metaheuristic MPPT Techniques to Extract Maximum Power from PV Array under Different Partial Shading Patterns	2102  2105  2208  2606  3313	Energy Engineering and Power Technology  Renewable Energy, Sustainability and the Environment  Electrical and Electronic Engineering  Control and Optimization  Transportation	4  2  3	Natural Sciences  Engineering & Technology  Social Sciences & Management	249  221  431  106	Engineering - Petroleum  Engineering - Electrical & Electronic  Mathematics  Architecture	36  40  37	Engineering  Social Sciences  Physical Sciences

Vsc-hvdc control system	2102  2208	Energy Engineering and Power Technology  Electrical and Electronic Engineering	2	Engineering & Technology	221  249	Engineering - Electrical & Electronic  Engineering - Petroleum	36	Engineering
Fuzzy Logic-Pitch Angle Controller for SCIG based Wind Turbine	2102  2103  2105  2208  2210	Energy Engineering and Power Technology  Fuel Technology  Renewable Energy, Sustainability and the Environment  Electrical and Electronic Engineering  Mechanical Engineering	2	Engineering & Technology	222  249  221	Engineering - Mechanical  Engineering - Petroleum  Engineering - Electrical & Electronic	36	Engineering
An Integrated Approach for Demand Response and Wind Curtailment Management in Distribution Systems	2102  2105	Energy Engineering and Power Technology  Renewable Energy, Sustainability and the Environment	2	Engineering & Technology	249  221	Engineering - Petroleum  Engineering - Electrical & Electronic	36	Engineering
Aeroelastic modelling of tail fins for small wind turbines	3100	General Physics and Astronomy	4	Natural Sciences	439	Physics & Astronomy	37	Physical Sciences
DFT Study of Lead-Free Mixed-Halide Materials Cs <sub>2</sub> X <sub>2</sub> Y <sub>2</sub> (X, Y = F, Cl, Br, I) for Optoelectronic Applications	2208  2504  2505  3104	Electrical and Electronic Engineering  Electronic, Optical and Magnetic Materials  Materials Chemistry  Condensed Matter Physics	4  2	Natural Sciences  Engineering & Technology	249  221  433  439	Engineering - Petroleum  Engineering - Electrical & Electronic  Materials Science  Physics & Astronomy	37  36	Physical Sciences  Engineering
Hybrid MPPT-based predictive speed control model for variable speed PMSG wind energy conversion systems	1000	Multidisciplinary	-	-	-	-	-	-
Production and characterization of bio-oil from camethorn plant using slow pyrolysis	1606  2505  2507  3104  3500	Physical and Theoretical Chemistry  Materials Chemistry  Polymers and Plastics  Condensed Matter Physics  General Dentistry	5  4  2	Life Sciences & Medicine  Natural Sciences  Engineering & Technology	249  439  433  409  514	Engineering - Petroleum  Physics & Astronomy  Materials Science  Chemistry  Dentistry	34  37  36	Medical and Health  Physical Sciences  Engineering
Performance Assessment of Artificial Neural Networks-Based MPPT Technique for Photovoltaic Systems	1702  2102  2105  2208  2606	Artificial Intelligence  Energy Engineering and Power Technology  Renewable Energy, Sustainability and the Environment  Electrical and Electronic Engineering  Control and Optimization	4  2	Natural Sciences  Engineering & Technology	221  213  431  212  249	Engineering - Electrical & Electronic  Data Science  Mathematics  Computer Science & Information Systems  Engineering - Petroleum	38  37  36	Computer Science  Physical Sciences  Engineering
Optimal Energy Management of VPP-Based Energy Storage Considering Renewable Energy Integration and EV Charging	1702  2102  2208  2210  2213  2606	Artificial Intelligence  Energy Engineering and Power Technology  Electrical and Electronic Engineering  Mechanical Engineering  Safety, Risk, Reliability and Quality  Control and Optimization	4  2	Natural Sciences  Engineering & Technology	222  249  213  212  221  431	Engineering - Mechanical  Engineering - Petroleum  Data Science  Computer Science & Information Systems  Engineering - Electrical & Electronic  Mathematics	37  36  38	Physical Sciences  Engineering  Computer Science
Surface plasmon polariton at the interface of dielectric and graphene medium using the Doppler broadening effect	2209  3104  3105  3107	Industrial and Manufacturing Engineering  Condensed Matter Physics  Instrumentation  Atomic and Molecular Physics, and Optics	2  4	Engineering & Technology  Natural Sciences	439  222	Physics & Astronomy  Engineering - Mechanical	37  36	Physical Sciences  Engineering
Geometrically nonlinear transient analysis of Timoshenko tapered beam-column element using a finite element formulation based on the exact shape functions	2202  2203  2205  2210  2211  2212  2600  3104	Aerospace Engineering  Automotive Engineering  Civil and Structural Engineering  Mechanical Engineering  Mechanics of Materials  Ocean Engineering  General Mathematics  Condensed Matter Physics	2  4	Engineering & Technology  Natural Sciences	416  220  249  431  451  222  433  439  247	Earth & Marine Sciences  Engineering - Civil & Structural  Engineering - Petroleum  Mathematics  Geophysics  Engineering - Mechanical  Materials Science  Physics & Astronomy  Engineering - Mineral & Mining	37  36	Physical Sciences  Engineering
Efficient offloading and task scheduling in internet of things-cloud-fog environment	1700  2208	General Computer Science  Electrical and Electronic Engineering	2	Engineering & Technology	212  221  249	Computer Science & Information Systems  Engineering - Electrical & Electronic  Engineering - Petroleum	38  36	Computer Science  Engineering
First principle study of er, co-doped fe and yb of nabif6; a promising materials for optoelectronic and	1315  1606  2204  2500  3104  3107	Structural Biology  Physical and Theoretical Chemistry  Biomedical Engineering  General Materials Science  Condensed Matter Physics  Atomic and Molecular Physics, and Optics	2  5  4	Engineering & Technology  Life Sciences & Medicine  Natural Sciences	249  439  507  433  409	Engineering - Petroleum  Physics & Astronomy  Biological Sciences  Materials Science  Chemistry	36  32  37	Engineering  Life Sciences  Physical Sciences

transport properties; probed by dft								
Hybrid concentrator photovoltaic/membrane distillation system for potable water production using new fabricated PS/ZIF-L membrane	1305  1508  2213  2311	Biotechnology  Process Chemistry and Technology  Safety, Risk, Reliability and Quality  Waste Management and Disposal	5  3  2	Life Sciences & Medicine  Social Sciences & Management  Engineering & Technology	249  219  507  424	Engineering - Petroleum  Engineering - Chemical  Biological Sciences  Environmental Sciences	32  36  37	Life Sciences  Engineering  Physical Sciences
Oleaginous fungi as a sustainable source for biodiesel production: Current and future prospect	1101  2402  2403  2404	Agricultural and Biological Sciences (miscellaneous)  Applied Microbiology and Biotechnology  Immunology  Microbiology	5	Life Sciences & Medicine	507  502	Biological Sciences  Agriculture & Forestry	32	Life Sciences
Optimal planning for sustainable and cost-effective power generation on the Red Sea coast	2102  2105	Energy Engineering and Power Technology  Renewable Energy, Sustainability and the Environment	2	Engineering & Technology	221  249	Engineering - Electrical & Electronic  Engineering - Petroleum	36	Engineering
Thin film synthesis and photovoltaic performance of polypyrrole@cobalt hydroxide composites for solar cells and optoelectronic devices	2105  2504  2508	Renewable Energy, Sustainability and the Environment  Electronic, Optical and Magnetic Materials  Surfaces, Coatings and Films	2  4	Engineering & Technology  Natural Sciences	433  221	Materials Science  Engineering - Electrical & Electronic	36	Engineering
The nonlinear behavior of generic tail fins for small wind turbines	2105	Renewable Energy, Sustainability and the Environment	2	Engineering & Technology	221	Engineering - Electrical & Electronic	36	Engineering
Finite Element Analysis for Dynamic Simulation of Composite HAWT Blade	2102  2105	Energy Engineering and Power Technology  Renewable Energy, Sustainability and the Environment	2	Engineering & Technology	221  249	Engineering - Electrical & Electronic  Engineering - Petroleum	36	Engineering
High-voltage direct current transmission	2102  2208	Energy Engineering and Power Technology  Electrical and Electronic Engineering	2	Engineering & Technology	249  221	Engineering - Petroleum  Engineering - Electrical & Electronic	36	Engineering
A solar energy-based shore side power system for a ferry service across the Suez Canal	2210  2212	Mechanical Engineering  Ocean Engineering	2  4	Engineering & Technology  Natural Sciences	247  249  222  451  416	Engineering - Mineral & Mining  Engineering - Petroleum  Engineering - Mechanical  Geophysics  Earth & Marine Sciences	36	Engineering
African vulture optimizer algorithm for fuzzy logic speed controller of fuel cell electric vehicle	2102  2208	Energy Engineering and Power Technology  Electrical and Electronic Engineering	2	Engineering & Technology	221  249	Engineering - Electrical & Electronic  Engineering - Petroleum	36	Engineering
Vsc-hvdc under ac and dc fault conditions	2102  2208	Energy Engineering and Power Technology  Electrical and Electronic Engineering	2	Engineering & Technology	249  221	Engineering - Petroleum  Engineering - Electrical & Electronic	36	Engineering
Photovoltaic-Powered Smart Aquaponic System: Integrating IoT and AI for Sustainable Food Production and Fish Health Management	1702  1705  1711  2213  2606	Artificial Intelligence  Computer Networks and Communications  Signal Processing  Safety, Risk, Reliability and Quality  Control and Optimization	4  2	Natural Sciences  Engineering & Technology	431  212  249  213	Mathematics  Computer Science & Information Systems  Engineering - Petroleum  Data Science	37  36  38	Physical Sciences  Engineering  Computer Science
Experimental Examination of Enhanced Nanoceramic-Based Self-Cleaning Sprays for High-Efficiency Hydrophobic Photovoltaic Panels	2505  2508  3110	Materials Chemistry  Surfaces, Coatings and Films  Surfaces and Interfaces	4	Natural Sciences	433  439	Materials Science  Physics & Astronomy	37  36	Physical Sciences  Engineering
Protection of Wind Turbine Generators Using Microcontroller-Based Applications	2102  2105  2209  2308	Energy Engineering and Power Technology  Renewable Energy, Sustainability and the Environment  Industrial and Manufacturing Engineering  Management, Monitoring, Policy and Law	2  3	Engineering & Technology  Social Sciences & Management	222  249  424  221	Engineering - Mechanical  Engineering - Petroleum  Environmental Sciences  Engineering - Electrical & Electronic	37  36	Physical Sciences  Engineering
INTERNET OF ENERGY APPLIED TO WATER HYDROKINETIC SMART-GRIDS: A TEST RIG EXAMPLE	2102  2105	Energy Engineering and Power Technology  Renewable Energy, Sustainability and the Environment	2	Engineering & Technology	249  221	Engineering - Petroleum  Engineering - Electrical & Electronic	36	Engineering



SM-BIM: A NEW CONCEPTUAL FRAMEWORK FOR MULTI-CRITERIA DECISION-MAKING PROCESS BASED ON SMART MATERIALS AND BUILDING INFORMATION MODELING	2205   2215   2216   2300   2305   2308   2309   2739   3305	Civil and Structural Engineering   Building and Construction   Architecture   General Environmental Science   Environmental Engineering   Management, Monitoring, Policy and Law   Nature and Landscape Conservation   Public Health, Environmental and Occupational Health   Geography, Planning and Development	5   1   3   2	Life Sciences & Medicine   Arts & Humanities   Social Sciences & Management   Engineering & Technology	424   425   532   220   106	Environmental Sciences   Geography   Medicine   Engineering - Civil & Structural   Architecture	34   36   40   37   33	Medical and Health   Engineering   Social Sciences   Physical Sciences   Arts and Humanities
Estimating the energy consumption for residential buildings in semiarid and arid desert climate using artificial intelligence	1000	Multidisciplinary	-	-	-	-	-	-
Graphical Revamping of a Crude Distillation Unit under Two Variable Operational Scenarios - Naphtha Stabilizer and Reformer Operated	1500	General Chemical Engineering	2	Engineering & Technology	219	Engineering - Chemical	36	Engineering
Static and dynamic analysis of a new offshore wind turbine system supported with outriggers	2202   2203   2205   2210   2211   2212   2600   3104	Aerospace Engineering   Automotive Engineering   Civil and Structural Engineering   Mechanical Engineering   Mechanics of Materials   Ocean Engineering   General Mathematics   Condensed Matter Physics	4   2	Natural Sciences   Engineering & Technology	451   220   247   433   416   431   222   249   439	Geophysics   Engineering - Civil & Structural   Engineering - Mineral & Mining   Materials Science   Earth & Marine Sciences   Mathematics   Engineering - Mechanical   Engineering - Petroleum   Physics & Astronomy	37   36	Physical Sciences   Engineering
Performance Assessment of T-Source Inverter Fed Induction Motor Drives Based on Photovoltaics	2102   2105   2208   2504   2606	Energy Engineering and Power Technology   Renewable Energy, Sustainability and the Environment   Electrical and Electronic Engineering   Electronic, Optical and Magnetic Materials   Control and Optimization	2   4	Engineering & Technology   Natural Sciences	249   433   221   431	Engineering - Petroleum   Materials Science   Engineering - Electrical & Electronic   Mathematics	37   36	Physical Sciences   Engineering
Conversion of Fish Waste Oil into Biofuel: An Experimental Study	1305	Biotechnology	5	Life Sciences & Medicine	507	Biological Sciences	32	Life Sciences
Study Network Reconfiguration Using Optimization Techniques to Improve Voltage Stability	2208	Electrical and Electronic Engineering	2	Engineering & Technology	249   221	Engineering - Petroleum   Engineering - Electrical & Electronic	36	Engineering
Estimation of density of charged defect states in some glasses of SeFeSnPb system using low-temperature d.c. conductivity measurements	2208   2504   3104   3107	Electrical and Electronic Engineering   Electronic, Optical and Magnetic Materials   Condensed Matter Physics   Atomic and Molecular Physics, and Optics	4   2	Natural Sciences   Engineering & Technology	433   221   249   439	Materials Science   Engineering - Electrical & Electronic   Engineering - Petroleum   Physics & Astronomy	36   37	Engineering   Physical Sciences
Power grids with renewable energy: Storage, integration and digitalization	2200	General Engineering	2	Engineering & Technology	-	-	36	Engineering
Green Hydrogen Production from Ethanol Electrolysis Using Co/Ni Bimetallic Nanoparticles-Incorporated Carbon Nanofibers	1500   1600	General Chemical Engineering   General Chemistry	4   2	Natural Sciences   Engineering & Technology	219   409	Engineering - Chemical   Chemistry	37   36	Physical Sciences   Engineering
Experimentally validated simplified prediction model of unloaded spar-buoy wave energy converter motions' responses in waves	2102   2210	Energy Engineering and Power Technology   Mechanical Engineering	2	Engineering & Technology	249   222   221	Engineering - Petroleum   Engineering - Mechanical   Engineering - Electrical & Electronic	36	Engineering

Joint Reflection Design and Channel Estimation for Intelligent Reflective Surfaces	1702  1705  1711  2213  2606	Artificial Intelligence  Computer Networks and Communications  Signal Processing  Safety, Risk, Reliability and Quality  Control and Optimization	2  4	Engineering & Technology  Natural Sciences	212  431  249  213	Computer Science & Information Systems  Mathematics  Engineering - Petroleum  Data Science	38  36  37	Computer Science  Engineering  Physical Sciences
Protective Schemes for Induction Generator	2102  2105  2209  2308	Energy Engineering and Power Technology  Renewable Energy, Sustainability and the Environment  Industrial and Manufacturing Engineering  Management, Monitoring, Policy and Law	2  3	Engineering & Technology  Social Sciences & Management	249  222  221  424	Engineering - Petroleum  Engineering - Mechanical  Engineering - Electrical & Electronic  Environmental Sciences	37  36	Physical Sciences  Engineering
Conclusions and Future Work	2102  2105  2209  2308	Energy Engineering and Power Technology  Renewable Energy, Sustainability and the Environment  Industrial and Manufacturing Engineering  Management, Monitoring, Policy and Law	3  2	Social Sciences & Management  Engineering & Technology	221  424  222  249	Engineering - Electrical & Electronic  Environmental Sciences  Engineering - Mechanical  Engineering - Petroleum	36  37	Engineering  Physical Sciences
Vsc-hvdc simulation results	2102  2208	Energy Engineering and Power Technology  Electrical and Electronic Engineering	2	Engineering & Technology	249  221	Engineering - Petroleum  Engineering - Electrical & Electronic	36	Engineering
Diagnostic Strategies for Microturbines Operating Status Applied to Predictive Maintenance: Experimental Test Case	2200	General Engineering	2	Engineering & Technology	-	-	36	Engineering
Co-Flow Jet Effects on the Aerodynamic Performance of National Renewable Energy Laboratory Aerofoils with Different Thicknesses for Wind Turbine Applications	2301  2303  2305	Environmental Science (miscellaneous)  Ecology  Environmental Engineering	4  2	Natural Sciences  Engineering & Technology	424	Environmental Sciences	37	Physical Sciences
Wind Tunnel and OpenFOAM Flow Analysis of A High Solidity Vertical-Axis Wind Turbine	2200	General Engineering	2	Engineering & Technology	-	-	36	Engineering
High-Power Three-Port Converter for Efficient EV Fast Charging Using Partial Power Processing	2102  2208  2210  2213	Energy Engineering and Power Technology  Electrical and Electronic Engineering  Mechanical Engineering  Safety, Risk, Reliability and Quality	2	Engineering & Technology	249  222  221	Engineering - Petroleum  Engineering - Mechanical  Engineering - Electrical & Electronic	36	Engineering
Conclusions and future work	2102  2208	Energy Engineering and Power Technology  Electrical and Electronic Engineering	2	Engineering & Technology	221  249	Engineering - Electrical & Electronic  Engineering - Petroleum	36	Engineering
Experimental Setups and Results for Digital Relay Protection	2102  2105  2209  2308	Energy Engineering and Power Technology  Renewable Energy, Sustainability and the Environment  Industrial and Manufacturing Engineering  Management, Monitoring, Policy and Law	3  2	Social Sciences & Management  Engineering & Technology	222  424  249  221	Engineering - Mechanical  Environmental Sciences  Engineering - Petroleum  Engineering - Electrical & Electronic	36  37	Engineering  Physical Sciences
Solar wind effect on the multi-fluid plasma expansion in the Venusian upper ionosphere	1912  3103	Space and Planetary Science  Astronomy and Astrophysics	4	Natural Sciences	416  439  451  450	Earth & Marine Sciences  Physics & Astronomy  Geophysics  Geology	37	Physical Sciences
Simulation and Optimization of Waste Heat to Electricity through Organic Rankine Cycles (ORCs): a Case Study in an Oil Refinery	1500	General Chemical Engineering	2	Engineering & Technology	219	Engineering - Chemical	36	Engineering
Remagnetization Strategies for Induction Machines Operating with Reduced Flux Levels	2208  2210	Electrical and Electronic Engineering  Mechanical Engineering	2	Engineering & Technology	249  222  221	Engineering - Petroleum  Engineering - Mechanical  Engineering - Electrical & Electronic	36	Engineering
An Evaluation of Firefly and Flower Pollination Techniques Used to Harvest Maximum Power from PEMFC	1702  2102  2208  2210  2213  2606	Artificial Intelligence  Energy Engineering and Power Technology  Electrical and Electronic Engineering  Mechanical Engineering  Safety, Risk, Reliability and Quality  Control and Optimization	4  2	Natural Sciences  Engineering & Technology	222  213  249  431  221  212	Engineering - Mechanical  Data Science  Engineering - Petroleum  Mathematics  Engineering - Electrical & Electronic  Computer Science & Information Systems	36  37  38	Engineering  Physical Sciences  Computer Science

Fabrication, photovoltaic analysis, and electrical characterization of Au/ZnTPyP/p-Si/Ag heterojunction under gamma radiation effect for solar cell applications	1507  3100	Fluid Flow and Transfer Processes  General Physics and Astronomy	2  4	Engineering & Technology  Natural Sciences	439  249  219	Physics & Astronomy  Engineering - Petroleum  Engineering - Chemical	36  37	Engineering  Physical Sciences
New Efficient Configurations for Sour Wastewater Treatment	1500	General Chemical Engineering	2	Engineering & Technology	219	Engineering - Chemical	36	Engineering
A Multi-Objective Approach for Available Transfer Capability Considering Capability Curve of DFIG Wind Farm	1702  2102  2208  2210  2213  2606	Artificial Intelligence  Energy Engineering and Power Technology  Electrical and Electronic Engineering  Mechanical Engineering  Safety, Risk, Reliability and Quality  Control and Optimization	2  4	Engineering & Technology  Natural Sciences	221  213  249  222  212  431	Engineering - Electrical & Electronic  Data Science  Engineering - Petroleum  Engineering - Mechanical  Computer Science & Information Systems  Mathematics	38  37  36	Computer Science  Physical Sciences  Engineering
Fully symbolic-based technique for solving complex state-space control systems	1700  2208	General Computer Science  Electrical and Electronic Engineering	2	Engineering & Technology	212  221  249	Computer Science & Information Systems  Engineering - Electrical & Electronic  Engineering - Petroleum	38  36	Computer Science  Engineering
Maximizing Renewable Energy Integration through Demand Response Strategies in Distribution Systems Considering Uncertainties	1702  2102  2208  2210  2213  2606	Artificial Intelligence  Energy Engineering and Power Technology  Electrical and Electronic Engineering  Mechanical Engineering  Safety, Risk, Reliability and Quality  Control and Optimization	2  4	Engineering & Technology  Natural Sciences	249  221  213  212  222  431	Engineering - Petroleum  Engineering - Electrical & Electronic  Data Science  Computer Science & Information Systems  Engineering - Mechanical  Mathematics	38  36  37	Computer Science  Engineering  Physical Sciences
Better heat and power integration of an existing gas-oil plant in Egypt through revamping the design and organic rankine cycle	1500	General Chemical Engineering	2	Engineering & Technology	219	Engineering - Chemical	36	Engineering
Graphical revamping of a delayed coker unit: A case study from an Egyptian refinery	1507	Fluid Flow and Transfer Processes	2	Engineering & Technology	249  219	Engineering - Petroleum  Engineering - Chemical	36	Engineering
Transient Behavior of Induction Generator Protective Relays	2102  2105  2209  2308	Energy Engineering and Power Technology  Renewable Energy, Sustainability and the Environment  Industrial and Manufacturing Engineering  Management, Monitoring, Policy and Law	2  3	Engineering & Technology  Social Sciences & Management	222  249  221  424	Engineering - Mechanical  Engineering - Petroleum  Engineering - Electrical & Electronic  Environmental Sciences	37  36	Physical Sciences  Engineering
Introduction	2102  2208	Energy Engineering and Power Technology  Electrical and Electronic Engineering	2	Engineering & Technology	249  221	Engineering - Petroleum  Engineering - Electrical & Electronic	36	Engineering
Experimental investigation for hvdc system	2102  2208	Energy Engineering and Power Technology  Electrical and Electronic Engineering	2	Engineering & Technology	249  221	Engineering - Petroleum  Engineering - Electrical & Electronic	36	Engineering
THERMODYNAMIC ANALYSIS AND EXPERIMENTAL STUDY OF ALTERNATIVE BIOFUELS USING SAWDUST SLOW PYROLYSIS	1102  1107  2105  2311	Agronomy and Crop Science  Forestry  Renewable Energy, Sustainability and the Environment  Waste Management and Disposal	5  2  3	Life Sciences & Medicine  Engineering & Technology  Social Sciences & Management	221  502  424	Engineering - Electrical & Electronic  Agriculture & Forestry  Environmental Sciences	32  37  36	Life Sciences  Physical Sciences  Engineering
Experimental Investigation into the Effects of Flat Plate Guiding Walls on the Performance of Vertical Axis Wind Turbine	2200	General Engineering	2	Engineering & Technology	-	-	36	Engineering
Introduction and Previous Work	2102  2105  2209  2308	Energy Engineering and Power Technology  Renewable Energy, Sustainability and the Environment  Industrial and Manufacturing Engineering  Management, Monitoring, Policy and Law	3  2	Social Sciences & Management  Engineering & Technology	221  424  249  222	Engineering - Electrical & Electronic  Environmental Sciences  Engineering - Petroleum  Engineering - Mechanical	36  37	Engineering  Physical Sciences
A Simplified Non-Linear Active Disturbance Rejection Control for Electric Traction Drives	2207  2208	Control and Systems Engineering  Electrical and Electronic Engineering	2	Engineering & Technology	221  249  212	Engineering - Electrical & Electronic  Engineering - Petroleum  Computer Science & Information Systems	36	Engineering

Title	ANZSRC FoR (2020) parent code	ANZSRC FoR (2020) parent name	ANZSRC FoR (2020) code	ANZSRC FoR (2020) name	Sustainable Development Goals (2025)
Hydrogen production, storage, utilisation and environmental impacts: a review	34   41   31	Chemical Sciences   Environmental Sciences   Biological Sciences	-	-	SDG 7   SDG 9   SDG 12   SDG 13
Conversion of biomass to biofuels and life cycle assessment: a review	31   41   34	Biological Sciences   Environmental Sciences   Chemical Sciences	-	-	SDG 7   SDG 9   SDG 12   SDG 13
Biochar for agronomy, animal farming, anaerobic digestion, composting, water treatment, soil remediation, construction, energy storage, and carbon sequestration: a review	34   41   31	Chemical Sciences   Environmental Sciences   Biological Sciences	-	-	SDG 6   SDG 7   SDG 8   SDG 12   SDG 13
Methods to prepare biosorbents and magnetic sorbents for water treatment: a review	31   41   34	Biological Sciences   Environmental Sciences   Chemical Sciences	-	-	SDG 6   SDG 7   SDG 12   SDG 14
Membrane Technology for Energy Saving: Principles, Techniques, Applications, Challenges, and Prospects	-	-	-	-	SDG 6   SDG 7   SDG 9   SDG 12
Materials, fuels, upgrading, economy, and life cycle assessment of the pyrolysis of algal and lignocellulosic biomass: a review	31   41   34	Biological Sciences   Environmental Sciences   Chemical Sciences	-	-	SDG 7   SDG 8   SDG 9   SDG 12   SDG 13
Optimizing biomass pathways to bioenergy and biochar application in electricity generation, biodiesel production, and biohydrogen production	41   34   31	Environmental Sciences   Chemical Sciences   Biological Sciences	-	-	SDG 7   SDG 8   SDG 9   SDG 11   SDG 12   SDG 13
An Optimized Hybrid Fractional Order Controller for Frequency Regulation in Multi-Area Power Systems	46   40	Information And Computing Sciences   Engineering	-	-	SDG 7
Thermochemical conversion strategies of biomass to biofuels, techno-economic and bibliometric analysis: A conceptual review	40   34	Engineering   Chemical Sciences	3406   4011   4004	Physical chemistry   Environmental engineering   Chemical engineering	SDG 7   SDG 8
Biofuel production, hydrogen production and water remediation by photocatalysis,	41   34   31	Environmental Sciences   Chemical Sciences   Biological Sciences	-	-	SDG 6   SDG 7

biocatalysis and electrocatalysis					
Design and fabrication of Fe <sub>2</sub> O <sub>3</sub> /FeP heterostructure for oxygen evolution reaction electrocatalysis	51   40	Physical Sciences   Engineering	5104   4016	Condensed matter physics   Materials engineering	SDG 7
Recent Advances in Biomass Pyrolysis Processes for Bioenergy Production: Optimization of Operating Conditions	MD	Multidisciplinary	MD	Multidisciplinary	SDG 7   SDG 13
An Adaptive D-FACTS for Power Quality Enhancement in an Isolated Microgrid	46   40	Information And Computing Sciences   Engineering	-	-	SDG 7
Optimum Modified Fractional Order Controller for Future Electric Vehicles and Renewable Energy-Based Interconnected Power Systems	46   40	Information And Computing Sciences   Engineering	-	-	SDG 7   SDG 13
Recent advances in greenly synthesized nanoengineered materials for water/wastewater remediation: an overview	40   34	Engineering   Chemical Sciences	3499   4004   4005	Other chemical sciences   Chemical engineering   Civil engineering	SDG 3   SDG 6   SDG 7   SDG 8   SDG 9
Synthesis and potential applications of cyclodextrin-based metal-organic frameworks: a review	31   34   41	Biological Sciences   Chemical Sciences   Environmental Sciences	-	-	SDG 7
Review on energy storage systems in microgrids	40	Engineering	4006   4009   4008	Communications engineering   Electronics, sensors and digital hardware   Electrical engineering	SDG 7
Biomass-to-sustainable biohydrogen: Insights into the production routes, and technical challenges	-	-	-	-	SDG 7   SDG 12   SDG 13
A novel metaheuristic MPPT technique based on enhanced autonomous group Particle Swarm Optimization Algorithm to track the GMPP under partial shading conditions - Experimental validation	40	Engineering	4017   4004   4008	Mechanical engineering   Chemical engineering   Electrical engineering	SDG 7
Comprehensive investigation of Opto-electronic and transport properties of Cs <sub>2</sub> ScAgX <sub>6</sub> (X = Cl, Br, I) for solar cells and thermoelectric applications	33   40	Built Environment And Design   Engineering	-	-	SDG 7
Sustainable management of food waste; pre-treatment strategies, techno-economic assessment, bibliometric analysis, and potential utilizations: A systematic review	34   31   41	Chemical Sciences   Biological Sciences   Environmental Sciences	-	-	SDG 7   SDG 9   SDG 12

Emerging 2D-Nanostructured materials for electrochemical and sensing Application-A review	40   34	Engineering   Chemical Sciences	-	-	SDG 7
Experimental and simulation study of multichannel air gap membrane distillation process with two types of solar collectors	40	Engineering	4004   4017   4008	Chemical engineering   Mechanical engineering   Electrical engineering	SDG 6   SDG 7   SDG 13
Performance evaluation of single multi-junction solar cell for high concentrator photovoltaics using minichannel heat sink with nanofluids	40	Engineering	4012   4017	Fluid mechanics and thermal engineering   Mechanical engineering	SDG 7
Enhanced electrochemical activity of Co3O4/Co9S8 heterostructure catalyst for water splitting	34   40	Chemical Sciences   Engineering	-	-	SDG 7
Assessment of floating photovoltaic productivity with fins-assisted passive cooling	33   38   40	Built Environment And Design   Economics   Engineering	-	-	SDG 7
Simulation and experimental performance analysis of partially floating PV system in windy conditions	40   33	Engineering   Built Environment And Design	-	-	SDG 7   SDG 13
A novel concentrated photovoltaic-driven membrane distillation hybrid system for the simultaneous production of electricity and potable water	40	Engineering	-	-	SDG 6   SDG 7
Synthesis, characterization and DFT molecular modeling of doped poly (para-nitroaniline-co-para-toluidine) thin film for optoelectronic devices applications	51	Physical Sciences	5104   5102	Condensed matter physics   Atomic, molecular and optical physics	SDG 7
Extraction of maximum power from PV system based on horse herd optimization MPPT technique under various weather conditions	40	Engineering	-	-	SDG 7
Thermo-electrical performance assessment of a partially submerged floating photovoltaic system	40	Engineering	4017   4008   4012	Mechanical engineering   Electrical engineering   Fluid mechanics and thermal engineering	SDG 7
Efficient fractional-order modified Harris hawks optimizer for proton exchange membrane fuel cell modeling	40   46	Engineering   Information And Computing Sciences	-	-	SDG 7

Performance enhancement of a hybrid multi effect evaporation/membrane distillation system driven by solar energy for desalination	34   40	Chemical Sciences   Engineering	4011   4004   3406	Environmental engineering   Chemical engineering   Physical chemistry	SDG 6   SDG 7   SDG 13
Doped poly (o-phenylenediamine-co- p-toluidine) fibers for polymer solar cells applications	40   33	Engineering   Built Environment And Design	-	-	SDG 7
Design and performance a novel hybrid membrane distillation/humidification-dehumidification system	40	Engineering	4004   4008   4017	Chemical engineering   Electrical engineering   Mechanical engineering	SDG 6   SDG 7   SDG 9
Performance enhancement of flat-plate and parabolic trough solar collector using nanofluid for water heating application	40	Engineering	-	-	SDG 7   SDG 13
Tuning cationic/anionic dyes sorption from aqueous solution onto green algal biomass for biohydrogen production	41   31   34	Environmental Sciences   Biological Sciences   Chemical Sciences	-	-	SDG 6   SDG 7   SDG 9   SDG 12
Performance enhancement of concentrator photovoltaic systems using nanofluids	40	Engineering	4008	Electrical engineering	SDG 7
Synthesis and characterization of Co-Al mixed oxide nanoparticles via thermal decomposition route of layered double hydroxide	34	Chemical Sciences	3402	Inorganic chemistry	SDG 7
Hydrogen production from wastewater, storage, economy, governance and applications: a review	31   41   34	Biological Sciences   Environmental Sciences   Chemical Sciences	-	-	SDG 6   SDG 7   SDG 8   SDG 9   SDG 13
An energy-economic analysis of a hybrid PV/wind/battery energy-driven hydrogen generation system in rural regions of Egypt	40	Engineering	-	-	SDG 7   SDG 13
Performance and potential of a novel floating photovoltaic system in Egyptian winter climate on calm water surface	34   40	Chemical Sciences   Engineering	-	-	SDG 7   SDG 13
A technical and economic evaluation of floating photovoltaic systems in the context of the water-energy nexus	40	Engineering	4008   4017   4012	Electrical engineering   Mechanical engineering   Fluid mechanics and thermal engineering	SDG 6   SDG 7   SDG 13
Advanced process integration for supercritical production of biodiesel: Residual waste heat recovery via organic Rankine cycle (ORC)	40	Engineering	-	-	SDG 7

Polymer solar cell based on doped o-anthranilic acid and o-aminophenol copolymer	51	Physical Sciences	5102  5104	Atomic, molecular and optical physics   Condensed matter physics	SDG 7
Performance estimation of a mini-passive solar still via machine learning	40	Engineering	-	-	SDG 6  SDG 7
An innovative cooling technique for floating photovoltaic module: Adoption of partially submerged angle fins	40	Engineering	4004  4008  4012	Chemical engineering   Electrical engineering   Fluid mechanics and thermal engineering	SDG 7
One-pot conversion of highly acidic waste cooking oil into biodiesel over a novel bio-based bi-functional catalyst	40	Engineering	4004  4019  4012	Chemical engineering   Resources engineering and extractive metallurgy   Fluid mechanics and thermal engineering	SDG 7
Power management strategy based on adaptive neuro fuzzy inference system for AC microgrid	46  40	Information And Computing Sciences   Engineering	-	-	SDG 7
Design and characterization of a vertical-axis micro tidal turbine for low velocity scenarios	40	Engineering	4004  4008  4017	Chemical engineering   Electrical engineering   Mechanical engineering	SDG 7  SDG 9
Catalytic fast pyrolysis of lignocellulosic biomass: Recent advances and comprehensive overview	40	Engineering	4004	Chemical engineering	SDG 7  SDG 9  SDG 12
Theoretical investigation of the temperature limits of an actively cooled high concentration photovoltaic system	33  40  51	Built Environment And Design   Engineering   Physical Sciences	-	-	SDG 7
Dual valorization of coastal biowastes for tetracycline remediation and biomethane production: A composite assisted anaerobic digestion	41  40  34	Environmental Sciences   Engineering   Chemical Sciences	-	-	SDG 7  SDG 12  SDG 14
Effectiveness of some novel heterocyclic compounds as corrosion inhibitors for carbon steel in 1 M HCl using practical and theoretical methods	34	Chemical Sciences	-	-	SDG 7
Coyote optimization based on a fuzzy logic algorithm for energy-efficiency in wireless sensor networks	46  40	Information And Computing Sciences   Engineering	-	-	SDG 7
Toward a national life cycle assessment tool: Generative design for early decision support	33  40	Built Environment And Design   Engineering	-	-	SDG 7  SDG 9  SDG 12
Integration of active solar cooling technology into passively designed facade in hot climates	33  40	Built Environment And Design   Engineering	3302  4005	Building   Civil engineering	SDG 7  SDG 12



Thermal regulation of partially floating photovoltaics for enhanced electricity production: A modeling and experimental analysis	33   40	Built Environment And Design   Engineering	3302   4008   4004	Building   Electrical engineering   Chemical engineering	SDG 7
Experimental performance analysis of enhanced concentrated photovoltaic utilizing various mass flow rates of Al <sub>2</sub> O <sub>3</sub> -nanofluid: Energy, exergy, and exergoeconomic study	33   40	Built Environment And Design   Engineering	4008   3302   4004	Electrical engineering   Building   Chemical engineering	SDG 7
Facile synthesis of spin-coated poly (4-nitroaniline) thin film: Structural and optical properties	51	Physical Sciences	5104   5102	Condensed matter physics   Atomic, molecular and optical physics	SDG 7
Exploring the potential of sheep wool as an eco-friendly insulation material: A comprehensive review and analytical ranking	40   34	Engineering   Chemical Sciences	3403   4016	Macromolecular and materials chemistry   Materials engineering	SDG 7   SDG 12   SDG 13
Green hydrogen production ensemble forecasting based on hybrid dynamic optimization algorithm	40	Engineering	4012	Fluid mechanics and thermal engineering	SDG 7
Performance evaluation of a novel self-tuning particle swarm optimization algorithm-based maximum power point tracker for porton exchange membrane fuel cells under different operating conditions	40	Engineering	4008   4017   4004	Electrical engineering   Mechanical engineering   Chemical engineering	SDG 7
Conceptual design and numerical analysis of a novel floating desalination plant powered by marine renewable energy for Egypt	37   30   40	Earth Sciences   Agricultural, Veterinary And Food Sciences   Engineering	4015   3005   3709	Maritime engineering   Fisheries sciences   Physical geography and environmental geoscience	SDG 6   SDG 7   SDG 14   SDG 15
Power management and optimized control of hybrid PV-BESS-grid integrated fast EV charging stations	40	Engineering	-	-	SDG 7
Artificial neural network based prediction of ship speed under operating conditions for operational optimization	40	Engineering	4005   4012   4015	Civil engineering   Fluid mechanics and thermal engineering   Maritime engineering	SDG 7
Hydrogen-Rich Syngas and Biochar Production by Non-Catalytic Valorization of Date Palm Seeds	33   40   51	Built Environment And Design   Engineering   Physical Sciences	-	-	SDG 7
Systematic study of optoelectronic and thermoelectric properties of new lead-free halide double perovskites A <sub>2</sub> KGa <sub>6</sub> (A = Cs, Rb) for	34   40   51	Chemical Sciences   Engineering   Physical Sciences	-	-	SDG 7

solar cell applications via ab-initio calculations					
Prediction and assessment of automated lifting system performance for multi-storey parking lots powered by solar energy	40   33	Engineering   Built Environment And Design	-	-	SDG 7
Modelling the impact of lining and covering irrigation canals on underlying groundwater stores in the Nile Delta, Egypt	37   40	Earth Sciences   Engineering	3707   4005   3709	Hydrology   Civil engineering   Physical geography and environmental geoscience	SDG 6   SDG 7   SDG 13
Water Desalination Using Solar Thermal Collectors Enhanced by Nanofluids	40	Engineering	4004   4017	Chemical engineering   Mechanical engineering	SDG 6   SDG 7
A Comparative Review on Single Phase Transformerless Inverter Topologies for Grid-Connected Photovoltaic Systems	33   51   40	Built Environment And Design   Physical Sciences   Engineering	-	-	SDG 7
Synthesis, characterization, and photosensitizer applications for dye-based on ZrO <sub>2</sub> - acriflavine nanocomposite thin film [ZrO <sub>2</sub> +ACF]/C	34	Chemical Sciences	3402	Inorganic chemistry	SDG 7
Evaluation of Storage Stability for Biocrude Derived from Hydrothermal Liquefaction of Microalgae	40	Engineering	4004   4019	Chemical engineering   Resources engineering and extractive metallurgy	SDG 7
Experimental study of simultaneous effect of evacuated tube collectors coupled with parabolic reflectors on traditional single slope solar still efficiency	40	Engineering	4012	Fluid mechanics and thermal engineering	SDG 6   SDG 7
Single-stage waste oil conversion into biodiesel via sonication over bio-based bifunctional catalyst: Optimization, preliminary techno-economic and environmental analysis	40	Engineering	4019   4004   4012	Resources engineering and extractive metallurgy   Chemical engineering   Fluid mechanics and thermal engineering	SDG 7   SDG 13
Retrofit of heat exchanger networks by graphical Pinch Analysis - A case study of a crude oil refinery in Kuwait	40	Engineering	4012	Fluid mechanics and thermal engineering	SDG 7   SDG 9
Energy and exergy analyses of new cooling schemes based on a serpentine configuration for a high concentrator photovoltaic system	40	Engineering	4012   4017	Fluid mechanics and thermal engineering   Mechanical engineering	SDG 7

Response Surface Optimisation of Vertical Axis Wind Turbine at low wind speeds	40	Engineering	4012  4004  4008	Fluid mechanics and thermal engineering  Chemical engineering  Electrical engineering	SDG 7
Numerical hydrodynamics-based design of an offshore platform to support a desalination plant and a wind turbine in Egypt	40	Engineering	4015  4012  4005	Maritime engineering  Fluid mechanics and thermal engineering  Civil engineering	SDG 6  SDG 7
Performance analysis of reinforced epoxy functionalized carbon nanotubes composites for vertical axis wind turbine blade	40  34	Engineering  Chemical Sciences	-	-	SDG 7
Techno-economic multi-objective reactive power planning in integrated wind power system with improving voltage stability	40	Engineering	4008	Electrical engineering	SDG 7
Numerical investigation of the indoor thermal behaviour based on PCMs in a hot climate	33	Built Environment And Design	3301  3303	Architecture  Design	SDG 4  SDG 7
Recycling of catering waste for sequential production of biohydrogen and biomethane; pre-treatments, batch, and continuous mode studies	34  40	Chemical Sciences  Engineering	3406  4011  4004	Physical chemistry  Environmental engineering  Chemical engineering	SDG 7
Photodeposition Conditions of Silver Cocatalyst on Titanium Oxide Photocatalyst Directing Product Selectivity in Photocatalytic Reduction of Carbon Dioxide with Water	34	Chemical Sciences	3402  3406	Inorganic chemistry  Physical chemistry	SDG 7  SDG 13
Combined experimental and TDDFT computations for the structural and optical properties for poly (ortho phenylene diamine) thin film with different surfactants	40  51	Engineering  Physical Sciences	4016  5104	Materials engineering  Condensed matter physics	SDG 7
Conducting polymer thin film for optoelectronic devices applications	40  34	Engineering  Chemical Sciences	3403  4016	Macromolecular and materials chemistry  Materials engineering	SDG 7
Optoelectronic and photocatalytic properties of GaN, GeS and SiS monolayers and their vdW heterostructures	51  34	Physical Sciences  Chemical Sciences	3403  3402  5104	Macromolecular and materials chemistry  Inorganic chemistry  Condensed matter physics	SDG 7
Improvement of the thermal stability and optical properties for poly (ortho phenylene diamine) using soft templates	34	Chemical Sciences	3402	Inorganic chemistry	SDG 7
Physical properties of KTaO3 compound for optoelectronic and	51  40	Physical Sciences  Engineering	5104  4018  4016	Condensed matter physics  Nanotechnology  Materials engineering	SDG 7

thermoelectric applications: A DFT study					
Optimal parameters identification for PEMFC using autonomous groups particle swarm optimization algorithm	34  40	Chemical Sciences  Engineering	-	-	SDG 7
Polypyrrole/functionalized multi-walled carbon nanotube composite for optoelectronic device application	34	Chemical Sciences	-	-	SDG 7
Physical characteristics of barium based cubic perovskites	51  34	Physical Sciences  Chemical Sciences	-	-	SDG 7
One-dimensional ternary conducting polymers blend with 9.26% power conversion efficiency for photovoltaic devices applications	40	Engineering	-	-	SDG 7
Experimental and numerical simulation of solar membrane distillation and humidification – dehumidification water desalination system	40	Engineering	-	-	SDG 6  SDG 7  SDG 13
Yield and energy outputs analysis of sawdust biomass pyrolysis	40	Engineering	4008  4012  4004	Electrical engineering  Fluid mechanics and thermal engineering  Chemical engineering	SDG 7  SDG 13
Dragonfly-Based Joint Delay/Energy LTE Downlink Scheduling Algorithm	40  46	Engineering  Information And Computing Sciences	-	-	SDG 7
Experimental and multiphase modeling of small vertical-axis hydrokinetic turbine with free-surface variations	40	Engineering	-	-	SDG 7
A renewable lignin-derived bio-oil for boosting the oxidation stability of biodiesel	40	Engineering	-	-	SDG 7
Comparison of the Computational Fluid Dynamics Predictions of Vertical Axis Wind Turbine Performance Against Detailed Pressure Measurements	40	Engineering	4011  4008	Environmental engineering  Electrical engineering	SDG 7
Physical structure, TD-DFT computations, and optical properties of hybrid nanocomposite thin film as optoelectronic devices	34  40	Chemical Sciences  Engineering	-	-	SDG 7
Aqueous Phase from Hydrothermal Liquefaction: Composition and Toxicity Assessment	MD	Multidisciplinary	MD	Multidisciplinary	SDG 6  SDG 7  SDG 9  SDG 12
Fabrication, characterization, TD-DFT, optical and electrical	40  34	Engineering  Chemical Sciences	-	-	SDG 7

properties of poly (aniline-co-para nitroaniline)/ZrO2 composite for solar cell applications					
Nickel Oxide Nanoparticles Application for Enhancing Biogas Production Using Certain Wastewater Bacteria and Aquatic Macrophytes Biomass	40	Engineering	4004  4011	Chemical engineering  Environmental engineering	SDG 6  SDG 7  SDG 11
Relevance of monocrystalline and thin-film technologies in implementing efficient grid-connected photovoltaic systems in historic buildings in Port Fouad city, Egypt	40	Engineering	-	-	SDG 7  SDG 11
Evolution of ion-acoustic soliton waves in Venus's ionosphere permeated by the solar wind	51	Physical Sciences	5101  5109	Astronomical sciences  Space sciences	SDG 7
Conceptual design of a novel partially floating photovoltaic integrated with smart energy storage and management system for Egyptian North Lakes	40	Engineering	4015  4012  4005	Maritime engineering  Fluid mechanics and thermal engineering  Civil engineering	SDG 7
Model-assisted active disturbance rejection controller for maximum efficiency schemes of DFIG-based wind turbines	40  46	Engineering  Information And Computing Sciences	4602  4008  4009	Artificial intelligence  Electrical engineering  Electronics, sensors and digital hardware	SDG 7
A Recommendation System for Electric Vehicles Users Based on Restricted Boltzmann Machine and WaterWheel Plant Algorithms	46  40	Information And Computing Sciences  Engineering	-	-	SDG 7
Experimental investigation of two novel arrangements of air gap membrane distillation module with heat recovery	40	Engineering	4012  4004  4008	Fluid mechanics and thermal engineering  Chemical engineering  Electrical engineering	SDG 6  SDG 7
A Comparative Study of MPPT for PV System Based on Modified Perturbation Observation Method	51  46  40	Physical Sciences  Information And Computing Sciences  Engineering	5199  4008  4604	Other physical sciences  Electrical engineering  Cybersecurity and privacy	SDG 7
Optical constants of ternary Cux(Ge30Se70)100-x thin films for solar cell applications	51	Physical Sciences	5102  5104	Atomic, molecular and optical physics  Condensed matter physics	SDG 7
Enviro-economic and optimal hybrid energy system: Photovoltaic-biogas-hydro-battery system in rural areas of Pakistan	MD	Multidisciplinary	MD	Multidisciplinary	SDG 7  SDG 8  SDG 13
Toward Enhancing the Energy Efficiency and Minimizing the SLA	46  40  49	Information And Computing Sciences  Engineering  Mathematical Sciences	-	-	SDG 7

Violations in Cloud Data Centers					
Development and implementation of two-stage boost converter for single-phase inverter without transformer for PV systems	40   46	Engineering   Information And Computing Sciences	-	-	SDG 7
Synthesis, characterization, DFT-TDDFT calculations and optical properties of a novel pyrazole-1,2,3-triazole hybrid thin film	51	Physical Sciences	5108   5102	Quantum physics   Atomic, molecular and optical physics	SDG 7
Heuristic Approach for Net-Zero Energy Residential Buildings in Arid Region Using Dual Renewable Energy Sources	33   40	Built Environment And Design   Engineering	3301   3302   4005	Architecture   Building   Civil engineering	SDG 7   SDG 12
Correction to: Hydrogen production, storage, utilisation and environmental impacts: a review (Environmental Chemistry Letters, (2022), 20, 1, (153-188), 10.1007/s10311-021-01322-8)	41   31   34	Environmental Sciences   Biological Sciences   Chemical Sciences	-	-	SDG 7   SDG 9   SDG 12
Enhancing Healing Environment and Sustainable Finishing Materials in Healthcare Buildings	40   33	Engineering   Built Environment And Design	4005   3302   3301	Civil engineering   Building   Architecture	SDG 7   SDG 12
Aspen Plus simulation of a low capacity organic Rankine cycle heated by solar energy	40	Engineering	4004   4008   4012	Chemical engineering   Electrical engineering   Fluid mechanics and thermal engineering	SDG 7
New analytical assessment for fast and complete pre-fault restoration of grid-connected FSWTs with fuzzy-logic pitch-angle controller	40   46	Engineering   Information And Computing Sciences	4008   4601   4009	Electrical engineering   Applied computing   Electronics, sensors and digital hardware	SDG 7
Ionospheric losses of Venus in the solar wind	51	Physical Sciences	5101   5109	Astronomical sciences   Space sciences	SDG 7
Multi-functional core-shell pomegranate peel amended alginate beads for phenol decontamination and bio-hydrogen production: Synthesis, characterization, and kinetics investigation	31   40	Biological Sciences   Engineering	4004   3106	Chemical engineering   Industrial biotechnology	SDG 3   SDG 6   SDG 7
Effect of using an infrared filter on the performance of a silicon solar cell for an ultra-high concentrator photovoltaic system	40   34   51	Engineering   Chemical Sciences   Physical Sciences	-	-	SDG 7
Trajectory optimization for UAV-assisted relay over 5G	40   46	Engineering   Information And Computing Sciences	4006   4606	Communications engineering   Distributed computing and systems software	SDG 4   SDG 7

networks based on reinforcement learning framework					
A fast-tracking MPPT-based modified coot optimization algorithm for PV systems under partial shading conditions	40	Engineering	-	-	SDG 7
Sustainable Building Optimization Model for Early-Stage Design	40   33	Engineering   Built Environment And Design	4005   3301   3302	Civil engineering   Architecture   Building	SDG 7   SDG 12   SDG 13
Potential application of solar still desalination in NEOM region	37   40   41	Earth Sciences   Engineering   Environmental Sciences	4004   3707   4105	Chemical engineering   Hydrology   Pollution and contamination	SDG 6   SDG 7   SDG 11
Implementation of boolean PSO for service restoration using distribution network reconfiguration simultaneously with distributed energy resources and capacitor banks	40	Engineering	4011   4008	Environmental engineering   Electrical engineering	SDG 7
Energetic, environmental and economic (3E) analysis of a CSA algorithm optimized floatovoltaic system integrated with heat sink: Modeling with experimental validation	49   40	Mathematical Sciences   Engineering	4901   4017   4005	Applied mathematics   Mechanical engineering   Civil engineering	SDG 7
Experimental analysis and numerical simulation of biomass pyrolysis	34	Chemical Sciences	3406	Physical chemistry	SDG 7   SDG 13
The potential of optimized floating photovoltaic system for energy production in the Northern Lakes of Egypt	49   40	Mathematical Sciences   Engineering	4017   4901   4005	Mechanical engineering   Applied mathematics   Civil engineering	SDG 7
Combined experimental and theoretical study, characterization, and nonlinear optical properties of doped-poly (p-nitroaniline-co-o-aminophenol) thin films	34	Chemical Sciences	3402	Inorganic chemistry	SDG 7
An examination of hub wind turbine utilizing fluid-structure interaction strategy	40	Engineering	-	-	SDG 7
Facile synthesis of single-crystal of o-phenylene diamine dihydrochloride as a polychloride and fabrication of high-performance semiconductor thin film	51	Physical Sciences	5104   5102	Condensed matter physics   Atomic, molecular and optical physics	SDG 7
Green retrofitting of heritage buildings based on (3Ts) framework: An applied case study	33	Built Environment And Design	3302   3301	Building   Architecture	SDG 7   SDG 11   SDG 16

Experimental validation of a low-cost maximum power point tracking technique based on artificial neural network for photovoltaic systems	MD	Multidisciplinary	MD	Multidisciplinary	SDG 7
Comprehensive Review of Renewable Energy Communication Modeling for Smart Systems	33   51   40	Built Environment And Design   Physical Sciences   Engineering	-	-	SDG 7
Innovative metaheuristic algorithm with comparative analysis of MPPT for 5.5 kW floating photovoltaic system	40	Engineering	4004   4011	Chemical engineering   Environmental engineering	SDG 7   SDG 13
Acid-hydrolysed furfural production from rice straw bio-waste: Process synthesis, simulation, and optimisation	40	Engineering	4004	Chemical engineering	SDG 7   SDG 8   SDG 13
Holistic design of energy-efficient temporary houses: Meeting ventilation, heating, cooling, and lighting demands	33   40	Built Environment And Design   Engineering	3302   4005	Building   Civil engineering	SDG 7
Electrical and thermoelectrical properties of Bi <sub>2</sub> -xNaxTe <sub>3</sub> alloys	40   51	Engineering   Physical Sciences	5104   4016	Condensed matter physics   Materials engineering	SDG 7
Solar Chimney Performance Driven Air Ventilation Promotion: An Investigation of Various Configuration Parameters	33   40	Built Environment And Design   Engineering	3301   4005   3302	Architecture   Civil engineering   Building	SDG 3   SDG 7   SDG 8   SDG 13
A Novel Circuit Configuration for the Integration of Modular Multilevel Converter With Large-Scale Grid-Connected PV Systems	40	Engineering	4008	Electrical engineering	SDG 7
High-performance 2D/3D hybrid dimensional p-n heterojunction solar cell with reduced recombination rate by an interfacial layer	34   40	Chemical Sciences   Engineering	3406   4016   3403	Physical chemistry   Materials engineering   Macromolecular and materials chemistry	SDG 7
A Novel Model Predictive Speed Controller for PMSG in Wind Energy Systems	40	Engineering	4008   4011	Electrical engineering   Environmental engineering	SDG 7
New Analysis Framework of Lyapunov-Based Stability for Hybrid Wind Farm Equipped with FRT: A Case Study of Egyptian Grid Code	46   40	Information And Computing Sciences   Engineering	-	-	SDG 7   SDG 14
Electrical, dielectric, I-V and antimicrobial behavior of cobalt incapacitated Prussian blue graphene ferrites composite	34	Chemical Sciences	3402	Inorganic chemistry	SDG 7



Optical losses and durability of flawed Fresnel lenses for concentrated photovoltaic application	40   34   51	Engineering   Chemical Sciences   Physical Sciences	-	-	SDG 7
Thermal annealing effect on the structural and optical characteristics of silicon phthalocyanine dichloride thin films	51	Physical Sciences	5102   5108	Atomic, molecular and optical physics   Quantum physics	SDG 7
A retrofitting framework for improving curtain wall performance by the integration of adaptive technologies	33   40	Built Environment And Design   Engineering	4005   3302	Civil engineering   Building	SDG 7
Optical component analysis for ultrahigh concentrated photovoltaic system (UHCPV)	33   40	Built Environment And Design   Engineering	-	-	SDG 7
Highly Efficient MPP Tracker Based on Adaptive Neuro-fuzzy Inference System for Stand-Alone Photovoltaic Generator System	40	Engineering	4008   4011	Electrical engineering   Environmental engineering	SDG 7
Internal Power Balancing of an MMC-Based Large-Scale PV System Under Unbalanced Voltage Sags	40	Engineering	4008   4009	Electrical engineering   Electronics, sensors and digital hardware	SDG 7
Effect of (SbS) addition on the physical properties of quaternary (CdTe) <sub>100-x</sub> (SbS) <sub>x</sub> ( $0 \leq x \leq 28$ at. %) glasses and band gap engineering	51   40	Physical Sciences   Engineering	4016   5102   5104	Materials engineering   Atomic, molecular and optical physics   Condensed matter physics	SDG 7
Effects of turbulence modelling on the predictions of the pressure distribution around the wing of a small scale vertical axis wind turbine	40   49	Engineering   Mathematical Sciences	4012   4901   4005	Fluid mechanics and thermal engineering   Applied mathematics   Civil engineering	SDG 7
Alloyed Ag <sub>2</sub> SexS <sub>1-x</sub> quantum dots with red to NIR shift: The band gap tuning with dopant content for energy harvesting applications	51	Physical Sciences	5104   5102	Condensed matter physics   Atomic, molecular and optical physics	SDG 7
A reduced vector model predictive controller for a three-level neutral point clamped inverter with common-mode voltage suppression	MD	Multidisciplinary	MD	Multidisciplinary	SDG 7
Hybrid Floating Power Station driven by Renewable Energy for Saudi Arabia Coastal Areas	40   51	Engineering   Physical Sciences	4008   5199   4009	Electrical engineering   Other physical sciences   Electronics, sensors and digital hardware	SDG 7   SDG 13   SDG 14
Recent Advances in Floating Photovoltaic Systems	34	Chemical Sciences	-	-	SDG 7
Fabrication, carrier transport mechanisms and	51	Physical Sciences	5108   5102	Quantum physics   Atomic, molecular and optical physics	SDG 7

photovoltaic properties of Au/silicon phthalocyanine dichloride/p-Si/Al heterojunction device					
Physical properties and DFT calculations of the hybrid organic polymeric nanocomposite thin film [P(An+o-Aph)+Glycine/TiO <sub>2</sub> /JHNC with 7.42% power conversion efficiency	34	Chemical Sciences	3402	Inorganic chemistry	SDG 7
Simulation of glass fiber reinforced polypropylene nanocomposites for small wind turbine blades	40	Engineering	4004	Chemical engineering	SDG 7  SDG 9
Fabrication, characterization and optical properties of poly(p-phenylenediamine-co-o-aminophenol) nanostructure thin film	40  51	Engineering  Physical Sciences	4016  5102  5104	Materials engineering  Atomic, molecular and optical physics  Condensed matter physics	SDG 7
Performance Enhancement of Solar Still Unit Using v-Corrugated Basin, Internal Reflecting Mirror, Flat-Plate Solar Collector and Nanofluids	MD	Multidisciplinary	MD	Multidisciplinary	SDG 7
Surface modification of Co <sub>3</sub> O <sub>4</sub> nanostructures using wide range of natural compounds from rotten apple juice for the efficient oxygen evolution reaction	34  40	Chemical Sciences  Engineering	-	-	SDG 7
Experimental study on the motion response of an integrated floating desalination plant and offshore wind turbine on a non-ship platform	40	Engineering	4005  4012  4015	Civil engineering  Fluid mechanics and thermal engineering  Maritime engineering	SDG 6  SDG 7  SDG 14  SDG 15
Wind-water experimental analysis of small sc-darrieus turbine: An approach for energy production in urban systems	MD	Multidisciplinary	MD	Multidisciplinary	SDG 7  SDG 11
From seashells to sustainable energy: Trailblazing the utilization of Anadara uropigmelana shells for sustainable biohydrogen production from leftover cooking oil	40  34	Engineering  Chemical Sciences	3406  4004  4011	Physical chemistry  Chemical engineering  Environmental engineering	SDG 7  SDG 12  SDG 13
A demand side response scheme for enhancing power system security in the presence of wind power	46  40	Information And Computing Sciences  Engineering	4009  4601  4008	Electronics, sensors and digital hardware  Applied computing  Electrical engineering	SDG 7
A study of 2H and 1T phases of Janus monolayers and their van der Waals heterostructure with black phosphorene	34	Chemical Sciences	3402  3403	Inorganic chemistry  Macromolecular and materials chemistry	SDG 7

for optoelectronic and thermoelectric applications					
Fabrication and characterization of polypyrrole/multi-walled carbon nanotubes thin films using thermal evaporation	40   34	Engineering   Chemical Sciences	-	-	SDG 7
Optoelectronic and photo response performance of n-tris phenylpyridinato iridium/p-Si heterojunction device for photovoltaic applications	51   49	Physical Sciences   Mathematical Sciences	-	-	SDG 7
Study the Effect of Winglet Height Length on the Aerodynamic Performance of Horizontal Axis Wind Turbines Using Computational Investigation	33   40   51	Built Environment And Design   Engineering   Physical Sciences	-	-	SDG 7
Maximum Power Extraction from Polymer Electrolyte Membrane (PEM) Fuel Cell Based on Deterministic Particle Swarm Optimization Algorithm	-	-	-	-	SDG 7
Design and synthesis of high-performance polymer blend solar cell	40	Engineering	-	-	SDG 7
A simulation study of the effect of post-combustion amine-based carbon-capturing integrated with solar thermal collectors for combined cycle gas power plant	-	-	-	-	SDG 7   SDG 13
Synthesis, structural and optical characterizations of ZrO <sub>2</sub> -bromothymol blue nanocomposite thin-film [ZrO <sub>2</sub> +BTB]C and its application: experimental and TDD-DFT computations	40   51	Engineering   Physical Sciences	4016   5104	Materials engineering   Condensed matter physics	SDG 7
Two Bio-inspired MPPT Algorithms to Harvest the Maximum Power from Partially Shaded PV Arrays	-	-	-	-	SDG 7
Forecasting wind power based on an improved al-Biruni Earth radius metaheuristic optimization algorithm	40	Engineering	4012	Fluid mechanics and thermal engineering	SDG 7
Forecasting Methods in Various Applications Using Algorithm of Estimation Regression Models and Converting Data Sets into Markov Model	49   46	Mathematical Sciences   Information And Computing Sciences	-	-	SDG 6   SDG 7

Waste Cooking Oil Management in Egypt: Production of Biodiesel-Development of Rapid Test Method	51	Physical Sciences	-	-	SDG 7  SDG 12
Experimental investigation of a nano coating efficiency for dust mitigation on photovoltaic panels in harsh climatic conditions	MD	Multidisciplinary	MD	Multidisciplinary	SDG 7
Enhanced biohydrogen production from thermally hydrolysed pulp and paper sludge via Al <sub>2</sub> O <sub>3</sub> and Fe <sub>3</sub> O <sub>4</sub> nanoparticles	40	Engineering	4004  4019	Chemical engineering  Resources engineering and extractive metallurgy	SDG 7  SDG 9
Probabilistic Assessment of Available Transfer Capability Incorporating Load and Wind Power Uncertainties	40  46	Engineering  Information And Computing Sciences	-	-	SDG 7
Elastic moduli and theoretical estimations of physical properties of Ge <sub>3</sub> Se <sub>7</sub> -As <sub>2</sub> Te <sub>3</sub>	49  51	Mathematical Sciences  Physical Sciences	-	-	SDG 7
Furoseimide drug as a corrosion inhibitor for carbon steel in 1.0 M hydrochloric acid	MD	Multidisciplinary	MD	Multidisciplinary	SDG 7
Combined experimental and TDDFT computational studies of the optical and electrical characteristic of luminol films-doped TiO <sub>2</sub> with 9.027% power conversion efficiency	40  51	Engineering  Physical Sciences	4016  5104	Materials engineering  Condensed matter physics	SDG 7
Improving Power Quality Problems of Isolated MG Based on ANN Under Different Operating Conditions Through PMS and ASSC Integration	40  46	Engineering  Information And Computing Sciences	-	-	SDG 7  SDG 13  SDG 14
Enhancing Misalignment Tolerance Using Naturally Decoupled Identical Dual-Transmitter-Dual-Receiver Coils for Wireless EV Charging System	40	Engineering	4009  4008	Electronics, sensors and digital hardware  Electrical engineering	SDG 7
Effect of the decrease of Pb concentration on the properties of pentaryny mixed-halide perovskites CsPb <sub>8-x</sub> Sn <sub>x</sub> Br <sub>2</sub> and CsPb <sub>8-x</sub> Sn <sub>x</sub> I <sub>2</sub> Br (1≤x≤7) for solar-cell applications: A DFT study	34  51	Chemical Sciences  Physical Sciences	5104  3402  3403	Condensed matter physics  Inorganic chemistry  Macromolecular and materials chemistry	SDG 7
Reliability and temperature limits of the focal spot of a primary optical component for an ultra-high concentrated photovoltaic system	MD	Multidisciplinary	MD	Multidisciplinary	SDG 7

Exploring critical barriers towards the uptake of renewable energy usage in Egypt	40   37	Engineering   Earth Sciences	-	-	SDG 7   SDG 8   SDG 9   SDG 13
Experimental and Numerical Performance Assessment of East-West Bifacial Photovoltaic Floating System in Freshwater Basins	46   40	Information And Computing Sciences   Engineering	-	-	SDG 7
Coupling DFIG-Based Wind Turbines with the Grid under Voltage Imbalance Conditions	MD	Multidisciplinary	MD	Multidisciplinary	SDG 7
Simulating mitigation scenarios for natural and artificial inlets closure through validated morphodynamic models	37   31	Earth Sciences   Biological Sciences	3103   3708	Ecology   Oceanography	SDG 7
A novel renewable energy powered zero liquid discharge scheme for RO desalination applications	40   41	Engineering   Environmental Sciences	4004   4104   4105	Chemical engineering   Environmental management   Pollution and contamination	SDG 6   SDG 7
Graphical analysis and revamping of crude distillation units under variable operational scenarios	41   40	Environmental Sciences   Engineering	4104   4105   4004	Environmental management   Pollution and contamination   Chemical engineering	SDG 7   SDG 9
Technical and economic feasibility of the first wind farm on the coast of Mediterranean Sea	40	Engineering	-	-	SDG 7   SDG 14
Comprehensive Optimisation of Biodiesel Production Conditions via Supercritical Methanolysis of Waste Cooking Oil	51   33   40	Physical Sciences   Built Environment And Design   Engineering	-	-	SDG 7
Impact of indium content on the thermoelectric power, dark conductivity, and photoconductivity of Ge-As-Te thin films	51   40	Physical Sciences   Engineering	5104   5102   4016	Condensed matter physics   Atomic, molecular and optical physics   Materials engineering	SDG 7
A fuzzy-predictive current control with real-time hardware for PEM fuel cell systems	MD	Multidisciplinary	MD	Multidisciplinary	SDG 7
Hybrid compressed air energy storage system and control strategy for a partially floating photovoltaic plant	40	Engineering	4012   4017   4008	Fluid mechanics and thermal engineering   Mechanical engineering   Electrical engineering	SDG 7
Real-time V2G simulator for grid system frequency and voltage regulation with fault ride-through capabilities	40	Engineering	4008	Electrical engineering	SDG 7
Environmentally-driven design of a floating desalination platform (Case study: Reverse osmosis floating)	40	Engineering	4008	Electrical engineering	SDG 6   SDG 7

desalination platform of ras gharib, Egypt)					
Advanced Maximum Adhesion Tracking Strategies in Railway Traction Drives	40	Engineering	4008	Electrical engineering	SDG 7
Offshore wind power integration to support weak grid voltage for industrial loads using VSC-HVDC transmission system	46   40	Information And Computing Sciences   Engineering	-	-	SDG 7
Power performance assessment of vertical-axis tidal turbines using an experimental test rig	40   33   51	Engineering   Built Environment And Design   Physical Sciences	-	-	SDG 7
A Modified Phase Shift Control of the Dual Active Bridge-Based Modular Power Electronic Transformer to Minimize the LVdc Side Voltage Ripples under Unbalanced Load Conditions	46   40	Information And Computing Sciences   Engineering	-	-	SDG 7
Gamma radiation induced variation in structure formation and optical characteristics of evaporated tris [2-phenylpyridinato-C2,N]iridium(III) films prepared by electron beam evaporator in photovoltaic applications	49   51	Mathematical Sciences   Physical Sciences	-	-	SDG 7
The Validation and Implementation of the Second-Order Adaptive Fuzzy Logic Controller of a Double-Fed Induction Generator in an Oscillating Water Column	40	Engineering	4008   4009   4006	Electrical engineering   Electronics, sensors and digital hardware   Communications engineering	SDG 7
Life cycle assessments of biofuel production from beach-cast seaweed by pyrolysis and hydrothermal liquefaction	40	Engineering	4012   4008   4004	Fluid mechanics and thermal engineering   Electrical engineering   Chemical engineering	SDG 7   SDG 9   SDG 12   SDG 13   SDG 14
Tunable electronic and magnetic properties of single layer CdS via Li substitutional doping: A first-principle study	51   34	Physical Sciences   Chemical Sciences	3403   5104   3402	Macromolecular and materials chemistry   Condensed matter physics   Inorganic chemistry	SDG 7
Efficiency of utilizing building information modeling tools for examining smart materials behavior in a hot climate	33   40	Built Environment And Design   Engineering	3302   4005	Building   Civil engineering	SDG 4   SDG 7   SDG 8   SDG 12
Electronic, optical and magnetic characteristics of v doped BeS	51   49	Physical Sciences   Mathematical Sciences	-	-	SDG 7
Numerical Investigations on Latent Heat Storage Unit using Phase Change Material	51	Physical Sciences	-	-	SDG 7

Distortion management of the pulse without and in the presence of Compton scattering in a three level atomic configuration	51   49	Physical Sciences   Mathematical Sciences	4901   5107   5101	Applied mathematics   Particle and high energy physics   Astronomical sciences	SDG 7
High-Performance Glazing for Enhancing Sustainable Environment in Arid Region's Healthcare Projects	40   33	Engineering   Built Environment And Design	3302   4005   3301	Building   Civil engineering   Architecture	SDG 7   SDG 12
Proposed hybrid power system for short route ferries	35   40   48	Commerce, Management, Tourism And Services   Engineering   Law And Legal Studies	4015   4803   3509	Maritime engineering   International and comparative law   Transportation, logistics and supply chains	SDG 7   SDG 8   SDG 11
Maximum Power Point Tracking for Grid-tied PV System Using Adaptive Neuro-Fuzzy Inference System	-	-	-	-	SDG 7
Peridynamic Modelling of Propagation of Cracks in Photovoltaic Panels	40	Engineering	4017   4005   4016	Mechanical engineering   Civil engineering   Materials engineering	SDG 7
A novel EPSO algorithm based on shifted sigmoid function parameters for maximizing the energy yield from photovoltaic arrays: An experimental investigation	40	Engineering	-	-	SDG 7
Enhancement of the performance of wireless sensor networks using the multihop multiantenna power beacon path selection method in intelligent structures	MD	Multidisciplinary	MD	Multidisciplinary	SDG 7
Switching schemes of the bidirectional buck-boost converter for energy storage system	35   40	Commerce, Management, Tourism And Services   Engineering	4009   4002   3509	Electronics, sensors and digital hardware   Automotive engineering   Transportation, logistics and supply chains	SDG 7
Optimal performance of actuator disc models for horizontal-axis turbines	40	Engineering	4012	Fluid mechanics and thermal engineering	SDG 7
Techno-economic assessment of vertical axis wind turbine driven RO desalination with compressed air energy storage for remote communities	40   34	Engineering   Chemical Sciences	-	-	SDG 6   SDG 7
Highly flexible wind turbine blades utilizing corrugated surface hinges	40	Engineering	4016	Materials engineering	SDG 7
Electrical properties of ternary $\text{Cu}_x(\text{Ge}_3\text{Se}_7)_{100-x}$ thin films	51	Physical Sciences	5102   5108	Atomic, molecular and optical physics   Quantum physics	SDG 7
Enhanced biodiesel production with improved oxidation stability by water addition to supercritical methanolysis	40	Engineering	4019   4004	Resources engineering and extractive metallurgy   Chemical engineering	SDG 7
Mechanical properties and band gap estimations of	51	Physical Sciences	5108   5102	Quantum physics   Atomic, molecular and optical physics	SDG 7

stoichiometric GeSe2-As2Se3 glasses					
Forecasting of Short-Term and Long-Term Wind Speed of Ras-Gharib Using Time Series Analysis	40	Engineering	4011 4008	Environmental engineering  Electrical engineering	SDG 7
Synthesis and evaluation of core-shell nanocomposites for the photodegradation of liner alkyl-benzene sulfonate water contaminations	MD	Multidisciplinary	MD	Multidisciplinary	SDG 6  SDG 7
Techno-economic assessment of a novel wind-powered RO system with a compressed air energy storage for water desalination	40	Engineering	4008 4017 4012	Electrical engineering  Mechanical engineering  Fluid mechanics and thermal engineering	SDG 6  SDG 7  SDG 8  SDG 13  SDG 14  SDG 15
Experimental Validation of Second-Order Adaptive Fuzzy Logic Controller for Grid-Connected DFIG Wind Power Plant	46  40	Information And Computing Sciences  Engineering	-	-	SDG 7
Polymeric solar cell with 18.06% efficiency based on poly(para-nitroaniline)/TiO2 composites	51	Physical Sciences	5102 5104	Atomic, molecular and optical physics  Condensed matter physics	SDG 7
Assessment of Onshore Renewable Energy Power Supply for Ship's Emissions Reduction in Port Said West Port	40	Engineering	4015	Maritime engineering	SDG 7  SDG 8  SDG 11  SDG 13  SDG 14
A novel hybrid compact system of photovoltaic solar still air gap membrane distillation for the simultaneous production of water and energy	40	Engineering	4005 4004 4011	Civil engineering  Chemical engineering  Environmental engineering	SDG 6  SDG 7
Evaluating BIPV Façades in a Building Envelope in Hot Districts for Enhancing Sustainable Ranking: A Saudi Arabian Perspective	33  40	Built Environment And Design  Engineering	3302 4005 3301	Building  Civil engineering  Architecture	SDG 7  SDG 12  SDG 13  SDG 15
AN APPROXIMATION OF USING VERTICAL-AXIS TIDAL TURBINE FOR WATER DESALINATION IN THE SUEZ CANAL WATERWAY	-	-	-	-	SDG 6  SDG 7  SDG 9
The Effect of Novel Longitudinal Branched Fins on the Performance of the Latent Heat Accumulator based on Shell-and-Tube Configuration	40	Engineering	4008 4011	Electrical engineering  Environmental engineering	SDG 7
Design and implementation of voltage source converters in HVDC systems	40	Engineering	4006 4009 4008	Communications engineering  Electronics, sensors and digital hardware  Electrical engineering	SDG 7



Enhancing the Performance of the Output Active Power of DFIG-Based Wind Turbines Using Auto Disturbance Rejection Control	-	-	-	-	SDG 7
Increased efficiency of hydrokinetic turbines through the use of an obstacle on the channel bottom	40	Engineering	4005  4012  4015	Civil engineering  Fluid mechanics and thermal engineering  Maritime engineering	SDG 7
Neural Fuzzy Control of the Indoor Air Quality Onboard a RO-RO Ship Garage	49  46	Mathematical Sciences  Information And Computing Sciences	4602  4901	Artificial intelligence  Applied mathematics	SDG 7
Investigating the Kinetic Parameters in the Thermal Analysis of Jojoba Cake	32  34  40	Biomedical And Clinical Sciences  Chemical Sciences  Engineering	3214  3405  4004	Pharmacology and pharmaceutical sciences  Organic chemistry  Chemical engineering	SDG 7
Synthesis, Structural, Time-Dependent Density-Functional Theory, Thermal Annealing and Optical Properties for Doped Polymer Nanostructured Thin Films as Optoelectronic Devices	40  34	Engineering  Chemical Sciences	4016  3403	Materials engineering  Macromolecular and materials chemistry	SDG 7
Design and Three-Dimensional Simulation of a Solar Dish-Stirling Engine	40  51	Engineering  Physical Sciences	4012  5199  4004	Fluid mechanics and thermal engineering  Other physical sciences  Chemical engineering	SDG 7
Experimental and numerical investigation of a three-blade horizontal axis hydrokinetic water turbine (HAHWT) in high blockage conditions	40	Engineering	-	-	SDG 6  SDG 7  SDG 9
PVSails: Harnessing Innovation With Vertical Bifacial PV Modules in Floating Photovoltaic Systems	40	Engineering	4016  4008  4009	Materials engineering  Electrical engineering  Electronics, sensors and digital hardware	SDG 7
Experimental and Simulation Study of Solar-Powered Air-Gap Membrane Distillation Technology for Water Desalination	40	Engineering	4004  4011	Chemical engineering  Environmental engineering	SDG 6  SDG 7
A Centralized Protection Scheme for Microgrids with Artificial Neural Network-Based on Fault Detection and Location	-	-	-	-	SDG 7
Critical Assessment of Current State of the Art in Wearable Sensor Nodes with Energy Harvesting Systems for Healthcare Applications	40  51  46	Engineering  Physical Sciences  Information And Computing Sciences	4006  4606  5199	Communications engineering  Distributed computing and systems software  Other physical sciences	SDG 7
A Comparative Study of Two Metaheuristic MPPT Techniques to Extract Maximum Power from PV Array under Different Partial Shading Patterns	-	-	-	-	SDG 7

Vsc-hvdc control system	40	Engineering	4009  4008  4006	Electronics, sensors and digital hardware  Electrical engineering  Communications engineering	SDG 7
Fuzzy Logic-Pitch Angle Controller for SCIG based Wind Turbine	-	-	-	-	SDG 7
An Integrated Approach for Demand Response and Wind Curtailment Management in Distribution Systems	40	Engineering	4011  4008	Environmental engineering  Electrical engineering	SDG 7
Aeroelastic modelling of tail fins for small wind turbines	51	Physical Sciences	-	-	SDG 7
DFT Study of Lead-Free Mixed-Halide Materials Cs <sub>2</sub> X <sub>2</sub> Y <sub>2</sub> (X, Y = F, Cl, Br, I) for Optoelectronic Applications	51  34  40	Physical Sciences  Chemical Sciences  Engineering	-	-	SDG 7
Hybrid MPPT-based predictive speed control model for variable speed PMSG wind energy conversion systems	-	-	-	-	SDG 7
Production and characterization of bio-oil from camelthorn plant using slow pyrolysis	34	Chemical Sciences	3406	Physical chemistry	SDG 7
Performance Assessment of Artificial Neural Networks-Based MPPT Technique for Photovoltaic Systems	-	-	-	-	SDG 7
Optimal Energy Management of VPP- Based Energy Storage Considering Renewable Energy Integration and EV Charging	-	-	-	-	SDG 7
Surface plasmon polariton at the interface of dielectric and graphene medium using the Doppler broadening effect	51	Physical Sciences	5102  5108	Atomic, molecular and optical physics  Quantum physics	SDG 7
Geometrically nonlinear transient analysis of Timoshenko tapered beam-column element using a finite element formulation based on the exact shape functions	40	Engineering	4007  4017  4005	Control engineering, mechatronics and robotics  Mechanical engineering  Civil engineering	SDG 7
Efficient offloading and task scheduling in internet of things-cloud-fog environment	40  46	Engineering  Information And Computing Sciences	-	-	SDG 7
First principle study of er, co-doped fe and yb of nabif <sub>6</sub> ; a promising materials for optoelectronic and transport properties; probed by dft	32  51  40	Biomedical And Clinical Sciences  Physical Sciences  Engineering	4016  5102  3214	Materials engineering  Atomic, molecular and optical physics  Pharmacology and pharmaceutical sciences	SDG 7

Hybrid concentrator photovoltaic/membrane distillation system for potable water production using new fabricated PS/ZIF-L membrane	40	Engineering	4004  4011  4005	Chemical engineering  Environmental engineering  Civil engineering	SDG 6  SDG 7
Oleaginous fungi as a sustainable source for biodiesel production: Current and future prospect	-	-	-	-	SDG 7  SDG 12  SDG 13
Optimal planning for sustainable and cost-effective power generation on the Red Sea coast	33  40	Built Environment And Design  Engineering	4008  4004  3302	Electrical engineering  Chemical engineering  Building	SDG 7
Thin film synthesis and photovoltaic performance of polypyrrole@cobalt hydroxide composites for solar cells and optoelectronic devices	40  34  51	Engineering  Chemical Sciences  Physical Sciences	-	-	SDG 7
The nonlinear behavior of generic tail fins for small wind turbines	40	Engineering	4012  4008	Fluid mechanics and thermal engineering  Electrical engineering	SDG 7
Finite Element Analysis for Dynamic Simulation of Composite HAWT Blade	40	Engineering	4011  4008	Environmental engineering  Electrical engineering	SDG 7
High-voltage direct current transmission	40	Engineering	4008  4006  4009	Electrical engineering  Communications engineering  Electronics, sensors and digital hardware	SDG 7
A solar energy-based shore side power system for a ferry service across the Suez Canal	40	Engineering	4015	Maritime engineering	SDG 7  SDG 14
African vulture optimizer algorithm for fuzzy logic speed controller of fuel cell electric vehicle	40	Engineering	4009  4017  4008	Electronics, sensors and digital hardware  Mechanical engineering  Electrical engineering	SDG 7
Vsc-hvdc under ac and dc fault conditions	40	Engineering	4006  4008  4009	Communications engineering  Electrical engineering  Electronics, sensors and digital hardware	SDG 7
Photovoltaic-Powered Smart Aquaponic System: Integrating IoT and AI for Sustainable Food Production and Fish Health Management	-	-	-	-	SDG 2  SDG 3  SDG 7
Experimental Examination of Enhanced Nanoceramic-Based Self-Cleaning Sprays for High-Efficiency Hydrophobic Photovoltaic Panels	40	Engineering	4016	Materials engineering	SDG 7
Protection of Wind Turbine Generators Using Microcontroller-Based Applications	34  40	Chemical Sciences  Engineering	4008  4004  3499	Electrical engineering  Chemical engineering  Other chemical sciences	SDG 7
INTERNET OF ENERGY APPLIED TO WATER HYDROKINETIC SMART-GRIDS: A TEST RIG EXAMPLE	-	-	-	-	SDG 6  SDG 7

SM-BIM: A NEW CONCEPTUAL FRAMEWORK FOR MULTI-CRITERIA DECISION-MAKING PROCESS BASED ON SMART MATERIALS AND BUILDING INFORMATION MODELING	33	Built Environment And Design	3302  3301	Building  Architecture	SDG 4  SDG 7  SDG 8  SDG 12
Estimating the energy consumption for residential buildings in semiarid and arid desert climate using artificial intelligence	MD	Multidisciplinary	MD	Multidisciplinary	SDG 7
Graphical Revamping of a Crude Distillation Unit under Two Variable Operational Scenarios - Naphtha Stabilizer and Reformer Operated	40	Engineering	4004  4011	Chemical engineering  Environmental engineering	SDG 7  SDG 9
Static and dynamic analysis of a new offshore wind turbine system supported with outriggers	40	Engineering	4005  4007  4017	Civil engineering  Control engineering, mechatronics and robotics  Mechanical engineering	SDG 7
Performance Assessment of T-Source Inverter Fed Induction Motor Drives Based on Photovoltaics	-	-	-	-	SDG 7
Conversion of Fish Waste Oil into Biofuel: An Experimental Study	-	-	-	-	SDG 7  SDG 12  SDG 14
Study Network Reconfiguration Using Optimization Techniques to Improve Voltage Stability	40	Engineering	4009  4006  4008	Electronics, sensors and digital hardware  Communications engineering  Electrical engineering	SDG 7
Estimation of density of charged defect states in some glasses of SeTeSnPb system using low-temperature d.c. conductivity measurements	40  51	Engineering  Physical Sciences	4016  5104	Materials engineering  Condensed matter physics	SDG 7
Power grids with renewable energy: Storage, integration and digitalization	40	Engineering	4008	Electrical engineering	SDG 7  SDG 9
Green Hydrogen Production from Ethanol Electrolysis Using Co/Ni Bimetallic Nanoparticles-Incorporated Carbon Nanofibers	40  34	Engineering  Chemical Sciences	-	-	SDG 7
Experimentally validated simplified prediction model of unloaded spar-buoy wave energy converter motions' responses in waves	40	Engineering	4017	Mechanical engineering	SDG 7
Joint Reflection Design and Channel Estimation for Intelligent Reflective Surfaces	-	-	-	-	SDG 7

Protective Schemes for Induction Generator	40   34	Engineering   Chemical Sciences	3499   4008   4004	Other chemical sciences   Electrical engineering   Chemical engineering	SDG 7
Conclusions and Future Work	34   40	Chemical Sciences   Engineering	3499   4004   4008	Other chemical sciences   Chemical engineering   Electrical engineering	SDG 7
Vsc-hvdc simulation results	40	Engineering	4006   4009   4008	Communications engineering   Electronics, sensors and digital hardware   Electrical engineering	SDG 7
Diagnostic Strategies for Microturbines Operating Status Applied to Predictive Maintenance: Experimental Test Case	40	Engineering	4004   4001   4012	Chemical engineering   Aerospace engineering   Fluid mechanics and thermal engineering	SDG 7   SDG 11
Co-Flow Jet Effects on the Aerodynamic Performance of National Renewable Energy Laboratory Aerofoils with Different Thicknesses for Wind Turbine Applications	37   40   51	Earth Sciences   Engineering   Physical Sciences	5199   4004   3709	Other physical sciences   Chemical engineering   Physical geography and environmental geoscience	SDG 7
Wind Tunnel and OpenFOAM Flow Analysis of A High Solidity Vertical-Axis Wind Turbine	40	Engineering	4001   4012   4004	Aerospace engineering   Fluid mechanics and thermal engineering   Chemical engineering	SDG 7   SDG 9
High-Power Three-Port Converter for Efficient EV Fast Charging Using Partial Power Processing	-	-	-	-	SDG 7
Conclusions and future work	40	Engineering	4009   4006   4008	Electronics, sensors and digital hardware   Communications engineering   Electrical engineering	SDG 7
Experimental Setups and Results for Digital Relay Protection	40   34	Engineering   Chemical Sciences	3499   4004   4008	Other chemical sciences   Chemical engineering   Electrical engineering	SDG 7
Solar wind effect on the multi-fluid plasma expansion in the Venusian upper ionosphere	51	Physical Sciences	5101   5107   5109	Astronomical sciences   Particle and high energy physics   Space sciences	SDG 7
Simulation and Optimization of Waste Heat to Electricity through Organic Rankine Cycles (ORCs): a Case Study in an Oil Refinery	40	Engineering	4004   4011	Chemical engineering   Environmental engineering	SDG 7   SDG 9
Remagnetization Strategies for Induction Machines Operating with Reduced Flux Levels	-	-	-	-	SDG 7
An Evaluation of Firefly and Flower Pollination Techniques Used to Harvest Maximum Power from PEMFC	-	-	-	-	SDG 7
Fabrication, photovoltaic analysis, and electrical characterization of Au/ZnTPyP/p-Si/Ag heterojunction under gamma radiation effect for solar cell applications	51   49	Physical Sciences   Mathematical Sciences	4901   5107   5101	Applied mathematics   Particle and high energy physics   Astronomical sciences	SDG 7

New Efficient Configurations for Sour Wastewater Treatment	40	Engineering	4004  4018  4019	Chemical engineering  Nanotechnology  Resources engineering and extractive metallurgy	SDG 6  SDG 7  SDG 8  SDG 9  SDG 13
A Multi-Objective Approach for Available Transfer Capability Considering Capability Curve of DFIG Wind Farm	-	-	-	-	SDG 7
Fully symbolic-based technique for solving complex state-space control systems	40  46	Engineering  Information And Computing Sciences	-	-	SDG 7
Maximizing Renewable Energy Integration through Demand Response Strategies in Distribution Systems Considering Uncertainties	-	-	-	-	SDG 7
Better heat and power integration of an existing gas-oil plant in Egypt through revamping the design and organic rankine cycle	34  40	Chemical Sciences  Engineering	3406  4004  4017	Physical chemistry  Chemical engineering  Mechanical engineering	SDG 7  SDG 9  SDG 13
Graphical revamping of a delayed coker unit: A case study from an Egyptian refinery	40	Engineering	4012  4017	Fluid mechanics and thermal engineering  Mechanical engineering	SDG 7  SDG 9  SDG 12  SDG 13
Transient Behavior of Induction Generator Protective Relays	40  34	Engineering  Chemical Sciences	4008  3499  4004	Electrical engineering  Other chemical sciences  Chemical engineering	SDG 7
Introduction	40	Engineering	4009  4006  4008	Electronics, sensors and digital hardware  Communications engineering  Electrical engineering	SDG 7
Experimental investigation for hvdc system	40	Engineering	4009  4008  4006	Electronics, sensors and digital hardware  Electrical engineering  Communications engineering	SDG 7
THERMODYNAMIC ANALYSIS AND EXPERIMENTAL STUDY OF ALTERNATIVE BIOFUELS USING SAWDUST SLOW PYROLYSIS	40  34	Engineering  Chemical Sciences	3405  4004  4099	Organic chemistry  Chemical engineering  Other engineering	SDG 7  SDG 8
Experimental Investigation into the Effects of Flat Plate Guiding Walls on the Performance of Vertical Axis Wind Turbine	-	-	-	-	SDG 7
Introduction and Previous Work	40  34	Engineering  Chemical Sciences	4004  3499  4008	Chemical engineering  Other chemical sciences  Electrical engineering	SDG 7
A Simplified Non-Linear Active Disturbance Rejection Control for Electric Traction Drives	40	Engineering	4007  4009  4008	Control engineering, mechatronics and robotics  Electronics, sensors and digital hardware  Electrical engineering	SDG 7

