Publications at Port Said University
SDG 9

Data Set	Publications at Port Said University								
Year Range	2019 to 2023								
Subject Classification	ASJC								
Filtered By	not filtered								
Types Of Publications Included	All publication types								
Self-Citations	-								
Data Source	Scopus								
Date Last Updated	13 November 2024								
Date Exported	24 November 2024								
105 Publications									
Title	Authors	Year	Scopus Source title	Citations	Field-Weighted Citation Impact	Reference	Abstract	DOI	EID
Recent advances in carbon capture storage and utilisation technologies: a review	Osman, A.I.| Hefny, M.| Abdel Maksoud, M.I.A.| Elgarahy, A.M.| Rooney, D.W.	2021	Environmental Chemistry Letters	481	6.96	Osman, A.I., Hefny, M., Abdel Maksoud, M.I.A. and 2 more (...) (2021).Recent advances in carbon capture storage and utilisation technologies: a review. Environmental Chemistry Letters,19(2) 797-849	https://www.scopus.com/record/display.url?eid=2-s2.0-85096378435&origin=resultslist	10.1007/s10311-020-01133-3	2-s2.0-85096378435
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.	2022	Environmental Chemistry Letters	423	10.46	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	https://www.scopus.com/record/display.url?eid=2-s2.0-85116501469&origin=resultslist	10.1007/s10311-021-01322-8	2-s2.0-85116501469

A critical review of biosorption of dyes, heavy metals and metalloids from wastewater as an efficient and green process	Elgarahy, A.M.| Elwakeel, K.Z.| Mohammad, S.H.| Elshoubaky, G.A.	2021	Cleaner Engineering and Technology	417	9.57	Elgarahy, A.M., Elwakeel, K.Z., Mohammad, S.H. and 1 more (...) (2021).A critical review of biosorption of dyes, heavy metals and metalloids from wastewater as an efficient and green process. Cleaner Engineering and Technology,4	https://www.scopus.com/record/display.url?eid=2-s2.0-85114025405&origin=resultslist	10.1016/j.clet.2021.100209	2-s2.0-85114025405
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.	2021	Environmental Chemistry Letters	368	5.32	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	https://www.scopus.com/record/display.url?eid=2-s2.0-85111111734&origin=resultslist	10.1007/s10311-021-01273-0	2-s2.0-85111111734
Insight on water remediation application using magnetic nanomaterials and biosorbents	Abdel Maksoud, M.I.A.| Elgarahy, A.M.| Farrell, C.| Al-Muhtaseb, A.H.| Rooney, D.W.| Osman, A.I.	2020	Coordination Chemistry Reviews	245	4.33	Abdel Maksoud, M.I.A., Elgarahy, A.M., Farrell, C. and 3 more (...) (2020).Insight on water remediation application using magnetic nanomaterials and biosorbents. Coordination Chemistry Reviews,403	https://www.scopus.com/record/display.url?eid=2-s2.0-85074566536&origin=resultslist	10.1016/j.ccr.2019.213096	2-s2.0-85074566536
Effect of process parameters on the generated surface roughness of down-facing surfaces in selective laser melting	Charles, A.| Elkaseer, A.| Thijs, L.| Hagenmeyer, V.| Scholz, S.	2019	Applied Sciences (Switzerland)	124	7.09	Charles, A., Elkaseer, A., Thijs, L. and 2 more (...) (2019).Effect of process parameters on the generated surface roughness of down-facing surfaces in selective laser melting. Applied Sciences (Switzerland),9(6)	https://www.scopus.com/record/display.url?eid=2-s2.0-85063750249&origin=resultslist	10.3390/app9061256	2-s2.0-85063750249
Advanced electric discharge machining of stainless steels: Assessment of the state of the art, gaps and future prospect	Abu Qudeiri, J.E.| Saleh, A.| Ziout, A.| Mourad, A.-H.I.| Abidi, M.H.| Elkaseer, A.	2019	Materials	91	1.28	Abu Qudeiri, J.E., Saleh, A., Ziout, A. and 3 more (...) (2019).Advanced electric discharge machining of stainless steels: Assessment of the state of the art, gaps and future prospect. Materials,12(6)	https://www.scopus.com/record/display.url?eid=2-s2.0-85063588406&origin=resultslist	10.3390/ma12060907	2-s2.0-85063588406

Investigation of novel nanomaterial for the removal of toxic substances from contaminated water	El-Sayed, W.N.| Elwakeel, K.Z.| Shahat, A.| Awual, M.R.	2019	RSC Advances	79	2.55	El-Sayed, W.N., Elwakeel, K.Z., Shahat, A. and 1 more (...) (2019).Investigation of novel nanomaterial for the removal of toxic substances from contaminated water. RSC Advances,9(25) 14167-14175	https://www.scopus.com/record/display.uri?eid=2-s2.0-85065641122&origin=resultslist	10.1039/c9ra00383e	2-s2.0-85065641122
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.| Eltaweil, A.S.| Hosny, M.| Hamed, S.M.| Fawzy, S.| Yap, P.-S.| Rooney, D.W.	2023	Environmental Chemistry Letters	78	4.05	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	https://www.scopus.com/record/display.uri?eid=2-s2.0-85148615526&origin=resultslist	10.1007/s10311-023-01573-7	2-s2.0-85148615526
Recent advances in greenly synthesized nanoengineered materials for water/wastewater remediation: an overview	Elgarahy, A.M.| Elwakeel, K.Z.| Akhdhar, A.| Hamza, M.F.	2021	Nanotechnology for Environmental Engineering	77	1.52	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)	https://www.scopus.com/record/display.uri?eid=2-s2.0-85101080018&origin=resultslist	10.1007/s41204-021-00104-5	2-s2.0-85101080018
Experiment-based process modeling and optimization for high-quality and resource-efficient FFF 3D printing	Elkaseer, A.| Schneider, S.| Scholz, S.G.	2020	Applied Sciences (Switzerland)	73	4.61	Elkaseer, A., Schneider, S., Scholz, S.G. (2020).Experiment-based process modeling and optimization for high-quality and resource-efficient FFF 3D printing. Applied Sciences (Switzerland),10(8)	https://www.scopus.com/record/display.uri?eid=2-s2.0-85085134183&origin=resultslist	10.3390/APP10082899	2-s2.0-85085134183

Adsorption of polluted dyes from water by transition metal oxides: A review	Hosny, N.M.| Gomaa, I.| Elmahgary, M.G.	2023	Applied Surface Science Advances	71	12.29	Hosny, N.M., Gomaa, I., Elmahgary, M.G. (2023).Adsorption of polluted dyes from water by transition metal oxides: A review. Applied Surface Science Advances,15	https://www.scopus.com/record/display.uri?eid=2-s2.0-85151405756&origin=resultslist	10.1016/j.apsadv.2023.100395	2-s2.0-85151405756
Principles and Characteristics of Different EDM Processes in Machining Tool and Die Steels	Qudeiri, J.E.A.| Zaiout, A.| Mourad, A.-H.I.| Abidi, M.H.| Elkaseer, A.	2020	Applied Sciences (Switzerland)	66	3.91	Qudeiri, J.E.A., Zaiout, A., Mourad, A.-H.I. and 2 more (...) (2020).Principles and Characteristics of Different EDM Processes in Machining Tool and Die Steels. Applied Sciences (Switzerland),10(6)	https://www.scopus.com/record/display.uri?eid=2-s2.0-85082675739&origin=resultslist	10.3390/app10062082	2-s2.0-85082675739
Material jetting for advanced applications: A state-of-the-art review, gaps and future directions	Elkaseer, A.| Chen, K.J.| Janhsen, J.C.| Refle, O.| Hagenmeyer, V.| Scholz, S.G.	2022	Additive Manufacturing	63	2.47	Elkaseer, A., Chen, K.J., Janhsen, J.C. and 3 more (...) (2022).Material jetting for advanced applications: A state-of-the-art review, gaps and future directions. Additive Manufacturing,60	https://www.scopus.com/record/display.uri?eid=2-s2.0-85141452061&origin=resultslist	10.1016/j.addma.2022.103270	2-s2.0-85141452061
Chitosan- or glycidyl methacrylate-based adsorbents for the removal of dyes from aqueous solutions: a review	Mashabi, R.A.| Khan, Z.A.| Elwakeel, K.Z.	2022	Materials Advances	62	2.31	Mashabi, R.A., Khan, Z.A., Elwakeel, K.Z. (2022).Chitosan- or glycidyl methacrylate-based adsorbents for the removal of dyes from aqueous solutions: a review. Materials Advances,3(14) 5645-5671	https://www.scopus.com/record/display.uri?eid=2-s2.0-85133124075&origin=resultslist	10.1039/d2ma00320a	2-s2.0-85133124075
Facile Synthesis and Life Cycle Assessment of Highly Active Magnetic Sorbent Composite Derived from Mixed Plastic and Biomass Waste for Water Remediation	Osman, A.I.| Elgarahy, A.M.| Mehta, N.| Al-Muhtaseb, A.H.| Al-Fatesh, A.S.| Rooney, D.W.	2022	ACS Sustainable Chemistry and Engineering	55	4.22	Osman, A.I., Elgarahy, A.M., Mehta, N. and 3 more (...) (2022).Facile Synthesis and Life Cycle Assessment of Highly Active Magnetic Sorbent Composite Derived from Mixed Plastic and Biomass Waste for Water Remediation. ACS Sustainable Chemistry and Engineering,10(37) 12433-12447	https://www.scopus.com/record/display.uri?eid=2-s2.0-85138060052&origin=resultslist	10.1021/acssuschemeng.2c04095	2-s2.0-85138060052

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.	2023	Environmental Chemistry Letters	45	2.33	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	https://www.scopus.com/record/display.url?eid=2-s2.0-85163691782&origin=resultslist	10.1007/s10311-023-01613-2	2-s2.0-85163691782
Down-facing surfaces in laser powder bed fusion of Ti6Al4V: Effect of dross formation on dimensional accuracy and surface texture	Charles, A.| Elkaseer, A.| Paggi, U.| Thijs, L.| Hagenmeyer, V.| Scholz, S.	2021	Additive Manufacturing	41	2.93	Charles, A., Elkaseer, A., Paggi, U. and 3 more (...) (2021).Down-facing surfaces in laser powder bed fusion of Ti6Al4V: Effect of dross formation on dimensional accuracy and surface texture. Additive Manufacturing,46	https://www.scopus.com/record/display.url?eid=2-s2.0-85110081327&origin=resultslist	10.1016/j.addma.2021.102148	2-s2.0-85110081327
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-Qelish, M.	2023	Environmental Research	40	3.83	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	https://www.scopus.com/record/display.url?eid=2-s2.0-85149284328&origin=resultslist	10.1016/j.envres.2023.115558	2-s2.0-85149284328
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.	2023	Environmental Research	40	7.88	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	https://www.scopus.com/record/display.url?eid=2-s2.0-85141223489&origin=resultslist	10.1016/j.envres.2022.114522	2-s2.0-85141223489

Oil spill clean-up using combined sorbents: a comparative investigation and design aspects	Tayeb, A.M.| Farouq, R.| Mohamed, O.A.| Tony, M.A.	2020	International Journal of Environmental Analytical Chemistry	40	2.12	Tayeb, A.M., Farouq, R., Mohamed, O.A. and 1 more (...) (2020).Oil spill clean-up using combined sorbents: a comparative investigation and design aspects. International Journal of Environmental Analytical Chemistry,100(3) 311-323	https://www.scopus.com/record/display.uri?eid=2-s2.0-85068573007&origin=resultslist	10.1080/03067319.2019.1636976	2-s2.0-85068573007
Elucidation of dross formation in laser powder bed fusion at down-facing surfaces: Phenomenon-oriented multiphysics simulation and experimental validation	Charles, A.| Bayat, M.| Elkaseer, A.| Thijs, L.| Hattel, J.H.| Scholz, S.	2022	Additive Manufacturing	37	3.88	Charles, A., Bayat, M., Elkaseer, A. and 3 more (...) (2022).Elucidation of dross formation in laser powder bed fusion at down-facing surfaces: Phenomenon-oriented multiphysics simulation and experimental validation. Additive Manufacturing,50	https://www.scopus.com/record/display.uri?eid=2-s2.0-85121319776&origin=resultslist	10.1016/j.addma.2021.102551	2-s2.0-85121319776
Use of biopolymers in wastewater treatment: A brief review of current trends and prospects	Elgarahy, A.M.| Eloffy, M.G.| Guibal, E.| Alghamdi, H.M.| Elwakeel, K.Z.	2023	Chinese Journal of Chemical Engineering	37	2.77	Elgarahy, A.M., Eloffy, M.G., Guibal, E. and 2 more (...) (2023).Use of biopolymers in wastewater treatment: A brief review of current trends and prospects. Chinese Journal of Chemical Engineering,64292-320	https://www.scopus.com/record/display.uri?eid=2-s2.0-85176979694&origin=resultslist	10.1016/j.cjche.2023.05.018	2-s2.0-85176979694
Recent developments in recalcitrant organic pollutants degradation using immobilized photocatalysts	Fouad, K.| Bassyouni, M.| Alalm, M.G.| Saleh, M.Y.	2021	Applied Physics A: Materials Science and Processing	36	2.04	Fouad, K., Bassyouni, M., Alalm, M.G. and 1 more (...) (2021).Recent developments in recalcitrant organic pollutants degradation using immobilized photocatalysts. Applied Physics A: Materials Science and Processing,127(8)	https://www.scopus.com/record/display.uri?eid=2-s2.0-85110989528&origin=resultslist	10.1007/s00339-021-04724-1	2-s2.0-85110989528

Design and performance a novel hybrid membrane distillation/humidification–dehumidification system	Elhenawy, Y.| Fouad, K.| Bassyouni, M.| Majozi, T.	2023	Energy Conversion and Management	34	6.32	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	https://www.scopus.com/record/display.url?eid=2-s2.0-85153602253&origin=resultslist	10.1016/j.enconman.2023.117039	2-s2.0-85153602253
Industry 4.0-Oriented Deep Learning Models for Human Activity Recognition	Mohsen, S.| Elkaseer, A.| Scholz, S.G.	2021	IEEE Access	33	2.58	Mohsen, S., Elkaseer, A., Scholz, S.G. (2021).Industry 4.0-Oriented Deep Learning Models for Human Activity Recognition. IEEE Access,9150508-150521	https://www.scopus.com/record/display.url?eid=2-s2.0-85119583228&origin=resultslist	10.1109/ACCESS.2021.3125733	2-s2.0-85119583228
Geopolymers as sustainable eco-friendly materials: Classification, synthesis routes, and applications in wastewater treatment	Elgarahy, A.M.| Maged, A.| Eloffy, M.G.| Zahran, M.| Kharbish, S.| Elwakeel, K.Z.| Bhatnagar, A.	2023	Separation and Purification Technology	31	2.55	Elgarahy, A.M., Maged, A., Eloffy, M.G. and 4 more (...) (2023).Geopolymers as sustainable eco-friendly materials: Classification, synthesis routes, and applications in wastewater treatment. Separation and Purification Technology,324	https://www.scopus.com/record/display.url?eid=2-s2.0-85165602917&origin=resultslist	10.1016/j.seppur.2023.124631	2-s2.0-85165602917
Dimensional errors due to overhanging features in laser powder bed fusion parts made of Ti-6Al-4V	Charles, A.| Elkaseer, A.| Thijs, L.| Scholz, S.G.	2020	Applied Sciences (Switzerland)	30	2.03	Charles, A., Elkaseer, A., Thijs, L. and 1 more (...) (2020).Dimensional errors due to overhanging features in laser powder bed fusion parts made of Ti-6Al-4V. Applied Sciences (Switzerland),10(7)	https://www.scopus.com/record/display.url?eid=2-s2.0-85083448789&origin=resultslist	10.3390/app10072416	2-s2.0-85083448789
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.	2022	Environmental Chemistry Letters	30	0.74	Elgarahy, A.M., Eloffy, M.G., Hammad, A. and 5 more (...) (2022).Hydrogen production from wastewater, storage, economy, governance and applications: a review. Environmental Chemistry Letters,20(6) 3453-3504	https://www.scopus.com/record/display.url?eid=2-s2.0-85136583562&origin=resultslist	10.1007/s10311-022-01480-3	2-s2.0-85136583562

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.	2021	Energy Conversion and Management	29	2.01	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	https://www.scopus.com/record/display.url?eid=2-s2.0-85104277768&origin=resultslist	10.1016/j.enconman.2021.114144	2-s2.0-85104277768
Effective methods for removing different types of dyes – modelling analysisstatistical physics treatment and DFT calculations: a review	El-Desouky, M.G.| Khalil, M.A.G.| El-Afify, M.A.M.| El-Bindary, A.A.| El-Bindary, M.A.	2022	Desalination and Water Treatment	28	3.4	El-Desouky, M.G., Khalil, M.A.G., El-Afify, M.A.M. and 2 more (...) (2022).Effective methods for removing different types of dyes – modelling analysisstatistical physics treatment and DFT calculations: a review. Desalination and Water Treatment,28089-127	https://www.scopus.com/record/display.url?eid=2-s2.0-85148444891&origin=resultslist	10.5004/dwt.2022.29029	2-s2.0-85148444891
Eco-friendly Chitosan Condensation Adduct Resins for Removal of Toxic Silver Ions from Aqueous Medium	El-Shorbagy, H.G.| El-Kousy, S.M.| Elwakeel, K.Z.| El-Ghaffar, M.A.A.	2021	Journal of Industrial and Engineering Chemistry	28	2.02	El-Shorbagy, H.G., El-Kousy, S.M., Elwakeel, K.Z. and 1 more (...) (2021).Eco-friendly Chitosan Condensation Adduct Resins for Removal of Toxic Silver Ions from Aqueous Medium. Journal of Industrial and Engineering Chemistry,100410-421	https://www.scopus.com/record/display.url?eid=2-s2.0-85105802535&origin=resultslist	10.1016/j.jiec.2021.04.029	2-s2.0-85105802535
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.	2022	Energy and Buildings	27	2.86	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	https://www.scopus.com/record/display.url?eid=2-s2.0-85129872803&origin=resultslist	10.1016/j.enbuild.2022.112144	2-s2.0-85129872803

Advanced oxidation of acid yellow 11 dye; detoxification and degradation mechanism	Hassaan, M.A.| El Nemr, A.| Madkour, F.F.| Idris, A.M.| Said, T.O.| Sahlabji, T.| Alghamdi, M.M.| El-Zahhar, A.A.	2021	Toxin Reviews	23	1.85	Hassaan, M.A., El Nemr, A., Madkour, F.F. and 5 more (...) (2021).Advanced oxidation of acid yellow 11 dye; detoxification and degradation mechanism. Toxin Reviews,40(4) 1472-1480	https://www.scopus.com/record/display.url?eid=2-s2.0-85081366993&origin=resultslist	10.1080/15569543.2020.1736098	2-s2.0-85081366993
An industry 4.0 framework for tooling production using metal additive manufacturing-based first-time-right smart manufacturing system	Moshiri, M.| Charles, A.| Elkaseer, A.| Scholz, S.| Mohanty, S.| Tosello, G.	2020	Procedia CIRP	23	6.23	Moshiri, M., Charles, A., Elkaseer, A. and 3 more (...) (2020).An industry 4.0 framework for tooling production using metal additive manufacturing-based first-time-right smart manufacturing system. Procedia CIRP,9332-37	https://www.scopus.com/record/display.url?eid=2-s2.0-85091505921&origin=resultslist	10.1016/j.procir.2020.04.151	2-s2.0-85091505921
Self-flushing in EDM drilling of Ti6Al4V using rotating shaped electrodes	Goiogana, M.| Elkaseer, A.	2019	Materials	22	0.96	Goiogana, M., Elkaseer, A. (2019).Self-flushing in EDM drilling of Ti6Al4V using rotating shaped electrodes. Materials,12(6)	https://www.scopus.com/record/display.url?eid=2-s2.0-85064189931&origin=resultslist	10.3390/ma12060989	2-s2.0-85064189931
Data Security in Cloud Computing Using Steganography: A Review	Alkhamese, A.Y.| Shabana, W.R.| Hanafy, I.M.	2019	Proceedings of 2019 International Conference on Innovative Trends in Computer Engineering, ITCE 2019	22	2.54	Alkhamese, A.Y., Shabana, W.R., Hanafy, I.M. (2019).Data Security in Cloud Computing Using Steganography: A Review. Proceedings of 2019 International Conference on Innovative Trends in Computer Engineering, ITCE 2019,549-558	https://www.scopus.com/record/display.url?eid=2-s2.0-85063336338&origin=resultslist	10.1109/ITCE.2019.8646434	2-s2.0-85063336338
Retrofit of heat exchanger networks by graphical Pinch Analysis - A case study of a crude oil refinery in Kuwait	Alhajri, I.H.| Gadalla, M.A.| Abdelaziz, O.Y.| Ashour, F.H.	2021	Case Studies in Thermal Engineering	21	1.89	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	https://www.scopus.com/record/display.url?eid=2-s2.0-85105059129&origin=resultslist	10.1016/j.csite.2021.101030	2-s2.0-85105059129

Evolution of BIM to DTs: A Paradigm Shift for the Post-Pandemic AECO Industry	Megahed, N.A.| Hassan, A.M.	2022	Urban Science	20	1.15	Megahed, N.A., Hassan, A.M. (2022).Evolution of BIM to DTs: A Paradigm Shift for the Post-Pandemic AECO Industry. Urban Science,6(4)	https://www.scopus.com/record/display.url?eid=2-s2.0-85141828083&origin=resultslist	10.3390/urbansci6040067	2-s2.0-85141828083
A comprehensive review on sustainable clay-based geopolymers for wastewater treatment: circular economy and future outlook	Maged, A.| El-Fattah, H.A.| Kamel, R.M.| Kharbish, S.| Elgarahy, A.M.	2023	Environmental Monitoring and Assessment	20	3.57	Maged, A., El-Fattah, H.A., Kamel, R.M. and 2 more (...) (2023).A comprehensive review on sustainable clay-based geopolymers for wastewater treatment: circular economy and future outlook. Environmental Monitoring and Assessment,195(6)	https://www.scopus.com/record/display.url?eid=2-s2.0-85159769957&origin=resultslist	10.1007/s10661-023-11303-9	2-s2.0-85159769957
Exceeding Pinch limits by process configuration of an existing modern crude oil distillation unit – A case study from refining industry	Bayomie, O.S.| Abdelaziz, O.Y.| Gadalla, M.A.	2019	Journal of Cleaner Production	20	0.69	Bayomie, O.S., Abdelaziz, O.Y., Gadalla, M.A. (2019).Exceeding Pinch limits by process configuration of an existing modern crude oil distillation unit – A case study from refining industry. Journal of Cleaner Production,2311050-1058	https://www.scopus.com/record/display.url?eid=2-s2.0-85066991686&origin=resultslist	10.1016/j.jclepro.2019.05.041	2-s2.0-85066991686
Industrial internet of things solution for real-time monitoring of the additive manufacturing process	Salama, M.| Elkaseer, A.| Saied, M.| Ali, H.| Scholz, S.	2019	Advances in Intelligent Systems and Computing	19	3.29	Salama, M., Elkaseer, A., Saied, M. and 2 more (...) (2019).Industrial internet of things solution for real-time monitoring of the additive manufacturing process. Advances in Intelligent Systems and Computing,852355-365	https://www.scopus.com/record/display.url?eid=2-s2.0-85053516979&origin=resultslist	10.1007/978-3-319-99981-4_33	2-s2.0-85053516979
Effect of Process Parameters on the Performance of Drop-On-Demand 3D Inkjet Printing: Geometrical-Based Modeling and Experimental Validation	Elkaseer, A.| Schneider, S.| Deng, Y.| Scholz, S.G.	2022	Polymers	17	1.67	Elkaseer, A., Schneider, S., Deng, Y. and 1 more (...) (2022).Effect of Process Parameters on the Performance of Drop-On-Demand 3D Inkjet Printing: Geometrical-Based Modeling and Experimental Validation. Polymers,14(13)	https://www.scopus.com/record/display.url?eid=2-s2.0-85132982170&origin=resultslist	10.3390/polym14132557	2-s2.0-85132982170

Utilization of chemically modified coal fly ash as cost-effective adsorbent for removal of hazardous organic wastes	Eteba, A.| Bassyouni, M.| Saleh, M.	2023	International Journal of Environmental Science and Technology	17	3.59	Eteba, A., Bassyouni, M., Saleh, M. (2023).Utilization of chemically modified coal fly ash as cost-effective adsorbent for removal of hazardous organic wastes. International Journal of Environmental Science and Technology,20(7) 7589-7602	https://www.scopus.com/record/display.url?eid=2-s2.0-85136852051&origin=resultslist	10.1007/s13762-022-04457-5	2-s2.0-85136852051
Extraction of Nanocellulose for Eco-Friendly Biocomposite Adsorbent for Wastewater Treatment	Bassyouni, M.| Zoromba, M.Sh.| Abdel-Aziz, M.H.| Mosly, I.	2022	Polymers	17	1.67	Bassyouni, M., Zoromba, M.Sh., Abdel-Aziz, M.H. and 1 more (...) (2022).Extraction of Nanocellulose for Eco-Friendly Biocomposite Adsorbent for Wastewater Treatment. Polymers,14(9)	https://www.scopus.com/record/display.url?eid=2-s2.0-85129799576&origin=resultslist	10.3390/polym14091852	2-s2.0-85129799576
Graphical Design and Analysis of Mass Exchange Networks Using Composition Driving Forces	Farrag, N.M.| Kamel, D.A.| Ghallab, A.O.| Gadalla, M.A.| Fouad, M.K.	2021	South African Journal of Chemical Engineering	16	1.19	Farrag, N.M., Kamel, D.A., Ghallab, A.O. and 2 more (...) (2021).Graphical Design and Analysis of Mass Exchange Networks Using Composition Driving Forces. South African Journal of Chemical Engineering,3694-104	https://www.scopus.com/record/display.url?eid=2-s2.0-85101387279&origin=resultslist	10.1016/j.sajce.2021.02.001	2-s2.0-85101387279
On the assessment of thermo-mechanical degradability of multi-recycled ABS polymer for 3D printing applications	Charles, A.| Bassan, P.M.| Mueller, T.| Elkaseer, A.| Scholz, S.G.	2019	Smart Innovation, Systems and Technologies	16	2.08	Charles, A., Bassan, P.M., Mueller, T. and 2 more (...) (2019).On the assessment of thermo-mechanical degradability of multi-recycled ABS polymer for 3D printing applications. Smart Innovation, Systems and Technologies,155363-373	https://www.scopus.com/record/display.url?eid=2-s2.0-85069444498&origin=resultslist	10.1007/978-981-13-9271-9_30	2-s2.0-85069444498

Energy Management of Microgrids Using Load Shifting and Multi-agent System	Abdelsalam, A.A.| Zedan, H.A.| ElDesouky, A.A.	2020	Journal of Control, Automation and Electrical Systems	16	0.95	Abdelsalam, A.A., Zedan, H.A., ElDesouky, A.A. (2020).Energy Management of Microgrids Using Load Shifting and Multi-agent System. Journal of Control, Automation and Electrical Systems,31(4) 1015-1036	https://www.scopus.com/record/display.uri?eid=2-s2.0-85084070325&origin=resultslist	10.1007/s40313-020-00593-w	2-s2.0-85084070325
Towards an adaptive design of quality, productivity and economic aspects when machining aisi 4340 steel with wiper inserts	Abbas, A.T.| Abubakr, M.| Elkaseer, A.| Rayes, M.M.E.| Mohammed, M.L.| Hegab, H.	2020	IEEE Access	15	1.07	Abbas, A.T., Abubakr, M., Elkaseer, A. and 3 more (...) (2020).Towards an adaptive design of quality, productivity and economic aspects when machining aisi 4340 steel with wiper inserts. IEEE Access,8159206-159219	https://www.scopus.com/record/display.uri?eid=2-s2.0-85096424027&origin=resultslist	10.1109/ACCESS.2020.3020623	2-s2.0-85096424027
In-process digital monitoring of additive manufacturing: Proposed machine learning approach and potential implications on sustainability	Charles, A.| Salem, M.| Moshiri, M.| Elkaseer, A.| Scholz, S.G.	2021	Smart Innovation, Systems and Technologies	14	3.85	Charles, A., Salem, M., Moshiri, M. and 2 more (...) (2021).In-process digital monitoring of additive manufacturing: Proposed machine learning approach and potential implications on sustainability. Smart Innovation, Systems and Technologies,200297-306	https://www.scopus.com/record/display.uri?eid=2-s2.0-85091519828&origin=resultslist	10.1007/978-981-15-8131-1_27	2-s2.0-85091519828
Fundamental investigation into tool wear and surface quality in high-speed machining of Ti6Al4V alloy	Abbas, A.T.| Al Bahkali, E.A.| Alqahtani, S.M.| Abdelnasser, E.| Naeim, N.| Elkaseer, A.	2021	Materials	14	1.02	Abbas, A.T., Al Bahkali, E.A., Alqahtani, S.M. and 3 more (...) (2021).Fundamental investigation into tool wear and surface quality in high-speed machining of Ti6Al4V alloy. Materials,14(23)	https://www.scopus.com/record/display.uri?eid=2-s2.0-85120037603&origin=resultslist	10.3390/ma14237128	2-s2.0-85120037603
Investigating the role of the urban environment in controlling pandemics transmission: Lessons from history	Hussein, H.A.A.	2022	Ain Shams Engineering Journal	13	0.63	Hussein, H.A.A. (2022).Investigating the role of the urban environment in controlling pandemics transmission: Lessons from history. Ain Shams Engineering Journal,13(6)	https://www.scopus.com/record/display.uri?eid=2-s2.0-85127754416&origin=resultslist	10.1016/j.asej.2022.101785	2-s2.0-85127754416

Handover Performance Improvement in Heterogeneous Wireless Network	Ezz-Eldien, N.A.| Abdelkader, M.F.| Abdalla, M.I.| Abdel-Atty, H.M.	2020	11th Annual IEEE Information Technology, Electronics and Mobile Communication Conference, IEMCON 2020	13	1.74	Ezz-Eldien, N.A., Abdelkader, M.F., Abdalla, M.I. and 1 more (...) (2020).Handover Performance Improvement in Heterogeneous Wireless Network. 11th Annual IEEE Information Technology, Electronics and Mobile Communication Conference, IEMCON 2020,821-830	https://www.scopus.com/record/display.url?eid=2-s2.0-85099284344&origin=resultslist	10.1109/IEMCON51383.2020.9284906	2-s2.0-85099284344
Experimental Investigation and Optimization of Turning Polymers Using RSM, GA, Hybrid FFD-GA, and MOGA Methods	Alateyah, A.I.| El-Taybany, Y.| El-Sanabary, S.| El-Garaihy, W.H.| Kouta, H.	2022	Polymers	11	1.08	Alateyah, A.I., El-Taybany, Y., El-Sanabary, S. and 2 more (...) (2022).Experimental Investigation and Optimization of Turning Polymers Using RSM, GA, Hybrid FFD-GA, and MOGA Methods. Polymers,14(17)	https://www.scopus.com/record/display.url?eid=2-s2.0-85137759048&origin=resultslist	10.3390/polym14173585	2-s2.0-85137759048
The Moderating Role of Digital Environmental Management Accounting in the Relationship between Eco-Efficiency and Corporate Sustainability	Abdelhalim, A.M.| Ibrahim, N.| Alomair, M.	2023	Sustainability (Switzerland)	11	2.46	Abdelhalim, A.M., Ibrahim, N., Alomair, M. (2023).The Moderating Role of Digital Environmental Management Accounting in the Relationship between Eco-Efficiency and Corporate Sustainability. Sustainability (Switzerland),15(9)	https://www.scopus.com/record/display.url?eid=2-s2.0-85159326871&origin=resultslist	10.3390/su15097052	2-s2.0-85159326871
Experimental Investigation of Surface Roughness and Material Removal Rate in Wire EDM of Stainless Steel 304	Naeim, N.| AbouEleaz, M.A.| Elkaseer, A.	2023	Materials	11	2.2	Naeim, N., AbouEleaz, M.A., Elkaseer, A. (2023).Experimental Investigation of Surface Roughness and Material Removal Rate in Wire EDM of Stainless Steel 304. Materials,16(3)	https://www.scopus.com/record/display.url?eid=2-s2.0-85147847955&origin=resultslist	10.3390/ma16031022	2-s2.0-85147847955

Influences of greenly synthesized iron oxide nanoparticles on the bioremediation of dairy effluent using selected microbial isolates	Salama, A.M.| Abedin, R.M.A.| Elwakeel, K.Z.	2022	International Journal of Environmental Science and Technology	10	1.11	Salama, A.M., Abedin, R.M.A., Elwakeel, K.Z. (2022).Influences of greenly synthesized iron oxide nanoparticles on the bioremediation of dairy effluent using selected microbial isolates. International Journal of Environmental Science and Technology,19(8) 7019-7030	https://www.scopus.com/record/display.url?eid=2-s2.0-85114432697&origin=resultslist	10.1007/s13762-021-03625-3	2-s2.0-85114432697
Multiobjective Optimization of Laser Polishing of Additively Manufactured Ti-6Al-4V Parts for Minimum Surface Roughness and Heat-Affected Zone	Solheid, J.S.| Elkaseer, A.| Wunsch, T.| Scholz, S.| Seifert, H.J.| Pfleging, W.	2022	Materials	10	1.09	Solheid, J.S., Elkaseer, A., Wunsch, T. and 3 more (...) (2022).Multiobjective Optimization of Laser Polishing of Additively Manufactured Ti-6Al-4V Parts for Minimum Surface Roughness and Heat-Affected Zone. Materials,15(9)	https://www.scopus.com/record/display.url?eid=2-s2.0-85130638035&origin=resultslist	10.3390/ma15093323	2-s2.0-85130638035
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.	2022	Environmental Chemistry Letters	10	17.12	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)	https://www.scopus.com/record/display.url?eid=2-s2.0-85127429321&origin=resultslist	10.1007/s10311-022-01432-x	2-s2.0-85127429321
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.	2023	Water (Switzerland)	10	2.8	Kulikova, Y., Klementev, S., Sirotkin, A. and 5 more (...) (2023).Aqueous Phase from Hydrothermal Liquefaction: Composition and Toxicity Assessment. Water (Switzerland),15(9)	https://www.scopus.com/record/display.url?eid=2-s2.0-85159372607&origin=resultslist	10.3390/w15091681	2-s2.0-85159372607

Development and validation of eco-friendly micellar HPLC method for the simultaneous determination of hydrochlorothiazide and valsartan in bulk powder and pharmaceutical dosage forms	Ayad, M.M.| Hosny, M.M.| Ibrahim, A.E.| El-Abassy, O.M.| Belal, F.F.	2020	Journal of the Iranian Chemical Society	9	0.32	Ayad, M.M., Hosny, M.M., Ibrahim, A.E. and 2 more (...) (2020).Development and validation of eco-friendly micellar HPLC method for the simultaneous determination of hydrochlorothiazide and valsartan in bulk powder and pharmaceutical dosage forms. Journal of the Iranian Chemical Society,17(7) 1725-1730	https://www.scopus.com/record/display.uri?eid=2-s2.0-85081690503&origin=resultslist	10.1007/s13738-020-01897-z	2-s2.0-85081690503
Total cost of ownership for different state of the art FDM machines (3D printers)	Fauth, J.| Elkaseer, A.| Scholz, S.G.	2019	Smart Innovation, Systems and Technologies	9	1.56	Fauth, J., Elkaseer, A., Scholz, S.G. (2019).Total cost of ownership for different state of the art FDM machines (3D printers). Smart Innovation, Systems and Technologies,155351-361	https://www.scopus.com/record/display.uri?eid=2-s2.0-85069478892&origin=resultslist	10.1007/978-981-13-9271-9_29	2-s2.0-85069478892
A conceptual efficient design of energy recovery systems using a new energy-area key parameter	Alhajri, I.H.| Gadalla, M.A.| Elazab, H.A.	2021	Energy Reports	9	0.48	Alhajri, I.H., Gadalla, M.A., Elazab, H.A. (2021).A conceptual efficient design of energy recovery systems using a new energy-area key parameter. Energy Reports,71079-1090	https://www.scopus.com/record/display.uri?eid=2-s2.0-85097899067&origin=resultslist	10.1016/j.egyr.2020.12.023	2-s2.0-85097899067
Efficient energy and completion time for dependent task computation offloading algorithm in industry 4.0	Abdel-Kader, R.F.| El-Sayad, N.E.| Rizk, R.Y.	2021	PLoS ONE	8	0.45	Abdel-Kader, R.F., El-Sayad, N.E., Rizk, R.Y. (2021).Efficient energy and completion time for dependent task computation offloading algorithm in industry 4.0. PLoS ONE,16(6)	https://www.scopus.com/record/display.uri?eid=2-s2.0-85107444665&origin=resultslist	10.1371/journal.pone.0252756	2-s2.0-85107444665

Effect of process parameters on surface texture generated by laser polishing of additively manufactured Ti-6Al-4V	Solheid, J.S.| Elkaseer, A.| Wunsch, T.| Charles, A.P.| Seifert, H.J.| Pfleging, W.	2020	Proceedings of SPIE - The International Society for Optical Engineering	8	2.76	Solheid, J.S., Elkaseer, A., Wunsch, T. and 3 more (...) (2020).Effect of process parameters on surface texture generated by laser polishing of additively manufactured Ti-6Al-4V. Proceedings of SPIE - The International Society for Optical Engineering,11268	https://www.scopus.com/record/display.url?eid=2-s2.0-85085150253&origin=resultslist	10.1117/12.2545623	2-s2.0-85085150253
An Experimental Study of Indoor Air Quality Enhancement Using Breathing Walls	Elgheznawy, D.| El Enein, O.A.| Shalaby, G.| Seif, A.	2022	Civil Engineering and Architecture	7	1.05	Elgheznawy, D., El Enein, O.A., Shalaby, G. and 1 more (...) (2022).An Experimental Study of Indoor Air Quality Enhancement Using Breathing Walls. Civil Engineering and Architecture,10(1) 194-209	https://www.scopus.com/record/display.url?eid=2-s2.0-85136977131&origin=resultslist	10.13189/cea.2022.100117	2-s2.0-85136977131
Solidification of Alum Industry Waste for Producing Geopolymer Mortar	Abdelmawla, M.| Abdelaal, A.| Beheary, M.S.| Abdullah, N.A.| Razek, T.M.A.	2020	Egyptian Journal of Chemistry	6	0.29	Abdelmawla, M., Abdelaal, A., Beheary, M.S. and 2 more (...) (2020).Solidification of Alum Industry Waste for Producing Geopolymer Mortar. Egyptian Journal of Chemistry,63(11) 4285-4294	https://www.scopus.com/record/display.url?eid=2-s2.0-85097167230&origin=resultslist	10.21608/EJCHEM.2020.25720.2504	2-s2.0-85097167230
Synthesis and application of a novel self-smart sensor based on a modified amino-functionalized Zr-metal–organic framework for rapid and selective detection of some toxic metals in wastewater	El-Bindary, M.A.| Shahat, A.| El-Deen, I.M.| El-Afify, M.A.M.| Hassan, N.	2023	Applied Organometallic Chemistry	6	1.21	El-Bindary, M.A., Shahat, A., El-Deen, I.M. and 2 more (...) (2023).Synthesis and application of a novel self-smart sensor based on a modified amino-functionalized Zr-metal–organic framework for rapid and selective detection of some toxic metals in wastewater. Applied Organometallic Chemistry,37(4)	https://www.scopus.com/record/display.url?eid=2-s2.0-85147504692&origin=resultslist	10.1002/aoc.7029	2-s2.0-85147504692

Two Eco-Friendly Chromatographic Methods Evaluated by GAPI for Simultaneous Determination of the Fluoroquinolones Moxifloxacin, Levofloxacin, and Gemifloxacin in Their Pharmaceutical Products	Abdel Hameed, E.A.| Abd El-Naby, Z.A.| El Gindy, A.| Saraya, R.E.| Al balawi, A.N.| Zaitone, S.A.| Khairy, G.M.	2022	Separations	6	0.48	Abdel Hameed, E.A., Abd El-Naby, Z.A., El Gindy, A. and 4 more (...) (2022).Two Eco-Friendly Chromatographic Methods Evaluated by GAPI for Simultaneous Determination of the Fluoroquinolones Moxifloxacin, Levofloxacin, and Gemifloxacin in Their Pharmaceutical Products. Separations,9(11)	https://www.scopus.com/record/display.url?eid=2-s2.0-85141810772&origin=resultslist	10.3390/separations9110330	2-s2.0-85141810772
Enhancing urban resilience in hot humid climates: A conceptual framework for exploring the environmental performance of vertical greening systems (VGS)	Gamal, A.| Eleinen, O.A.| Eltarabily, S.| Elgheznawy, D.	2023	Frontiers of Architectural Research	5	1.44	Gamal, A., Eleinen, O.A., Eltarabily, S. and 1 more (...) (2023).Enhancing urban resilience in hot humid climates: A conceptual framework for exploring the environmental performance of vertical greening systems (VGS). Frontiers of Architectural Research,12(6) 1260-1284	https://www.scopus.com/record/display.url?eid=2-s2.0-85177549941&origin=resultslist	10.1016/j.foar.2023.09.003	2-s2.0-85177549941
Impact of nonplanar 3d printing on surface roughness and build time in fused filament fabrication	Elkaseer, A.| Müller, T.| Rabsch, D.| Scholz, S.G.	2021	Smart Innovation, Systems and Technologies	5	1.37	Elkaseer, A., Müller, T., Rabsch, D. and 1 more (...) (2021).Impact of nonplanar 3d printing on surface roughness and build time in fused filament fabrication. Smart Innovation, Systems and Technologies,200285-295	https://www.scopus.com/record/display.url?eid=2-s2.0-85091507115&origin=resultslist	10.1007/978-981-15-8131-1_26	2-s2.0-85091507115
Sonochemical degradation of benzothiophene (BT) in deionized water, natural water and sea water	Al-Zaydi, K.M.| Petrier, C.| Mousally, S.M.M.| Arab, S.T.| Refat, M.S.	2019	Molecules	5	0.25	Al-Zaydi, K.M., Petrier, C., Mousally, S.M.M. and 2 more (...) (2019).Sonochemical degradation of benzothiophene (BT) in deionized water, natural water and sea water. Molecules,24(2)	https://www.scopus.com/record/display.url?eid=2-s2.0-85059901217&origin=resultslist	10.3390/molecules24020257	2-s2.0-85059901217

Vehicle-Mounted Fog-Node with LoRaWAN for Rural Data Collection	Sobhi, S.| Elzanaty, A.| Ghuniem, A.M.| Abdelkader, M.F.	2022	IEEE International Symposium on Personal, Indoor and Mobile Radio Communications, PIMRC	5	2.4	Sobhi, S., Elzanaty, A., Ghuniem, A.M. and 1 more (...) (2022).Vehicle-Mounted Fog-Node with LoRaWAN for Rural Data Collection. IEEE International Symposium on Personal, Indoor and Mobile Radio Communications, PIMRC,2022-1438-1444	https://www.scopus.com/record/display.url?eid=2-s2.0-85145659121&origin=resultslist	10.1109/PIMRC54779.2022.9977546	2-s2.0-85145659121
Assessing Xeriscaping as a Retrofit Sustainable Water Consumption Approach for a Desert University Campus	Ismaeil, E.M.H.| Sobaih, A.E.E.	2022	Water (Switzerland)	4	0.57	Ismaeil, E.M.H., Sobaih, A.E.E. (2022).Assessing Xeriscaping as a Retrofit Sustainable Water Consumption Approach for a Desert University Campus. Water (Switzerland),14(11)	https://www.scopus.com/record/display.url?eid=2-s2.0-85131559735&origin=resultslist	10.3390/w14111681	2-s2.0-85131559735
Development of an Efficient Prediction Model for Optimal Design of Serial Production Lines	Alkhalefah, H.| Qudeiri, J.E.A.| Umer, U.| Abidi, M.H.| Elkaseer, A.	2021	IEEE Access	4	0.31	Alkhalefah, H., Qudeiri, J.E.A., Umer, U. and 2 more (...) (2021).Development of an Efficient Prediction Model for Optimal Design of Serial Production Lines. IEEE Access,961807-61818	https://www.scopus.com/record/display.url?eid=2-s2.0-85104656633&origin=resultslist	10.1109/ACCESS.2021.3074356	2-s2.0-85104656633
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.	2022	Proceedings of ASME 2022 16th International Conference on Energy Sustainability, ES 2022	3	2.07	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,	https://www.scopus.com/record/display.url?eid=2-s2.0-85140788437&origin=resultslist	10.1115/ES2022-85533	2-s2.0-85140788437

Laser ablation of cobalt-bound tungsten carbide and aluminium oxide ceramic: experimental investigation with ANN modelling and GA optimisation	Elkaseer, A.| Lambarri, J.| Quintana, I.| Scholz, S.	2019	Smart Innovation, Systems and Technologies	3	0.78	Elkaseer, A., Lambarri, J., Quintana, I. and 1 more (...) (2019).Laser ablation of cobalt-bound tungsten carbide and aluminium oxide ceramic: experimental investigation with ANN modelling and GA optimisation. Smart Innovation, Systems and Technologies,13021-30	https://www.scopus.com/record/display.url?eid=2-s2.0-85059088065&origin=resultslist	10.1007/978-3-030-04290-5_3	2-s2.0-85059088065
Gas-tight means zero defects - design considerations for thin-walled fluidic devices with overhangs by laser powder bed fusion	Grinschek, F.| Charles, A.| Elkaseer, A.| Klahn, C.| Scholz, S.G.| Dittmeyer, R.	2022	Materials and Design	3	0.3	Grinschek, F., Charles, A., Elkaseer, A. and 3 more (...) (2022).Gas-tight means zero defects - design considerations for thin-walled fluidic devices with overhangs by laser powder bed fusion. Materials and Design,223	https://www.scopus.com/record/display.url?eid=2-s2.0-85138464374&origin=resultslist	10.1016/j.matdes.2022.111174	2-s2.0-85138464374
Vision system-based inspection and alignment of laminated polymer films for 3D-Integration of microsystems	Elkaseer, A.| Salem, M.| Hagenmeyer, V.| Scholz, S.	2019	IFAC-PapersOnLine	3	0.28	Elkaseer, A., Salem, M., Hagenmeyer, V. and 1 more (...) (2019).Vision system-based inspection and alignment of laminated polymer films for 3D-Integration of microsystems. IFAC-PapersOnLine,52(15) 13-18	https://www.scopus.com/record/display.url?eid=2-s2.0-85077496852&origin=resultslist	10.1016/j.ifacol.2019.11.642	2-s2.0-85077496852
Correlation between Polyaromatic Hydrocarbons (PAHs) Discharges at El-Manzala Wetland with the Relative Gene Expression of CYP19 Gene of the Nile Tilapia (Oreochromis. niloticus)	El-Kady, M.A.H.| Mansour, H.A.A.| Abu Almaaty, A.H.	2022	Egyptian Journal of Aquatic Biology and Fisheries	3	0.55	El-Kady, M.A.H., Mansour, H.A.A., Abu Almaaty, A.H. (2022).Correlation between Polyaromatic Hydrocarbons (PAHs) Discharges at El-Manzala Wetland with the Relative Gene Expression of CYP19 Gene of the Nile Tilapia (Oreochromis. niloticus). Egyptian Journal of Aquatic Biology and Fisheries,26(4) 395-407	https://www.scopus.com/record/display.url?eid=2-s2.0-85134760503&origin=resultslist	10.21608/ejabf.2022.250854	2-s2.0-85134760503

A Low-Cost Multi-sensor Deep Learning System for Pavement Distress Detection and Severity Classification	Hedeya, M.A.| Samir, E.| El-Sayed, E.| El-Sharkawy, A.A.| Abdel-Kader, M.F.| Moussa, A.| Abdel-Kader, R.F.	2022	Lecture Notes on Data Engineering and Communications Technologies	2	1.08	Hedeya, M.A., Samir, E., El-Sayed, E. and 4 more (...) (2022).A Low-Cost Multi-sensor Deep Learning System for Pavement Distress Detection and Severity Classification. Lecture Notes on Data Engineering and Communications Technologies,11321-33	https://www.scopus.com/record/display.url?eid=2-s2.0-85128645608&origin=resultslist	10.1007/978-3-031-03918-8_3	2-s2.0-85128645608
Predicting Forced Blower Failures Using Machine Learning Algorithms and Vibration Data for Effective Maintenance Strategies	Salem, K.| AbdelGwad, E.| Kouta, H.	2023	Journal of Failure Analysis and Prevention	2	0.38	Salem, K., AbdelGwad, E., Kouta, H. (2023).Predicting Forced Blower Failures Using Machine Learning Algorithms and Vibration Data for Effective Maintenance Strategies. Journal of Failure Analysis and Prevention,23(5) 2191-2203	https://www.scopus.com/record/display.url?eid=2-s2.0-85171426433&origin=resultslist	10.1007/s11668-023-01765-x	2-s2.0-85171426433
Efficient Noise Reduction System in Industrial IoT Data Streams	Abdel-Kader, R.F.| El-Sayad, N.E.| Rizk, R.Y.	2022	Lecture Notes on Data Engineering and Communications Technologies	2	1.08	Abdel-Kader, R.F., El-Sayad, N.E., Rizk, R.Y. (2022).Efficient Noise Reduction System in Industrial IoT Data Streams. Lecture Notes on Data Engineering and Communications Technologies,100219-232	https://www.scopus.com/record/display.url?eid=2-s2.0-85118976564&origin=resultslist	10.1007/978-3-030-89701-7_20	2-s2.0-85118976564
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A machine learning-based framework for efficient LTE downlink throughput	Mohammed, N.H.| Nashaat, H.| Abdel-Mageid, S.M.| Rizk, R.Y.	2021	Studies in Computational Intelligence	2	0.44	Mohammed, N.H., Nashaat, H., Abdel-Mageid, S.M. and 1 more (...) (2021).A machine learning-based framework for efficient LTE downlink throughput. Studies in Computational Intelligence,912193-218	https://www.scopus.com/record/display.url?eid=2-s2.0-85090679978&origin=resultslist	10.1007/978-3-030-51920-9_10	2-s2.0-85090679978
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Wire Electrical Discharge Machining of AISI304 and AISI316 Alloys: A Comparative Assessment of Machining Responses, Empirical Modeling and Multi-Objective Optimization	Aboueleaz, M.A.| Naeim, N.| Abdelgaliel, I.H.| Aly, M.F.| Elkaseer, A.	2023	Journal of Manufacturing and Materials Processing	1	0.19	Aboueleaz, M.A., Naeim, N., Abdelgaliel, I.H. and 2 more (...) (2023).Wire Electrical Discharge Machining of AISI304 and AISI316 Alloys: A Comparative Assessment of Machining Responses, Empirical Modeling and Multi-Objective Optimization. Journal of Manufacturing and Materials Processing,7(6)	https://www.scopus.com/record/display.url?eid=2-s2.0-85180489950&origin=resultslist	10.3390/jmmp7060194	2-s2.0-85180489950
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Computational fluid dynamics-based design of anoxic bioreactor zone in wastewater treatment plant	Amin, I.| Elsakka, M.| Oterkus, S.| Nguyen, C.T.| Ozdemir, M.| El-Aassar, A.-H.| Shawky, H.| Oterkus, E.	2022	Desalination and Water Treatment	1	0.12	Amin, I., Elsakka, M., Oterkus, S. and 5 more (...) (2022).Computational fluid dynamics-based design of anoxic bioreactor zone in wastewater treatment plant. Desalination and Water Treatment,2539-23	https://www.scopus.com/record/display.uri?eid=2-s2.0-85128953323&origin=resultslist	10.5004/dwt.2022.28300	2-s2.0-85128953323

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Sustainable transportation: An overview and fusion for the last decade	El-Bany, M.E.-S.	2021	International Journal of Engineering Research in Africa	0	0	El-Bany, M.E.-S. (2021).Sustainable transportation: An overview and fusion for the last decade. International Journal of Engineering Research in Africa,56213-228	https://www.scopus.com/record/display.uri?eid=2-s2.0-85118930568&origin=resultslist	10.4028/www.scientific.net/JERA.56.213	2-s2.0-85118930568
EXPERIMENTAL AND STATIC SIMULATION STUDY FOR ENHANCING WASTEWATER TREATMENT BY ELECTROCOAGULATION USING MAGNETIC FIELDS	Mahrouqi, J.A.| Meqbali, N.A.| Mahmoud, M.S.| Barakat, N.A.M.| Farrag, T.E.| Abdel-Aty, M.M.	2023	Environmental Engineering and Management Journal	0	0	Mahrouqi, J.A., Meqbali, N.A., Mahmoud, M.S. and 3 more (...) (2023).EXPERIMENTAL AND STATIC SIMULATION STUDY FOR ENHANCING WASTEWATER TREATMENT BY ELECTROCOAGULATION USING MAGNETIC FIELDS. Environmental Engineering and Management Journal,22(12) 2003-2018	https://www.scopus.com/record/display.uri?eid=2-s2.0-85185327759&origin=resultslist	10.30638/eemj.2023.173	2-s2.0-85185327759
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.	2023	Case Studies in Chemical and Environmental Engineering	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	https://www.scopus.com/record/display.uri?eid=2-s2.0-85173515245&origin=resultslist	10.1016/j.cscee.2023.100490	2-s2.0-85173515245

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.	2023	Proceedings of the ASME Turbo Expo	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	https://www.scopus.com/record/display.url?eid=2-s2.0-85177461441&origin=resultslist	10.1115/GT2023-103527	2-s2.0-85177461441
Graphical energy analysis and retrofit of heat exchanger network for a crude oil refinery: A case study	Kamel, D.| Gadalla, M.| Mustafa, I.| ALHajri, I.| Ashour, F.	2019	ECOS 2019 - Proceedings of the 32nd International Conference on Efficiency, Cost, Optimization, Simulation and Environmental Impact of Energy Systems	0	0	Kamel, D., Gadalla, M., Mustafa, I. and 2 more (...) (2019).Graphical energy analysis and retrofit of heat exchanger network for a crude oil refinery: A case study. ECOS 2019 - Proceedings of the 32nd International Conference on Efficiency, Cost, Optimization, Simulation and Environmental Impact of Energy Systems,2019-3883-3894	https://www.scopus.com/record/display.url?eid=2-s2.0-85083210795&origin=resultslist	-	2-s2.0-85083210795
An adaptive optimized handover decision model for heterogeneous networks	Ezz-Eldien, N.A.| Abdel-Atty, H.M.| Abdalla, M.I.| Mahmoud, K.R.| Abdelkader, M.F.	2023	PLoS ONE	0	0	Ezz-Eldien, N.A., Abdel-Atty, H.M., Abdalla, M.I. and 2 more (...) (2023).An adaptive optimized handover decision model for heterogeneous networks. PLoS ONE,18(11)	https://www.scopus.com/record/display.url?eid=2-s2.0-85177023613&origin=resultslist	10.1371/journal.pone.0294411	2-s2.0-85177023613
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.| Shedid, N.| Ahmed, D.| Elazab, H.A.	2023	Chemical Engineering Transactions	0	0	Sadek, M.A., Gadalla, M.A., Shedid, N. and 2 more (...) (2023).Simulation and Optimization of Waste Heat to Electricity through Organic Rankine Cycles (ORCs): a Case Study in an Oil Refinery. Chemical Engineering Transactions,9815-20	https://www.scopus.com/record/display.url?eid=2-s2.0-85159639247&origin=resultslist	10.3303/CET2398003	2-s2.0-85159639247

MATLAB MODEL FOR THE DESIGN OF HEAT EXCHANGER NETWORKS IN CHEMICAL PROCESSES	Hussein, M.A.| Gadalla, M.| Ahmed, D.	2022	ARPN Journal of Engineering and Applied Sciences	0	0	Hussein, M.A., Gadalla, M., Ahmed, D. (2022).MATLAB MODEL FOR THE DESIGN OF HEAT EXCHANGER NETWORKS IN CHEMICAL PROCESSES. ARPN Journal of Engineering and Applied Sciences,17(1) 2854-2863	https://www.scopus.com/record/display.url?eid=2-s2.0-85127521367&origin=resultslist	-	2-s2.0-85127521367
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.	2021	Open Chemical Engineering Journal	0	0	Gadalla, M.A., Elmasry, A., Alhajri, I. and 2 more (...) (2021).Better heat and power integration of an existing gas-oil plant in Egypt through revamping the design and organic rankine cycle. Open Chemical Engineering Journal,151-9	https://www.scopus.com/record/display.url?eid=2-s2.0-85109182162&origin=resultslist	10.2174/1874123102115010001	2-s2.0-85109182162
Part Tailoring in Metal-Additive Manufacturing: A Step towards Functionally Graded Customized Stainless-Steel Components Using Laser Powder Bed Fusion	Elkaseer, A.| Charles, A.| Schneider, S.| Scholz, S.G.	2022	Applied Sciences (Switzerland)	0	0	Elkaseer, A., Charles, A., Schneider, S. and 1 more (...) (2022).Part Tailoring in Metal-Additive Manufacturing: A Step towards Functionally Graded Customized Stainless-Steel Components Using Laser Powder Bed Fusion. Applied Sciences (Switzerland),12(12)	https://www.scopus.com/record/display.url?eid=2-s2.0-85132803423&origin=resultslist	10.3390/app12126193	2-s2.0-85132803423
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.	2022	Chemical Engineering Transactions	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	https://www.scopus.com/record/display.url?eid=2-s2.0-85139412791&origin=resultslist	10.3303/CET2294204	2-s2.0-85139412791

WASTE REDUCTION IN PIPE INDUSTRY THROUGH LEAN SIX SIGMA IMPLEMENTATION	Saleh, B.R.| El-Hadek, M.| Kouta, H.	2023	Journal of Solid Waste Technology and Management	0	0	Saleh, B.R., El-Hadek, M., Kouta, H. (2023).WASTE REDUCTION IN PIPE INDUSTRY THROUGH LEAN SIX SIGMA IMPLEMENTATION. Journal of Solid Waste Technology and Management,49(4) 408-421	https://www.scopus.com/record/display.uri?eid=2-s2.0-85183658475&origin=resultslist	10.5276/jswtm/iswmaw/494/2023.408	2-s2.0-85183658475