

Adewale Giwa

List of Publications by Year in descending order

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Version: 2024-02-01

51
papers

3,717
citations

196777

29
h-index

242451

47
g-index

51
all docs

51
docs citations

51
times ranked

4495
citing authors

#	ARTICLE	IF	CITATIONS
1	Updated review on microplastics in water, their occurrence, detection, measurement, environmental pollution, and the need for regulatory standards. <i>Environmental Pollution</i> , 2022, 292, 118421.	3.7	63
2	Recent developments in hazardous pollutants removal from wastewater and water reuse within a circular economy. <i>Npj Clean Water</i> , 2022, 5, .	3.1	101
3	Recent advances in catalytic sulfate radical-based approach for removal of emerging contaminants. <i>Journal of Hazardous Materials Advances</i> , 2022, 7, 100108.	1.2	7
4	Bio-based herding and gelling agents from cholesterol powders and suspensions in organic liquids for effective oil spill clean-up. <i>Chemical Engineering Journal Advances</i> , 2022, 12, 100357.	2.4	2
5	Recent advances in advanced oxidation processes for removal of contaminants from water: A comprehensive review. <i>Chemical Engineering Research and Design</i> , 2021, 146, 220-256.	2.7	141
6	Remediation of crude oil-contaminated saline water using novel dispersants from fish and lobster wastes. <i>Results in Engineering</i> , 2021, 10, 100236.	2.2	8
7	Life cycle assessment of bioplastic production from whey protein obtained from dairy residues. <i>Bioresource Technology Reports</i> , 2021, 15, 100695.	1.5	23
8	Effective nutrient removal and metabolite accumulation by <i>C. vulgaris</i> cultivated using digested food waste and brine. <i>Environmental Technology and Innovation</i> , 2021, 24, 101935.	3.0	6
9	Biodiesel production from <i>Nannochloropsis gaditana</i> using supercritical CO ₂ for lipid extraction and immobilized lipase transesterification: Economic and environmental impact assessments. <i>Fuel Processing Technology</i> , 2020, 198, 106249.	3.7	51
10	Electro-osmotic thermal process model for performance enhancement of forward osmosis integrated with membrane distillation. <i>Separation and Purification Technology</i> , 2020, 238, 116494.	3.9	17
11	The global status of desalination: An assessment of current desalination technologies, plants and capacity. <i>Desalination</i> , 2020, 495, 114633.	4.0	234
12	Improving the economic feasibility of biodiesel production from microalgal biomass via high-value products coproduction. <i>International Journal of Energy Research</i> , 2020, 44, 11453-11472.	2.2	22
13	Polygeneration in desalination by photovoltaic thermal systems: A comprehensive review. <i>Renewable and Sustainable Energy Reviews</i> , 2020, 130, 109946.	8.2	36
14	Dispersion-Sorption Balance (DSB) of Pickering emulsions of polydopamine-polyethylenimine-modified activated carbon for oil spill treatment. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 103950.	3.3	9
15	Novel polyethersulfone-functionalized graphene oxide (PES-fGO) mixed matrix membranes for wastewater treatment. <i>Separation and Purification Technology</i> , 2020, 241, 116735.	3.9	44
16	A review of emerging trends in membrane science and technology for sustainable water treatment. <i>Journal of Cleaner Production</i> , 2020, 266, 121867.	4.6	175
17	Membrane bioreactors and electrochemical processes for treatment of wastewaters containing heavy metal ions, organics, micropollutants and dyes: Recent developments. <i>Journal of Hazardous Materials</i> , 2019, 370, 172-195.	6.5	109
18	CO ₂ utilization from power plant: A comparative techno-economic assessment of soda ash production and scrubbing by monoethanolamine. <i>Journal of Cleaner Production</i> , 2019, 237, 117760.	4.6	21

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19	Sorption and removal of crude oil spills from seawater using peat-derived biochar: An optimization study. <i>Journal of Environmental Management</i> , 2019, 250, 109465.	3.8	43
20	Combined process of electrically-membrane bioreactor and TiO ₂ aerogel filtration for efficient wastewater treatment. <i>Journal of Water Process Engineering</i> , 2019, 28, 107-114.	2.6	16
21	Pyrolysis of date palm waste to biochar using concentrated solar thermal energy: Economic and sustainability implications. <i>Waste Management</i> , 2019, 93, 14-22.	3.7	36
22	3D printing and surface imprinting technologies for water treatment: A review. <i>Journal of Water Process Engineering</i> , 2019, 31, 100786.	2.6	55
23	Full-Scale Membrane Distillation Systems and Performance Improvement Through Modeling. , 2019, , 105-140.		3
24	Integrating Pressure Retarded Osmosis and Membrane Distillation. , 2019, , 351-363.		0
25	Polymers for Membrane Filtration in Water Purification. <i>Springer Series on Polymer and Composite Materials</i> , 2019, , 167-190.	0.5	16
26	Selectivity of Nanoporous MnO ₂ and TiO ₂ Membranes for Residual Contaminants in Treated Wastewater. <i>Chemical Engineering and Technology</i> , 2018, 41, 413-420.	0.9	8
27	Novel graphene nanoplatelets-coated polyethylene membrane for the treatment of reject brine by pilot-scale direct contact membrane distillation: An optimization study. <i>Desalination</i> , 2018, 441, 9-20.	4.0	28
28	Techno-economic assessment of the sustainability of an integrated biorefinery from microalgae and <i>Jatropha</i> : A review and case study. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 88, 239-257.	8.2	80
29	Novel thermosiphon-powered reverse osmosis: Techno-economic model for renewable energy and fresh water recovery. <i>Desalination</i> , 2018, 435, 152-160.	4.0	18
30	Nucleophilic-functionalized β -cyclodextrin-polyethersulfone structures from facile lamination process as nanoporous membrane active layers for wastewater post-treatment: Molecular implications. <i>Journal of Membrane Science</i> , 2018, 563, 914-925.	4.1	14
31	Environmental Impact and Technoeconomic Analysis of Hybrid MSF/RO Desalination: The Case Study of Al Taweelah A2 Plant. , 2018, , 55-97.		4
32	Comparative cradle-to-grave life cycle assessment of biogas production from marine algae and cattle manure biorefineries. <i>Bioresource Technology</i> , 2017, 244, 1470-1479.	4.8	43
33	Brine management methods: Recent innovations and current status. <i>Desalination</i> , 2017, 407, 1-23.	4.0	232
34	Introducing membrane specie permeability coefficient and economic assessment of polycomposite membrane bioreactor integrated with electric field. <i>Journal of Water Process Engineering</i> , 2017, 19, 338-345.	2.6	7
35	An investigation of the feasibility of proposed solutions for water sustainability and security in water-stressed environment. <i>Journal of Cleaner Production</i> , 2017, 165, 721-733.	4.6	34
36	Nanoporous hollow fiber polyethersulfone membranes for the removal of residual contaminants from treated wastewater effluent: Functional and molecular implications. <i>Separation and Purification Technology</i> , 2017, 189, 20-31.	3.9	25

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37	Biomimetic membranes: A critical review of recent progress. <i>Desalination</i> , 2017, 420, 403-424.	4.0	100
38	A comprehensive review on biomass and solar energy for sustainable energy generation in Nigeria. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 69, 620-641.	8.2	132
39	Experimental investigation and artificial neural networks ANNs modeling of electrically-enhanced membrane bioreactor for wastewater treatment. <i>Journal of Water Process Engineering</i> , 2016, 11, 88-97.	2.6	95
40	Principles and applications of direct contact membrane distillation (DCMD): A comprehensive review. <i>Desalination</i> , 2016, 398, 222-246.	4.0	292
41	A critical review on recent polymeric and nano-enhanced membranes for reverse osmosis. <i>RSC Advances</i> , 2016, 6, 8134-8163.	1.7	107
42	Leaching of PVP from PVDF/PVP blend membranes: impacts on membrane structure and fouling in membrane bioreactors. <i>Journal of Materials Science</i> , 2016, 51, 4328-4341.	1.7	54
43	Recent advances in humidification dehumidification (HDH) desalination processes: Improved designs and productivity. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 57, 929-944.	8.2	113
44	Humidification-dehumidification desalination process driven by photovoltaic thermal energy recovery (PV-HDH) for small-scale sustainable water and power production. <i>Desalination</i> , 2016, 377, 163-171.	4.0	97
45	Recent advancements in forward osmosis desalination: A review. <i>Chemical Engineering Journal</i> , 2015, 281, 502-522.	6.6	367
46	Recent improvements in oily wastewater treatment: Progress, challenges, and future opportunities. <i>Journal of Environmental Sciences</i> , 2015, 37, 15-30.	3.2	303
47	Theoretical investigation of the influence of operating conditions on the treatment performance of an electrically-induced membrane bioreactor. <i>Journal of Water Process Engineering</i> , 2015, 6, 72-82.	2.6	32
48	Recent applications of nanomaterials in water desalination: A critical review and future opportunities. <i>Desalination</i> , 2015, 367, 37-48.	4.0	218
49	Enhanced sludge properties and distribution study of sludge components in electrically-enhanced membrane bioreactor. <i>Journal of Environmental Management</i> , 2015, 159, 78-85.	3.8	53
50	Numerical modeling of an electrically enhanced membrane bioreactor (MBER) treating medium-strength wastewater. <i>Journal of Environmental Management</i> , 2015, 164, 1-9.	3.8	23
51	Multivariable statistical analysis for enhancing performance indicators in direct contact membrane distillation. , 0, 113, 45-56.		0