

# Adewale Giwa

## List of Publications by Year in descending order

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Version: 2024-02-01

51  
papers

3,717  
citations

172457

29  
h-index

214800

47  
g-index

51  
all docs

51  
docs citations

51  
times ranked

3956  
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent advancements in forward osmosis desalination: A review. <i>Chemical Engineering Journal</i> , 2015, 281, 502-522.	12.7	367
2	Recent improvements in oily wastewater treatment: Progress, challenges, and future opportunities. <i>Journal of Environmental Sciences</i> , 2015, 37, 15-30.	6.1	303
3	Principles and applications of direct contact membrane distillation (DCMD): A comprehensive review. <i>Desalination</i> , 2016, 398, 222-246.	8.2	292
4	The global status of desalination: An assessment of current desalination technologies, plants and capacity. <i>Desalination</i> , 2020, 495, 114633.	8.2	234
5	Brine management methods: Recent innovations and current status. <i>Desalination</i> , 2017, 407, 1-23.	8.2	232
6	Recent applications of nanomaterials in water desalination: A critical review and future opportunities. <i>Desalination</i> , 2015, 367, 37-48.	8.2	218
7	A review of emerging trends in membrane science and technology for sustainable water treatment. <i>Journal of Cleaner Production</i> , 2020, 266, 121867.	9.3	175
8	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.	5.6	141
9	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.	16.4	132
10	Recent advances in humidification dehumidification (HDH) desalination processes: Improved designs and productivity. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 57, 929-944.	16.4	113
11	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.	12.4	109
12	A critical review on recent polymeric and nano-enhanced membranes for reverse osmosis. <i>RSC Advances</i> , 2016, 6, 8134-8163.	3.6	107
13	Recent developments in hazardous pollutants removal from wastewater and water reuse within a circular economy. <i>Npj Clean Water</i> , 2022, 5, .	8.0	101
14	Biomimetic membranes: A critical review of recent progress. <i>Desalination</i> , 2017, 420, 403-424.	8.2	100
15	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.	8.2	97
16	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.	5.6	95
17	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.	16.4	80
18	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.	7.5	63

#	ARTICLE	IF	CITATIONS
19	3D printing and surface imprinting technologies for water treatment: A review. <i>Journal of Water Process Engineering</i> , 2019, 31, 100786.	5.6	55
20	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.	3.7	54
21	Enhanced sludge properties and distribution study of sludge components in electrically-enhanced membrane bioreactor. <i>Journal of Environmental Management</i> , 2015, 159, 78-85.	7.8	53
22	Biodiesel production from <i>Nannochloropsis gaditana</i> using supercritical CO <sub>2</sub> for lipid extraction and immobilized lipase transesterification: Economic and environmental impact assessments. <i>Fuel Processing Technology</i> , 2020, 198, 106249.	7.2	51
23	Novel polyethersulfone-functionalized graphene oxide (PES-fGO) mixed matrix membranes for wastewater treatment. <i>Separation and Purification Technology</i> , 2020, 241, 116735.	7.9	44
24	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.	9.6	43
25	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.	7.8	43
26	Pyrolysis of date palm waste to biochar using concentrated solar thermal energy: Economic and sustainability implications. <i>Waste Management</i> , 2019, 93, 14-22.	7.4	36
27	Polygeneration in desalination by photovoltaic thermal systems: A comprehensive review. <i>Renewable and Sustainable Energy Reviews</i> , 2020, 130, 109946.	16.4	36
28	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.	9.3	34
29	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.	5.6	32
30	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.	8.2	28
31	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.	7.9	25
32	Numerical modeling of an electrically enhanced membrane bioreactor (MBER) treating medium-strength wastewater. <i>Journal of Environmental Management</i> , 2015, 164, 1-9.	7.8	23
33	Life cycle assessment of bioplastic production from whey protein obtained from dairy residues. <i>Bioresource Technology Reports</i> , 2021, 15, 100695.	2.7	23
34	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.	4.5	22
35	CO <sub>2</sub> 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.	9.3	21
36	Novel thermosiphon-powered reverse osmosis: Techno-economic model for renewable energy and fresh water recovery. <i>Desalination</i> , 2018, 435, 152-160.	8.2	18

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37	Electro-osmotic thermal process model for performance enhancement of forward osmosis integrated with membrane distillation. <i>Separation and Purification Technology</i> , 2020, 238, 116494.	7.9	17
38	Combined process of electrically-membrane bioreactor and TiO <sub>2</sub> aerogel filtration for efficient wastewater treatment. <i>Journal of Water Process Engineering</i> , 2019, 28, 107-114.	5.6	16
39	Polymers for Membrane Filtration in Water Purification. <i>Springer Series on Polymer and Composite Materials</i> , 2019, , 167-190.	0.7	16
40	Nucleophilic-functionalized $\beta$ -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.	8.2	14
41	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.	6.7	9
42	Selectivity of Nanoporous MnO <sub>2</sub> and TiO <sub>2</sub> Membranes for Residual Contaminants in Treated Wastewater. <i>Chemical Engineering and Technology</i> , 2018, 41, 413-420.	1.5	8
43	Remediation of crude oil-contaminated saline water using novel dispersants from fish and lobster wastes. <i>Results in Engineering</i> , 2021, 10, 100236.	5.1	8
44	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.	5.6	7
45	Recent advances in catalytic sulfate radical-based approach for removal of emerging contaminants. <i>Journal of Hazardous Materials Advances</i> , 2022, 7, 100108.	3.0	7
46	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.	6.1	6
47	Environmental Impact and Technoeconomic Analysis of Hybrid MSF/RO Desalination: The Case Study of Al Taweelah A2 Plant. , 2018, , 55-97.		4
48	Full-Scale Membrane Distillation Systems and Performance Improvement Through Modeling. , 2019, , 105-140.		3
49	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.	5.2	2
50	Integrating Pressure Retarded Osmosis and Membrane Distillation. , 2019, , 351-363.		0
51	Multivariable statistical analysis for enhancing performance indicators in direct contact membrane distillation. , 0, 113, 45-56.		0