

# Dahiru U Lawal

## List of Publications by Year in descending order

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26  
papers

1,393  
citations

567281

15  
h-index

580821

25  
g-index

27  
all docs

27  
docs citations

27  
times ranked

706  
citing authors

#	ARTICLE	IF	CITATIONS
1	Performance improvement of an air gap membrane distillation process with rotating fan. Applied Thermal Engineering, 2022, 204, 117964.	6.0	20
2	Enhanced performance of superhydrophobic polyvinylidene fluoride membrane with sandpaper texture for highly saline water desalination in air-gap membrane distillation. Desalination, 2022, 528, 115603.	8.2	10
3	Novel integration of a parallel-multistage direct contact membrane distillation plant with a double-effect absorption refrigeration system. Applied Energy, 2022, 323, 119572.	10.1	11
4	Investigation of heat pump-driven humidification–dehumidification desalination system with energy recovery option. Journal of Thermal Analysis and Calorimetry, 2021, 145, 3177-3194.	3.6	11
5	Integration of a MSF Desalination System with a HDH System for Brine Recovery. Sustainability, 2021, 13, 3506.	3.2	20
6	Prospects of large-scale photovoltaic-based power plants in the Kingdom of Saudi Arabia. Engineering Reports, 2021, 3, e12398.	1.7	18
7	Removal of heavy metal ions from wastewater: a comprehensive and critical review. Npj Clean Water, 2021, 4, .	8.0	511
8	Performance improvement of <scp>multi-stage</scp> flash desalination with thermal vapor compression, a practical consideration. International Journal of Energy Research, 2021, 45, 20651-20671.	4.5	8
9	Energy and Entropy Analyses of a Pilot-Scale Dual Heating HDH Desalination System. Entropy, 2021, 23, 1282.	2.2	2
10	Optimization of SiC Concentration and Process Parameters for a Wear-Resistant UHMWPE Nancocomposite. Arabian Journal for Science and Engineering, 2020, 45, 849-860.	3.0	17
11	Experimental investigation of heat pump driven humidification-dehumidification desalination system for water desalination and space conditioning. Desalination, 2020, 475, 114199.	8.2	73
12	Heat pump operated humidification-dehumidification desalination system with option of energy recovery. Separation Science and Technology, 2020, 55, 3467-3486.	2.5	20
13	Experimental and theoretical study on a heat pump driven open-air humidification dehumidification desalination system. Energy, 2020, 207, 118252.	8.8	31
14	Humidification-dehumidification desalination systems driven by thermal-based renewable and low-grade energy sources: A critical review. Renewable and Sustainable Energy Reviews, 2020, 125, 109817.	16.4	86
15	Performance evaluation of humidification-dehumidification (HDH) desalination systems with and without heat recovery options: An experimental and theoretical investigation. Desalination, 2018, 436, 161-175.	8.2	104
16	Humidification-dehumidification desalination system operated by a heat pump. Energy Conversion and Management, 2018, 161, 128-140.	9.2	113
17	Exergo-economic analysis of humidification-dehumidification (HDH) desalination systems driven by heat pump (HP). Desalination, 2018, 443, 11-25.	8.2	87
18	Heuristic Optimization Techniques for Air Gap Membrane Distillation System. Arabian Journal for Science and Engineering, 2017, 42, 1951-1965.	3.0	13

#	ARTICLE	IF	CITATIONS
19	Tribological investigations of carbon nanotube reinforced polymer (UHMWPE) nanocomposites using Taguchi methodology. Journal of Applied Polymer Science, 2016, 133, .	2.6	15
20	Application of response surface and Taguchi optimization techniques to air gap membrane distillation for water desalination – A comparative study. Desalination and Water Treatment, 2016, 57, 28513-28530.	1.0	36
21	Experimental investigation of an air gap membrane distillation unit with double-sided cooling channel. Desalination and Water Treatment, 2016, 57, 11066-11080.	1.0	17
22	Performance and Optimization of Air Gap Membrane Distillation System for Water Desalination. Arabian Journal for Science and Engineering, 2015, 40, 3627-3639.	1.1	24
23	Experimental and theoretical investigation on water desalination using air gap membrane distillation. Desalination, 2015, 376, 94-108.	8.2	94
24	Flux Prediction in Direct Contact Membrane Distillation. International Journal of Materials Mechanics and Manufacturing, 2014, 2, 302-308.	0.2	12
25	Performance of Air Gap Membrane Distillation Unit for Water Desalination. , 2014, , .		8
26	Performance assessment of a cross-flow packed-bed humidification-dehumidification (HDH) desalination system - the effect of mass extraction. , 0, 104, 28-37.		19