Dahiru U Lawal

List of Publications by Year
in descending order

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		567144	580701
26	1,393	15	25
papers	citations	h-index	g-index

27	27	27	706
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Removal of heavy metal ions from wastewater: a comprehensive and critical review. Npj Clean Water, 2021, 4, .	3.1	511
2	Humidification-dehumidification desalination system operated by a heat pump. Energy Conversion and Management, 2018, 161, 128-140.	4.4	113
3	Performance evaluation of humidification-dehumidification (HDH) desalination systems with and without heat recovery options: An experimental and theoretical investigation. Desalination, 2018, 436, 161-175.	4.0	104
4	Experimental and theoretical investigation on water desalination using air gap membrane distillation. Desalination, 2015, 376, 94-108.	4.0	94
5	Exergo-economic analysis of humidification-dehumidification (HDH) desalination systems driven by heat pump (HP). Desalination, 2018, 443, 11-25.	4.0	87
6	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.	8.2	86
7	ExperÄ±mental investigation of heat pump driven humidification-dehumidification desalination system for water desalination and space conditioning. Desalination, 2020, 475, 114199.	4.0	73
8	Application of response surface and Taguchi optimization techniques to air gap membrane distillation for water desalinationâ€"A comparative study. Desalination and Water Treatment, 2016, 57, 28513-28530.	1.0	36
9	Experimental and theoretical study on a heat pump driven open-air humidification dehumidification desalination system. Energy, 2020, 207, 118252.	4.5	31
10	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
11	Heat pump operated humidification-dehumidification desalination system with option of energy recovery. Separation Science and Technology, 2020, 55, 3467-3486.	1.3	20
12	Integration of a MSF Desalination System with a HDH System for Brine Recovery. Sustainability, 2021, 13, 3506.	1.6	20
13	Performance improvement of an air gap membrane distillation process with rotating fan. Applied Thermal Engineering, 2022, 204, 117964.	3.0	20
14	Performance assessment of a cross-flow packed-bed humidification-dehumidification (HDH) desalination system - the effect of mass extraction. , 0, 104, 28-37.		19
15	Prospects of largeâ€scale photovoltaicâ€based power plants in the Kingdom of Saudi Arabia. Engineering Reports, 2021, 3, e12398.	0.9	18
16	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
17	Optimization of SiC Concentration and Process Parameters for a Wear-Resistant UHMWPE Nancocomposite. Arabian Journal for Science and Engineering, 2020, 45, 849-860.	1.7	17
18	Tribological investigations of carbon nanotubeâ€reinforced polymer (UHMWPE) nanocomposites using Taguchi methodology. Journal of Applied Polymer Science, 2016, 133, .	1.3	15

#	Article	IF	Citations
19	Heuristic Optimization Techniques for Air Gap Membrane Distillation System. Arabian Journal for Science and Engineering, 2017, 42, 1951-1965.	1.7	13
20	Flux Prediction in Direct Contact Membrane Distillation. International Journal of Materials Mechanics and Manufacturing, 2014, 2, 302-308.	0.2	12
21	Investigation of heat pump-driven humidificationâ€“dehumidification desalination system with energy recovery option. Journal of Thermal Analysis and Calorimetry, 2021, 145, 3177-3194.	2.0	11
22	Novel integration of a parallel-multistage direct contact membrane distillation plant with a double-effect absorption refrigeration system. Applied Energy, 2022, 323, 119572.	5.1	11
23	Enhanced performance of superhydrophobic polyvinylidene fluoride membrane with sandpaper texture for highly saline water desalination in air-gap membrane distillation. Desalination, 2022, 528, 115603.	4.0	10
24	Performance of Air Gap Membrane Distillation Unit for Water Desalination. , 2014, , .		8
25	Performance improvement of <scp>multiâ€stage</scp> flash desalination with thermal vapor compression, a practical consideration. International Journal of Energy Research, 2021, 45, 20651-20671.	2.2	8
26	Energy and Entropy Analyses of a Pilot-Scale Dual Heating HDH Desalination System. Entropy, 2021, 23, 1282.	1.1	2