

Ramy H Mohammed

List of Publications by Year in descending order

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41
papers

1,695
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236925

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42
all docs

42
docs citations

42
times ranked

788
citing authors

#	ARTICLE	IF	CITATIONS
1	ANFIS-based accurate modeling of silica gel adsorption cooling cycle. Sustainable Energy Technologies and Assessments, 2022, 50, 101793.	2.7	2
2	Exergoeconomic Optimization of an Integrated Supercritical CO ₂ Power Plant and Ejector-Based Refrigeration System for Electricity and Cooling Production. Arabian Journal for Science and Engineering, 2022, 47, 9137-9149.	3.0	5
3	Indirect evaporative cooling for buildings: A comprehensive patents review. Journal of Building Engineering, 2022, 50, 104158.	3.4	9
4	Different configurations of humidification-dehumidification desalination systems: Thermal and economic assessment. Energy Conversion and Management, 2022, 258, 115470.	9.2	14
5	A comprehensive review on the chemical regeneration of biochar adsorbent for sustainable wastewater treatment. Npj Clean Water, 2022, 5, .	8.0	77
6	Novel ultrasonic dynamic vapor sorption apparatus for adsorption drying, cooling and desalination applications. Energy Reports, 2022, 8, 8798-8804.	5.1	10
7	A daily freshwater production of 50 m ³ /ton of silica gel using an adsorption-ejector combination powered by low-grade heat. Journal of Cleaner Production, 2021, 282, 124494.	9.3	25
8	Exergoeconomic and multi-objective optimization analyses of an organic Rankine cycle integrated with multi-effect desalination for electricity, cooling, heating power, and freshwater production. Energy Conversion and Management, 2021, 231, 113826.	9.2	29
9	Solar-powered ejector-based adsorption desalination system integrated with a humidification-dehumidification system. Energy Conversion and Management, 2021, 238, 114113.	9.2	42
10	Performance enhancement of adsorption cooling cycle by pyrolysis of Maxsorb III activated carbon with ammonium carbonate. International Journal of Refrigeration, 2021, 126, 210-221.	3.4	19
11	Removal of heavy metal ions from wastewater: a comprehensive and critical review. Npj Clean Water, 2021, 4, .	8.0	511
12	Pore-size engineered nanoporous silica for efficient adsorption cooling and desalination cycle. Npj Clean Water, 2021, 4, .	8.0	15
13	Experimental optimization of the cycle time and switching time of a metal organic framework adsorption desalination cycle. Energy Conversion and Management, 2021, 245, 114558.	9.2	36
14	Metal-organic frameworks in cooling and water desalination: Synthesis and application. Renewable and Sustainable Energy Reviews, 2021, 149, 111362.	16.4	39
15	Analysis of Inlet Configurations on the Microclimate Conditions of a Novel Standalone Agricultural Greenhouse for Egypt Using Computational Fluid Dynamics. Sustainability, 2021, 13, 1446.	3.2	8
16	Performance of desiccant heat exchangers with aluminum foam coated or packed with silica gel. Applied Thermal Engineering, 2020, 166, 114626.	6.0	33
17	Enhancing the thermal and economic performance of supercritical CO ₂ plant by waste heat recovery using an ejector refrigeration cycle. Energy Conversion and Management, 2020, 224, 113340.	9.2	30
18	A novel cycle for adsorption desalination system with two stages-ejector for higher water production and efficiency. Desalination, 2020, 496, 114753.	8.2	44

#	ARTICLE	IF	CITATIONS
19	Thermoeconomic assessment of an adsorption cooling/desalination cycle coupled with a water-heated humidification-dehumidification desalination unit. <i>Energy Conversion and Management</i> , 2020, 223, 113270.	9.2	52
20	A stably cross-linked ink on filter paper with 1D transport for efficient photothermal water treatment. <i>SN Applied Sciences</i> , 2020, 2, 1.	2.9	0
21	Performance improvement of supercritical carbon dioxide power cycles through its integration with bottoming heat recovery cycles and advanced heat exchanger design: A review. <i>International Journal of Energy Research</i> , 2020, 44, 7108-7135.	4.5	37
22	Enhancement of a heat sink performance using a partial shield and/or a guide plate. <i>International Journal of Heat and Mass Transfer</i> , 2019, 134, 948-958.	4.8	9
23	Productivity Improvements of Adsorption Desalination Systems. <i>Green Energy and Technology</i> , 2019, , 325-357.	0.6	13
24	Performance enhancement of adsorption beds with silica-gel particles packed in aluminum foams. <i>International Journal of Refrigeration</i> , 2019, 104, 201-212.	3.4	38
25	Assessment of numerical models in the evaluation of adsorption cooling system performance. <i>International Journal of Refrigeration</i> , 2019, 99, 166-175.	3.4	33
26	Performance modeling of MED-MVC systems: Exergy-economic analysis. <i>Energy</i> , 2019, 166, 552-568.	8.8	35
27	Transient and thermo-economic analysis of MED-MVC desalination system. <i>Energy</i> , 2019, 167, 283-296.	8.8	45
28	Performance evaluation of a new modular packed bed for adsorption cooling systems. <i>Applied Thermal Engineering</i> , 2018, 136, 293-300.	6.0	36
29	Transient performance of MED processes with different feed configurations. <i>Desalination</i> , 2018, 438, 37-53.	8.2	43
30	Physical properties and adsorption kinetics of silica-gel/water for adsorption chillers. <i>Applied Thermal Engineering</i> , 2018, 137, 368-376.	6.0	44
31	Effect of input parameters intensity and duration on dynamic performance of MED-TVC plant. <i>Applied Thermal Engineering</i> , 2018, 137, 475-486.	6.0	15
32	Revisiting the adsorption equilibrium equations of silica-gel/water for adsorption cooling applications. <i>International Journal of Refrigeration</i> , 2018, 86, 40-47.	3.4	57
33	Exergy and thermo-economic analysis for MED-TVC desalination systems. <i>Desalination</i> , 2018, 447, 29-42.	8.2	75
34	Scaling analysis of heat and mass transfer processes in an adsorption packed bed. <i>International Journal of Thermal Sciences</i> , 2018, 133, 82-89.	4.9	33
35	Effect of disturbances on MED-TVC plant characteristics: Dynamic modeling and simulation. <i>Desalination</i> , 2018, 443, 99-109.	8.2	21
36	EXPERIMENTAL AND NUMERICAL INVESTIGATION OF A NEW SILICA-GEL/WATER PACKED BED FOR ADSORPTION COOLING APPLICATIONS. , 2018, , .		3

#	ARTICLE	IF	CITATIONS
37	EFFECT OF CHANGES IN INPUT PARAMETERS ON THE OPERATION OF A MED-TVC PLANT. , 2018, , .		0
38	Novel compact bed design for adsorption cooling systems: Parametric numerical study. International Journal of Refrigeration, 2017, 80, 238-251.	3.4	46
39	A simplified method for modeling of round and square ceiling diffusers. Energy and Buildings, 2013, 64, 473-482.	6.7	31
40	Investigation of Hydraulic and Thermal Performances of Fin Array at Different Shield Positions without By-pass. Universal Journal of Engineering Science, 2013, 1, 119-125.	0.2	0
41	Experimental and numerical study of influence of air ceiling diffusers on room air flow characteristics. Energy and Buildings, 2012, 55, 738-746.	6.7	68