

# Ramy H Mohammed

## List of Publications by Year in descending order

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41  
papers

1,695  
citations

236925

25  
h-index

315739

38  
g-index

42  
all docs

42  
docs citations

42  
times ranked

788  
citing authors

#	ARTICLE	IF	CITATIONS
1	Removal of heavy metal ions from wastewater: a comprehensive and critical review. <i>Npj Clean Water</i> , 2021, 4, .	8.0	511
2	A comprehensive review on the chemical regeneration of biochar adsorbent for sustainable wastewater treatment. <i>Npj Clean Water</i> , 2022, 5, .	8.0	77
3	Exergy and thermo-economic analysis for MED-TVC desalination systems. <i>Desalination</i> , 2018, 447, 29-42.	8.2	75
4	Experimental and numerical study of influence of air ceiling diffusers on room air flow characteristics. <i>Energy and Buildings</i> , 2012, 55, 738-746.	6.7	68
5	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
6	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
7	Novel compact bed design for adsorption cooling systems: Parametric numerical study. <i>International Journal of Refrigeration</i> , 2017, 80, 238-251.	3.4	46
8	Transient and thermo-economic analysis of MED-MVC desalination system. <i>Energy</i> , 2019, 167, 283-296.	8.8	45
9	Physical properties and adsorption kinetics of silica-gel/water for adsorption chillers. <i>Applied Thermal Engineering</i> , 2018, 137, 368-376.	6.0	44
10	A novel cycle for adsorption desalination system with two stages-ejector for higher water production and efficiency. <i>Desalination</i> , 2020, 496, 114753.	8.2	44
11	Transient performance of MED processes with different feed configurations. <i>Desalination</i> , 2018, 438, 37-53.	8.2	43
12	Solar-powered ejector-based adsorption desalination system integrated with a humidification-dehumidification system. <i>Energy Conversion and Management</i> , 2021, 238, 114113.	9.2	42
13	Metal-organic frameworks in cooling and water desalination: Synthesis and application. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 149, 111362.	16.4	39
14	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
15	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
16	Performance evaluation of a new modular packed bed for adsorption cooling systems. <i>Applied Thermal Engineering</i> , 2018, 136, 293-300.	6.0	36
17	Experimental optimization of the cycle time and switching time of a metal organic framework adsorption desalination cycle. <i>Energy Conversion and Management</i> , 2021, 245, 114558.	9.2	36
18	Performance modeling of MED-MVC systems: Exergy-economic analysis. <i>Energy</i> , 2019, 166, 552-568.	8.8	35

#	ARTICLE	IF	CITATIONS
19	Scaling analysis of heat and mass transfer processes in an adsorption packed bed. International Journal of Thermal Sciences, 2018, 133, 82-89.	4.9	33
20	Assessment of numerical models in the evaluation of adsorption cooling system performance. International Journal of Refrigeration, 2019, 99, 166-175.	3.4	33
21	Performance of desiccant heat exchangers with aluminum foam coated or packed with silica gel. Applied Thermal Engineering, 2020, 166, 114626.	6.0	33
22	A simplified method for modeling of round and square ceiling diffusers. Energy and Buildings, 2013, 64, 473-482.	6.7	31
23	Enhancing the thermal and economic performance of supercritical CO2 plant by waste heat recovery using an ejector refrigeration cycle. Energy Conversion and Management, 2020, 224, 113340.	9.2	30
24	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
25	A daily freshwater production of 50 m <sup>3</sup> /ton of silica gel using an adsorption-ejector combination powered by low-grade heat. Journal of Cleaner Production, 2021, 282, 124494.	9.3	25
26	Effect of disturbances on MED-TVC plant characteristics: Dynamic modeling and simulation. Desalination, 2018, 443, 99-109.	8.2	21
27	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
28	Effect of input parameters intensity and duration on dynamic performance of MED-TVC plant. Applied Thermal Engineering, 2018, 137, 475-486.	6.0	15
29	Pore-size engineered nanoporous silica for efficient adsorption cooling and desalination cycle. Npj Clean Water, 2021, 4, .	8.0	15
30	Different configurations of humidification-dehumidification desalination systems: Thermal and economic assessment. Energy Conversion and Management, 2022, 258, 115470.	9.2	14
31	Productivity Improvements of Adsorption Desalination Systems. Green Energy and Technology, 2019, , 325-357.	0.6	13
32	Novel ultrasonic dynamic vapor sorption apparatus for adsorption drying, cooling and desalination applications. Energy Reports, 2022, 8, 8798-8804.	5.1	10
33	Enhancement of a heat sink performance using a partial shield and/or a guide plate. International Journal of Heat and Mass Transfer, 2019, 134, 948-958.	4.8	9
34	Indirect evaporative cooling for buildings: A comprehensive patents review. Journal of Building Engineering, 2022, 50, 104158.	3.4	9
35	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
36	Exergoeconomic Optimization of an Integrated Supercritical CO2 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

#	ARTICLE	IF	CITATIONS
37	EXPERIMENTAL AND NUMERICAL INVESTIGATION OF A NEW SILICA-GEL/WATER PACKED BED FOR ADSORPTION COOLING APPLICATIONS. , 2018, , .		3
38	ANFIS-based accurate modeling of silica gel adsorption cooling cycle. Sustainable Energy Technologies and Assessments, 2022, 50, 101793.	2.7	2
39	A stably cross-linked ink on filter paper with 1D transport for efficient photothermal water treatment. SN Applied Sciences, 2020, 2, 1.	2.9	0
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	EFFECT OF CHANGES IN INPUT PARAMETERS ON THE OPERATION OF A MED-TVC PLANT. , 2018, , .		0