

Omar Abdelaziz

List of Publications by Year in descending order

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Version: 2024-02-01

34
papers

1,285
citations

430874

18
h-index

414414

32
g-index

34
all docs

34
docs citations

34
times ranked

1217
citing authors

#	ARTICLE	IF	CITATIONS
1	Advances in household appliances- A review. Applied Thermal Engineering, 2011, 31, 3748-3760.	6.0	152
2	New configurations of a heat recovery absorption heat pump integrated with a natural gas boiler for boiler efficiency improvement. Energy Conversion and Management, 2014, 87, 175-184.	9.2	111
3	Thermal analysis of near-isothermal compressed gas energy storage system. Applied Energy, 2016, 179, 948-960.	10.1	97
4	Isothermal membrane-based air dehumidification: A comprehensive review. Renewable and Sustainable Energy Reviews, 2018, 82, 4060-4069.	16.4	91
5	R290 (propane) and R600a (isobutane) as natural refrigerants for residential heat pump water heaters. Applied Thermal Engineering, 2017, 127, 870-883.	6.0	83
6	State-of-the-art review on crystallization control technologies for water/LiBr absorption heat pumps. International Journal of Refrigeration, 2011, 34, 1325-1337.	3.4	81
7	R1234yf and R1234ze(E) as low-GWP refrigerants for residential heat pump water heaters. International Journal of Refrigeration, 2017, 82, 348-365.	3.4	64
8	Thermal charging performance of enhanced phase change material composites for thermal battery design. International Journal of Thermal Sciences, 2018, 127, 19-28.	4.9	63
9	Performance optimization of CO2 heat pump water heater. International Journal of Refrigeration, 2018, 85, 213-228.	3.4	60
10	Status of not-in-kind refrigeration technologies for household space conditioning, water heating and food refrigeration. International Journal of Sustainable Built Environment, 2012, 1, 85-101.	3.2	57
11	Best practices and recent advances in hydronic radiant cooling systems “ Part II: Simulation, control, and integration. Energy and Buildings, 2020, 224, 110263.	6.7	54
12	Aqueous solution of [EMIM][OAc]: Property formulations for use in air conditioning equipment design. Applied Thermal Engineering, 2017, 124, 271-278.	6.0	44
13	Thermal charging study of compressed expanded natural graphite/phase change material composites. Carbon, 2016, 109, 495-504.	10.3	40
14	Ionic liquid-based hybrid absorption cycle for water heating, dehumidification, and cooling. Applied Energy, 2017, 202, 746-754.	10.1	38
15	Endovascular management of early hepatic artery thrombosis after living donor liver transplantation. Transplant International, 2012, 25, 847-856.	1.6	36
16	Separate sensible and latent cooling technologies: A comprehensive review. Energy Conversion and Management, 2022, 256, 115380.	9.2	31
17	Simulation of air-to-refrigerant fin-and-tube heat exchanger with CFD-based air propagation. International Journal of Refrigeration, 2011, 34, 1883-1897.	3.4	28
18	Approximation-Assisted Optimization for Novel Compact Heat Exchanger Designs. HVAC and R Research, 2010, 16, 707-728.	0.6	24

#	ARTICLE	IF	CITATIONS
19	Approximation assisted optimization of headers for new generation of air-cooled heat exchangers. Applied Thermal Engineering, 2013, 61, 817-824.	6.0	19
20	Potential emission savings from refrigeration and air conditioning systems by using low GWP refrigerants. International Journal of Life Cycle Assessment, 2017, 22, 675-682.	4.7	17
21	Investigation of the stability of paraffinâ€“exfoliated graphite nanoplatelet composites for latent heat thermal storage systems. Journal of Materials Chemistry, 2012, 22, 24469.	6.7	15
22	Model-based optimizations of packaged rooftop air conditioners using low global warming potential refrigerants. International Journal of Refrigeration, 2018, 87, 106-117.	3.4	15
23	Efficiency analysis of semi-open sorption heat pump systems. Renewable Energy, 2017, 110, 95-104.	8.9	13
24	A numerical analysis of a magnetocaloric refrigerator with a 16-layer regenerator. Scientific Reports, 2017, 7, 13962.	3.3	12
25	Evaluation of flammable volume in the case of a catastrophic leak of R-32 from a rooftop unit. International Journal of Refrigeration, 2018, 91, 39-45.	3.4	8
26	Exergy analysis of electrically- and thermally-driven engines to drive heat pumps: An exhaustive comparative study. International Journal of Refrigeration, 2017, 76, 313-327.	3.4	7
27	Development and case study of the liquid desiccant system module in sorption system simulation program (SorpSim). Applied Thermal Engineering, 2019, 162, 114261.	6.0	7
28	A Hybrid Absorption Cycle for Water Heating, Dehumidification, and Evaporative Cooling. , 2015, , .		4
29	Model validations for low-global warming potential refrigerants in mini-split air-conditioning units. Science and Technology for the Built Environment, 2016, 22, 1254-1262.	1.7	4
30	Editorial: â€œOptimizationâ€“and HVAC&R. HVAC and R Research, 2008, 14, 817-818.	0.6	3
31	The impact of water flow configuration on crystallisation in LiBr/H<SUB align=right>>2O absorption water heater. International Journal of Energy Technology and Policy, 2011, 7, 393.	0.2	2
32	Optimization of Graphite Composite Latent Heat Storage Systems. , 2017, , .		2
33	A novel adaptive predictive control strategy of hybrid radiant-air cooling systems operating in desert climates. Applied Thermal Engineering, 2022, 214, 118908.	6.0	2
34	Multi-slice computed tomography imaging of the post transplant complications in the recipients after living donor liver transplantation. Egyptian Journal of Radiology and Nuclear Medicine, 2013, 44, 697-704.	0.6	1