

Ali Badiei

List of Publications by Year in descending order

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Version: 2024-02-01

21
papers

360
citations

840728

11
h-index

794568

19
g-index

21
all docs

21
docs citations

21
times ranked

212
citing authors

#	ARTICLE	IF	CITATIONS
1	A chronological review of advances in solar assisted heat pump technology in 21st century. Renewable and Sustainable Energy Reviews, 2020, 132, 110132.	16.4	49
2	Analysis of thermoelectric geometry in a concentrated photovoltaic-thermoelectric under varying weather conditions. Energy, 2020, 202, 117742.	8.8	42
3	Scientific and technological progress and future perspectives of the solar assisted heat pump (SAHP) system. Energy, 2021, 229, 120719.	8.8	41
4	Economic and environmental analysis of a novel rural house heating and cooling system using a solar-assisted vapour injection heat pump. Applied Energy, 2020, 275, 115323.	10.1	27
5	A constraint multi-objective evolutionary optimization of a state-of-the-art dew point cooler using digital twins. Energy Conversion and Management, 2020, 211, 112772.	9.2	27
6	Study on the influence of tank structure and fin configuration on heat transfer performance of phase change thermal storage system. Energy, 2021, 235, 121382.	8.8	27
7	Hourly performance forecast of a dew point cooler using explainable Artificial Intelligence and evolutionary optimisations by 2050. Applied Energy, 2021, 281, 116062.	10.1	26
8	Experimental and numerical investigation of a novel photovoltaic/thermal system using micro-channel flat loop heat pipe (PV/T-MCFLHP). International Journal of Low-Carbon Technologies, 2020, 15, 513-527.	2.6	16
9	Experimental investigation of a latent heat thermal energy storage unit encapsulated with molten salt/metal foam composite seeded with nanoparticles. Energy and Built Environment, 2023, 4, 74-85.	5.9	15
10	Experimental investigation and exergy analysis of a high concentrating photovoltaic system integrated with spray cooling. Energy Conversion and Management, 2022, 268, 115957.	9.2	15
11	Can whole building energy models outperform numerical models, when forecasting performance of indirect evaporative cooling systems?. Energy Conversion and Management, 2020, 213, 112886.	9.2	13
12	Study on the performance of a novel photovoltaic/thermal system combining photocatalytic and organic photovoltaic cells. Energy Conversion and Management, 2022, 251, 114967.	9.2	12
13	Statistical investigation of a dehumidification system performance using Gaussian process regression. Energy and Buildings, 2019, 202, 109406.	6.7	10
14	Design and analysis of a novel dual source vapor injection heat pump using exhaust and ambient air. Energy and Built Environment, 2022, 3, 95-104.	5.9	9
15	Automated dynamic thermal simulation of houses and housing stocks using readily available reduced data. Energy and Buildings, 2019, 203, 109431.	6.7	8
16	Exergy analysis of a high concentration photovoltaic and thermal system for comprehensive use of heat and electricity. Energy, 2021, 225, 120300.	8.8	8
17	Performance investigation of a micro-channel flat separated loop heat pipe system for data centre cooling. International Journal of Low-Carbon Technologies, 2021, 16, 98-113.	2.6	4
18	Wintertime indoor temperatures in social housing dwellings in England and the impact of dwelling characteristics. Energy and Buildings, 2021, 238, 110837.	6.7	4

#	ARTICLE	IF	CITATIONS
19	Experimental Analysis of a Solar Energy Storage Heat Pump System. Journal of Thermal Science, 2021, 30, 1491-1502.	1.9	3
20	Experimental analysis of defrosting and heating performance of a solar-assisted heat pump integrated phase change energy storage. International Journal of Energy Research, 2020, 44, 2173-2182.	4.5	2
21	Operational performance of a novel fast-responsive heat storage/exchanging unit (HSEU) for solar heating systems. Renewable Energy, 2020, 151, 137-151.	8.9	2