Ali Badiei

List of Publications by Year in Descending Order

20 papers	145 citations	8 h-index	11 g-index
21 ext. papers	254 ext. citations	7.8 avg, IF	3.44 L-index

#	Paper	IF	Citations
20	Study on the performance of a novel photovoltaic/thermal system combining photocatalytic and organic photovoltaic cells. *Energy Conversion and Management*, **2022**, 251, 114967	10.6	2
19	Experimental Analysis of a Solar Energy Storage Heat Pump System. *Journal of Thermal Science*, **2021**, 30, 1491-1502	1.9	1
18	Wintertime indoor temperatures in social housing dwellings in England and the impact of dwelling characteristics. *Energy and Buildings*, **2021**, 238, 110837	7	2
17	Exergy analysis of a high concentration photovoltaic and thermal system for comprehensive use of heat and electricity. *Energy*, **2021**, 225, 120300	7.9	3
16	Hourly performance forecast of a dew point cooler using explainable Artificial Intelligence and evolutionary optimisations by 2050. *Applied Energy*, **2021**, 281, 116062	10.7	13
15	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	2.8	0
14	Experimental investigation of a latent heat thermal energy storage unit encapsulated with molten salt/metal foam composite seeded with nanoparticles. *Energy and Built Environment*, **2021**,	6.3	2
13	Scientific and technological progress and future perspectives of the solar assisted heat pump (SAHP) system. *Energy*, **2021**, 229, 120719	7.9	11
12	Study on the influence of tank structure and fin configuration on heat transfer performance of phase change thermal storage system. *Energy*, **2021**, 235, 121382	7.9	5
11	Analysis of thermoelectric geometry in a concentrated photovoltaic-thermoelectric under varying weather conditions. *Energy*, **2020**, 202, 117742	7.9	21
10	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	2.8	4
9	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	10.7	10
8	Can whole building energy models outperform numerical models, when forecasting performance of indirect evaporative cooling systems?. *Energy Conversion and Management*, **2020**, 213, 112886	10.6	10
7	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	10.6	16
6	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	0
5	Operational performance of a novel fast-responsive heat storage/exchanging unit (HSEU) for solar heating systems. *Renewable Energy*, **2020**, 151, 137-151	8.1	1
4	Design and analysis of a novel dual source vapor injection heat pump using exhaust and ambient air. *Energy and Built Environment*, **2020**, 3, 95-95	6.3	4

List of Publications

3	A chronological review of advances in solar assisted heat pump technology in 21st century. *Renewable and Sustainable Energy Reviews*, **2020**, 132, 110132	16.2	23
2	Automated dynamic thermal simulation of houses and housing stocks using readily available reduced data. *Energy and Buildings*, **2019**, 203, 109431	7	6
1	Statistical investigation of a dehumidification system performance using Gaussian process regression. *Energy and Buildings*, **2019**, 202, 109406	7	9