

Shuli Liu

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

72
papers

1,796
citations

24
h-index

41
g-index

77
ext. papers

2,273
ext. citations

7.4
avg, IF

5.69
L-index

#	Paper	IF	Citations
72	Benefits of integrating phase-change material with solar chimney and earth-to-air heat exchanger system for passive ventilation and cooling in summer. <i>Journal of Energy Storage</i> , 2022 , 48, 104037	7.8	2
71	Investigation of the volume impact on cascaded latent heat storage system by coupling genetic algorithm and CFD simulation. <i>Journal of Energy Storage</i> , 2022 , 48, 104065	7.8	0
70	Investigation on the cooling performance of a buoyancy driven earth-air heat exchanger system and the impact on indoor thermal environment. <i>Applied Thermal Engineering</i> , 2022 , 207, 118148	5.8	2
69	Optical design and validation of a solar concentrating photovoltaic-thermal (CPV-T) module for building louvers. <i>Energy</i> , 2022 , 239, 122256	7.9	3
68	A dynamic method to optimize cascaded latent heat storage systems with a genetic algorithm: A case study of cylindrical concentric heat exchanger. <i>International Journal of Heat and Mass Transfer</i> , 2022 , 183, 122051	4.9	2
67	Experimental study on liquid desiccant regeneration performance of solar still and natural convective regenerators with/without mixed convection effect generated by solar chimney. <i>Energy</i> , 2022 , 239, 121919	7.9	1
66	Experimental investigation of natural ventilation characteristics of a solar chimney coupled with earth-air heat exchanger (SCEAHE) system in summer and winter. <i>Renewable Energy</i> , 2022 , 193, 1001-1018	8.1	1
65	Experimental analysis of a fin-enhanced three-tube-shell cascaded latent heat storage system. <i>Applied Thermal Engineering</i> , 2022 , 213, 118717	5.8	0
64	Development of a PCM-HE to harness waste greywater heat: A case study of a residential building. <i>Applied Energy</i> , 2021 , 307, 118164	10.7	0
63	A review of solar-driven short-term low temperature heat storage systems. <i>Renewable and Sustainable Energy Reviews</i> , 2021 , 141, 110824	16.2	8
62	Numerical investigation of the heat transfer enhancement using corrugated pipes in a PCM for grey water harnessing. <i>Thermal Science and Engineering Progress</i> , 2021 , 23, 100909	3.6	3
61	Experimental thermal study of a new PCM-concrete thermal storage block (PCM-CTSB). <i>Construction and Building Materials</i> , 2021 , 293, 123540	6.7	8
60	Numerical modelling of the operational effects on the thermochemical reactor performance. <i>Energy and Buildings</i> , 2021 , 230, 110535	7	1
59	The EN-Survival Game: An Environmental Game for Residential Accommodation 2021 , 87-106		
58	Experimental Validation of a Numerical Model of a Corrugated Pipe-Phase Change Material (PCM)-Based Heat Exchanger to Harness Greywater Heat 2021 , 645-649		
57	Experimental comparison analysis of two heat transfer enhancement methods on a thermochemical reactor. <i>International Journal of Low-Carbon Technologies</i> , 2021 , 16, 643-654	2.8	0
56	Development of gypsum plasterboard embodied with microencapsulated phase change material for energy efficient buildings. <i>Materials Science for Energy Technologies</i> , 2021 , 4, 166-176	5.2	3

55	Reducing energy consumption and pollution in the urban transportation sector: A review of policies and regulations in Beijing. <i>Journal of Cleaner Production</i> , 2021 , 285, 125339	10.3	20
54	Thermal performance study of thermochemical reactor using net-packed method. <i>Renewable Energy</i> , 2021 , 182, 483-483	8.1	0
53	An experimental investigation on the passive ventilation and cooling performance of an integrated solar chimney and earth-air heat exchanger. <i>Renewable Energy</i> , 2021 , 175, 486-500	8.1	12
52	Serious Games as an Engaging Medium on Building Energy Consumption: A Review of Trends, Categories and Approaches. <i>Sustainability</i> , 2020 , 12, 8508	3.6	8
51	Experimental Study on the Strengthen Heat Transfer Performance of PCM by Active Stirring. <i>Energies</i> , 2020 , 13, 2238	3.1	4
50	Numerical analysis of rectangular fins in a PCM for low-grade heat harnessing. <i>International Journal of Thermal Sciences</i> , 2020 , 152, 106306	4.1	16
49	Investigating the performance enhancement of copper fins on trapezoidal thermochemical reactor. <i>Renewable Energy</i> , 2020 , 150, 1037-1046	8.1	9
48	Experimental study on the thermal performance of a grey water heat harnessing exchanger using Phase Change Materials. <i>Renewable Energy</i> , 2020 , 146, 1805-1817	8.1	3
47	A comprehensive review of hydrodynamic mechanisms and heat transfer characteristics for microencapsulated phase change slurry (MPCS) in circular tube. <i>Renewable and Sustainable Energy Reviews</i> , 2019 , 114, 109312	16.2	30
46	An optimizer using the PSO algorithm to determine thermal parameters of PCM: A case study of grey water heat harnessing. <i>International Journal of Heat and Mass Transfer</i> , 2019 , 144, 118574	4.9	5
45	Optimization on a cylindrical Fresnel lens and its validation in a medium-temperature solar steam generation system. <i>Renewable Energy</i> , 2019 , 134, 1332-1343	8.1	15
44	Investigation of a three-phase thermochemical reactor through an experimentally validated numerical modelling. <i>Applied Thermal Engineering</i> , 2019 , 162, 114223	5.8	3
43	Energy and behaviour at home: A review of intervention methods and practices. <i>Energy Research and Social Science</i> , 2019 , 57, 101238	7.7	33
42	Implementing an integrated meter and sensor system (IMSS) in existing social housing stock. <i>Energy and Buildings</i> , 2019 , 182, 274-286	7	3
41	A systematic review on parametric dependencies of transpired solar collector performance. <i>International Journal of Energy Research</i> , 2019 , 43, 86-112	4.5	2
40	Smart metering and systems for low-energy households: challenges, issues and benefits. <i>Advances in Building Energy Research</i> , 2019 , 13, 80-100	1.8	7
39	Comparison study of the performance of two kinds of photovoltaic/thermal(PV/T) systems and a PV module at high ambient temperature. <i>Energy</i> , 2018 , 148, 1153-1161	7.9	51
38	Identifying the occupant's satisfaction and awareness for the performance of Eco houses in the United Kingdom. <i>Journal of Building Engineering</i> , 2018 , 18, 281-291	5.2	7

37	Experimental validation of an air-PCM storage unit comparing the effective heat capacity and enthalpy methods through CFD simulations. <i>Energy</i> , 2018 , 155, 495-503	7.9	49
36	Characteristics–relation model of asphalt pavement performance based on factor analysis. <i>International Journal of Pavement Research and Technology</i> , 2018 , 11, 1-12	2	6
35	A Key Review of Non-Industrial Greywater Heat Harnessing. <i>Energies</i> , 2018 , 11, 386	3.1	22
34	A state of art review on the district heating systems. <i>Renewable and Sustainable Energy Reviews</i> , 2018 , 96, 420-439	16.2	73
33	A complete research on the feasibility and adaptation of shared transportation in mega-cities –A case study in Beijing. <i>Applied Energy</i> , 2018 , 230, 1014-1033	10.7	25
32	Adaptability research on phase change materials based technologies in China. <i>Renewable and Sustainable Energy Reviews</i> , 2017 , 73, 145-158	16.2	29
31	Investigating the impact of Cp-T values determined by DSC on the PCM-CFD model. <i>Applied Thermal Engineering</i> , 2017 , 117, 65-75	5.8	30
30	A state of art review on methodologies for heat transfer and energy flow characteristics of the active building envelopes. <i>Renewable and Sustainable Energy Reviews</i> , 2017 , 78, 1102-1116	16.2	30
29	A review on the air-to-air heat and mass exchanger technologies for building applications. <i>Renewable and Sustainable Energy Reviews</i> , 2017 , 75, 753-774	16.2	49
28	A complete survey study on the feasibility and adaptation of EVs in Beijing, China. <i>Applied Energy</i> , 2017 , 187, 128-139	10.7	32
27	Heating storage performance of a water tank–combined phase change material:An experimental case study. <i>Advances in Mechanical Engineering</i> , 2017 , 9, 168781401772407	1.2	5
26	Effects of various parameters of a PCM on thermal performance of a solar chimney. <i>Applied Thermal Engineering</i> , 2017 , 127, 1119-1131	5.8	38
25	Numerical study of the influences of geometry orientation on phase change material’s melting process. <i>Advances in Mechanical Engineering</i> , 2017 , 9, 168781401772008	1.2	13
24	Numerical study on the performance of an air–Multiple PCMs unit for free cooling and ventilation. <i>Energy and Buildings</i> , 2017 , 151, 520-533	7	27
23	Technological, environmental and economic aspects of Asphalt recycling for road construction. <i>Renewable and Sustainable Energy Reviews</i> , 2017 , 75, 879-893	16.2	18
22	Feasibility study on merging biogas into the natural gas pipe-network in China. <i>International Journal of Sustainable Energy</i> , 2016 , 35, 615-628	2.7	3
21	Experimental study on the thermal performance of air-PCM unit. <i>Building and Environment</i> , 2016 , 105, 128-139	6.5	18
20	Experimental analysis on use of thermal conductivity enhancers (TCEs) for solar chimney applications with energy storage layer. <i>Energy and Buildings</i> , 2016 , 116, 35-44	7	17

19	A review on the air-PCM-TES application for free cooling and heating in the buildings. <i>Renewable and Sustainable Energy Reviews</i> , 2016 , 61, 175-186	16.2	138
18	Review on Heat Transfer Mechanisms and Characteristics in Encapsulated PCMs. <i>Heat Transfer Engineering</i> , 2015 , 36, 880-901	1.7	40
17	An experimental study on the thermal performance of a solar chimney without and with PCM. <i>Renewable Energy</i> , 2015 , 81, 338-346	8.1	39
16	Heating performance of a solar chimney combined PCM: A numerical case study. <i>Energy and Buildings</i> , 2015 , 99, 117-130	7	25
15	Experimental Study on the Performance of RT 25 to be Used as Ambient Energy Storage. <i>Energy Procedia</i> , 2015 , 70, 229-240	2.3	12
14	A work procedure of utilising PCMs as thermal storage systems based on air-TES systems. <i>Energy Conversion and Management</i> , 2014 , 77, 608-627	10.6	45
13	Experimental study on thermal performance of a solar chimney combined with PCM. <i>Applied Energy</i> , 2014 , 114, 172-178	10.7	85
12	Investigations on the integration and acceptability of GSHP in the UK dwellings. <i>Building and Environment</i> , 2014 , 82, 442-449	6.5	17
11	A comprehensive review on applications of ohmic heating (OH). <i>Renewable and Sustainable Energy Reviews</i> , 2014 , 39, 262-269	16.2	137
10	Numerical study on thermal behaviors of a solar chimney incorporated with PCM. <i>Energy and Buildings</i> , 2014 , 80, 406-414	7	29
9	Mathematical solutions and numerical models employed for the investigations of PCMs? phase transformations. <i>Renewable and Sustainable Energy Reviews</i> , 2014 , 33, 659-674	16.2	67
8	Serious games for energy social science research. <i>Technology Analysis and Strategic Management</i> , 2014 , 26, 1212-1227	3.2	16
7	Experimental Study of the Heat Transfer Performance of PCMs Within Metal Finned Containers 2014 , 669-684		
6	A comprehensive review on passive heat transfer enhancements in pipe exchangers. <i>Renewable and Sustainable Energy Reviews</i> , 2013 , 19, 64-81	16.2	280
5	EFFECTS OF DIFFERENT THERMAL CONDUCTIVITY ENHANCERS ON THE THERMAL PERFORMANCE OF TWO ORGANIC PHASE-CHANGE MATERIALS: PARAFFIN WAX RT42 AND RT25. <i>Journal of Enhanced Heat Transfer</i> , 2013 , 20, 463-473	1.7	3
4	Theoretical and experimental investigations of a liquid desiccant filmed cellulose fibre heat and mass exchanger. <i>International Journal of Energy Research</i> , 2009 , 33, 1076-1088	4.5	4
3	Impact of adsorbent finishing and absorbent filming on energy exchange efficiency of an air-to-air cellulose fibre heat & mass exchanger. <i>Building and Environment</i> , 2009 , 44, 1803-1809	6.5	15
2	Comparative study of hydrophilic materials for air-to-air heat/mass exchanger. <i>International Journal of Low-Carbon Technologies</i> , 2009 , 4, 120-130	2.8	2

- 1 Comparative study of heat and mass exchanging materials for indirect evaporative cooling systems. *Building and Environment*, **2008**, 43, 1902-1911 6.5 93