

Shuli Liu

List of Publications by Year in descending order

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77
papers

2,814
citations

172386

29
h-index

182361

51
g-index

77
all docs

77
docs citations

77
times ranked

2499
citing authors

#	ARTICLE	IF	CITATIONS
1	A comprehensive review on passive heat transfer enhancements in pipe exchangers. <i>Renewable and Sustainable Energy Reviews</i> , 2013, 19, 64-81.	8.2	376
2	A comprehensive review on applications of ohmic heating (OH). <i>Renewable and Sustainable Energy Reviews</i> , 2014, 39, 262-269.	8.2	191
3	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.	8.2	169
4	A state of art review on the district heating systems. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 96, 420-439.	8.2	117
5	Comparative study of heat and mass exchanging materials for indirect evaporative cooling systems. <i>Building and Environment</i> , 2008, 43, 1902-1911.	3.0	116
6	Experimental study on thermal performance of a solar chimney combined with PCM. <i>Applied Energy</i> , 2014, 114, 172-178.	5.1	113
7	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.	4.5	99
8	Mathematical solutions and numerical models employed for the investigations of PCMs ^{x3} phase transformations. <i>Renewable and Sustainable Energy Reviews</i> , 2014, 33, 659-674.	8.2	81
9	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.	4.5	76
10	Energy and behaviour at home: A review of intervention methods and practices. <i>Energy Research and Social Science</i> , 2019, 57, 101238.	3.0	70
11	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.	4.6	64
12	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.	8.2	62
13	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.	4.4	59
14	An experimental study on the thermal performance of a solar chimney without and with PCM. <i>Renewable Energy</i> , 2015, 81, 338-346.	4.3	58
15	Effects of various parameters of a PCM on thermal performance of a solar chimney. <i>Applied Thermal Engineering</i> , 2017, 127, 1119-1131.	3.0	54
16	Experimental thermal study of a new PCM-concrete thermal storage block (PCM-CTSB). <i>Construction and Building Materials</i> , 2021, 293, 123540.	3.2	54
17	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.	8.2	51
18	Review on Heat Transfer Mechanisms and Characteristics in Encapsulated PCMs. <i>Heat Transfer Engineering</i> , 2015, 36, 880-901.	1.2	50

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19	Investigating the impact of C_p -T values determined by DSC on the PCM-CFD model. Applied Thermal Engineering, 2017, 117, 65-75.	3.0	48
20	A complete survey study on the feasibility and adaptation of EVs in Beijing, China. Applied Energy, 2017, 187, 128-139.	5.1	47
21	Numerical study on the performance of an air-PCM Multiple PCMs unit for free cooling and ventilation. Energy and Buildings, 2017, 151, 520-533.	3.1	44
22	A state of art review on methodologies for heat transfer and energy flow characteristics of the active building envelopes. Renewable and Sustainable Energy Reviews, 2017, 78, 1102-1116.	8.2	42
23	A complete research on the feasibility and adaptation of shared transportation in mega-cities – A case study in Beijing. Applied Energy, 2018, 230, 1014-1033.	5.1	38
24	Numerical analysis of rectangular fins in a PCM for low-grade heat harnessing. International Journal of Thermal Sciences, 2020, 152, 106306.	2.6	38
25	Adaptability research on phase change materials based technologies in China. Renewable and Sustainable Energy Reviews, 2017, 73, 145-158.	8.2	37
26	Numerical study on thermal behaviors of a solar chimney incorporated with PCM. Energy and Buildings, 2014, 80, 406-414.	3.1	36
27	Technological, environmental and economic aspects of Asphalt recycling for road construction. Renewable and Sustainable Energy Reviews, 2017, 75, 879-893.	8.2	35
28	A Key Review of Non-Industrial Greywater Heat Harnessing. Energies, 2018, 11, 386.	1.6	34
29	Heating performance of a solar chimney combined PCM: A numerical case study. Energy and Buildings, 2015, 99, 117-130.	3.1	30
30	Experimental study on the thermal performance of air-PCM unit. Building and Environment, 2016, 105, 128-139.	3.0	30
31	A review of solar-driven short-term low temperature heat storage systems. Renewable and Sustainable Energy Reviews, 2021, 141, 110824.	8.2	30
32	An experimental investigation on the passive ventilation and cooling performance of an integrated solar chimney and earth-air heat exchanger. Renewable Energy, 2021, 175, 486-500.	4.3	26
33	Experimental analysis on use of thermal conductivity enhancers (TCEs) for solar chimney applications with energy storage layer. Energy and Buildings, 2016, 116, 35-44.	3.1	25
34	Serious games for energy social science research. Technology Analysis and Strategic Management, 2014, 26, 1212-1227.	2.0	24
35	Numerical study of the influences of geometry orientation on phase change material's melting process. Advances in Mechanical Engineering, 2017, 9, 168781401772008.	0.8	23
36	Investigations on the integration and acceptability of GSHP in the UK dwellings. Building and Environment, 2014, 82, 442-449.	3.0	21

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37	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.	4.3	21
38	Smart metering and systems for low-energy households: challenges, issues and benefits. <i>Advances in Building Energy Research</i> , 2019, 13, 80-100.	1.1	19
39	Experimental analysis of a fin-enhanced three-tube-shell cascaded latent heat storage system. <i>Applied Thermal Engineering</i> , 2022, 213, 118717.	3.0	17
40	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.	3.0	16
41	Investigating the performance enhancement of copper fins on trapezoidal thermochemical reactor. <i>Renewable Energy</i> , 2020, 150, 1037-1046.	4.3	16
42	Optical design and validation of a solar concentrating photovoltaic-thermal (CPV-T) module for building louvers. <i>Energy</i> , 2022, 239, 122256.	4.5	16
43	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.	2.5	16
44	Serious Games as an Engaging Medium on Building Energy Consumption: A Review of Trends, Categories and Approaches. <i>Sustainability</i> , 2020, 12, 8508.	1.6	15
45	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.	1.6	13
46	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.	3.9	13
47	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.	3.0	13
48	Experimental Study on the Performance of RT 25 to be Used as Ambient Energy Storage. <i>Energy Procedia</i> , 2015, 70, 229-240.	1.8	12
49	Thermal performance study of thermochemical reactor using net-packed method. <i>Renewable Energy</i> , 2022, 182, 483-493.	4.3	12
50	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.	3.9	12
51	Characteristicsâ€™ relation model of asphalt pavement performance based on factor analysis. <i>International Journal of Pavement Research and Technology</i> , 2018, 11, 1-12.	1.3	11
52	Experimental Study on the Strengthen Heat Transfer Performance of PCM by Active Stirring. <i>Energies</i> , 2020, 13, 2238.	1.6	11
53	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.	1.0	11
54	An experimental study on the binary hydrated salt composite zeolite for improving thermochemical energy storage performance. <i>Renewable Energy</i> , 2022, 194, 1163-1173.	4.3	11

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55	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.	4.3	8
56	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.	4.5	8
57	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.	0.5	8
58	Heating storage performance of a water tank combined phase change material: An experimental case study. <i>Advances in Mechanical Engineering</i> , 2017, 9, 168781401772407.	0.8	7
59	Investigation of a three-phase thermochemical reactor through an experimentally validated numerical modelling. <i>Applied Thermal Engineering</i> , 2019, 162, 114223.	3.0	7
60	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.	1.3	7
61	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.	4.3	7
62	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.	2.5	6
63	Feasibility study on merging biogas into the natural gas pipe-network in China. <i>International Journal of Sustainable Energy</i> , 2016, 35, 615-628.	1.3	5
64	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.	2.2	4
65	Implementing an integrated meter and sensor system (IMSS) in existing social housing stock. <i>Energy and Buildings</i> , 2019, 182, 274-286.	3.1	4
66	A systematic review on parametric dependencies of transpired solar collector performance. <i>International Journal of Energy Research</i> , 2019, 43, 86-112.	2.2	4
67	Numerical modelling of the operational effects on the thermochemical reactor performance. <i>Energy and Buildings</i> , 2021, 230, 110535.	3.1	4
68	Development of a PCM-HE to harness waste greywater heat: A case study of a residential building. <i>Applied Energy</i> , 2021, 307, 118164.	5.1	3
69	Comparative study of hydrophilic materials for air-to-air heat/mass exchanger. <i>International Journal of Low-Carbon Technologies</i> , 2009, 4, 120-130.	1.2	2
70	Thermal storage/management system with phase change materials for building. <i>Advances in Mechanical Engineering</i> , 2018, 10, 168781401775031.	0.8	2
71	Pulse width modulation (PWM) method for power components estimation in power meters. , 2014, , .		2
72	An algorithm to assess the heating strategy of buildings in cold climates: a case study of Germany. <i>International Journal of Low-Carbon Technologies</i> , 2022, 17, 662-677.	1.2	2

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73	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.	1.2	1
74	Theoretical Analysis of the Dispersion and Hazardous Range of Natural Gas Pipeline Leakage. , 2012, , .		0
75	The EN-Survival Game: An Environmental Game for Residential Accommodation. , 2021, , 87-106.		0
76	Experimental Validation of a Numerical Model of a Corrugated Pipe-Phase Change Material (PCM)-Based Heat Exchanger to Harness Greywater Heat. , 2021, , 645-649.		0
77	Experimental Study of the Heat Transfer Performance of PCMs Within Metal Finned Containers. , 2014, , 669-684.		0