

Xiaoling Cao

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.

78
papers

2,983
citations

28
h-index

53
g-index

82
ext. papers

3,590
ext. citations

6.6
avg, IF

5.68
L-index

#	Paper	IF	Citations
78	Thermo-economic analysis of geothermal heat pump system integrated with multi-modular water-phase change material tanks for underground space cooling applications. <i>Journal of Energy Storage</i> , 2022 , 45, 103726	7.8	2
77	Comparative numerical study of aerodynamic heating and performance of transonic hyperloop pods with different noses. <i>Case Studies in Thermal Engineering</i> , 2022 , 29, 101701	5.6	2
76	Heat pipe/phase change material coupled thermal management in Li-ion battery packs: optimization and energy-saving assessment. <i>Applied Thermal Engineering</i> , 2022 , 208, 118211	5.8	1
75	Compact Interlaminar Lithium Plating Realized by Silver Nanowires Imbedded in a Stacked Graphene Host with a Rational Void Space. <i>ACS Applied Energy Materials</i> , 2022 , 5, 3100-3109	6.1	
74	Thermal performance of energy diaphragm wall (EDW) adjacent to air-conditioned space from the underground-engineering perspective. <i>Geothermics</i> , 2021 , 91, 102044	4.3	1
73	Impact of vacuum degree on the aerodynamics of a high-speed train capsule running in a tube. <i>International Journal of Heat and Fluid Flow</i> , 2021 , 88, 108752	2.4	9
72	Performance analysis of photovoltaic-thermal road assisted ground source heat pump system during non-heating season. <i>Solar Energy</i> , 2021 , 221, 10-29	6.8	1
71	Numerical simulation of smoke stratification in tunnel fires under longitudinal velocities. <i>Underground Space (China)</i> , 2021 , 6, 163-172	3.7	6
70	Feasibility study on temperature control with phase change material in intensive heat-releasing space during emergency power failure: A case analysis of information system room. <i>Energy and Buildings</i> , 2021 , 230, 110482	7	2
69	Numerical analysis of the aerothermodynamic behavior of a Hyperloop in choked flow. <i>Energy</i> , 2021 , 237, 121427	7.9	7
68	An Aerothermal Study of Influence of Blockage Ratio on a Supersonic Tube Train System. <i>Journal of Thermal Science</i> , 2020 , 1	1.9	13
67	Thermal and electrical performance of a novel photovoltaic-thermal road. <i>Solar Energy</i> , 2020 , 199, 1-18	6.8	14
66	Thermal performance of triplex-tube latent heat storage exchanger: simultaneous heat storage and hot water supply via condensation heat recovery. <i>Renewable Energy</i> , 2020 , 157, 616-625	8.1	10
65	Optimization of falling film thermosyphons bundle arrangement for large-scale cooling applications by genetic algorithm. <i>Applied Thermal Engineering</i> , 2020 , 169, 114892	5.8	3
64	Buried water-phase change material storage for load shifting: A parametric study. <i>Energy and Buildings</i> , 2020 , 227, 110428	7	1
63	Micro-Channel Heat Sink: A Review. <i>Journal of Thermal Science</i> , 2020 , 29, 1431-1462	1.9	13
62	Melting and solidification performance in two horizontal shell-and-tube heat exchangers with different structures. <i>International Journal of Energy Research</i> , 2020 , 44, 11288-11301	4.5	2

61	Flue Gas Water Recovery by Indirect Cooling Technology for Large-Scale Applications: A Review. <i>Journal of Thermal Science</i> , 2020 , 29, 1223-1241	1.9	8
60	A hierarchical interdigitated flow field design for scale-up of high-performance redox flow batteries. <i>Applied Energy</i> , 2019 , 238, 435-441	10.7	78
59	Thermal and infrared camouflage performance of earth-air heat exchanger for cooling an underground diesel generator room for protective engineering. <i>Sustainable Cities and Society</i> , 2019 , 47, 101437	10.1	12
58	Experimental Investigation on Performance Comparison of Solar Water Heating-Phase Change Material System and Solar Water Heating System. <i>Energies</i> , 2019 , 12, 2347	3.1	4
57	Numerical study on the impact of Mach number on the coupling effect of aerodynamic heating and aerodynamic pressure caused by a tube train. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2019 , 190, 100-111	3.7	41
56	Experimental and numerical investigation on dodecane/expanded graphite shape-stabilized phase change material for cold energy storage. <i>Energy</i> , 2019 , 189, 116175	7.9	28
55	Thermal reliability of typical fatty acids as phase change materials based on 10,000 accelerated thermal cycles. <i>Sustainable Cities and Society</i> , 2019 , 46, 101380	10.1	26
54	Investigation on the thermal performance of the diaphragm wall in deep buried engineering: a simulation study. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019 , 609, 052040	0.4	
53	Thermal performance of stearic acid/carbon nanotube composite phase change materials for energy storage prepared by ball milling. <i>International Journal of Energy Research</i> , 2019 , 43, 6327-6336	4.5	15
52	Prediction of the solid effective thermal conductivity of fatty acid/carbon material composite phase change materials based on fractal theory. <i>Energy</i> , 2019 , 170, 752-762	7.9	19
51	Improvement of supercooling and thermal conductivity of the sodium acetate trihydrate for thermal energy storage with Fe ₂ O ₃ as additive. <i>Journal of Thermal Analysis and Calorimetry</i> , 2018 , 133, 859-867	4.1	28
50	Simultaneous decrease in supercooling and enhancement of thermal conductivity of paraffin emulsion in medium temperature range with graphene as additive. <i>Thermochimica Acta</i> , 2018 , 664, 16-25	2.9	10
49	Effect of natural convection on melting performance of eccentric horizontal shell and tube latent heat storage unit. <i>Sustainable Cities and Society</i> , 2018 , 38, 571-581	10.1	51
48	Coupled cooling method and application of latent heat thermal energy storage combined with pre-cooling of envelope: Optimization of pre-cooling with intermittent mode. <i>Sustainable Cities and Society</i> , 2018 , 38, 370-381	10.1	12
47	Latent Heat Thermal Energy Storage Systems with Solid-Liquid Phase Change Materials: A Review. <i>Advanced Engineering Materials</i> , 2018 , 20, 1700753	3.5	177
46	Numerical investigation on optimal number of longitudinal fins in horizontal annular phase change unit at different wall temperatures. <i>Energy and Buildings</i> , 2018 , 158, 384-392	7	68
45	Coupled cooling method for multiple latent heat thermal storage devices combined with pre-cooling of envelope: Model development and operation optimization. <i>Energy</i> , 2018 , 159, 508-524	7.9	7
44	Flexible phase change materials for thermal storage and temperature control. <i>Chemical Engineering Journal</i> , 2018 , 353, 920-929	14.7	45

43	A novel hybrid energy system combined with solar-road and soil-regenerator: Sensitivity analysis and optimization. <i>Renewable Energy</i> , 2018 , 129, 419-430	8.1	20
42	Polyethylene Glycol/NaCl ₂ Coordination Compounds as a Novel Form-Stable Phase Change Material with Excellent Thermophysical Properties. <i>Advanced Engineering Materials</i> , 2018 , 20, 1700643	3.5	8
41	Experimental investigation on performance comparison of PV/T-PCM system and PV/T system. <i>Renewable Energy</i> , 2018 , 119, 152-159	8.1	119
40	A novel form-stable phase change composite with excellent thermal and electrical conductivities. <i>Chemical Engineering Journal</i> , 2018 , 336, 342-351	14.7	43
39	A novel hybrid energy system combined with solar-road and soil-regenerator: Dynamic model and operational performance. <i>Energy Conversion and Management</i> , 2018 , 156, 376-387	10.6	29
38	Coupled cooling method and application of latent heat thermal energy storage combined with pre-cooling of envelope: Temperature control using phase-change chair. <i>Sustainable Cities and Society</i> , 2018 , 42, 38-51	10.1	8
37	Optimum connection modes for photovoltaic thermal collectors in different radiation zones of China. <i>Applied Thermal Engineering</i> , 2017 , 122, 661-672	5.8	10
36	Thermal properties enforcement of carbonate ternary via lithium fluoride: A heat transfer fluid for concentrating solar power systems. <i>Renewable Energy</i> , 2017 , 111, 523-531	8.1	14
35	Coupled cooling method and application of latent heat thermal energy storage combined with pre-cooling of envelope: Sensitivity analysis and optimization. <i>Chemical Engineering Research and Design</i> , 2017 , 107, 438-453	5.5	20
34	Enhanced Thermal Energy Storage Performance of Polyethylene Glycol by Using Interfacial Interaction of Copper-Based Metal Oxide. <i>Advanced Engineering Materials</i> , 2017 , 19, 1600601	3.5	14
33	Thermal properties of ternary carbonate/T-ZnOw for thermal energy storage in high-temperature concentrating solar power systems. <i>Composites Part A: Applied Science and Manufacturing</i> , 2017 , 93, 177-184	8.4	13
32	Enhanced thermal properties of Li ₂ CO ₃ /Na ₂ CO ₃ /K ₂ CO ₃ nanofluids with nanoalumina for heat transfer in high-temperature CSP systems. <i>Journal of Thermal Analysis and Calorimetry</i> , 2017 , 128, 1783-1792	4.1	17
31	Effect of connection mode and mass flux on the energy output of a PVT hot water system. <i>Solar Energy</i> , 2017 , 158, 285-294	6.8	13
30	Porosity reduction of polyethylene glycol phase change materials by using nanoscale thermal-energy-conducting medium during crystallization process. <i>Journal of Applied Polymer Science</i> , 2017 , 134, 45446	2.9	4
29	Thermophysical properties enhancement of ternary carbonates with carbon materials for high-temperature thermal energy storage. <i>Solar Energy</i> , 2017 , 155, 661-669	6.8	22
28	Thermal properties of polyethylene glycol/carbon microsphere composite as a novel phase change material. <i>Journal of Thermal Analysis and Calorimetry</i> , 2017 , 130, 1741-1749	4.1	27
27	Coupled cooling method and application of latent heat thermal energy storage combined with pre-cooling of envelope: Method and model development. <i>Energy</i> , 2017 , 119, 817-833	7.9	70
26	Thermal interaction of multiple ground heat exchangers under different intermittent ratio and separation distance. <i>Applied Thermal Engineering</i> , 2016 , 108, 277-286	5.8	37

25	Effect of installation angle of fins on melting characteristics of annular unit for latent heat thermal energy storage. <i>Solar Energy</i> , 2016 , 136, 365-378	6.8	96
24	Experimental investigation on Influencing Factors of air curtain systems barrier efficiency for mine refuge chamber. <i>Chemical Engineering Research and Design</i> , 2016 , 102, 534-546	5.5	26
23	Steady-state equation of water vapor sorption for CaCl ₂ -based chemical sorbents and its application. <i>Scientific Reports</i> , 2016 , 6, 34115	4.9	5
22	Cold storage condensation heat recovery system with a novel composite phase change material. <i>Applied Energy</i> , 2016 , 175, 259-268	10.7	40
21	Effect of water content on the phase transition temperature, latent heat and water uptake of PEG polymers acting as endothermal-hygroscopic materials. <i>Journal of Thermal Analysis and Calorimetry</i> , 2016 , 126, 699-708	4.1	13
20	Thermal performance enhancement of palmitic-stearic acid by adding graphene nanoplatelets and expanded graphite for thermal energy storage: A comparative study. <i>Energy</i> , 2016 , 97, 488-497	7.9	85
19	Investigation on thermal properties of capric/palmitic/stearic acid/activated carbon composite phase change materials for high-temperature cooling application. <i>Journal of Thermal Analysis and Calorimetry</i> , 2016 , 124, 881-888	4.1	56
18	Inorganic composite sorbents for water vapor sorption: A research progress. <i>Renewable and Sustainable Energy Reviews</i> , 2016 , 54, 761-776	16.2	39
17	Core-shell microstructured nanocomposites for synergistic adjustment of environmental temperature and humidity. <i>Scientific Reports</i> , 2016 , 6, 36974	4.9	8
16	Experimental studies on the supercooling and melting/freezing characteristics of nano-copper/sodium acetate trihydrate composite phase change materials. <i>Renewable Energy</i> , 2016 , 99, 1029-1037	8.1	103
15	Restoration performance of vertical ground heat exchanger with various intermittent ratios. <i>Geothermics</i> , 2015 , 54, 115-121	4.3	38
14	Thermophysical Properties of Some Fatty Acids/Surfactants as Phase Change Slurries for Thermal Energy Storage. <i>Journal of Chemical & Engineering Data</i> , 2015 , 60, 2495-2501	2.8	27
13	Inorganic composite adsorbent CaCl ₂ /MWNT for water vapor adsorption. <i>RSC Advances</i> , 2015 , 5, 38630-38639	3.7	14
12	Experimental investigation on thermophysical properties of capric acid/lauric acid phase change slurries for thermal storage system. <i>Energy</i> , 2015 , 90, 359-368	7.9	14
11	Study on thermal property of lauric/palmitic/stearic acid/vermiculite composite as form-stable phase change material for energy storage. <i>Advances in Mechanical Engineering</i> , 2015 , 7, 168781401560502	1.2	14
10	Dynamic Performance of the Shading-type Building-Integrated Photovoltaic Claddings. <i>Procedia Engineering</i> , 2015 , 121, 930-937		10
9	Fatty acids as phase change materials: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2014 , 29, 482-498	16.2	435
8	Preparation and properties of myristic/palmitic/stearic acid/expanded graphite composites as phase change materials for energy storage. <i>Solar Energy</i> , 2014 , 99, 259-266	6.8	150

7	Effect of carbon nanotubes on the thermal behavior of palmitic-stearic acid eutectic mixtures as phase change materials for energy storage. <i>Solar Energy</i> , 2014 , 110, 64-70	6.8	87
6	Lauric-palmitic-stearic acid/expanded perlite composite as form-stable phase change material: Preparation and thermal properties. <i>Energy and Buildings</i> , 2014 , 82, 505-511	7	105
5	Preparation and properties of palmitic-stearic acid eutectic mixture/expanded graphite composite as phase change material for energy storage. <i>Energy</i> , 2014 , 78, 950-956	7.9	88
4	Preparation and thermal characterization of capric-myristic-palmitic acid/expanded graphite composite as phase change material for energy storage. <i>Materials Letters</i> , 2014 , 125, 154-157	3.3	54
3	A novel PCM of lauric-myristic-stearic acid/expanded graphite composite for thermal energy storage. <i>Materials Letters</i> , 2014 , 120, 43-46	3.3	77
2	Preparation and characterization of lauric-myristic-palmitic acid ternary eutectic mixtures/expanded graphite composite phase change material for thermal energy storage. <i>Chemical Engineering Journal</i> , 2013 , 231, 214-219	14.7	129
1	Ground source heat pump system: A review of simulation in China. <i>Renewable and Sustainable Energy Reviews</i> , 2012 , 16, 6814-6822	16.2	66