

# Xiaoling Cao

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/964140/xiaoling-cao-publications-by-citations.pdf>

**Version:** 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	Fatty acids as phase change materials: A review. <i>Renewable and Sustainable Energy Reviews</i> , <b>2014</b> , 29, 482-498	16.2	435
77	Latent Heat Thermal Energy Storage Systems with Solid-Liquid Phase Change Materials: A Review. <i>Advanced Engineering Materials</i> , <b>2018</b> , 20, 1700753	3.5	177
76	Preparation and properties of myristic-palmitic-stearic acid/expanded graphite composites as phase change materials for energy storage. <i>Solar Energy</i> , <b>2014</b> , 99, 259-266	6.8	150
75	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> , <b>2013</b> , 231, 214-219	14.7	129
74	Experimental investigation on performance comparison of PV/T-PCM system and PV/T system. <i>Renewable Energy</i> , <b>2018</b> , 119, 152-159	8.1	119
73	Lauric-palmitic-stearic acid/expanded perlite composite as form-stable phase change material: Preparation and thermal properties. <i>Energy and Buildings</i> , <b>2014</b> , 82, 505-511	7	105
72	Experimental studies on the supercooling and melting/freezing characteristics of nano-copper/sodium acetate trihydrate composite phase change materials. <i>Renewable Energy</i> , <b>2016</b> , 99, 1029-1037	8.1	103
71	Effect of installation angle of fins on melting characteristics of annular unit for latent heat thermal energy storage. <i>Solar Energy</i> , <b>2016</b> , 136, 365-378	6.8	96
70	Preparation and properties of palmitic-stearic acid eutectic mixture/expanded graphite composite as phase change material for energy storage. <i>Energy</i> , <b>2014</b> , 78, 950-956	7.9	88
69	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> , <b>2014</b> , 110, 64-70	6.8	87
68	Thermal performance enhancement of palmitic-stearic acid by adding graphene nanoplatelets and expanded graphite for thermal energy storage: A comparative study. <i>Energy</i> , <b>2016</b> , 97, 488-497	7.9	85
67	A hierarchical interdigitated flow field design for scale-up of high-performance redox flow batteries. <i>Applied Energy</i> , <b>2019</b> , 238, 435-441	10.7	78
66	A novel PCM of lauric-myristic-stearic acid/expanded graphite composite for thermal energy storage. <i>Materials Letters</i> , <b>2014</b> , 120, 43-46	3.3	77
65	Coupled cooling method and application of latent heat thermal energy storage combined with pre-cooling of envelope: Method and model development. <i>Energy</i> , <b>2017</b> , 119, 817-833	7.9	70
64	Numerical investigation on optimal number of longitudinal fins in horizontal annular phase change unit at different wall temperatures. <i>Energy and Buildings</i> , <b>2018</b> , 158, 384-392	7	68
63	Ground source heat pump system: A review of simulation in China. <i>Renewable and Sustainable Energy Reviews</i> , <b>2012</b> , 16, 6814-6822	16.2	66
62	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> , <b>2016</b> , 124, 881-888	4.1	56

61	Preparation and thermal characterization of capric/myristic/palmitic acid/expanded graphite composite as phase change material for energy storage. <i>Materials Letters</i> , <b>2014</b> , 125, 154-157	3.3	54
60	Effect of natural convection on melting performance of eccentric horizontal shell and tube latent heat storage unit. <i>Sustainable Cities and Society</i> , <b>2018</b> , 38, 571-581	10.1	51
59	Flexible phase change materials for thermal storage and temperature control. <i>Chemical Engineering Journal</i> , <b>2018</b> , 353, 920-929	14.7	45
58	A novel form-stable phase change composite with excellent thermal and electrical conductivities. <i>Chemical Engineering Journal</i> , <b>2018</b> , 336, 342-351	14.7	43
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> , <b>2019</b> , 190, 100-111	3.7	41
56	Cold storage condensation heat recovery system with a novel composite phase change material. <i>Applied Energy</i> , <b>2016</b> , 175, 259-268	10.7	40
55	Inorganic composite sorbents for water vapor sorption: A research progress. <i>Renewable and Sustainable Energy Reviews</i> , <b>2016</b> , 54, 761-776	16.2	39
54	Restoration performance of vertical ground heat exchanger with various intermittent ratios. <i>Geothermics</i> , <b>2015</b> , 54, 115-121	4.3	38
53	Thermal interaction of multiple ground heat exchangers under different intermittent ratio and separation distance. <i>Applied Thermal Engineering</i> , <b>2016</b> , 108, 277-286	5.8	37
52	A novel hybrid energy system combined with solar-road and soil-regenerator: Dynamic model and operational performance. <i>Energy Conversion and Management</i> , <b>2018</b> , 156, 376-387	10.6	29
51	Improvement of supercooling and thermal conductivity of the sodium acetate trihydrate for thermal energy storage with Fe <sub>2</sub> O <sub>3</sub> as additive. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2018</b> , 133, 859-867	4.1	28
50	Experimental and numerical investigation on dodecane/expanded graphite shape-stabilized phase change material for cold energy storage. <i>Energy</i> , <b>2019</b> , 189, 116175	7.9	28
49	Thermophysical Properties of Some Fatty Acids/Surfactants as Phase Change Slurries for Thermal Energy Storage. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2015</b> , 60, 2495-2501	2.8	27
48	Thermal properties of polyethylene glycol/carbon microsphere composite as a novel phase change material. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2017</b> , 130, 1741-1749	4.1	27
47	Experimental investigation on Influencing Factors of air curtain systems barrier efficiency for mine refuge chamber. <i>Chemical Engineering Research and Design</i> , <b>2016</b> , 102, 534-546	5.5	26
46	Thermal reliability of typical fatty acids as phase change materials based on 10,000 accelerated thermal cycles. <i>Sustainable Cities and Society</i> , <b>2019</b> , 46, 101380	10.1	26
45	Thermophysical properties enhancement of ternary carbonates with carbon materials for high-temperature thermal energy storage. <i>Solar Energy</i> , <b>2017</b> , 155, 661-669	6.8	22
44	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> , <b>2017</b> , 107, 438-453	5.5	20

43	A novel hybrid energy system combined with solar-road and soil-regenerator: Sensitivity analysis and optimization. <i>Renewable Energy</i> , <b>2018</b> , 129, 419-430	8.1	20
42	Prediction of the solid effective thermal conductivity of fatty acid/carbon material composite phase change materials based on fractal theory. <i>Energy</i> , <b>2019</b> , 170, 752-762	7.9	19
41	Enhanced thermal properties of Li <sub>2</sub> CO <sub>3</sub> /Na <sub>2</sub> CO <sub>3</sub> /K <sub>2</sub> CO <sub>3</sub> nanofluids with nanoalumina for heat transfer in high-temperature CSP systems. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2017</b> , 128, 1783-1792	4.1	17
40	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> , <b>2019</b> , 43, 6327-6336	4.5	15
39	Thermal properties enforcement of carbonate ternary via lithium fluoride: A heat transfer fluid for concentrating solar power systems. <i>Renewable Energy</i> , <b>2017</b> , 111, 523-531	8.1	14
38	Enhanced Thermal Energy Storage Performance of Polyethylene Glycol by Using Interfacial Interaction of Copper-Based Metal Oxide. <i>Advanced Engineering Materials</i> , <b>2017</b> , 19, 1600601	3.5	14
37	Inorganic composite adsorbent CaCl <sub>2</sub> /MWNT for water vapor adsorption. <i>RSC Advances</i> , <b>2015</b> , 5, 38630-38639	3.6	14
36	Experimental investigation on thermophysical properties of capric acid/lauric acid phase change slurries for thermal storage system. <i>Energy</i> , <b>2015</b> , 90, 359-368	7.9	14
35	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> , <b>2015</b> , 7, 168781401560502	1.2	14
34	Thermal and electrical performance of a novel photovoltaic-thermal road. <i>Solar Energy</i> , <b>2020</b> , 199, 1-18	6.8	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> , <b>2017</b> , 93, 177-184	8.4	13
32	Effect of connection mode and mass flux on the energy output of a PVT hot water system. <i>Solar Energy</i> , <b>2017</b> , 158, 285-294	6.8	13
31	An Aerothermal Study of Influence of Blockage Ratio on a Supersonic Tube Train System. <i>Journal of Thermal Science</i> , <b>2020</b> , 1	1.9	13
30	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> , <b>2016</b> , 126, 699-708	4.1	13
29	Micro-Channel Heat Sink: A Review. <i>Journal of Thermal Science</i> , <b>2020</b> , 29, 1431-1462	1.9	13
28	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> , <b>2019</b> , 47, 101437	10.1	12
27	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> , <b>2018</b> , 38, 370-381	10.1	12
26	Optimum connection modes for photovoltaic thermal collectors in different radiation zones of China. <i>Applied Thermal Engineering</i> , <b>2017</b> , 122, 661-672	5.8	10

25	Simultaneous decrease in supercooling and enhancement of thermal conductivity of paraffin emulsion in medium temperature range with graphene as additive. <i>Thermochimica Acta</i> , <b>2018</b> , 664, 16-25 <sup>2.9</sup>	10
24	Dynamic Performance of the Shading-type Building-Integrated Photovoltaic Claddings. <i>Procedia Engineering</i> , <b>2015</b> , 121, 930-937	10
23	Thermal performance of triplex-tube latent heat storage exchanger: simultaneous heat storage and hot water supply via condensation heat recovery. <i>Renewable Energy</i> , <b>2020</b> , 157, 616-625	8.1 10
22	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> , <b>2021</b> , 88, 108752	2.4 9
21	Flue Gas Water Recovery by Indirect Cooling Technology for Large-Scale Applications: A Review. <i>Journal of Thermal Science</i> , <b>2020</b> , 29, 1223-1241	1.9 8
20	Core-shell microstructured nanocomposites for synergistic adjustment of environmental temperature and humidity. <i>Scientific Reports</i> , <b>2016</b> , 6, 36974	4.9 8
19	Polyethylene Glycol-CaCl <sub>2</sub> Coordination Compounds as a Novel Form-Stable Phase Change Material with Excellent Thermophysical Properties. <i>Advanced Engineering Materials</i> , <b>2018</b> , 20, 1700643	3.5 8
18	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> , <b>2018</b> , 42, 38-51	10.1 8
17	Coupled cooling method for multiple latent heat thermal storage devices combined with pre-cooling of envelope: Model development and operation optimization. <i>Energy</i> , <b>2018</b> , 159, 508-524	7.9 7
16	Numerical analysis of the aerothermodynamic behavior of a Hyperloop in choked flow. <i>Energy</i> , <b>2021</b> , 237, 121427	7.9 7
15	Numerical simulation of smoke stratification in tunnel fires under longitudinal velocities. <i>Underground Space (China)</i> , <b>2021</b> , 6, 163-172	3.7 6
14	Steady-state equation of water vapor sorption for CaCl <sub>2</sub> -based chemical sorbents and its application. <i>Scientific Reports</i> , <b>2016</b> , 6, 34115	4.9 5
13	Experimental Investigation on Performance Comparison of Solar Water Heating-Phase Change Material System and Solar Water Heating System. <i>Energies</i> , <b>2019</b> , 12, 2347	3.1 4
12	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> , <b>2017</b> , 134, 45446	2.9 4
11	Optimization of falling film thermosyphons bundle arrangement for large-scale cooling applications by genetic algorithm. <i>Applied Thermal Engineering</i> , <b>2020</b> , 169, 114892	5.8 3
10	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> , <b>2022</b> , 45, 103726	7.8 2
9	Comparative numerical study of aerodynamic heating and performance of transonic hyperloop pods with different noses. <i>Case Studies in Thermal Engineering</i> , <b>2022</b> , 29, 101701	5.6 2
8	Melting and solidification performance in two horizontal shell-and-tube heat exchangers with different structures. <i>International Journal of Energy Research</i> , <b>2020</b> , 44, 11288-11301	4.5 2

7	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> , <b>2021</b> , 230, 110482	7	2
6	Heat pipe/phase change material coupled thermal management in Li-ion battery packs: optimization and energy-saving assessment. <i>Applied Thermal Engineering</i> , <b>2022</b> , 208, 118211	5.8	1
5	Buried water-phase change material storage for load shifting: A parametric study. <i>Energy and Buildings</i> , <b>2020</b> , 227, 110428	7	1
4	Thermal performance of energy diaphragm wall (EDW) adjacent to air-conditioned space from the underground-engineering perspective. <i>Geothermics</i> , <b>2021</b> , 91, 102044	4.3	1
3	Performance analysis of photovoltaic-thermal road assisted ground source heat pump system during non-heating season. <i>Solar Energy</i> , <b>2021</b> , 221, 10-29	6.8	1
2	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> , <b>2019</b> , 609, 052040	0.4	
1	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> , <b>2022</b> , 5, 3100-3109	6.1	