

# Chuan Li

## List of Publications by Year in descending order

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Version: 2024-02-01

40  
papers

1,477  
citations

304368

22  
h-index

315357

38  
g-index

40  
all docs

40  
docs citations

40  
times ranked

890  
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermal energy charging behaviour of a heat exchange device with a zigzag plate configuration containing multi-phase-change-materials (m-PCMs). <i>Applied Energy</i> , 2015, 142, 328-336.	5.1	124
2	Thermodynamic study on the effect of cold and heat recovery on performance of liquid air energy storage. <i>Applied Energy</i> , 2018, 221, 86-99.	5.1	118
3	A review of performance investigation and enhancement of shell and tube thermal energy storage device containing molten salt based phase change materials for medium and high temperature applications. <i>Applied Energy</i> , 2019, 255, 113806.	5.1	111
4	Flexible integration of liquid air energy storage with liquefied natural gas regasification for power generation enhancement. <i>Applied Energy</i> , 2019, 251, 113355.	5.1	107
5	Liquid air energy storage flexibly coupled with LNG regasification for improving air liquefaction. <i>Applied Energy</i> , 2019, 250, 1190-1201.	5.1	96
6	Skeleton materials for shape-stabilization of high temperature salts based phase change materials: A critical review. <i>Renewable and Sustainable Energy Reviews</i> , 2020, 119, 109539.	8.2	90
7	Thermal energy storage: Challenges and the role of particle technology. <i>Particuology</i> , 2014, 15, 2-8.	2.0	69
8	Active cooling based battery thermal management using composite phase change materials. <i>Energy Procedia</i> , 2019, 158, 4933-4940.	1.8	66
9	MgO based composite phase change materials for thermal energy storage: The effects of MgO particle density and size on microstructural characteristics as well as thermophysical and mechanical properties. <i>Applied Energy</i> , 2019, 250, 81-91.	5.1	51
10	Investigation on the thermal performance of a high temperature packed bed thermal energy storage system containing carbonate salt based composite phase change materials. <i>Applied Energy</i> , 2019, 247, 374-388.	5.1	49
11	Comparative study of the transient natural convection in an underground water pit thermal storage. <i>Applied Energy</i> , 2017, 208, 1162-1173.	5.1	47
12	Carbonate salt based composite phase change materials for medium and high temperature thermal energy storage: A microstructural study. <i>Solar Energy Materials and Solar Cells</i> , 2019, 196, 25-35.	3.0	47
13	Heat transfer performance of thermal energy storage components containing composite phase change materials. <i>IET Renewable Power Generation</i> , 2016, 10, 1515-1522.	1.7	37
14	Evaluation of different melting performance enhancement structures in a shell-and-tube latent heat thermal energy storage system. <i>Renewable Energy</i> , 2022, 187, 829-843.	4.3	37
15	Heat transfer of composite phase change material modules containing a eutectic carbonate salt for medium and high temperature thermal energy storage applications. <i>Applied Energy</i> , 2019, 238, 1074-1083.	5.1	34
16	Diatomite-based porous ceramics with high apparent porosity: Pore structure modification using calcium carbonate. <i>Ceramics International</i> , 2019, 45, 6085-6092.	2.3	34
17	Wettability of eutectic NaLiCO <sub>3</sub> salt on magnesium oxide substrates at 778â€°K. <i>Applied Surface Science</i> , 2018, 442, 148-155.	3.1	31
18	Carbonate salt based composite phase change materials for medium and high temperature thermal energy storage: From component to device level performance through modelling. <i>Renewable Energy</i> , 2019, 140, 140-151.	4.3	29

#	ARTICLE	IF	CITATIONS
19	Fabrication and thermal properties investigation of aluminium based composite phase change material for medium and high temperature thermal energy storage. <i>Solar Energy Materials and Solar Cells</i> , 2020, 211, 110511.	3.0	29
20	Investigation on the effective thermal conductivity of carbonate salt based composite phase change materials for medium and high temperature thermal energy storage. <i>Energy</i> , 2019, 176, 728-741.	4.5	28
21	Enhanced thermal energy storage of nitrate salts by silica nanoparticles for concentrating solar power. <i>International Journal of Energy Research</i> , 2021, 45, 5248-5262.	2.2	25
22	A Form Stable Composite Phase Change Material for Thermal Energy Storage Applications over 700 °C. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 814.	1.3	24
23	A novel expander-depending natural gas pressure regulation configuration: Performance analysis. <i>Applied Energy</i> , 2018, 220, 21-35.	5.1	23
24	Numerical and experimental study of particle deposition on inner wall of 180° bend. <i>Powder Technology</i> , 2013, 237, 241-254.	2.1	20
25	Development and investigation of form-stable quaternary nitrate salt based composite phase change material with extremely low melting temperature and large temperature range for low-mid thermal energy storage. <i>Energy Reports</i> , 2022, 8, 1528-1537.	2.5	18
26	Heat transfer enhancement of a molten salt parabolic trough solar receiver with concentric and eccentric pipe inserts. <i>Energy Procedia</i> , 2017, 142, 624-629.	1.8	15
27	Effects of Synthesis Methods on Thermal Performance of Nitrate Salt Nanofluids for Concentrating Solar Power. <i>Energy &amp; Fuels</i> , 2020, 34, 11606-11619.	2.5	14
28	Experimental and numerical studies of a fatty acid based phase change dispersion for enhancing cooling of high voltage electrical devices. <i>Energy</i> , 2020, 198, 117280.	4.5	14
29	Influences of the key characteristic parameters on the thermal performance of a water pit seasonal thermal storage. <i>Energy Procedia</i> , 2017, 142, 495-500.	1.8	13
30	Formulation and Characterisation of Ternary Salt Based Solutions as Phase Change Materials for Cold Chain Applications. <i>Energy Procedia</i> , 2019, 158, 5103-5108.	1.8	12
31	Liquid Air Energy Storage with LNG cold recovery for air liquefaction improvement. <i>Energy Procedia</i> , 2019, 158, 4759-4764.	1.8	11
32	Investigation on transient cooling process in a water heat storage tank with inclined sidewalls. <i>Energy Procedia</i> , 2017, 142, 142-147.	1.8	10
33	Evaluation of thermal performance in cold storage applications using EG-water based nano-composite PCMs. <i>Energy Procedia</i> , 2019, 158, 4840-4845.	1.8	9
34	A novel high temperature electrical storage heater using an inorganic salt based composite phase change material. <i>Energy Storage</i> , 2019, 1, e88.	2.3	7
35	Synthesis and investigation of form-stable myristic acid based composite phase change material containing styrene ethylene butylene styrene with enhanced properties for thermal energy storage. <i>Journal of Energy Storage</i> , 2022, 52, 104594.	3.9	7
36	High performance cooling of a HVDC converter using a fatty acid ester based phase change dispersion in a heat sink with double layer oblique crossed ribs. <i>International Journal of Energy Research</i> , 2020, 44, 5819-5840.	2.2	6

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37	Enhancement of melting performance in a shell and tube thermal energy storage device under different structures and materials. <i>Applied Thermal Engineering</i> , 2022, 214, 118701.	3.0	6
38	Effects of MgO particle size and density on microstructure development of MgO based composite phase change materials. <i>Energy Procedia</i> , 2019, 158, 4517-4522.	1.8	5
39	Composite phase change materials for thermal energy storage: From molecular modelling based formulation to innovative manufacture. <i>Energy Procedia</i> , 2019, 158, 4510-4516.	1.8	3
40	Rheological behaviour and aggregation kinetics of EG/water based MCNT nano-suspension for sub-zero temperature cold storage. <i>Energy Procedia</i> , 2019, 158, 4846-4851.	1.8	1