

Chuan Li

List of Publications by Citations

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Version: 2024-04-26

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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.

40
papers

826
citations

17
h-index

28
g-index

40
ext. papers

1,162
ext. citations

6.2
avg, IF

4.61
L-index

#	Paper	IF	Citations
40	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	10.7	81
39	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	10.7	71
38	Flexible integration of liquid air energy storage with liquefied natural gas regasification for power generation enhancement. <i>Applied Energy</i> , 2019 , 251, 113355	10.7	58
37	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	10.7	55
36	Liquid air energy storage flexibly coupled with LNG regasification for improving air liquefaction. <i>Applied Energy</i> , 2019 , 250, 1190-1201	10.7	55
35	Thermal energy storage: Challenges and the role of particle technology. <i>Particuology</i> , 2014 , 15, 2-8	2.8	51
34	Active cooling based battery thermal management using composite phase change materials. <i>Energy Procedia</i> , 2019 , 158, 4933-4940	2.3	41
33	Comparative study of the transient natural convection in an underground water pit thermal storage. <i>Applied Energy</i> , 2017 , 208, 1162-1173	10.7	35
32	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	16.2	30
31	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	6.4	28
30	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	10.7	27
29	Heat transfer performance of thermal energy storage components containing composite phase change materials. <i>IET Renewable Power Generation</i> , 2016 , 10, 1515-1522	2.9	26
28	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	10.7	22
27	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	10.7	22
26	Wettability of eutectic NaLiCO ₃ salt on magnesium oxide substrates at 778 K. <i>Applied Surface Science</i> , 2018 , 442, 148-155	6.7	20
25	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	8.1	18
24	Diatomite-based porous ceramics with high apparent porosity: Pore structure modification using calcium carbonate. <i>Ceramics International</i> , 2019 , 45, 6085-6092	5.1	18

23	A novel expander-depending natural gas pressure regulation configuration: Performance analysis. <i>Applied Energy</i> , 2018 , 220, 21-35	10.7	17
22	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	7.9	16
21	A Form Stable Composite Phase Change Material for Thermal Energy Storage Applications over 700 °C. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 814	2.6	15
20	Numerical and experimental study of particle deposition on inner wall of 180° bend. <i>Powder Technology</i> , 2013 , 237, 241-254	5.2	15
19	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	2.3	13
18	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	4.5	12
17	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	7.9	11
16	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	2.3	10
15	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	6.4	8
14	Formulation and Characterisation of Ternary Salt Based Solutions as Phase Change Materials for Cold Chain Applications. <i>Energy Procedia</i> , 2019 , 158, 5103-5108	2.3	7
13	Evaluation of thermal performance in cold storage applications using EG-water based nano-composite PCMs. <i>Energy Procedia</i> , 2019 , 158, 4840-4845	2.3	7
12	Liquid Air Energy Storage with LNG cold recovery for air liquefaction improvement. <i>Energy Procedia</i> , 2019 , 158, 4759-4764	2.3	6
11	Investigation on transient cooling process in a water heat storage tank with inclined sidewalls. <i>Energy Procedia</i> , 2017 , 142, 142-147	2.3	6
10	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	4.5	5
9	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	2.3	4
8	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	8.1	4
7	Effects of Synthesis Methods on Thermal Performance of Nitrate Salt Nanofluids for Concentrating Solar Power. <i>Energy & Fuels</i> , 2020 , 34, 11606-11619	4.1	4
6	Composite phase change materials for thermal energy storage: From molecular modelling based formulation to innovative manufacture. <i>Energy Procedia</i> , 2019 , 158, 4510-4516	2.3	3

5	A novel high temperature electrical storage heater using an inorganic salt based composite phase change material. <i>Energy Storage</i> , 2019 , 1, e88	2.8	2
4	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	2.3	1
3	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	4.6	1
2	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	7.8	1
1	Enhancement of melting performance in a shell and tube thermal energy storage device under different structures and materials. <i>Applied Thermal Engineering</i> , 2022 , 118701	5.8	0