

Ming Liu

List of Publications by Year in descending order

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63
papers

3,084
citations

201385

27
h-index

155451

55
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64
all docs

64
docs citations

64
times ranked

2367
citing authors

#	ARTICLE	IF	CITATIONS
1	Review on concentrating solar power plants and new developments in high temperature thermal energy storage technologies. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 53, 1411-1432.	8.2	698
2	Review on storage materials and thermal performance enhancement techniques for high temperature phase change thermal storage systems. <i>Renewable and Sustainable Energy Reviews</i> , 2012, 16, 2118-2132.	8.2	673
3	Development of a novel refrigeration system for refrigerated trucks incorporating phase change material. <i>Applied Energy</i> , 2012, 92, 336-342.	5.1	156
4	Numerical study of melting performance enhancement for PCM in an annular enclosure with internal-external fins and metal foams. <i>International Journal of Heat and Mass Transfer</i> , 2020, 150, 119348.	2.5	129
5	Eutectic Na ₂ CO ₃ -NaCl salt: A new phase change material for high temperature thermal storage. <i>Solar Energy Materials and Solar Cells</i> , 2016, 152, 155-160.	3.0	97
6	Determination of thermo-physical properties and stability testing of high-temperature phase-change materials for CSP applications. <i>Solar Energy Materials and Solar Cells</i> , 2015, 139, 81-87.	3.0	90
7	Review on transportable phase change material in thermal energy storage systems. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 75, 264-277.	8.2	86
8	Investigation of the effect of dynamic melting in a tube-in-tank PCM system using a CFD model. <i>Applied Energy</i> , 2015, 137, 738-747.	5.1	59
9	Validation of a mathematical model for encapsulated phase change material flat slabs for cooling applications. <i>Applied Thermal Engineering</i> , 2011, 31, 2340-2347.	3.0	55
10	Optimising PCM thermal storage systems for maximum energy storage effectiveness. <i>Solar Energy</i> , 2012, 86, 2263-2272.	2.9	54
11	A eutectic salt high temperature phase change material: Thermal stability and corrosion of SS316 with respect to thermal cycling. <i>Solar Energy Materials and Solar Cells</i> , 2017, 170, 1-7.	3.0	52
12	Review on the development of high temperature phase change material composites for solar thermal energy storage. <i>Solar Energy Materials and Solar Cells</i> , 2019, 203, 110164.	3.0	52
13	Impact of the heat transfer fluid in a flat plate phase change thermal storage unit for concentrated solar tower plants. <i>Solar Energy</i> , 2014, 101, 220-231.	2.9	51
14	Design of sensible and latent heat thermal energy storage systems for concentrated solar power plants: Thermal performance analysis. <i>Renewable Energy</i> , 2020, 151, 1286-1297.	4.3	50
15	Thermo-economic assessments of pumped-thermal electricity storage systems employing sensible heat storage materials. <i>Renewable Energy</i> , 2022, 186, 431-456.	4.3	47
16	Phase change behaviour study of PCM tanks partially filled with graphite foam. <i>Applied Thermal Engineering</i> , 2021, 196, 117313.	3.0	46
17	A review of high temperature thermal energy storage. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 160, 112293.	8.2	43
18	Simulations of melting performance enhancement for a PCM embedded in metal periodic structures. <i>International Journal of Heat and Mass Transfer</i> , 2021, 168, 120853.	2.5	40

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19	A review of numerical modelling of high-temperature phase change material composites for solar thermal energy storage. <i>Journal of Energy Storage</i> , 2020, 29, 101378.	3.9	39
20	Computer simulation with TRNSYS for a mobile refrigeration system incorporating a phase change thermal storage unit. <i>Applied Energy</i> , 2014, 132, 226-235.	5.1	36
21	Thermal performance analysis of a flat slab phase change thermal storage unit with liquid-based heat transfer fluid for cooling applications. <i>Solar Energy</i> , 2011, 85, 3017-3027.	2.9	35
22	Influence of cascaded graphite foams on thermal performance of high temperature phase change material storage systems. <i>Applied Thermal Engineering</i> , 2020, 180, 115618.	3.0	31
23	Characterisation of promising phase change materials for high temperature thermal energy storage. <i>Journal of Energy Storage</i> , 2019, 24, 100801.	3.9	30
24	Investigation of Cascaded Shell and Tube Latent Heat Storage Systems for Solar Tower Power Plants. <i>Energy Procedia</i> , 2015, 69, 913-924.	1.8	29
25	Effective tube-in-tank PCM thermal storage for CSP applications, Part 1: Impact of tube configuration on discharging effectiveness. <i>Solar Energy</i> , 2016, 139, 733-743.	2.9	29
26	Using renewables coupled with thermal energy storage to reduce natural gas consumption in higher temperature commercial/industrial applications. <i>Renewable Energy</i> , 2019, 131, 1035-1046.	4.3	28
27	Numerical investigation of phase change material thermal storage for space cooling. <i>Applied Energy</i> , 2019, 239, 526-535.	5.1	28
28	Computational efficiency in numerical modeling of high temperature latent heat storage: Comparison of selected software tools based on experimental data. <i>Applied Energy</i> , 2016, 161, 337-348.	5.1	26
29	Review of analytical studies of melting rate enhancement with fin and/or foam inserts. <i>Applied Thermal Engineering</i> , 2022, 207, 118154.	3.0	26
30	Novel solid–solid phase-change cascade systems for high-temperature thermal energy storage. <i>Solar Energy</i> , 2019, 177, 274-283.	2.9	25
31	Review and characterisation of high-temperature phase change material candidates between 500°C and 700°C. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 150, 111528.	8.2	24
32	Techno-economic analysis on the design of sensible and latent heat thermal energy storage systems for concentrated solar power plants. <i>Renewable Energy</i> , 2021, 178, 443-455.	4.3	24
33	Thermo-economic optimization of the thermal energy storage system extracting heat from the reheat steam for coal-fired power plants. <i>Applied Thermal Engineering</i> , 2022, 215, 119008.	3.0	21
34	Experimental investigation of specific heat capacity improvement of a binary nitrate salt by addition of nanoparticles/microparticles. <i>Journal of Energy Storage</i> , 2019, 22, 137-143.	3.9	19
35	A comprehensive study on a novel transcritical CO ₂ heat pump for simultaneous space heating and cooling – Concepts and initial performance. <i>Energy Conversion and Management</i> , 2021, 243, 114397.	4.4	18
36	Corrosion of AISI316 as containment material for latent heat thermal energy storage systems based on carbonates. <i>Solar Energy Materials and Solar Cells</i> , 2018, 186, 1-8.	3.0	17

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37	Effective tube-in-tank PCM thermal storage for CSP applications, Part 2: Parametric assessment and impact of latent fraction. <i>Solar Energy</i> , 2016, 139, 744-756.	2.9	16
38	Investigation of the effect of thermal resistance on the performance of phase change materials. <i>International Journal of Thermal Sciences</i> , 2021, 164, 106852.	2.6	16
39	Investigation into the behaviour of aluminium and steel under melt/freeze cyclic conditions. <i>Journal of Energy Storage</i> , 2018, 17, 249-260.	3.9	9
40	An optimisation study on a real-world transcritical CO ₂ heat pump system with a flash gas bypass. <i>Energy Conversion and Management</i> , 2022, 251, 114995.	4.4	9
41	Assessment of exergy delivery of thermal energy storage systems for CSP plants: Cascade PCMs, graphite-PCMs and two-tank sensible heat storage systems. <i>Sustainable Energy Technologies and Assessments</i> , 2020, 42, 100823.	1.7	8
42	Technoeconomic Impacts of Storage System Design on the Viability of Concentrated Solar Power Plants. <i>Journal of Energy Storage</i> , 2021, 34, 101987.	3.9	8
43	Mathematical modelling of heat transmission in the temperature history apparatus by using inverse method to evaluate the latent heat of high temperature PCMs. <i>International Journal of Heat and Mass Transfer</i> , 2021, 167, 120825.	2.5	8
44	Modified T-history method for measuring thermophysical properties of phase change materials at high temperature. <i>AIP Conference Proceedings</i> , 2017, , .	0.3	7
45	Materials for Phase Change Material at High Temperature. , 2018, , 195-230.		7
46	Corrosion interface formation in thermally cycled stainless steel 316 with high-temperature phase change material. <i>Solar Energy Materials and Solar Cells</i> , 2021, 225, 111062.	3.0	6
47	Chemical degradation in Thermally Cycled Stainless Steel 316 with High-Temperature Phase Change Material. <i>Solar Energy Materials and Solar Cells</i> , 2021, 230, 111216.	3.0	4
48	Periodic structures for melting enhancement: observation of critical cell size and localized melting. <i>International Journal of Heat and Mass Transfer</i> , 2022, 195, 123107.	2.5	4
49	Solid-liquid phase change materials for thermal energy storage. , 2021, , 221-268.		3
50	SELECTION OF THE MELTING TEMPERATURE OF PHASE CHANGE MATERIALS CONSIDERING LOCAL CLIMATE. , 2017, , .		3
51	Investigation of lithium sulphate for high temperature thermal energy storage. <i>AIP Conference Proceedings</i> , 2017, , .	0.3	2
52	A new methodology for designing and assessing latent heat thermal energy storage systems. <i>AIP Conference Proceedings</i> , 2020, , .	0.3	2
53	Stability and corrosion testing of a high temperature phase change material for CSP applications. <i>AIP Conference Proceedings</i> , 2016, , .	0.3	1
54	Dynamic Concept at University of South Australia. , 2018, , 39-92.		1

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55	Static Concept at University of South Australia. , 2018, , 157-191.		1
56	A novel, low-cost and robust method for determining molten salt density at high temperatures. Journal of Energy Storage, 2021, 41, 102935.	3.9	1
57	Macroscopic investigation into the interaction of liquid sodium and a molten carbonate. AIP Conference Proceedings, 2020, , .	0.3	1
58	Thermal insulation for a high temperature molten salt storage tank in a CSP plant. AIP Conference Proceedings, 2020, , .	0.3	1
59	Investigating the effect of interstage pressure on cooling performance of a real-world CO2 heat pump system. IOP Conference Series: Earth and Environmental Science, 2022, 983, 012077.	0.2	1
60	Orientation impact on structural integrity of a shell and tube latent heat thermal energy storage system. Journal of Energy Storage, 2022, 52, 104829.	3.9	1
61	Using thermal energy storage to replace natural gas in commercial/industrial applications. AIP Conference Proceedings, 2018, , .	0.3	0
62	Thermal Performance Of A Pcm Thermal Storage Unit. , 2008, , 2766-2771.		0
63	Melt path formation in a high temperature molten salt horizontal shell and tube storage system for CSP plants. AIP Conference Proceedings, 2020, , .	0.3	0