

Xiaohui She

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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.

58

papers

1,086

citations

18

h-index

31

g-index

61

ext. papers

1,471

ext. citations

6.3

avg, IF

4.88

L-index

#	Paper	IF	Citations
58	Enhancement of round trip efficiency of liquid air energy storage through effective utilization of heat of compression. <i>Applied Energy</i> , 2017 , 206, 1632-1642	10.7	108
57	Energy-efficient and -economic technologies for air conditioning with vapor compression refrigeration: A comprehensive review. <i>Applied Energy</i> , 2018 , 232, 157-186	10.7	91
56	n-Alkanes Phase Change Materials and Their Microencapsulation for Thermal Energy Storage: A Critical Review. <i>Energy & Fuels</i> , 2018 , 32, 7262-7293	4.1	90
55	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
54	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
53	Liquid air energy storage flexibly coupled with LNG regasification for improving air liquefaction. <i>Applied Energy</i> , 2019 , 250, 1190-1201	10.7	55
52	A novel low-grade heat-driven absorption refrigeration system with LiCl-H ₂ O and LiBr-H ₂ O working pairs. <i>International Journal of Refrigeration</i> , 2015 , 58, 219-234	3.8	42
51	Thermodynamic analysis of a novel energy-efficient refrigeration system subcooled by liquid desiccant dehumidification and evaporation. <i>Energy Conversion and Management</i> , 2014 , 78, 286-296	10.6	41
50	Significant photothermal conversion enhancement of nanofluids induced by Rayleigh-Bénard convection for direct absorption solar collectors. <i>Applied Energy</i> , 2019 , 254, 113706	10.7	37
49	Bubble formation on solid surface with a cavity based on molecular dynamics simulation. <i>International Journal of Heat and Mass Transfer</i> , 2016 , 95, 278-287	4.9	32
48	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
47	A proposed subcooling method for vapor compression refrigeration cycle based on expansion power recovery. <i>International Journal of Refrigeration</i> , 2014 , 43, 50-61	3.8	27
46	Performance study of phase change materials coupled with three-dimensional oscillating heat pipes with different structures for electronic cooling. <i>Renewable Energy</i> , 2020 , 154, 636-649	8.1	24
45	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
44	Experimental study of a novel double temperature chiller based on R32/R236fa. <i>Energy Conversion and Management</i> , 2016 , 124, 618-626	10.6	22
43	Experimental and theoretical study on a novel double evaporating temperature chiller applied in THICS using R32/R236fa. <i>International Journal of Refrigeration</i> , 2017 , 75, 343-351	3.8	21
42	Techno-economic analyses of multi-functional liquid air energy storage for power generation, oxygen production and heating. <i>Applied Energy</i> , 2020 , 275, 115392	10.7	20

41	Investigation on air flow patterns of evaporative cooling and dehumidification process for a hybrid refrigeration system. <i>Applied Thermal Engineering</i> , 2016 , 95, 79-94	5.8	20
40	Suggested solution concentration for an energy-efficient refrigeration system combined with condensation heat-driven liquid desiccant cycle. <i>Renewable Energy</i> , 2015 , 83, 553-564	8.1	17
39	System performance and economic assessment of a thermal energy storage based air-conditioning unit for transport applications. <i>Applied Energy</i> , 2019 , 251, 113254	10.7	16
38	Analytical study on condensation heat distribution modes in a hybrid vapor compression refrigeration system. <i>Energy and Buildings</i> , 2015 , 88, 288-302	7	16
37	Discharging performance enhancement of a phase change material based thermal energy storage device for transport air-conditioning applications. <i>Applied Thermal Engineering</i> , 2020 , 165, 114582	5.8	14
36	Experimental study of charging a compact PCM energy storage device for transport application with dynamic exergy analysis. <i>Energy Conversion and Management</i> , 2019 , 196, 536-544	10.6	13
35	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
34	Theoretical analysis on performance enhancement of stand-alone liquid air energy storage from perspective of energy storage and heat transfer. <i>Energy Procedia</i> , 2017 , 142, 3498-3504	2.3	12
33	Liquid Air Energy Storage for Decentralized Micro Energy Networks with Combined Cooling, Heating, Hot Water and Power Supply. <i>Journal of Thermal Science</i> , 2021 , 30, 1-17	1.9	11
32	Experimental study of a novel subcooling method based on liquid desiccant dehumidification for vapor-compression refrigeration systems. <i>Applied Thermal Engineering</i> , 2018 , 130, 1460-1471	5.8	11
31	Dynamic analysis of a novel standalone liquid air energy storage system for industrial applications. <i>Energy Conversion and Management</i> , 2021 , 245, 114537	10.6	11
30	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
29	Thermodynamic analysis of Liquid Air Energy Storage integrated with a serial system of Organic Rankine and Absorption Refrigeration Cycles driven by compression heat. <i>Energy Procedia</i> , 2017 , 142, 3440-3446	2.3	10
28	Comparative study on the liquid desiccant dehumidification performance of lithium chloride and potassium formate. <i>Renewable Energy</i> , 2021 , 167, 841-852	8.1	10
27	Liquid desiccant regeneration for advanced air conditioning: A comprehensive review on desiccant materials, regenerators, systems and improvement technologies. <i>Applied Energy</i> , 2022 , 308, 118394	10.7	9
26	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
25	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
24	Charging properties of a compact energy storage device for transport air conditioning applications. <i>Energy Procedia</i> , 2017 , 142, 3531-3536	2.3	7

23	The effect of air purification on liquid air energy storage [An analysis from molecular to systematic modelling. <i>Applied Energy</i> , 2021 , 300, 117349	10.7	7
22	Liquid Air Energy Storage with LNG cold recovery for air liquefaction improvement. <i>Energy Procedia</i> , 2019 , 158, 4759-4764	2.3	6
21	Preliminary study of Liquid Air Energy Storage integrated with LNG cold recovery. <i>Energy Procedia</i> , 2019 , 158, 4903-4908	2.3	6
20	Development of a heat transfer coefficient based design method of a thermal energy storage device for transport air-conditioning applications. <i>Energy</i> , 2020 , 196, 117083	7.9	6
19	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
18	Fabrication of form stable composite phase change materials for thermal energy storage by direct powder incorporation with a preheating process. <i>Powder Technology</i> , 2021 , 391, 544-556	5.2	6
17	Cryogenic thermoelectric generation using cold energy from a decoupled liquid air energy storage system for decentralised energy networks. <i>Applied Energy</i> , 2022 , 305, 117749	10.7	5
16	Mechanism of Specific Heat Capacity Enhancement of Molten Salts Based Nanofluids for Thermal Energy Storage - A Molecular Study 2019 ,		4
15	Configuration optimization of stand-alone Liquid Air Energy Storage for efficiency improvement. <i>IOP Conference Series: Materials Science and Engineering</i> , 2020 , 502, 012015	0.4	4
14	Development and application of a dynamic model for a solar assisted liquid desiccant air conditioning system. <i>Science and Technology for the Built Environment</i> , 2019 , 25, 128-138	1.8	4
13	Cryogenic Energy Storage and Its Integration With Nuclear Power Generation for Load Shift 2019 , 249-273		4
12	Molecular investigation on the anomalous phenomenon at liquid desiccant surfaces for air conditioning. <i>Building Simulation</i> , 2020 , 13, 599-608	3.9	3
11	Integrated Cryogenic and Thermal Energy Storage for Decarbonizing Energy Consumption: Development and Challenges. <i>ES Energy & Environments</i> , 2019 ,	2.9	3
10	Enhancement of therminol-based nanofluids with reverse-irradiation for medium-temperature direct absorption solar collection. <i>Materials Today Energy</i> , 2020 , 17, 100480	7	3
9	Performance investigation of a liquid desiccant regenerator with CFD technology. <i>Applied Thermal Engineering</i> , 2021 , 184, 116055	5.8	3
8	A novel composite phase change material for medium temperature thermal energy storage manufactured with a scalable continuous hot-melt extrusion method. <i>Applied Energy</i> , 2021 , 303, 117591 ^{10.7}	10.7	3
7	Molecular dynamics simulation on LiCl-H ₂ O interfacial phenomenon for liquid desiccant dehumidification. <i>Energy Procedia</i> , 2019 , 158, 2106-2111	2.3	2
6	A power plant for integrated waste energy recovery from liquid air energy storage and liquefied natural gas. <i>Chinese Journal of Chemical Engineering</i> , 2021 , 34, 242-257	3.2	2

5	A novel method to predict thermal conductivity of NaCl/water based MCNT nano-suspension for cold energy storage. <i>Energy Procedia</i> , 2019 , 158, 4834-4839	2.3	1
4	Performance analysis of liquid air energy storage with enhanced cold storage density for combined heating and power generation. <i>Journal of Energy Storage</i> , 2022 , 46, 103836	7.8	1
3	Performance Evaluation of Liquid Air Energy Storage with Air Purification 2021 , 757-771		1
2	The optimal design and operation of a hybrid renewable micro-grid with the decoupled liquid air energy storage. <i>Journal of Cleaner Production</i> , 2022 , 334, 130189	10.3	0
1	Cryogenic Energy Storage 2021 ,		0