

Xiaohui She

List of Publications by Year in descending order

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Version: 2024-02-01

61
papers

1,896
citations

279798

23
h-index

265206

42
g-index

61
all docs

61
docs citations

61
times ranked

1157
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	10.1	171
2	Energy-efficient and -economic technologies for air conditioning with vapor compression refrigeration: A comprehensive review. <i>Applied Energy</i> , 2018, 232, 157-186.	10.1	150
3	Alkanes Phase Change Materials and Their Microencapsulation for Thermal Energy Storage: A Critical Review. <i>Energy & Fuels</i> , 2018, 32, 7262-7293.	5.1	123
4	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.	10.1	118
5	Flexible integration of liquid air energy storage with liquefied natural gas regasification for power generation enhancement. <i>Applied Energy</i> , 2019, 251, 113355.	10.1	107
6	Liquid air energy storage flexibly coupled with LNG regasification for improving air liquefaction. <i>Applied Energy</i> , 2019, 250, 1190-1201.	10.1	96
7	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.	16.4	90
8	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.	3.4	65
9	Significant photothermal conversion enhancement of nanofluids induced by Rayleigh-Bénard convection for direct absorption solar collectors. <i>Applied Energy</i> , 2019, 254, 113706.	10.1	61
10	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.	4.8	54
11	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.	9.2	53
12	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.	8.9	51
13	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.	10.1	51
14	Techno-economic analyses of multi-functional liquid air energy storage for power generation, oxygen production and heating. <i>Applied Energy</i> , 2020, 275, 115392.	10.1	46
15	A proposed subcooling method for vapor compression refrigeration cycle based on expansion power recovery. <i>International Journal of Refrigeration</i> , 2014, 43, 50-61.	3.4	41
16	Dynamic analysis of a novel standalone liquid air energy storage system for industrial applications. <i>Energy Conversion and Management</i> , 2021, 245, 114537.	9.2	38
17	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.	10.1	34
18	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.	6.0	31

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19	Comparative study on the liquid desiccant dehumidification performance of lithium chloride and potassium formate. <i>Renewable Energy</i> , 2021, 167, 841-852.	8.9	31
20	Experimental study of a novel double temperature chiller based on R32/R236fa. <i>Energy Conversion and Management</i> , 2016, 124, 618-626.	9.2	26
21	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	26
22	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.	3.4	25
23	System performance and economic assessment of a thermal energy storage based air-conditioning unit for transport applications. <i>Applied Energy</i> , 2019, 251, 113254.	10.1	25
24	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.	10.1	23
25	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.	6.0	22
26	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.	9.2	22
27	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.	1.8	21
28	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.	8.9	19
29	Analytical study on condensation heat distribution modes in a hybrid vapor compression refrigeration system. <i>Energy and Buildings</i> , 2015, 88, 288-302.	6.7	17
30	The effect of air purification on liquid air energy storage – An analysis from molecular to systematic modelling. <i>Applied Energy</i> , 2021, 300, 117349.	10.1	17
31	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.	10.1	17
32	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.	4.2	16
33	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
34	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.	1.8	15
35	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.	6.0	14
36	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

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37	Formulation and Characterisation of Ternary Salt Based Solutions as Phase Change Materials for Cold Chain Applications. Energy Procedia, 2019, 158, 5103-5108.	1.8	12
38	Liquid Air Energy Storage with LNG cold recovery for air liquefaction improvement. Energy Procedia, 2019, 158, 4759-4764.	1.8	11
39	Development of a heat transfer coefficient based design method of a thermal energy storage device for transport air-conditioning applications. Energy, 2020, 196, 117083.	8.8	11
40	Investigation on transient cooling process in a water heat storage tank with inclined sidewalls. Energy Procedia, 2017, 142, 142-147.	1.8	10
41	The optimal design and operation of a hybrid renewable micro-grid with the decoupled liquid air energy storage. Journal of Cleaner Production, 2022, 334, 130189.	9.3	10
42	Charging properties of a compact energy storage device for transport air conditioning applications. Energy Procedia, 2017, 142, 3531-3536.	1.8	9
43	Preliminary study of Liquid Air Energy Storage integrated with LNG cold recovery. Energy Procedia, 2019, 158, 4903-4908.	1.8	9
44	Evaluation of thermal performance in cold storage applications using EG-water based nano-composite PCMs. Energy Procedia, 2019, 158, 4840-4845.	1.8	9
45	A power plant for integrated waste energy recovery from liquid air energy storage and liquefied natural gas. Chinese Journal of Chemical Engineering, 2021, 34, 242-257.	3.5	9
46	Performance investigation of a liquid desiccant regenerator with CFD technology. Applied Thermal Engineering, 2021, 184, 116055.	6.0	7
47	Liquid air energy storage with effective recovery, storage and utilization of cold energy from liquid air evaporation. Energy Conversion and Management, 2022, 267, 115708.	9.2	7
48	Enhancement of thermionol-based nanofluids with reverse-irradiation for medium-temperature direct absorption solar collection. Materials Today Energy, 2020, 17, 100480.	4.7	6
49	Performance analysis of liquid air energy storage with enhanced cold storage density for combined heating and power generation. Journal of Energy Storage, 2022, 46, 103836.	8.1	6
50	Development and application of a dynamic model for a solar assisted liquid desiccant air conditioning system. Science and Technology for the Built Environment, 2019, 25, 128-138.	1.7	5
51	Cryogenic Energy Storage and Its Integration With Nuclear Power Generation for Load Shift. , 2019, , 249-273.		5
52	Molecular investigation on the anomalous phenomenon at liquid desiccant surfaces for air conditioning. Building Simulation, 2020, 13, 599-608.	5.6	5
53	Mechanism of Specific Heat Capacity Enhancement of Molten Salts Based Nanofluids for Thermal Energy Storage - A Molecular Study. , 2019, , .		4
54	Configuration optimization of stand-alone Liquid Air Energy Storage for efficiency improvement. IOP Conference Series: Materials Science and Engineering, 0, 502, 012015.	0.6	4

#	ARTICLE	IF	CITATIONS
55	Integrated Cryogenic and Thermal Energy Storage for Decarbonizing Energy Consumption: Development and Challenges. ES Energy & Environments, 2019, , .	1.1	4
56	Experimental Study of Thermo-Physical Characteristics of Molten Nitrate Salts Based Nanof luids for Thermal Energy Storage. ES Energy & Environments, 2019, , .	1.1	3
57	Molecular dynamics simulation on LiCl-H2O interfacial phenomenon for liquid desiccant dehumidification. Energy Procedia, 2019, 158, 2106-2111.	1.8	2
58	Cryogenic Energy Storage. , 2022, , 94-107.		2
59	A novel method to predict thermal conductivity of NaCl/water based MCNT nano-suspension for cold energy storage. Energy Procedia, 2019, 158, 4834-4839.	1.8	1
60	Performance Evaluation of Liquid Air Energy Storage with Air Purification. , 2021, , 757-771.		1
61	Integrated Cryogenic and Thermal Energy Storage for Decarbonizing Energy Consumption: Development and Challenges. ES Energy & Environments, 0, , .	1.1	0