Xiaohui She

List of Publications by Year in Descending Order

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	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	7.8	1
57	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	10.3	0
56	Liquid desiccant regeneration for advanced air conditioning: A comprehensive review on desiccant materials, regenerators, systems and improvement technologies. *Applied Energy*, **2022**, 308, 118394	10.7	9
55	Cryogenic thermoelectric generation using cold energy from a decoupled liquid air energy storage system for decentralised energy networks. *Applied Energy*, **2022**, 305, 117749	10.7	5
54	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	3.2	2
53	Performance investigation of a liquid desiccant regenerator with CFD technology. *Applied Thermal Engineering*, **2021**, 184, 116055	5.8	3
52	Comparative study on the liquid desiccant dehumidification performance of lithium chloride and potassium formate. *Renewable Energy*, **2021**, 167, 841-852	8.1	10
51	Liquid Air Energy Storage for Decentralized Micro Energy Networks with Combined Cooling, Heating, Hot Water and Power Supply. *Journal of Thermal Science*, **2021**, 30, 1-17	1.9	11
50	Performance Evaluation of Liquid Air Energy Storage with Air Purification **2021**, 757-771		1
49	Cryogenic Energy Storage **2021**,		0
48	The effect of air purification on liquid air energy storage An analysis from molecular to systematic modelling. *Applied Energy*, **2021**, 300, 117349	10.7	7
47	Fabrication of form stable composite phase change materials for thermal energy storage by direct powder incorporation with a preheating process. *Powder Technology*, **2021**, 391, 544-556	5.2	6
46	Dynamic analysis of a novel standalone liquid air energy storage system for industrial applications. *Energy Conversion and Management*, **2021**, 245, 114537	10.6	11
45	A novel composite phase change material for medium temperature thermal energy storage manufactured with a scalable continuous hot-melt extrusion method. *Applied Energy*, **2021**, 303, 117591	10.7	3
44	Performance study of phase change materials coupled with three-dimensional oscillating heat pipes with different structures for electronic cooling. *Renewable Energy*, **2020**, 154, 636-649	8.1	24
43	Techno-economic analyses of multi-functional liquid air energy storage for power generation, oxygen production and heating. *Applied Energy*, **2020**, 275, 115392	10.7	20
42	Molecular investigation on the anomalous phenomenon at liquid desiccant surfaces for air conditioning. *Building Simulation*, **2020**, 13, 599-608	3.9	3

41	Development of a heat transfer coefficient based design method of a thermal energy storage device for transport air-conditioning applications. *Energy*, **2020**, 196, 117083	7.9	6
40	Skeleton materials for shape-stabilization of high temperature salts based phase change materials: A critical review. *Renewable and Sustainable Energy Reviews*, **2020**, 119, 109539	16.2	30
39	Enhancement of therminol-based nanofluids with reverse-irradiation for medium-temperature direct absorption solar collection. *Materials Today Energy*, **2020**, 17, 100480	7	3
38	Discharging performance enhancement of a phase change material based thermal energy storage device for transport air-conditioning applications. *Applied Thermal Engineering*, **2020**, 165, 114582	5.8	14
37	Molecular dynamics simulation on LiCl-H2O interfacial phenomenon for liquid desiccant dehumidification. *Energy Procedia*, **2019**, 158, 2106-2111	2.3	2
36	Formulation and Characterisation of Ternary Salt Based Solutions as Phase Change Materials for Cold Chain Applications. *Energy Procedia*, **2019**, 158, 5103-5108	2.3	7
35	A novel method to predict thermal conductivity of NaCl/water based MCNT nano-suspesnion for cold energy storage. *Energy Procedia*, **2019**, 158, 4834-4839	2.3	1
34	Liquid Air Energy Storage with LNG cold recovery for air liquefaction improvement. *Energy Procedia* , **2019**, 158, 4759-4764	2.3	6
33	Preliminary study of Liquid Air Energy Storage integrated with LNG cold recovery. *Energy Procedia*, **2019**, 158, 4903-4908	2.3	6
32	Evaluation of thermal performance in cold storage applications using EG-water based nano-composite PCMs. *Energy Procedia*, **2019**, 158, 4840-4845	2.3	7
31	Significant photothermal conversion enhancement of nanofluids induced by Rayleigh-B□ard convection for direct absorption solar collectors. *Applied Energy*, **2019**, 254, 113706	10.7	37
30	Heat transfer of composite phase change material modules containing a eutectic carbonate salt for medium and high temperature thermal energy storage applications. *Applied Energy*, **2019**, 238, 1074-1083	10.7	22
29	Experimental study of charging a compact PCM energy storage device for transport application with dynamic exergy analysis. *Energy Conversion and Management*, **2019**, 196, 536-544	10.6	13
28	System performance and economic assessment of a thermal energy storage based air-conditioning unit for transport applications. *Applied Energy*, **2019**, 251, 113254	10.7	16
27	Flexible integration of liquid air energy storage with liquefied natural gas regasification for power generation enhancement. *Applied Energy*, **2019**, 251, 113355	10.7	58
26	Liquid air energy storage flexibly coupled with LNG regasification for improving air liquefaction. *Applied Energy*, **2019**, 250, 1190-1201	10.7	55
25	Mechanism of Specific Heat Capacity Enhancement of Molten Salts Based Nanofluids for Thermal Energy Storage - A Molecular Study **2019**,		4
24	Integrated Cryogenic and Thermal Energy Storage for Decarbonizing Energy Consumption: Development and Challenges. *ES Energy & Environments*, **2019**,	2.9	3

23	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	1.8	4
22	Cryogenic Energy Storage and Its Integration With Nuclear Power Generation for Load Shift **2019**, 249-273		4
21	Thermodynamic study on the effect of cold and heat recovery on performance of liquid air energy storage. *Applied Energy*, **2018**, 221, 86-99	10.7	71
20	Experimental study of a novel subcooling method based on liquid desiccant dehumidification for vapor-compression refrigeration systems. *Applied Thermal Engineering*, **2018**, 130, 1460-1471	5.8	11
19	Energy-efficient and -economic technologies for air conditioning with vapor compression refrigeration: A comprehensive review. *Applied Energy*, **2018**, 232, 157-186	10.7	91
18	n-Alkanes Phase Change Materials and Their Microencapsulation for Thermal Energy Storage: A Critical Review. *Energy & Fuels*, **2018**, 32, 7262-7293	4.1	90
17	Enhancement of round trip efficiency of liquid air energy storage through effective utilization of heat of compression. *Applied Energy*, **2017**, 206, 1632-1642	10.7	108
16	Experimental and theoretical study on a novel double evaporating temperature chiller applied in THICS using R32/R236fa. *International Journal of Refrigeration*, **2017**, 75, 343-351	3.8	21
15	Influences of the key characteristic parameters on the thermal performance of a water pit seasonal thermal storage. *Energy Procedia*, **2017**, 142, 495-500	2.3	10
14	Heat transfer enhancement of a molten salt parabolic trough solar receiver with concentric and eccentric pipe inserts. *Energy Procedia*, **2017**, 142, 624-629	2.3	13
13	Theoretical analysis on performance enhancement of stand-alone liquid air energy storage from perspective of energy storage and heat transfer. *Energy Procedia*, **2017**, 142, 3498-3504	2.3	12
12	Charging properties of a compact energy storage device for transport air conditioning applications. *Energy Procedia*, **2017**, 142, 3531-3536	2.3	7
11	Investigation on transient cooling process in a water heat storage tank with inclined sidewalls. *Energy Procedia*, **2017**, 142, 142-147	2.3	6
10	Thermodynamic analysis of Liquid Air Energy Storage integrated with a serial system of Organic Rankine and Absorption Refrigeration Cycles driven by compression heat. *Energy Procedia*, **2017**, 142, 3440-3446	2.3	10
9	Experimental study of a novel double temperature chiller based on R32/R236fa. *Energy Conversion and Management*, **2016**, 124, 618-626	10.6	22
8	Investigation on air flow patterns of evaporative cooling and dehumidification process for a hybrid refrigeration system. *Applied Thermal Engineering*, **2016**, 95, 79-94	5.8	20
7	Bubble formation on solid surface with a cavity based on molecular dynamics simulation. *International Journal of Heat and Mass Transfer*, **2016**, 95, 278-287	4.9	32
6	Analytical study on condensation heat distribution modes in a hybrid vapor compression refrigeration system. *Energy and Buildings*, **2015**, 88, 288-302	7	16

5	A novel low-grade heat-driven absorption refrigeration system with LiCl–H2O and LiBr–H2O working pairs. *International Journal of Refrigeration*, **2015**, 58, 219-234	3.8	42
4	Suggested solution concentration for an energy-efficient refrigeration system combined with condensation heat-driven liquid desiccant cycle. *Renewable Energy*, **2015**, 83, 553-564	8.1	17
3	Thermodynamic analysis of a novel energy-efficient refrigeration system subcooled by liquid desiccant dehumidification and evaporation. *Energy Conversion and Management*, **2014**, 78, 286-296	10.6	41
2	A proposed subcooling method for vapor compression refrigeration cycle based on expansion power recovery. *International Journal of Refrigeration*, **2014**, 43, 50-61	3.8	27
1	Configuration optimization of stand-alone Liquid Air Energy Storage for efficiency improvement. *IOP Conference Series: Materials Science and Engineering*,502, 012015	0.4	4