

Tingxian Li

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86
papers

2,754
citations

31
h-index

49
g-index

92
ext. papers

3,658
ext. citations

8.4
avg, IF

5.7
L-index

#	Paper	IF	Citations
86	A review of promising candidate reactions for chemical heat storage. <i>Renewable and Sustainable Energy Reviews</i> , 2015 , 43, 13-31	16.2	199
85	Enhancement of heat transfer for thermal energy storage application using stearic acid nanocomposite with multi-walled carbon nanotubes. <i>Energy</i> , 2013 , 55, 752-761	7.9	147
84	High-Performance Thermally Conductive Phase Change Composites by Large-Size Oriented Graphite Sheets for Scalable Thermal Energy Harvesting. <i>Advanced Materials</i> , 2019 , 31, e1905099	24	135
83	Performance analysis of an integrated energy storage and energy upgrade thermochemical solid-gas sorption system for seasonal storage of solar thermal energy. <i>Energy</i> , 2013 , 50, 454-467	7.9	109
82	Experimental investigation on copper foam/hydrated salt composite phase change material for thermal energy storage. <i>International Journal of Heat and Mass Transfer</i> , 2017 , 115, 148-157	4.9	96
81	Progress in the development of solid-gas sorption refrigeration thermodynamic cycle driven by low-grade thermal energy. <i>Progress in Energy and Combustion Science</i> , 2014 , 40, 1-58	33.6	87
80	Efficient Solar-Driven Water Harvesting from Arid Air with Metal-Organic Frameworks Modified by Hygroscopic Salt. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 5202-5210	16.4	85
79	High performance form-stable expanded graphite/stearic acid composite phase change material for modular thermal energy storage. <i>International Journal of Heat and Mass Transfer</i> , 2016 , 102, 733-744	4.9	73
78	The present and future of residential refrigeration, power generation and energy storage. <i>Applied Thermal Engineering</i> , 2013 , 53, 256-270	5.8	72
77	Renewable energy in Kenya: Resource potential and status of exploitation. <i>Renewable and Sustainable Energy Reviews</i> , 2011 , 15, 2960-2973	16.2	71
76	Highly thermally conductive and flexible phase change composites enabled by polymer/graphite nanoplatelet-based dual networks for efficient thermal management. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 20011-20020	13	69
75	Heat transfer design in adsorption refrigeration systems for efficient use of low-grade thermal energy. <i>Energy</i> , 2011 , 36, 5425-5439	7.9	68
74	Development and thermochemical characterizations of vermiculite/SrBr ₂ composite sorbents for low-temperature heat storage. <i>Energy</i> , 2016 , 115, 120-128	7.9	67
73	Heat transfer characteristics of phase change nanocomposite materials for thermal energy storage application. <i>International Journal of Heat and Mass Transfer</i> , 2014 , 75, 1-11	4.9	57
72	A target-oriented solid-gas thermochemical sorption heat transformer for integrated energy storage and energy upgrade. <i>AIChE Journal</i> , 2013 , 59, 1334-1347	3.6	57
71	A novel solid-gas thermochemical multilevel sorption thermal battery for cascaded solar thermal energy storage. <i>Applied Energy</i> , 2016 , 161, 1-10	10.7	46
70	Solid-gas thermochemical sorption thermal battery for solar cooling and heating energy storage and heat transformer. <i>Energy</i> , 2015 , 84, 745-758	7.9	44

69	Investigation of a 10 kWh sorption heat storage device for effective utilization of low-grade thermal energy. <i>Energy</i> , 2016 , 113, 739-747	7.9	40
68	Experimental investigation of a novel multifunction heat pipe solid sorption icemaker for fishing boats using CaCl ₂ /activated carbon compound ammonia. <i>International Journal of Refrigeration</i> , 2007 , 30, 76-85	3.8	39
67	Integrated energy storage and energy upgrade, combined cooling and heating supply, and waste heat recovery with solid gas thermochemical sorption heat transformer. <i>International Journal of Heat and Mass Transfer</i> , 2014 , 76, 237-246	4.9	38
66	Experimental investigation on the ammonia adsorption and heat transfer characteristics of the packed multi-walled carbon nanotubes. <i>Applied Thermal Engineering</i> , 2015 , 77, 20-29	5.8	38
65	Form-stable phase change composites: Preparation, performance, and applications for thermal energy conversion, storage and management. <i>Energy Storage Materials</i> , 2021 , 42, 380-380	19.4	38
64	Thermochemical characterizations of high-stable activated alumina/LiCl composites with multistage sorption process for thermal storage. <i>Energy</i> , 2018 , 156, 240-249	7.9	37
63	Experimental investigation on a dual-mode thermochemical sorption energy storage system. <i>Energy</i> , 2017 , 140, 383-394	7.9	36
62	Performance testing of a cross-flow membrane-based liquid desiccant dehumidification system. <i>Applied Thermal Engineering</i> , 2017 , 119, 119-131	5.8	35
61	High energy-density multi-form thermochemical energy storage based on multi-step sorption processes. <i>Energy</i> , 2019 , 185, 1131-1142	7.9	35
60	High energy-density and power-density thermal storage prototype with hydrated salt for hot water and space heating. <i>Applied Energy</i> , 2019 , 248, 406-414	10.7	34
59	Near-Zero-Energy Smart Battery Thermal Management Enabled by Sorption Energy Harvesting from Air. <i>ACS Central Science</i> , 2020 , 6, 1542-1554	16.8	34
58	Development of sorption thermal battery for low-grade waste heat recovery and combined cold and heat energy storage. <i>Energy</i> , 2016 , 107, 347-359	7.9	33
57	Experimental study of the ammonia adsorption characteristics on the composite sorbent of CaCl ₂ and multi-walled carbon nanotubes. <i>International Journal of Refrigeration</i> , 2014 , 46, 165-172	3.8	32
56	Performance analysis of an innovative multimode, multisalt and multieffect chemisorption refrigeration system. <i>AIChE Journal</i> , 2007 , 53, 3222-3230	3.6	32
55	Experimental study on an adsorption icemaker driven by parabolic trough solar collector. <i>Renewable Energy</i> , 2013 , 57, 223-233	8.1	31
54	A new target-oriented methodology of decreasing the regeneration temperature of solid gas thermochemical sorption refrigeration system driven by low-grade thermal energy. <i>International Journal of Heat and Mass Transfer</i> , 2011 , 54, 4719-4729	4.9	31
53	Thermochemical Characterizations of Novel Vermiculite-LiCl Composite Sorbents for Low-Temperature Heat Storage. <i>Energies</i> , 2016 , 9, 854	3.1	31
52	Experimental investigation on thermochemical heat storage using manganese chloride/ammonia. <i>Energy</i> , 2018 , 143, 562-574	7.9	30

51	Highly conductive phase change composites enabled by vertically-aligned reticulated graphite nanoplatelets for high-temperature solar photo/electro-thermal energy conversion, harvesting and storage. <i>Nano Energy</i> , 2021 , 89, 106338	17.1	30
50	Ultra-high solar-driven atmospheric water production enabled by scalable rapid-cycling water harvester with vertically aligned nanocomposite sorbent. <i>Energy and Environmental Science</i> ,	35.4	29
49	Resorption system for cold storage and long-distance refrigeration. <i>Applied Energy</i> , 2012 , 93, 479-487	10.7	28
48	A combined double-way chemisorption refrigeration cycle based on adsorption and resorption processes. <i>International Journal of Refrigeration</i> , 2009 , 32, 47-57	3.8	28
47	Experimental investigation on a novel solid-gas thermochemical sorption heat transformer for energy upgrade with a large temperature lift. <i>Energy Conversion and Management</i> , 2017 , 148, 330-338	10.6	27
46	Performance study of a consolidated manganese chloride-expanded graphite compound for sorption deep-freezing processes. <i>Applied Energy</i> , 2009 , 86, 1201-1209	10.7	25
45	Lithium chloride expanded graphite composite sorbent for solar powered ice maker. <i>Solar Energy</i> , 2010 , 84, 1587-1594	6.8	25
44	High temperature hot water heat pump with non-azeotropic refrigerant mixture HCFC-22/HCFC-141b. <i>Energy Conversion and Management</i> , 2002 , 43, 2033-2040	10.6	23
43	Experimental investigation on an open sorption thermal storage system for space heating. <i>Energy</i> , 2017 , 141, 2421-2433	7.9	22
42	Experimental study and comparison of thermochemical resorption refrigeration cycle and adsorption refrigeration cycle. <i>Chemical Engineering Science</i> , 2010 , 65, 4222-4230	4.4	22
41	A conceptual design and performance analysis of a triple-effect solid-gas thermochemical sorption refrigeration system with internal heat recovery. <i>Chemical Engineering Science</i> , 2009 , 64, 3376-3384	4.4	21
40	Performance study of a high efficient multifunction heat pipe type adsorption ice making system with novel mass and heat recovery processes. <i>International Journal of Thermal Sciences</i> , 2007 , 46, 1267-1274	4.1	21
39	Ultra-high-Energy-Density Sorption Thermal Battery Enabled by Graphene Aerogel-Based Composite Sorbents for Thermal Energy Harvesting from Air. <i>ACS Energy Letters</i> , 2021 , 6, 1795-1802	20.1	21
38	Latent heat thermal storage using salt hydrates for distributed building heating: A multi-level scale-up research. <i>Renewable and Sustainable Energy Reviews</i> , 2020 , 121, 109712	16.2	19
37	Experimental study on the effects of the operation conditions on the performance of a chemisorption air conditioner powered by low grade heat. <i>Applied Energy</i> , 2013 , 103, 571-580	10.7	18
36	Study on the heat transfer and sorption characteristics of a consolidated composite sorbent for solar-powered thermochemical cooling systems. <i>Solar Energy</i> , 2009 , 83, 1742-1755	6.8	16
35	ENHANCEMENT OF HEAT AND MASS TRANSFER IN SOLID GAS SORPTION SYSTEMS 2012 , 20, 1130001		15
34	Experimental study on an innovative multifunction heat pipe type heat recovery two-stage sorption refrigeration system. <i>Energy Conversion and Management</i> , 2008 , 49, 2505-2512	10.6	15

33	Dual-Functional Aligned and Interconnected Graphite Nanoplatelet Networks for Accelerating Solar Thermal Energy Harvesting and Storage within Phase Change Materials. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 19200-19210	9.5	15
32	Adsorption Characteristic of Methanol in Activated Carbon Impregnated with Lithium Chloride. <i>Chemical Engineering and Technology</i> , 2010 , 33, 1679-1686	2	14
31	Transient Analysis of a Chemisorption Air Conditioning System Operating under Different Kinds of Cycle. <i>Industrial & Engineering Chemistry Research</i> , 2008 , 47, 1102-1110	3.9	14
30	Experimental investigation on a thermochemical sorption refrigeration prototype using EG/SrCl ₂ ·6H ₂ O working pair. <i>International Journal of Refrigeration</i> , 2018 , 88, 8-15	3.8	14
29	Thermodynamic study of a combined double-way solid-gas thermochemical sorption refrigeration cycle. <i>International Journal of Refrigeration</i> , 2009 , 32, 1570-1578	3.8	13
28	Dehydration kinetics and thermodynamics of magnesium chloride hexahydrate for thermal energy storage. <i>Solar Energy Materials and Solar Cells</i> , 2021 , 219, 110819	6.4	13
27	Water sorption properties, diffusion and kinetics of zeolite NaX modified by ion-exchange and salt impregnation. <i>International Journal of Heat and Mass Transfer</i> , 2019 , 139, 990-999	4.9	12
26	Experimental identification and thermodynamic analysis of ammonia sorption equilibrium characteristics on halide salts. <i>Energy</i> , 2018 , 161, 955-962	7.9	12
25	Experimental study on the performance of double-effect and double-way thermochemical sorption refrigeration cycle. <i>Applied Thermal Engineering</i> , 2011 , 31, 3658-3663	5.8	12
24	Advanced thermochemical resorption heat transformer for high-efficiency energy storage and heat transformation. <i>Energy</i> , 2019 , 175, 1222-1233	7.9	11
23	Influence of mass recovery on the performance of a heat pipe type ammonia sorption refrigeration system using CaCl ₂ /activated carbon as compound adsorbent. <i>Applied Thermal Engineering</i> , 2008 , 28, 1638-1646	5.8	10
22	Photoswitchable phase change materials for unconventional thermal energy storage and upgrade. <i>Matter</i> , 2021 , 4, 3385-3399	12.7	9
21	Dual-Encapsulated Highly Conductive and Liquid-Free Phase Change Composites Enabled by Polyurethane/Graphite Nanoplatelets Hybrid Networks for Efficient Energy Storage and Thermal Management.. <i>Small</i> , 2021 , e2105647	11	9
20	Composite [LiCl/MWCNT/PVA] for adsorption thermal battery: Dynamics of methanol sorption. <i>Renewable and Sustainable Energy Reviews</i> , 2020 , 123, 109748	16.2	8
19	Performance analysis of a multi-mode thermochemical sorption refrigeration system for solar-powered cooling. <i>International Journal of Refrigeration</i> , 2012 , 35, 532-542	3.8	8
18	Experimental study on a combined double-way chemisorption refrigeration system. <i>International Journal of Refrigeration</i> , 2011 , 34, 914-921	3.8	8
17	Experimental investigation of an innovative dual-mode chemisorption refrigeration system based on multifunction heat pipes. <i>International Journal of Refrigeration</i> , 2008 , 31, 1104-1112	3.8	8
16	Understanding the transition process of phase change and dehydration reaction of salt hydrate for thermal energy storage. <i>Applied Thermal Engineering</i> , 2020 , 166, 114655	5.8	8

15	Demonstration of Mg(NO ₃) ₂ ·6H ₂ O-based composite phase change material for practical-scale medium-low temperature thermal energy storage. <i>Energy</i> , 2020 , 201, 117711	7.9	6
14	Thermal conductivity measurement of an individual millimeter-long expanded graphite ribbon using a variable-length T-type method. <i>International Journal of Heat and Mass Transfer</i> , 2021 , 171, 121115	4.9	6
13	High-efficient thermochemical sorption refrigeration driven by low-grade thermal energy. <i>Science Bulletin</i> , 2009 , 54, 885-905	10.6	5
12	Efficient Solar-Driven Water Harvesting from Arid Air with Metal-Organic Frameworks Modified by Hygroscopic Salt. <i>Angewandte Chemie</i> , 2020 , 132, 5240-5248	3.6	3
11	Preparation and thermal performance of form-stable expanded graphite/stearic acid composite phase change materials with high thermal conductivity. <i>Chinese Science Bulletin</i> , 2018 , 63, 674-683	2.9	3
10	Ultralow-temperature-driven water-based sorption refrigeration enabled by low-cost zeolite-like porous aluminophosphate.. <i>Nature Communications</i> , 2022 , 13, 193	17.4	3
9	Ammoniated salt based solid sorption thermal batteries: A comparative study. <i>Applied Thermal Engineering</i> , 2021 , 191, 116875	5.8	3
8	Thermally conductive and form-stable phase change composite for building thermal management. <i>Energy</i> , 2022 , 239, 121938	7.9	3
7	Heat Transfer Design in Adsorption Refrigeration Systems for Efficient Use of Low Grade Thermal Energy 2010 ,		2
6	Studies on a metal hydride based year-round comfort heating and cooling system for extreme climates. <i>Energy and Buildings</i> , 2021 , 244, 111042	7	2
5	Sorption Thermal Energy Storage 2018 , 1109-1161		1
4	Progress in Sorption Thermal Energy Storage. <i>Lecture Notes in Energy</i> , 2017 , 541-572	0.4	1
3	Performance improvement of a combined double-way thermochemical sorption refrigeration cycle with reheating process. <i>AIChE Journal</i> , 2009 , 56, NA-NA	3.6	1
2	Enhanced thermal conductivity and adsorption rate of zeolite 13X adsorbent by compression-induced molding method for sorption thermal battery. <i>Energy</i> , 2022 , 240, 122797	7.9	1
1	Thermochemical heat storage for solar heating and cooling systems 2016 , 491-522		0