

List of Publications by Citations

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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.

185 papers	4,745 citations	38 h-index	60 g-index
196 ext. papers	5,389 ext. citations	6.7 avg, IF	6.02 L-index

#	Paper	IF	Citations
185	Sorption thermal storage for solar energy. <i>Progress in Energy and Combustion Science</i> , 2013 , 39, 489-514	33.6	334
184	A review on adsorption working pairs for refrigeration. <i>Renewable and Sustainable Energy Reviews</i> , 2009 , 13, 518-534	16.2	299
183	A review of promising candidate reactions for chemical heat storage. <i>Renewable and Sustainable Energy Reviews</i> , 2015 , 43, 13-31	16.2	199
182	Compound adsorbent for adsorption ice maker on fishing boats. <i>International Journal of Refrigeration</i> , 2004 , 27, 401-408	3.8	92
181	Development and characterization of silica gel/CaCl ₂ composite sorbents for thermal energy storage. <i>Chemical Engineering Science</i> , 2014 , 111, 73-84	4.4	89
180	Development of thermal conductive consolidated activated carbon for adsorption refrigeration. <i>Carbon</i> , 2012 , 50, 977-986	10.4	82
179	Study of thermal conductivity, permeability, and adsorption performance of consolidated composite activated carbon adsorbent for refrigeration. <i>Renewable Energy</i> , 2011 , 36, 2062-2066	8.1	74
178	Effective thermal conductivity of expanded graphite/CaCl ₂ composite adsorbent for chemical adsorption chillers. <i>Energy Conversion and Management</i> , 2006 , 47, 1902-1912	10.6	74
177	Composite adsorbent of CaCl ₂ and expanded graphite for adsorption ice maker on fishing boats. <i>International Journal of Refrigeration</i> , 2006 , 29, 199-210	3.8	74
176	Thermal conductivity and permeability of consolidated expanded natural graphite treated with sulphuric acid. <i>Carbon</i> , 2011 , 49, 4812-4819	10.4	72
175	Anisotropic thermal conductivity and permeability of compacted expanded natural graphite. <i>Applied Thermal Engineering</i> , 2010 , 30, 1805-1811	5.8	70
174	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
173	The performance of two adsorption ice making test units using activated carbon and a carbon composite as adsorbents. <i>Carbon</i> , 2006 , 44, 2671-2680	10.4	68
172	Design and experimental study of a silica gel-water adsorption chiller with modular adsorbers. <i>International Journal of Refrigeration</i> , 2016 , 67, 336-344	3.8	67
171	Study of the performance of activated carbon/methanol adsorption systems concerning heat and mass transfer. <i>Applied Thermal Engineering</i> , 2003 , 23, 1605-1617	5.8	65
170	Adsorption ice makers for fishing boats driven by the exhaust heat from diesel engine: choice of adsorption pair. <i>Energy Conversion and Management</i> , 2004 , 45, 2043-2057	10.6	64
169	Water vapor sorption performance of ACF-CaCl ₂ and silica gel-CaCl ₂ composite adsorbents. <i>Applied Thermal Engineering</i> , 2016 , 100, 893-901	5.8	62

168	Investigation on thermal conductive consolidated composite CaCl ₂ for adsorption refrigeration. <i>International Journal of Thermal Sciences</i> , 2014 , 81, 68-75	4.1	61
167	Simulation and experiments on an ORC system with different scroll expanders based on energy and exergy analysis. <i>Applied Thermal Engineering</i> , 2015 , 75, 880-888	5.8	60
166	Study on consolidated composite sorbents impregnated with LiCl for thermal energy storage. <i>International Journal of Heat and Mass Transfer</i> , 2015 , 84, 660-670	4.9	58
165	Performance analysis of an adsorption refrigerator using activated carbon in a compound adsorbent. <i>Carbon</i> , 2006 , 44, 747-752	10.4	58
164	Evaluation of a three-phase sorption cycle for thermal energy storage. <i>Energy</i> , 2014 , 67, 468-478	7.9	57
163	Enhancing electrical energy storage capability of dielectric polymer nanocomposites via the room temperature Coulomb blockade effect of ultra-small platinum nanoparticles. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 5001-5011	3.6	54
162	Experimental study of a solidified activated carbon-methanol adsorption ice maker. <i>Applied Thermal Engineering</i> , 2003 , 23, 1453-1462	5.8	54
161	A high efficient semi-open system for fresh water production from atmosphere. <i>Energy</i> , 2017 , 138, 542-551	7.5	52
160	2014 ,		52
159	Experimental investigation on two solar-driven sorption based devices to extract fresh water from atmosphere. <i>Applied Thermal Engineering</i> , 2017 , 127, 1608-1616	5.8	48
158	A resorption cycle for the cogeneration of electricity and refrigeration. <i>Applied Energy</i> , 2013 , 106, 56-64	10.7	48
157	Universal scalable sorption-based atmosphere water harvesting. <i>Energy</i> , 2018 , 165, 387-395	7.9	45
156	Experimental investigation on a small pumpless ORC (organic rankine cycle) system driven by the low temperature heat source. <i>Energy</i> , 2015 , 91, 324-333	7.9	43
155	Thermal conductivity, pore structure and adsorption performance of compact composite silica gel. <i>International Journal of Heat and Mass Transfer</i> , 2014 , 68, 435-443	4.9	43
154	Permeability and thermal conductivity of compact chemical and physical adsorbents with expanded natural graphite as host matrix. <i>International Journal of Heat and Mass Transfer</i> , 2012 , 55, 4453-4459	4.9	43
153	Experimental research of composite solid sorbents for fresh water production driven by solar energy. <i>Applied Thermal Engineering</i> , 2017 , 121, 941-950	5.8	40
152	Development of highly conductive KNO ₃ /NaNO ₃ composite for TES (thermal energy storage). <i>Energy</i> , 2014 , 70, 272-277	7.9	40
151	Split heat pipe type compound adsorption ice making test unit for fishing boats. <i>International Journal of Refrigeration</i> , 2006 , 29, 456-468	3.8	40

150	Comparison of different kinds of heat recoveries applied in adsorption refrigeration system. <i>International Journal of Refrigeration</i> , 2015 , 55, 37-48	3.8	39
149	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
148	Effective thermal conductivity and permeability of compact compound ammoniated salts in the adsorption/desorption process. <i>International Journal of Thermal Sciences</i> , 2013 , 71, 103-110	4.1	38
147	Experimental study of a novel CaCl ₂ /expanded graphite-NH ₃ adsorption refrigerator. <i>International Journal of Refrigeration</i> , 2010 , 33, 61-69	3.8	38
146	Investigation on a small-scale pumpless Organic Rankine Cycle (ORC) system driven by the low temperature heat source. <i>Applied Energy</i> , 2017 , 195, 478-486	10.7	37
145	A zeolite 13X/magnesium sulfate/water sorption thermal energy storage device for domestic heating. <i>Energy Conversion and Management</i> , 2018 , 171, 98-109	10.6	35
144	Comparison on Thermal Conductivity and Permeability of Granular and Consolidated Activated Carbon for Refrigeration. <i>Chinese Journal of Chemical Engineering</i> , 2013 , 21, 676-682	3.2	35
143	Design and assessment on a novel integrated system for power and refrigeration using waste heat from diesel engine. <i>Applied Thermal Engineering</i> , 2015 , 91, 591-599	5.8	33
142	Experimental study on a resorption system for power and refrigeration cogeneration. <i>Energy</i> , 2016 , 97, 182-190	7.9	33
141	Experimental investigation of a MnCl ₂ /CaCl ₂ -NH ₃ two-stage solid sorption freezing system for a refrigerated truck. <i>Energy</i> , 2016 , 103, 16-26	7.9	32
140	Analysis of an optimal resorption cogeneration using mass and heat recovery processes. <i>Applied Energy</i> , 2015 , 160, 892-901	10.7	31
139	Experimental investigation of an adsorption refrigeration prototype with the working pair of composite adsorbent-ammonia. <i>Applied Thermal Engineering</i> , 2014 , 72, 275-282	5.8	31
138	Experimental study on an adsorption icemaker driven by parabolic trough solar collector. <i>Renewable Energy</i> , 2013 , 57, 223-233	8.1	31
137	Study on consolidated activated carbon: Choice of optimal adsorbent for refrigeration application. <i>International Journal of Heat and Mass Transfer</i> , 2013 , 67, 867-876	4.9	31
136	Experimental study of a two-stage adsorption freezing machine driven by low temperature heat source. <i>International Journal of Refrigeration</i> , 2013 , 36, 1029-1036	3.8	31
135	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
134	Experimental investigation on an innovative resorption system for energy storage and upgrade. <i>Energy Conversion and Management</i> , 2017 , 138, 651-658	10.6	30
133	Theoretical and experimental investigation of a closed sorption thermal storage prototype using LiCl/water. <i>Energy</i> , 2015 , 93, 1523-1534	7.9	30

132	Experimental investigation on a $\text{MnCl}_2/\text{CaCl}_2/\text{NH}_3$ thermal energy storage system. <i>Renewable Energy</i> , 2016 , 91, 130-136	8.1	30
131	Performance characterizations and thermodynamic analysis of magnesium sulfate-impregnated zeolite 13X and activated alumina composite sorbents for thermal energy storage. <i>Energy</i> , 2019 , 167, 889-901	7.9	30
130	Thermodynamic analysis of single-stage and multi-stage adsorption refrigeration cycles with activated carbon–ammonia working pair. <i>Energy Conversion and Management</i> , 2016 , 117, 31-42	10.6	29
129	Chemisorption cooling and electric power cogeneration system driven by low grade heat. <i>Energy</i> , 2014 , 72, 590-598	7.9	28
128	Investigation on cascading cogeneration system of ORC (Organic Rankine Cycle) and $\text{CaCl}_2/\text{BaCl}_2$ two-stage adsorption freezer. <i>Energy</i> , 2014 , 71, 377-387	7.9	28
127	Investigation on an innovative resorption system for seasonal thermal energy storage. <i>Energy Conversion and Management</i> , 2017 , 149, 129-139	10.6	28
126	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
125	A comparison of the performances of adsorption and resorption refrigeration systems powered by the low grade heat. <i>Renewable Energy</i> , 2009 , 34, 2373-2379	8.1	28
124	Design, simulation and performance of a waste heat driven adsorption ice maker for fishing boat. <i>Energy</i> , 2006 , 31, 244-259	7.9	28
123	Investigation on heat and mass transfer performance of novel composite strontium chloride for sorption reactors. <i>Applied Thermal Engineering</i> , 2017 , 121, 410-418	5.8	27
122	Study on $\text{MnCl}_2/\text{CaCl}_2/\text{NH}_3$ two-stage solid sorption freezing cycle for refrigerated trucks at low engine load in summer. <i>Energy Conversion and Management</i> , 2016 , 109, 1-9	10.6	27
121	Solar Powered Cascading Cogeneration Cycle with ORC and Adsorption Technology for Electricity and Refrigeration. <i>Heat Transfer Engineering</i> , 2014 , 35, 1028-1034	1.7	27
120	Non-equilibrium sorption performances for composite sorbents of chlorides–ammonia working pairs for refrigeration. <i>International Journal of Refrigeration</i> , 2016 , 65, 60-68	3.8	26
119	Experimental analysis of an adsorption refrigerator with mass and heat-pipe heat recovery process. <i>Energy Conversion and Management</i> , 2012 , 53, 291-297	10.6	26
118	Two types of natural graphite host matrix for composite activated carbon adsorbents. <i>Applied Thermal Engineering</i> , 2013 , 50, 1652-1657	5.8	26
117	Investigation on non-equilibrium performance of composite adsorbent for resorption refrigeration. <i>Energy Conversion and Management</i> , 2016 , 119, 67-74	10.6	26
116	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
115	Performance analysis on a novel sorption air conditioner for electric vehicles. <i>Energy Conversion and Management</i> , 2018 , 156, 515-524	10.6	25

114	Experimental study on working pairs for two-stage chemisorption freezing cycle. <i>Renewable Energy</i> , 2015 , 74, 287-297	8.1	24
113	Experimental investigation on a $\text{MnCl}_2\text{CaCl}_2\text{NH}_3$ resorption system for heat and refrigeration cogeneration. <i>Applied Energy</i> , 2016 , 181, 29-37	10.7	23
112	Analysis on innovative modular sorption and resorption thermal cell for cold and heat cogeneration. <i>Applied Energy</i> , 2017 , 204, 767-779	10.7	23
111	Performance prediction on a resorption cogeneration cycle for power and refrigeration with energy storage. <i>Renewable Energy</i> , 2015 , 83, 1250-1259	8.1	22
110	Solution to the sorption hysteresis by novel compact composite multi-salt sorbents. <i>Applied Thermal Engineering</i> , 2017 , 111, 580-585	5.8	22
109	Comparison of the adsorption performance of compound adsorbent in a refrigeration cycle with and without mass recovery. <i>Chemical Engineering Science</i> , 2006 , 61, 3761-3770	4.4	22
108	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
107	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
106	Investigation and performance study of a dual-source chemisorption power generation cycle using scroll expander. <i>Applied Energy</i> , 2017 , 204, 979-993	10.7	20
105	Two-stage cascading desorption cycle for sorption thermal energy storage. <i>Energy</i> , 2019 , 174, 1091-1099	9.9	20
104	Working pairs for resorption refrigerator. <i>Applied Thermal Engineering</i> , 2011 , 31, 3015-3021	5.8	20
103	Adsorption refrigeration-green cooling driven by low grade thermal energy. <i>Science Bulletin</i> , 2005 , 50, 193-204		20
102	Investigation on performance of multi-salt composite sorbents for multilevel sorption thermal energy storage. <i>Applied Energy</i> , 2017 , 190, 1029-1038	10.7	18
101	A resorption refrigerator driven by low grade thermal energy. <i>Energy Conversion and Management</i> , 2011 , 52, 2339-2344	10.6	18
100	Studies on heat pipe type adsorption ice maker for fishing boats. <i>International Journal of Refrigeration</i> , 2008 , 31, 989-997	3.8	18
99	Adsorption performances and refrigeration application of adsorption working pair of $\text{CaCl}_2\text{-NH}_3$. <i>Science in China Series D: Earth Sciences</i> , 2004 , 47, 173		18
98	Temperature-heat diagram analysis method for heat recovery physical adsorption refrigeration cycle Taking multi-stage cycle as an example. <i>International Journal of Refrigeration</i> , 2017 , 74, 254-268	3.8	17
97	A new type adsorber for adsorption ice maker on fishing boats. <i>Energy Conversion and Management</i> , 2005 , 46, 2301-2316	10.6	17

96	Design and performance analysis of a resorption cogeneration system. <i>International Journal of Low-Carbon Technologies</i> , 2013 , 8, i85-i91	2.8	16
95	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
94	Research on the chemical adsorption precursor state of CaCl ₂ -NH ₃ for adsorption refrigeration. <i>Science in China Series D: Earth Sciences</i> , 2005 , 48, 70		16
93	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
92	Studies on cycle characteristics and application of split heat pipe adsorption ice maker. <i>Energy Conversion and Management</i> , 2007 , 48, 1106-1112	10.6	15
91	Optimization and performance experiments of a MnCl ₂ /CaCl ₂ -NH ₃ two-stage solid sorption freezing system for a refrigerated truck. <i>International Journal of Refrigeration</i> , 2016 , 71, 94-107	3.8	14
90	Experimental investigation on properties of composite sorbents for three-phase sorption-water working pairs. <i>International Journal of Refrigeration</i> , 2017 , 83, 51-59	3.8	14
89	Investigation on an innovative cascading cycle for power and refrigeration cogeneration. <i>Energy Conversion and Management</i> , 2017 , 145, 20-29	10.6	13
88	Analysis of composite sorbents for ammonia storage to eliminate NO _x emission at low temperatures. <i>Applied Thermal Engineering</i> , 2018 , 128, 1382-1390	5.8	13
87	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
86	Investigation on an innovative sorption system to reduce nitrogen oxides of diesel engine by using carbon nanoparticle. <i>Applied Thermal Engineering</i> , 2018 , 134, 29-38	5.8	12
85	A review on the solid sorption mechanism and kinetic models of metal halide-ammonia working pairs. <i>Renewable and Sustainable Energy Reviews</i> , 2018 , 91, 783-792	16.2	12
84	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
83	Studies on split heat pipe type adsorption ice-making test unit for fishing boats: Choice of heat pipe medium and experiments under unsteady heating sources. <i>Energy Conversion and Management</i> , 2006 , 47, 2081-2091	10.6	12
82	Mechanism of hysteresis for composite multi-halide and its superior performance for low grade energy recovery. <i>Scientific Reports</i> , 2019 , 9, 1563	4.9	11
81	Exergy analysis of R1234ze(Z) as high temperature heat pump working fluid with multi-stage compression. <i>Frontiers in Energy</i> , 2017 , 11, 493-502	2.6	11
80	Performance investigation of a freezing system with novel multi-salt sorbent for refrigerated truck. <i>International Journal of Refrigeration</i> , 2019 , 98, 129-138	3.8	11
79	Performance analysis of multi-salt sorbents without sorption hysteresis for low-grade heat recovery. <i>Renewable Energy</i> , 2018 , 118, 718-726	8.1	11

78	Data-driven metamaterial design with Laplace-Beltrami spectrum as shape-DNA. <i>Structural and Multidisciplinary Optimization</i> , 2020 , 61, 2613-2628	3.6	10
77	Performance analysis on a novel micro-scale combined cooling, heating and power (CCHP) system for domestic utilization driven by biomass energy. <i>Renewable Energy</i> , 2020 , 156, 1215-1232	8.1	10
76	Study on gradient thermal driven adsorption cycle with freezing and cooling output for food storage. <i>Applied Thermal Engineering</i> , 2014 , 70, 231-239	5.8	10
75	Thermodynamic analysis and performance simulation of different kinds of mass recovery processes applied in adsorption refrigeration system. <i>HVAC and R Research</i> , 2014 , 20, 311-319		10
74	A two-stage deep freezing chemisorption cycle driven by low-temperature heat source. <i>Frontiers in Energy</i> , 2011 , 5, 263	2.6	10
73	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
72	An advanced composite sorbent with high thermal stability and superior sorption capacity without hysteresis for a better thermal battery. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 11849-11858	13	9
71	The feasibility of solid sorption heat pipe for heat transfer. <i>Energy Conversion and Management</i> , 2017 , 138, 148-155	10.6	8
70	Solid sorption heat pipe coupled with direct air cooling technology for thermal control of rack level in internet data centers: Design and numerical simulation. <i>International Journal of Heat and Mass Transfer</i> , 2019 , 145, 118714	4.9	8
69	Exploration of ammonia resorption cycle for power generation by using novel composite sorbent. <i>Applied Energy</i> , 2018 , 215, 457-467	10.7	8
68	Optimisation of a Novel Resorption Cogeneration Using Mass and Heat Recovery. <i>Energy Procedia</i> , 2014 , 61, 1103-1106	2.3	8
67	Analysis of resorption working pairs for air conditioners of electric vehicles. <i>Applied Energy</i> , 2017 , 207, 594-603	10.7	8
66	Investigation on novel modular sorption thermal cell with improved energy charging and discharging performance. <i>Energy Conversion and Management</i> , 2017 , 148, 110-119	10.6	8
65	Experimental study on a combined double-way chemisorption refrigeration system. <i>International Journal of Refrigeration</i> , 2011 , 34, 914-921	3.8	8
64	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
63	Experimental study on a small-scale pumpless organic Rankine cycle with R1233zd(E) as working fluid at low temperature heat source. <i>International Journal of Energy Research</i> , 2019 , 43, 1203-1216	4.5	8
62	Technical feasibility of a gravity-type pumpless ORC system with one evaporator and two condensers. <i>Applied Thermal Engineering</i> , 2018 , 145, 569-575	5.8	8
61	Analysis on innovative resorption cycle for power and refrigeration cogeneration. <i>Applied Energy</i> , 2018 , 218, 10-21	10.7	7

60	Investigation on gradient thermal cycle for power and refrigeration cogeneration. <i>International Journal of Refrigeration</i> , 2017 , 76, 42-51	3.8	6
59	Performance analysis on a novel self-adaptive sorption system to reduce nitrogen oxides emission of diesel engine. <i>Applied Thermal Engineering</i> , 2017 , 127, 1077-1085	5.8	6
58	Investigation on innovative thermal conductive composite strontium chloride for ammonia sorption refrigeration. <i>International Journal of Refrigeration</i> , 2018 , 85, 157-166	3.8	6
57	Performance analysis on a novel compact two-stage sorption refrigerator driven by low temperature heat source. <i>Energy</i> , 2017 , 135, 476-485	7.9	6
56	Overall evaluation of single- and multi-halide composites for multi-mode thermal-energy storage. <i>Energy</i> , 2020 , 212, 118756	7.9	6
55	Vapor-compression refrigeration system coupled with a thermochemical resorption energy storage unit for a refrigerated truck. <i>Applied Energy</i> , 2021 , 290, 116756	10.7	6
54	Major applications of heat pipe and its advances coupled with sorption system: a review. <i>Frontiers in Energy</i> , 2019 , 13, 172-184	2.6	6
53	Reply and closure to comments on "Temperature-heat diagram analysis method for heat recovery physical adsorption refrigeration cycle "Taking multi-stage cycle as an example"By M.M. Awad. <i>International Journal of Refrigeration</i> , 2017 , 82, 543-547	3.8	5
52	Study of a Novel Dual-source Chemisorption Power Generation System Using Scroll Expander. <i>Energy Procedia</i> , 2017 , 105, 921-926	2.3	5
51	Wide applicability of analogical models coupled with hysteresis effect for halide/ammonia working pairs. <i>Chemical Engineering Journal</i> , 2020 , 394, 125020	14.7	5
50	A modified ammonia-water power cycle using a distillation stage for more efficient power generation. <i>Energy</i> , 2017 , 138, 1-11	7.9	5
49	High-efficient thermochemical sorption refrigeration driven by low-grade thermal energy. <i>Science Bulletin</i> , 2009 , 54, 885-905	10.6	5
48	SIMULATION OF HEAT AND MASS TRANSFER PERFORMANCE WITH CONSOLIDATED COMPOSITE ACTIVATED CARBON. <i>Heat Transfer Research</i> , 2015 , 46, 109-122	3.9	5
47	A novel hybrid solid sorption-compression refrigeration technology for refrigerated transportation and storage. <i>International Journal of Refrigeration</i> , 2021 , 122, 1-10	3.8	5
46	Reply to "Letter to the editor on "Temperature-heat diagram analysis method for heat recovery physical adsorption refrigeration cycle "Taking multi-stage cycle as an example"By A. Bejan. <i>International Journal of Refrigeration</i> , 2018 , 90, 280-286	3.8	5
45	Study on Working Pairs of Sorption Type Air Conditioner for Electric Vehicles under Different Temperature Zones. <i>Journal of Thermal Science</i> , 2019 , 28, 1004-1014	1.9	4
44	Experimental study on sorption and heat transfer performance of NaBr-NH ₃ for solid sorption heat pipe. <i>International Journal of Heat and Mass Transfer</i> , 2018 , 117, 125-131	4.9	4
43	Comparative investigations of sorption/resorption/cascading cycles for long-term thermal energy storage. <i>Applied Energy</i> , 2022 , 306, 117991	10.7	4

42	Parameter analysis of an ammonia-water power cycle with a gravity assisted thermal driven pump for low-grade heat recovery. <i>Renewable Energy</i> , 2020 , 146, 651-661	8.1	4
41	Investigation of thermal characteristics of strontium chloride composite sorbent for sorption refrigeration. <i>Thermal Science and Engineering Progress</i> , 2019 , 10, 179-185	3.6	3
40	Investigation on bi-salt chemisorption system for long term energy storage. <i>Chemical Engineering Science</i> , 2020 , 221, 115699	4.4	3
39	Design and analysis of a gas heating/cooling sorption refrigeration system with multi-salt solid sorbent of CaCl ₂ and MnCl ₂ . <i>International Journal of Heat and Mass Transfer</i> , 2018 , 126, 39-47	4.9	3
38	Performance of a resorption cycle for recovering the waste heat from vehicles. <i>Science and Technology for the Built Environment</i> , 2015 , 21, 280-289	1.8	3
37	Simulation and experiments on a solid sorption combined cooling and power system driven by the exhaust waste heat. <i>Frontiers in Energy</i> , 2017 , 11, 516-526	2.6	3
36	Experimental Investigation of a Scroll Expander for Power Generation Part of a Resorption Cogeneration. <i>Energy Procedia</i> , 2015 , 75, 1027-1032	2.3	3
35	A study on multifunction heat pipe type high efficient adsorption refrigerator using compound adsorbent ammonia. <i>Science Bulletin</i> , 2006 , 51, 239-242		3
34	The potential use of metal-organic framework/ammonia working pairs in adsorption chillers. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 6188-6195	13	3
33	On corrosion to stainless steel by calcium chloride with different extender. <i>Frontiers of Energy and Power Engineering in China</i> , 2010 , 4, 181-184		2
32	Investigation on the air-source chemisorption heat pump for the severely cold regions. <i>Applied Thermal Engineering</i> , 2020 , 179, 115694	5.8	2
31	Numerical and experimental investigation of multi-halide chemisorption system for exhaust gas heat recycling. <i>Applied Thermal Engineering</i> , 2021 , 194, 117118	5.8	2
30	Mechanical cloak via data-driven aperiodic metamaterial design.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022 , 119, e2122185119	11.5	2
29	Investigation of a novel composite sorbent for improved sorption characteristic. <i>Energy Procedia</i> , 2017 , 142, 1455-1461	2.3	1
28	Permeability and thermal conductivity of host compressed natural graphite for consolidated activated carbon adsorbent. <i>Frontiers in Energy</i> , 2011 , 5, 159-165	2.6	1
27	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
26	Compression-assisted decomposition thermochemical sorption energy storage system for deep engine exhaust waste heat recovery. <i>Energy</i> , 2022 , 244, 123215	7.9	1
25	A thermochemical heat and cold control strategy for reducing diurnal temperature variation in the desert. <i>Solar Energy Materials and Solar Cells</i> , 2022 , 235, 111460	6.4	1

24	Annual energy simulation for the air conditioning of Fuxing high speed trains. <i>Applied Thermal Engineering</i> , 2021 , 188, 116591	5.8	1
23	Experimental investigation on a small-scale ORC system with a pump driven by internal multi-potential. <i>Science China Technological Sciences</i> , 2021 , 64, 1599-1610	3.5	1
22	Modelling and Thermodynamic Analysis of a Hot-Cold Conversion Pipe Using R134a-DMF-He as the Working Pair. <i>Journal of Thermal Science</i> , 2021 , 30, 64-75	1.9	1
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