Liwei Wang

List of Publications by Year in Descending Order

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	Smart temperature difference management in summer desert enabled by ammonia-based resorption cycle. *Energy Conversion and Management*, **2022**, 254, 115274	10.6	0
184	Compression-assisted decomposition thermochemical sorption energy storage system for deep engine exhaust waste heat recovery. *Energy*, **2022**, 244, 123215	7.9	1
183	A thermochemical heat and cold control strategy for reducing diurnal temperature variation in the desert. *Solar Energy Materials and Solar Cells*, **2022**, 235, 111460	6.4	1
182	Comparative investigations of sorption/resorption/cascading cycles for long-term thermal energy storage. *Applied Energy*, **2022**, 306, 117991	10.7	4
181	Mechanical cloak via data-driven aperiodic metamaterial design.. *Proceedings of the National Academy of Sciences of the United States of America*, **2022**, 119, e2122185119	11.5	2
180	Solar-driven compression-assisted desorption chemisorption refrigeration/cold energy storage system. *Energy Conversion and Management*, **2022**, 258, 115474	10.6	0
179	Eutectic electrolyte and interface engineering for redox flow batteries. *Energy Storage Materials*, **2022**, 48, 263-282	19.4	0
178	High-performance cellulose nanofiber-derived composite films for efficient thermal management of flexible electronic devices. *Chemical Engineering Journal*, **2022**, 439, 135675	14.7	1
177	Resorption thermal energy storage strategy based on CaCl2/MnCl2-NH3 working pair for battery electric vehicles. *Chemical Engineering Journal*, **2022**, 441, 136111	14.7	0
176	Non-steady thermodynamic characteristics of a pilot-scale organic Rankine cycle system with a thermally-driven pump. *Energy*, **2022**, 123993	7.9	0
175	Annual energy simulation for the air conditioning of Fuxing high speed trains. *Applied Thermal Engineering*, **2021**, 188, 116591	5.8	1
174	Vapor-compression refrigeration system coupled with a thermochemical resorption energy storage unit for a refrigerated truck. *Applied Energy*, **2021**, 290, 116756	10.7	6
173	Experimental investigation on a small-scale ORC system with a pump driven by internal multi-potential. *Science China Technological Sciences*, **2021**, 64, 1599-1610	3.5	1
172	A novel hybrid solid sorption-compression refrigeration technology for refrigerated transportation and storage. *International Journal of Refrigeration*, **2021**, 122, 1-10	3.8	5
171	Modelling and Thermodynamic Analysis of a Hot-Cold Conversion Pipe Using R134a-DMF-He as the Working Pair. *Journal of Thermal Science*, **2021**, 30, 64-75	1.9	1
170	Development of Solid Composite Sorbents. *Engineering Materials*, **2021**, 15-42	0.4	
169	Properties of Solid Composite Sorbents. *Engineering Materials*, **2021**, 43-95	0.4	

168	Kinetics of Solid Composite Sorbents. *Engineering Materials*, **2021**, 97-127	0.4	
167	Solid Sorption Cycle for Refrigeration, Water Production, Eliminating NOx Emission and Heat Transfer. *Engineering Materials*, **2021**, 129-227	0.4	
166	Analysis of a cascading power cycle without electric pumps for recovering waste heat from vanadium slag. *International Journal of Energy Research*, **2021**, 45, 9270-9283	4.5	
165	Numerical and experimental investigation of multi-halide chemisorption system for exhaust gas heat recycling. *Applied Thermal Engineering*, **2021**, 194, 117118	5.8	2
164	Metal-Organic Frameworks for Ammonia-Based Thermal Energy Storage. *Small*, **2021**, 17, e2102689	11	1
163	Solid Sorption Cycle for Energy Storage, Electricity Generation and Cogeneration. *Engineering Materials*, **2021**, 229-278	0.4	
162	The potential use of metal□organic framework/ammonia working pairs in adsorption chillers. *Journal of Materials Chemistry A*, **2021**, 9, 6188-6195	13	3
161	Wide applicability of analogical models coupled with hysteresis effect for halide/ammonia working pairs. *Chemical Engineering Journal*, **2020**, 394, 125020	14.7	5
160	Data-driven metamaterial design with Laplace-Beltrami spectrum as □shape-DNA□ *Structural and Multidisciplinary Optimization*, **2020**, 61, 2613-2628	3.6	10
159	Investigation on bi-salt chemisorption system for long term energy storage. *Chemical Engineering Science*, **2020**, 221, 115699	4.4	3
158	Performance analysis on a novel micro-scale combined cooling, heating and power (CCHP) system for domestic utilization driven by biomass energy. *Renewable Energy*, **2020**, 156, 1215-1232	8.1	10
157	An advanced composite sorbent with high thermal stability and superior sorption capacity without hysteresis for a better thermal battery. *Journal of Materials Chemistry A*, **2020**, 8, 11849-11858	13	9
156	Overall evaluation of single- and multi-halide composites for multi-mode thermal-energy storage. *Energy*, **2020**, 212, 118756	7.9	6
155	Investigation on the air-source chemisorption heat pump for the severely cold regions. *Applied Thermal Engineering*, **2020**, 179, 115694	5.8	2
154	Parameter analysis of an ammonia-water power cycle with a gravity assisted thermal driven □pump□ for low-grade heat recovery. *Renewable Energy*, **2020**, 146, 651-661	8.1	4
153	Solid sorption heat pipe coupled with direct air cooling technology for thermal control of rack level in internet data centers: Design and numerical simulation. *International Journal of Heat and Mass Transfer*, **2019**, 145, 118714	4.9	8
152	Investigation of thermal characteristics of strontium chloride composite sorbent for sorption refrigeration. *Thermal Science and Engineering Progress*, **2019**, 10, 179-185	3.6	3
151	Study on Working Pairs of Sorption Type Air Conditioner for Electric Vehicles under Different Temperature Zones. *Journal of Thermal Science*, **2019**, 28, 1004-1014	1.9	4

150	Two-stage cascading desorption cycle for sorption thermal energy storage. *Energy*, **2019**, 174, 1091-1099	7.9	20
149	Mechanism of hysteresis for composite multi-halide and its superior performance for low grade energy recovery. *Scientific Reports*, **2019**, 9, 1563	4.9	11
148	Major applications of heat pipe and its advances coupled with sorption system: a review. *Frontiers in Energy*, **2019**, 13, 172-184	2.6	6
147	Performance investigation of a freezing system with novel multi-salt sorbent for refrigerated truck. *International Journal of Refrigeration*, **2019**, 98, 129-138	3.8	11
146	Performance characterizations and thermodynamic analysis of magnesium sulfate-impregnated zeolite 13X and activated alumina composite sorbents for thermal energy storage. *Energy*, **2019**, 167, 889-901	7.9	30
145	Experimental study on a small-scale pumpless organic Rankine cycle with R1233zd(E) as working fluid at low temperature heat source. *International Journal of Energy Research*, **2019**, 43, 1203-1216	4.5	8
144	Analysis on innovative resorption cycle for power and refrigeration cogeneration. *Applied Energy*, **2018**, 218, 10-21	10.7	7
143	Exploration of ammonia resorption cycle for power generation by using novel composite sorbent. *Applied Energy*, **2018**, 215, 457-467	10.7	8
142	Enhancing electrical energy storage capability of dielectric polymer nanocomposites via the room temperature Coulomb blockade effect of ultra-small platinum nanoparticles. *Physical Chemistry Chemical Physics*, **2018**, 20, 5001-5011	3.6	54
141	Investigation on an innovative sorption system to reduce nitrogen oxides of diesel engine by using carbon nanoparticle. *Applied Thermal Engineering*, **2018**, 134, 29-38	5.8	12
140	Investigation on innovative thermal conductive composite strontium chloride for ammonia sorption refrigeration. *International Journal of Refrigeration*, **2018**, 85, 157-166	3.8	6
139	Experimental study on sorption and heat transfer performance of NaBr-NH3 for solid sorption heat pipe. *International Journal of Heat and Mass Transfer*, **2018**, 117, 125-131	4.9	4
138	Analysis of composite sorbents for ammonia storage to eliminate NOx emission at low temperatures. *Applied Thermal Engineering*, **2018**, 128, 1382-1390	5.8	13
137	A zeolite 13X/magnesium sulfate–water sorption thermal energy storage device for domestic heating. *Energy Conversion and Management*, **2018**, 171, 98-109	10.6	35
136	A review on the solid sorption mechanism and kinetic models of metal halide-ammonia working pairs. *Renewable and Sustainable Energy Reviews*, **2018**, 91, 783-792	16.2	12
135	Design and analysis of a gas heating/cooling sorption refrigeration system with multi-salt solid sorbent of CaCl2 and MnCl2. *International Journal of Heat and Mass Transfer*, **2018**, 126, 39-47	4.9	3
134	Performance analysis on a novel sorption air conditioner for electric vehicles. *Energy Conversion and Management*, **2018**, 156, 515-524	10.6	25
133	Performance analysis of multi-salt sorbents without sorption hysteresis for low-grade heat recovery. *Renewable Energy*, **2018**, 118, 718-726	8.1	11

132	Universal scalable sorption-based atmosphere water harvesting. *Energy*, **2018**, 165, 387-395	7.9	45
131	Technical feasibility of a gravity-type pumpless ORC system with one evaporator and two condensers. *Applied Thermal Engineering*, **2018**, 145, 569-575	5.8	8
130	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. *International Journal of Refrigeration*, **2018**, 90, 280-286	3.8	5
129	Investigation on performance of multi-salt composite sorbents for multilevel sorption thermal energy storage. *Applied Energy*, **2017**, 190, 1029-1038	10.7	18
128	Investigation on gradient thermal cycle for power and refrigeration cogeneration. *International Journal of Refrigeration*, **2017**, 76, 42-51	3.8	6
127	The feasibility of solid sorption heat pipe for heat transfer. *Energy Conversion and Management*, **2017**, 138, 148-155	10.6	8
126	Investigation on heat and mass transfer performance of novel composite strontium chloride for sorption reactors. *Applied Thermal Engineering*, **2017**, 121, 410-418	5.8	27
125	Experimental research of composite solid sorbents for fresh water production driven by solar energy. *Applied Thermal Engineering*, **2017**, 121, 941-950	5.8	40
124	Investigation on an innovative cascading cycle for power and refrigeration cogeneration. *Energy Conversion and Management*, **2017**, 145, 20-29	10.6	13
123	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. *International Journal of Refrigeration*, **2017**, 82, 543-547	3.8	5
122	Study of a Novel Dual-source Chemisorption Power Generation System Using Scroll Expander. *Energy Procedia*, **2017**, 105, 921-926	2.3	5
121	Investigation on a small-scale pumpless Organic Rankine Cycle (ORC) system driven by the low temperature heat source. *Applied Energy*, **2017**, 195, 478-486	10.7	37
120	Experimental investigation on an innovative resorption system for energy storage and upgrade. *Energy Conversion and Management*, **2017**, 138, 651-658	10.6	30
119	Investigation and performance study of a dual-source chemisorption power generation cycle using scroll expander. *Applied Energy*, **2017**, 204, 979-993	10.7	20
118	Performance analysis on a novel self-adaptive sorption system to reduce nitrogen oxides emission of diesel engine. *Applied Thermal Engineering*, **2017**, 127, 1077-1085	5.8	6
117	Experimental investigation on two solar-driven sorption based devices to extract fresh water from atmosphere. *Applied Thermal Engineering*, **2017**, 127, 1608-1616	5.8	48
116	Investigation on an innovative resorption system for seasonal thermal energy storage. *Energy Conversion and Management*, **2017**, 149, 129-139	10.6	28
115	Experimental investigation on properties of composite sorbents for three-phase sorption-water working pairs. *International Journal of Refrigeration*, **2017**, 83, 51-59	3.8	14

114	A high efficient semi-open system for fresh water production from atmosphere. *Energy*, **2017**, 138, 542-551	7.9	52
113	Analysis of resorption working pairs for air conditioners of electric vehicles. *Applied Energy*, **2017**, 207, 594-603	10.7	8
112	Investigation on novel modular sorption thermal cell with improved energy charging and discharging performance. *Energy Conversion and Management*, **2017**, 148, 110-119	10.6	8
111	A modified ammonia-water power cycle using a distillation stage for more efficient power generation. *Energy*, **2017**, 138, 1-11	7.9	5
110	Performance analysis on a novel compact two-stage sorption refrigerator driven by low temperature heat source. *Energy*, **2017**, 135, 476-485	7.9	6
109	Analysis on innovative modular sorption and resorption thermal cell for cold and heat cogeneration. *Applied Energy*, **2017**, 204, 767-779	10.7	23
108	Simulation and experiments on a solid sorption combined cooling and power system driven by the exhaust waste heat. *Frontiers in Energy*, **2017**, 11, 516-526	2.6	3
107	Exergy analysis of R1234ze(Z) as high temperature heat pump working fluid with multi-stage compression. *Frontiers in Energy*, **2017**, 11, 493-502	2.6	11
106	Solution to the sorption hysteresis by novel compact composite multi-salt sorbents. *Applied Thermal Engineering*, **2017**, 111, 580-585	5.8	22
105	Temperature–heat diagram analysis method for heat recovery physical adsorption refrigeration cycle – Taking multi-stage cycle as an example. *International Journal of Refrigeration*, **2017**, 74, 254-268	3.8	17
104	Investigation of a novel composite sorbent for improved sorption characteristic. *Energy Procedia*, **2017**, 142, 1455-1461	2.3	1
103	Optimization and performance experiments of a MnCl2/CaCl2–NH3 two-stage solid sorption freezing system for a refrigerated truck. *International Journal of Refrigeration*, **2016**, 71, 94-107	3.8	14
102	Experimental investigation on a MnCl2CaCl2NH3 resorption system for heat and refrigeration cogeneration. *Applied Energy*, **2016**, 181, 29-37	10.7	23
101	Experimental investigation of a MnCl2/CaCl2-NH3 two-stage solid sorption freezing system for a refrigerated truck. *Energy*, **2016**, 103, 16-26	7.9	32
100	Non-equilibrium sorption performances for composite sorbents of chlorides–ammonia working pairs for refrigeration. *International Journal of Refrigeration*, **2016**, 65, 60-68	3.8	26
99	Experimental study on a resorption system for power and refrigeration cogeneration. *Energy*, **2016**, 97, 182-190	7.9	33
98	Study on MnCl2/CaCl2–NH3 two-stage solid sorption freezing cycle for refrigerated trucks at low engine load in summer. *Energy Conversion and Management*, **2016**, 109, 1-9	10.6	27
97	Water vapor sorption performance of ACF-CaCl2 and silica gel-CaCl2 composite adsorbents. *Applied Thermal Engineering*, **2016**, 100, 893-901	5.8	62

96	Experimental investigation on a MnCl2□CaCl2□NH3 thermal energy storage system. *Renewable Energy*, **2016**, 91, 130-136	8.1	30
95	Design and experimental study of a silica gel-water adsorption chiller with modular adsorbers. *International Journal of Refrigeration*, **2016**, 67, 336-344	3.8	67
94	Thermodynamic analysis of single-stage and multi-stage adsorption refrigeration cycles with activated carbon□ammonia working pair. *Energy Conversion and Management*, **2016**, 117, 31-42	10.6	29
93	Investigation on non-equilibrium performance of composite adsorbent for resorption refrigeration. *Energy Conversion and Management*, **2016**, 119, 67-74	10.6	26
92	Analysis of an optimal resorption cogeneration using mass and heat recovery processes. *Applied Energy*, **2015**, 160, 892-901	10.7	31
91	Comparison of different kinds of heat recoveries applied in adsorption refrigeration system. *International Journal of Refrigeration*, **2015**, 55, 37-48	3.8	39
90	Experimental investigation on a small pumpless ORC (organic rankine cycle) system driven by the low temperature heat source. *Energy*, **2015**, 91, 324-333	7.9	43
89	Design and assessment on a novel integrated system for power and refrigeration using waste heat from diesel engine. *Applied Thermal Engineering*, **2015**, 91, 591-599	5.8	33
88	Performance prediction on a resorption cogeneration cycle for power and refrigeration with energy storage. *Renewable Energy*, **2015**, 83, 1250-1259	8.1	22
87	Theoretical and experimental investigation of a closed sorption thermal storage prototype using LiCl/water. *Energy*, **2015**, 93, 1523-1534	7.9	30
86	A review of promising candidate reactions for chemical heat storage. *Renewable and Sustainable Energy Reviews*, **2015**, 43, 13-31	16.2	199
85	Simulation and experiments on an ORC system with different scroll expanders based on energy and exergy analysis. *Applied Thermal Engineering*, **2015**, 75, 880-888	5.8	60
84	Experimental study on working pairs for two-stage chemisorption freezing cycle. *Renewable Energy* , **2015**, 74, 287-297	8.1	24
83	Performance of a resorption cycle for recovering the waste heat from vehicles. *Science and Technology for the Built Environment*, **2015**, 21, 280-289	1.8	3
82	Experimental Investigation of a Scroll Expander for Power Generation Part of a Resorption Cogeneration. *Energy Procedia*, **2015**, 75, 1027-1032	2.3	3
81	Study on consolidated composite sorbents impregnated with LiCl for thermal energy storage. *International Journal of Heat and Mass Transfer*, **2015**, 84, 660-670	4.9	58
80	SIMULATION OF HEAT AND MASS TRANSFER PERFORMANCE WITH CONSOLIDATED COMPOSITE ACTIVATED CARBON. *Heat Transfer Research*, **2015**, 46, 109-122	3.9	5
79	Evaluation of a three-phase sorption cycle for thermal energy storage. *Energy*, **2014**, 67, 468-478	7.9	57

78	Adsorption Working Pairs **2014**, 23-45		
77	Mechanism and Thermodynamic Properties of Chemical Adsorption **2014**, 71-95		
76	Adsorption Mechanism and Thermodynamic Characteristics of Composite Adsorbents **2014**, 97-133		
75	Adsorption Refrigeration Cycles **2014**, 135-232		
74	Technology of Adsorption Bed and Adsorption Refrigeration System **2014**, 233-271		
73	Design and Performance of the Adsorption Refrigeration System **2014**, 273-392		
72	Adsorption Refrigeration Driven by Solar Energy and Waste Heat **2014**, 393-488		
71	Chemisorption cooling and electric power cogeneration system driven by low grade heat. *Energy*, **2014**, 72, 590-598	7.9	28
70	Experimental investigation of an adsorption refrigeration prototype with the working pair of composite adsorbent-ammonia. *Applied Thermal Engineering*, **2014**, 72, 275-282	5.8	31
69	Development and characterization of silica gel□iCl composite sorbents for thermal energy storage. *Chemical Engineering Science*, **2014**, 111, 73-84	4.4	89
68	Study on gradient thermal driven adsorption cycle with freezing and cooling output for food storage. *Applied Thermal Engineering*, **2014**, 70, 231-239	5.8	10
67	Development of highly conductive KNO3/NaNO3 composite for TES (thermal energy storage). *Energy*, **2014**, 70, 272-277	7.9	40
66	Investigation on cascading cogeneration system of ORC (Organic Rankine Cycle) and CaCl2/BaCl2 two-stage adsorption freezer. *Energy*, **2014**, 71, 377-387	7.9	28
65	Thermal conductivity, pore structure and adsorption performance of compact composite silica gel. *International Journal of Heat and Mass Transfer*, **2014**, 68, 435-443	4.9	43
64	Optimisation of a Novel Resorption Cogeneration Using Mass and Heat Recovery. *Energy Procedia*, **2014**, 61, 1103-1106	2.3	8
63	**2014**,		52
62	Solar Powered Cascading Cogeneration Cycle with ORC and Adsorption Technology for Electricity and Refrigeration. *Heat Transfer Engineering*, **2014**, 35, 1028-1034	1.7	27
61	Thermodynamic analysis and performance simulation of different kinds of mass recovery processes applied in adsorption refrigeration system. *HVAC and R Research*, **2014**, 20, 311-319		10

60	Investigation on thermal conductive consolidated composite CaCl2 for adsorption refrigeration. *International Journal of Thermal Sciences*, **2014**, 81, 68-75	4.1	61
59	Experimental study on an adsorption icemaker driven by parabolic trough solar collector. *Renewable Energy*, **2013**, 57, 223-233	8.1	31
58	Sorption thermal storage for solar energy. *Progress in Energy and Combustion Science*, **2013**, 39, 489-514	33.6	334
57	Study on consolidated activated carbon: Choice of optimal adsorbent for refrigeration application. *International Journal of Heat and Mass Transfer*, **2013**, 67, 867-876	4.9	31
56	Effective thermal conductivity and permeability of compact compound ammoniated salts in the adsorption/desorption process. *International Journal of Thermal Sciences*, **2013**, 71, 103-110	4.1	38
55	Comparison on Thermal Conductivity and Permeability of Granular and Consolidated Activated Carbon for Refrigeration. *Chinese Journal of Chemical Engineering*, **2013**, 21, 676-682	3.2	35
54	A resorption cycle for the cogeneration of electricity and refrigeration. *Applied Energy*, **2013**, 106, 56-64	10.7	48
53	Experimental study of a two-stage adsorption freezing machine driven by low temperature heat source. *International Journal of Refrigeration*, **2013**, 36, 1029-1036	3.8	31
52	Two types of natural graphite host matrix for composite activated carbon adsorbents. *Applied Thermal Engineering*, **2013**, 50, 1652-1657	5.8	26
51	Design and performance analysis of a resorption cogeneration system. *International Journal of Low-Carbon Technologies*, **2013**, 8, i85-i91	2.8	16
50	Experimental analysis of an adsorption refrigerator with mass and heat-pipe heat recovery process. *Energy Conversion and Management*, **2012**, 53, 291-297	10.6	26
49	Development of thermal conductive consolidated activated carbon for adsorption refrigeration. *Carbon*, **2012**, 50, 977-986	10.4	82
48	Permeability and thermal conductivity of compact chemical and physical adsorbents with expanded natural graphite as host matrix. *International Journal of Heat and Mass Transfer*, **2012**, 55, 4453-4459	4.9	43
47	Heat transfer design in adsorption refrigeration systems for efficient use of low-grade thermal energy. *Energy*, **2011**, 36, 5425-5439	7.9	68
46	Experimental study on the performance of double-effect and double-way thermochemical sorption refrigeration cycle. *Applied Thermal Engineering*, **2011**, 31, 3658-3663	5.8	12
45	Working pairs for resorption refrigerator. *Applied Thermal Engineering*, **2011**, 31, 3015-3021	5.8	20
44	Permeability and thermal conductivity of host compressed natural graphite for consolidated activated carbon adsorbent. *Frontiers in Energy*, **2011**, 5, 159-165	2.6	1
43	A two-stage deep freezing chemisorption cycle driven by low-temperature heat source. *Frontiers in Energy*, **2011**, 5, 263	2.6	10

42	Thermal conductivity and permeability of consolidated expanded natural graphite treated with sulphuric acid. *Carbon*, **2011**, 49, 4812-4819	10.4	72
41	A resorption refrigerator driven by low grade thermal energy. *Energy Conversion and Management*, **2011**, 52, 2339-2344	10.6	18
40	A new target-oriented methodology of decreasing the regeneration temperature of solid–gas thermochemical sorption refrigeration system driven by low-grade thermal energy. *International Journal of Heat and Mass Transfer*, **2011**, 54, 4719-4729	4.9	31
39	Experimental study on a combined double-way chemisorption refrigeration system. *International Journal of Refrigeration*, **2011**, 34, 914-921	3.8	8
38	Study of thermal conductivity, permeability, and adsorption performance of consolidated composite activated carbon adsorbent for refrigeration. *Renewable Energy*, **2011**, 36, 2062-2066	8.1	74
37	Experimental study of a novel CaCl2/expanded graphite-NH3 adsorption refrigerator. *International Journal of Refrigeration*, **2010**, 33, 61-69	3.8	38
36	On corrosion to stainless steel by calcium chloride with different extender. *Frontiers of Energy and Power Engineering in China*, **2010**, 4, 181-184		2
35	Anisotropic thermal conductivity and permeability of compacted expanded natural graphite. *Applied Thermal Engineering*, **2010**, 30, 1805-1811	5.8	70
34	Performance improvement of a combined double-way thermochemical sorption refrigeration cycle with reheating process. *AICHE Journal*, **2009**, 56, NA-NA	3.6	1
33	A conceptual design and performance analysis of a triple-effect solid–gas thermochemical sorption refrigeration system with internal heat recovery. *Chemical Engineering Science*, **2009**, 64, 3376-3384	4.4	21
32	A combined double-way chemisorption refrigeration cycle based on adsorption and resorption processes. *International Journal of Refrigeration*, **2009**, 32, 47-57	3.8	28
31	High-efficient thermochemical sorption refrigeration driven by low-grade thermal energy. *Science Bulletin*, **2009**, 54, 885-905	10.6	5
30	Thermodynamic study of a combined double-way solid–gas thermochemical sorption refrigeration cycle. *International Journal of Refrigeration*, **2009**, 32, 1570-1578	3.8	13
29	Study on the heat transfer and sorption characteristics of a consolidated composite sorbent for solar-powered thermochemical cooling systems. *Solar Energy*, **2009**, 83, 1742-1755	6.8	16
28	A comparison of the performances of adsorption and resorption refrigeration systems powered by the low grade heat. *Renewable Energy*, **2009**, 34, 2373-2379	8.1	28
27	A review on adsorption working pairs for refrigeration. *Renewable and Sustainable Energy Reviews*, **2009**, 13, 518-534	16.2	299
26	Performance study of a consolidated manganese chloride–expanded graphite compound for sorption deep-freezing processes. *Applied Energy*, **2009**, 86, 1201-1209	10.7	25
25	Experimental study on an innovative multifunction heat pipe type heat recovery two-stage sorption refrigeration system. *Energy Conversion and Management*, **2008**, 49, 2505-2512	10.6	15

24	Influence of mass recovery on the performance of a heat pipe type ammonia sorption refrigeration system using CaCl2/activated carbon as compound adsorbent. *Applied Thermal Engineering*, **2008**, 28, 1638-1646	5.8	10
23	Experimental investigation of an innovative dual-mode chemisorption refrigeration system based on multifunction heat pipes. *International Journal of Refrigeration*, **2008**, 31, 1104-1112	3.8	8
22	Studies on heat pipe type adsorption ice maker for fishing boats. *International Journal of Refrigeration*, **2008**, 31, 989-997	3.8	18
21	Experimental investigation of a novel multifunction heat pipe solid sorption icemaker for fishing boats using CaCl2/activated carbon compound□ammonia. *International Journal of Refrigeration*, **2007**, 30, 76-85	3.8	39
20	Studies on cycle characteristics and application of split heat pipe adsorption ice maker. *Energy Conversion and Management*, **2007**, 48, 1106-1112	10.6	15
19	Performance study of a high efficient multifunction heat pipe type adsorption ice making system with novel mass and heat recovery processes. *International Journal of Thermal Sciences*, **2007**, 46, 1267-1274	4.1	21
18	A study on multifunction heat pipe type high efficient adsorption refrigerator using compound adsorbentammonia. *Science Bulletin*, **2006**, 51, 239-242		3
17	Effective thermal conductivity of expanded graphite□CaCl2 composite adsorbent for chemical adsorption chillers. *Energy Conversion and Management*, **2006**, 47, 1902-1912	10.6	74
16	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. *Energy Conversion and Management* , **2006**, 47, 2081-2091	10.6	12
15	Design, simulation and performance of a waste heat driven adsorption ice maker for fishing boat. *Energy*, **2006**, 31, 244-259	7.9	28
14	Performance analysis of an adsorption refrigerator using activated carbon in a compound adsorbent. *Carbon*, **2006**, 44, 747-752	10.4	58
13	The performance of two adsorption ice making test units using activated carbon and a carbon composite as adsorbents. *Carbon*, **2006**, 44, 2671-2680	10.4	68
12	Comparison of the adsorption performance of compound adsorbent in a refrigeration cycle with and without mass recovery. *Chemical Engineering Science*, **2006**, 61, 3761-3770	4.4	22
11	Composite adsorbent of CaCl2 and expanded graphite for adsorption ice maker on fishing boats. *International Journal of Refrigeration*, **2006**, 29, 199-210	3.8	74
10	Split heat pipe type compound adsorption ice making test unit for fishing boats. *International Journal of Refrigeration*, **2006**, 29, 456-468	3.8	40
9	Research on the chemical adsorption precursor state of CaCl2-NH3 for adsorption refrigeration. *Science in China Series D: Earth Sciences*, **2005**, 48, 70		16
8	A new type adsorber for adsorption ice maker on fishing boats. *Energy Conversion and Management*, **2005**, 46, 2301-2316	10.6	17
7	Adsorption refrigeration-green cooling driven by low grade thermal energy. *Science Bulletin*, **2005**, 50, 193-204		20

6	Adsorption ice makers for fishing boats driven by the exhaust heat from diesel engine: choice of adsorption pair. *Energy Conversion and Management*, **2004**, 45, 2043-2057	10.6	64
5	Adsorption performances and refrigeration application of adsorption working pair of CaCl2-NH3. *Science in China Series D: Earth Sciences*, **2004**, 47, 173		18
4	Compound adsorbent for adsorption ice maker on fishing boats. *International Journal of Refrigeration*, **2004**, 27, 401-408	3.8	92
3	Experimental study of a solidified activated carbon-methanol adsorption ice maker. *Applied Thermal Engineering*, **2003**, 23, 1453-1462	5.8	54
2	Study of the performance of activated carbon–methanol adsorption systems concerning heat and mass transfer. *Applied Thermal Engineering*, **2003**, 23, 1605-1617	5.8	65
1	Multi-stage ammonia production for sorption selective catalytic reduction of NOx. *Frontiers in Energy*,1	2.6	0