

# Ruzhu Wang

## List of Publications by Year in descending order

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854  
papers

38,677  
citations

3531

90  
h-index

9861

141  
g-index

874  
all docs

874  
docs citations

874  
times ranked

14583  
citing authors

#	ARTICLE	IF	CITATIONS
1	Combined cooling, heating and power: A review. <i>Progress in Energy and Combustion Science</i> , 2006, 32, 459-495.	31.2	679
2	A review of available technologies for seasonal thermal energy storage. <i>Solar Energy</i> , 2014, 103, 610-638.	6.1	451
3	Progress and Expectation of Atmospheric Water Harvesting. <i>Joule</i> , 2018, 2, 1452-1475.	24.0	424
4	Sorption thermal storage for solar energy. <i>Progress in Energy and Combustion Science</i> , 2013, 39, 489-514.	31.2	423
5	Concentrated solar energy applications using Fresnel lenses: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2011, 15, 2588-2606.	16.4	409
6	Desiccant cooling air conditioning: a review. <i>Renewable and Sustainable Energy Reviews</i> , 2006, 10, 55-77.	16.4	388
7	A review on adsorption working pairs for refrigeration. <i>Renewable and Sustainable Energy Reviews</i> , 2009, 13, 518-534.	16.4	375
8	Adsorption refrigeration—An efficient way to make good use of waste heat and solar energy†. <i>Progress in Energy and Combustion Science</i> , 2006, 32, 424-458.	31.2	371
9	A review of thermally activated cooling technologies for combined cooling, heating and power systems. <i>Progress in Energy and Combustion Science</i> , 2011, 37, 172-203.	31.2	355
10	Preparation and thermal characterization of expanded graphite/paraffin composite phase change material. <i>Carbon</i> , 2010, 48, 2538-2548.	10.3	318
11	Ultrahigh-efficiency desalination <i>via</i> a thermally-localized multistage solar still. <i>Energy and Environmental Science</i> , 2020, 13, 830-839.	30.8	317
12	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.	21.0	298
13	Technical development of rotary desiccant dehumidification and air conditioning: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2010, 14, 130-147.	16.4	291
14	Thermal stratification within the water tank. <i>Renewable and Sustainable Energy Reviews</i> , 2009, 13, 1014-1026.	16.4	290
15	A review of promising candidate reactions for chemical heat storage. <i>Renewable and Sustainable Energy Reviews</i> , 2015, 43, 13-31.	16.4	278
16	How to evaluate performance of net zero energy building—A literature research. <i>Energy</i> , 2014, 71, 1-16.	8.8	251
17	Performance improvement of adsorption cooling by heat and mass recovery operation. <i>International Journal of Refrigeration</i> , 2001, 24, 602-611.	3.4	231
18	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.	13.8	231

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19	Recent progress on desiccant materials for solid desiccant cooling systems. <i>Energy</i> , 2014, 74, 280-294.	8.8	230
20	Progress of mathematical modeling on ejectors. <i>Renewable and Sustainable Energy Reviews</i> , 2009, 13, 1760-1780.	16.4	211
21	Energy optimization model for a CCHP system with available gas turbines. <i>Applied Thermal Engineering</i> , 2005, 25, 377-391.	6.0	203
22	Energy and exergy analyses on a novel hybrid solar heating, cooling and power generation system for remote areas. <i>Applied Energy</i> , 2009, 86, 1395-1404.	10.1	203
23	An overview of phase change material slurries: MPCs and CHS. <i>Renewable and Sustainable Energy Reviews</i> , 2010, 14, 598-614.	16.4	203
24	Natural gas storage in hydrates with the presence of promoters. <i>Energy Conversion and Management</i> , 2003, 44, 2733-2742.	9.2	201
25	Use of liquid desiccant cooling to improve the performance of vapor compression air conditioning. <i>Applied Thermal Engineering</i> , 2001, 21, 1185-1202.	6.0	193
26	Perspectives for low-temperature waste heat recovery. <i>Energy</i> , 2019, 176, 1037-1043.	8.8	189
27	A simulation study of heat and mass transfer in a honeycombed rotary desiccant dehumidifier. <i>Applied Thermal Engineering</i> , 2003, 23, 989-1003.	6.0	184
28	Form-stable phase change composites: Preparation, performance, and applications for thermal energy conversion, storage and management. <i>Energy Storage Materials</i> , 2021, 42, 380-417.	18.0	182
29	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.	8.8	181
30	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.	10.3	178
31	Study of a novel silica gel-water adsorption chiller. Part I. Design and performance prediction. <i>International Journal of Refrigeration</i> , 2005, 28, 1073-1083.	3.4	176
32	Energy efficiency and economic feasibility of CCHP driven by stirling engine. <i>Energy Conversion and Management</i> , 2004, 45, 1433-1442.	9.2	171
33	Advances in wind energy resource exploitation in urban environment: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2014, 37, 613-626.	16.4	170
34	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> , 2021, 14, 5979-5994.	30.8	170
35	Experimental comparison of two honeycombed desiccant wheels fabricated with silica gel and composite desiccant material. <i>Energy Conversion and Management</i> , 2006, 47, 2523-2534.	9.2	166
36	Adsorption-based atmospheric water harvesting. <i>Joule</i> , 2021, 5, 1678-1703.	24.0	165

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37	Literature review on solar adsorption technologies for ice-making and air-conditioning purposes and recent developments in solar technology. <i>Renewable and Sustainable Energy Reviews</i> , 2001, 5, 313-342.	16.4	163
38	A review of the mathematical models for predicting rotary desiccant wheel. <i>Renewable and Sustainable Energy Reviews</i> , 2008, 12, 1485-1528.	16.4	162
39	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.	4.8	159
40	Experimental comparison and analysis on silica gel and polymer coated fin-tube heat exchangers. <i>Energy</i> , 2010, 35, 2893-2900.	8.8	153
41	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.	16.0	153
42	Sorption thermal energy storage: Concept, process, applications and perspectives. <i>Energy Storage Materials</i> , 2020, 27, 352-369.	18.0	152
43	Formation and dissociation of HFC134a gas hydrate in nano-copper suspension. <i>Energy Conversion and Management</i> , 2006, 47, 201-210.	9.2	151
44	Use of compound desiccant to develop high performance desiccant cooling system. <i>International Journal of Refrigeration</i> , 2007, 30, 345-353.	3.4	150
45	A review on phase change cold storage in air-conditioning system: Materials and applications. <i>Renewable and Sustainable Energy Reviews</i> , 2013, 22, 108-120.	16.4	150
46	A Thermal Management Strategy for Electronic Devices Based on Moisture Sorption-Desorption Processes. <i>Joule</i> , 2020, 4, 435-447.	24.0	150
47	A review for research and new design options of solar absorption cooling systems. <i>Renewable and Sustainable Energy Reviews</i> , 2011, 15, 4416-4423.	16.4	146
48	Solar sorption cooling systems for residential applications: Options and guidelines. <i>International Journal of Refrigeration</i> , 2009, 32, 638-660.	3.4	140
49	Solar heating and cooling: Present and future development. <i>Renewable Energy</i> , 2018, 126, 1126-1140.	8.9	139
50	Super Atmospheric Water Harvesting Hydrogel with Alginate Chains Modified with Binary Salts. , 2020, 2, 471-477.		137
51	Flow boiling of liquid nitrogen in micro-tubes: Part II " Heat transfer characteristics and critical heat flux. <i>International Journal of Heat and Mass Transfer</i> , 2007, 50, 5017-5030.	4.8	135
52	Development of a novel two-stage liquid desiccant dehumidification system assisted by CaCl <sub>2</sub> solution using exergy analysis method. <i>Applied Energy</i> , 2010, 87, 1495-1504.	10.1	135
53	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.	8.8	132
54	A mathematical model for predicting the performance of a compound desiccant wheel (A model of) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	6.0	131

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55	New composite adsorbent for solar-driven fresh water production from the atmosphere. Desalination, 2007, 212, 176-182.	8.2	128
56	Experimental investigation on a one-rotor two-stage rotary desiccant cooling system. Energy, 2008, 33, 1807-1815.	8.8	125
57	Simulation and experimental validation of the variable-refrigerant-volume (VRV) air-conditioning system in EnergyPlus. Energy and Buildings, 2008, 40, 1041-1047.	6.7	124
58	Development and characterization of silica gel/LiCl composite sorbents for thermal energy storage. Chemical Engineering Science, 2014, 111, 73-84.	3.8	121
59	Performance of a multi-functional direct-expansion solar assisted heat pump system. Solar Energy, 2006, 80, 795-803.	6.1	119
60	Numerical heat transfer analysis of the packed bed latent heat storage system based on an effective packed bed model. Energy, 2010, 35, 2022-2032.	8.8	119
61	Experimental study on a two-stage rotary desiccant cooling system. International Journal of Refrigeration, 2009, 32, 498-508.	3.4	118
62	Case study of solar chimney power plants in Northwestern regions of China. Renewable Energy, 2003, 28, 1295-1304.	8.9	117
63	An energy efficient hybrid system of solar powered water heater and adsorption ice maker. Solar Energy, 2000, 68, 189-195.	6.1	115
64	Energy simulation in the variable refrigerant flow air-conditioning system under cooling conditions. Energy and Buildings, 2007, 39, 212-220.	6.7	115
65	Thermal energy storage coupled with PV panels for demand side management of industrial building cooling loads. Applied Energy, 2017, 185, 1984-1993.	10.1	115
66	Solar integrated energy system for a green building. Energy and Buildings, 2007, 39, 985-993.	6.7	114
67	Performance study of silica gel coated fin-tube heat exchanger cooling system based on a developed mathematical model. Energy Conversion and Management, 2011, 52, 2329-2338.	9.2	113
68	Study of a novel silica gel/water adsorption chiller. Part II. Experimental study. International Journal of Refrigeration, 2005, 28, 1084-1091.	3.4	111
69	Analysis on a hybrid desiccant air-conditioning system. Applied Thermal Engineering, 2006, 26, 2393-2400.	6.0	111
70	Experimental performance analysis on a direct-expansion solar-assisted heat pump water heater. Applied Thermal Engineering, 2007, 27, 2858-2868.	6.0	111
71	Adsorption refrigeration research in Shanghai Jiao Tong University. Renewable and Sustainable Energy Reviews, 2001, 5, 1-37.	16.4	110
72	Study on a direct-expansion solar-assisted heat pump water heating system. International Journal of Energy Research, 2003, 27, 531-548.	4.5	110

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73	Experimental investigation of a micro-combined cooling, heating and power system driven by a gas engine. <i>International Journal of Refrigeration</i> , 2005, 28, 977-987.	3.4	110
74	A review for the applications of solar chimneys in buildings. <i>Renewable and Sustainable Energy Reviews</i> , 2011, 15, 3757-3767.	16.4	110
75	Experimental investigation and analysis on a thermoelectric refrigerator driven by solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2003, 77, 377-391.	6.2	109
76	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.	31.2	106
77	Flow boiling of liquid nitrogen in micro-tubes: Part I – The onset of nucleate boiling, two-phase flow instability and two-phase flow pressure drop. <i>International Journal of Heat and Mass Transfer</i> , 2007, 50, 4999-5016.	4.8	105
78	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.	4.8	105
79	Compound adsorbent for adsorption ice maker on fishing boats. <i>International Journal of Refrigeration</i> , 2004, 27, 401-408.	3.4	104
80	Forced flow and convective melting heat transfer of clathrate hydrate slurry in tubes. <i>International Journal of Heat and Mass Transfer</i> , 2010, 53, 3745-3757.	4.8	104
81	Gas Hydrate Phase Equilibrium Data of Cyclohexane and Cyclopentane. <i>Journal of Chemical &amp; Engineering Data</i> , 2002, 47, 313-315.	1.9	103
82	Case study and theoretical analysis of a solar driven two-stage rotary desiccant cooling system assisted by vapor compression air-conditioning. <i>Solar Energy</i> , 2011, 85, 2997-3009.	6.1	101
83	Absorption refrigeration cycles: Categorized based on the cycle construction. <i>International Journal of Refrigeration</i> , 2016, 62, 114-136.	3.4	101
84	Vapor compression heat pumps with pure Low-GWP refrigerants. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 138, 110571.	16.4	101
85	Experimental investigation and analysis on a concentrating solar collector using linear Fresnel lens. <i>Energy Conversion and Management</i> , 2010, 51, 48-55.	9.2	100
86	Development and thermochemical characterizations of vermiculite/SrBr <sub>2</sub> composite sorbents for low-temperature heat storage. <i>Energy</i> , 2016, 115, 120-128.	8.8	98
87	Experimental study on a continuous adsorption water chiller with novel design. <i>International Journal of Refrigeration</i> , 2005, 28, 218-230.	3.4	96
88	Renewable energy in Kenya: Resource potential and status of exploitation. <i>Renewable and Sustainable Energy Reviews</i> , 2011, 15, 2960-2973.	16.4	95
89	Comfortable, high-efficiency heat pump with desiccant-coated, water-sorbing heat exchangers. <i>Scientific Reports</i> , 2017, 7, 40437.	3.3	95
90	Performance analysis on a hybrid air-conditioning system of a green building. <i>Energy and Buildings</i> , 2006, 38, 447-453.	6.7	94

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91	A review for absorption and adsorption solar cooling systems in China. <i>Renewable and Sustainable Energy Reviews</i> , 2009, 13, 1523-1531.	16.4	94
92	Study on a compact silica gel-water adsorption chiller without vacuum valves: Design and experimental study. <i>Applied Energy</i> , 2010, 87, 2673-2681.	10.1	94
93	A review for the applications and integrated approaches of ground-coupled heat pump systems. <i>Renewable and Sustainable Energy Reviews</i> , 2011, 15, 3133-3140.	16.4	94
94	Water vapor sorption performance of ACF-CaCl <sub>2</sub> and silica gel-CaCl <sub>2</sub> composite adsorbents. <i>Applied Thermal Engineering</i> , 2016, 100, 893-901.	6.0	94
95	Experimental investigation on a desiccant dehumidification unit using fin-tube heat exchanger with silica gel coating. <i>Applied Thermal Engineering</i> , 2014, 63, 52-58.	6.0	93
96	Performance investigation of a solar heating system with underground seasonal energy storage for greenhouse application. <i>Energy</i> , 2014, 67, 63-73.	8.8	91
97	Study of thermal conductivity, permeability, and adsorption performance of consolidated composite activated carbon adsorbent for refrigeration. <i>Renewable Energy</i> , 2011, 36, 2062-2066.	8.9	90
98	Recent advances in direct air capture by adsorption. <i>Chemical Society Reviews</i> , 2022, 51, 6574-6651.	38.1	89
99	Experimental performance analysis and optimization of a direct expansion solar-assisted heat pump water heater. <i>Energy</i> , 2007, 32, 1361-1374.	8.8	88
100	Optimal study of a solar air heating system with pebble bed energy storage. <i>Energy Conversion and Management</i> , 2011, 52, 2392-2400.	9.2	88
101	Comparative study on two novel intermediate temperature CPC solar collectors with the U-shape evacuated tubular absorber. <i>Solar Energy</i> , 2013, 93, 220-234.	6.1	88
102	Study on dew point evaporative cooling system with counter-flow configuration. <i>Energy Conversion and Management</i> , 2016, 109, 153-165.	9.2	88
103	Study of a novel solar adsorption cooling system and a solar absorption cooling system with new CPC collectors. <i>Renewable Energy</i> , 2013, 50, 299-306.	8.9	87
104	Review on solar powered rotary desiccant wheel cooling system. <i>Renewable and Sustainable Energy Reviews</i> , 2014, 39, 476-497.	16.4	87
105	Urban Heat Island and Overheating Characteristics in Sydney, Australia. An Analysis of Multiyear Measurements. <i>Sustainability</i> , 2017, 9, 712.	3.2	87
106	Visualization of flow boiling of liquid nitrogen in a vertical mini-tube. <i>International Journal of Multiphase Flow</i> , 2008, 34, 333-351.	3.4	86
107	Optimal operation of a micro-combined cooling, heating and power system driven by a gas engine. <i>Energy Conversion and Management</i> , 2009, 50, 530-538.	9.2	86
108	Design and experimental study of a silica gel-water adsorption chiller with modular adsorbents. <i>International Journal of Refrigeration</i> , 2016, 67, 336-344.	3.4	86

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109	Performance study of composite silica gels with different pore sizes and different impregnating hygroscopic salts. <i>Chemical Engineering Science</i> , 2014, 120, 1-9.	3.8	85
110	Performance study on composite desiccant material coated fin-tube heat exchangers. <i>International Journal of Heat and Mass Transfer</i> , 2015, 90, 109-120.	4.8	85
111	Performance study of SAPO-34 and FAPO-34 desiccants for desiccant coated heat exchanger systems. <i>Energy</i> , 2015, 93, 88-94.	8.8	85
112	Experimental study on silica gel-LiCl composite desiccants for desiccant coated heat exchanger. <i>International Journal of Refrigeration</i> , 2015, 51, 24-32.	3.4	84
113	Design and performance of a solar-powered air-conditioning system in a green building. <i>Applied Energy</i> , 2008, 85, 297-311.	10.1	83
114	Experimental investigation on two solar-driven sorption based devices to extract fresh water from atmosphere. <i>Applied Thermal Engineering</i> , 2017, 127, 1608-1616.	6.0	83
115	Adsorption cold storage system with zeolite-water working pair used for locomotive air conditioning. <i>Energy Conversion and Management</i> , 2003, 44, 1733-1743.	9.2	82
116	Heat transfer design in adsorption refrigeration systems for efficient use of low-grade thermal energy. <i>Energy</i> , 2011, 36, 5425-5439.	8.8	82
117	Numerical and experimental analysis of a point focus solar collector using high concentration imaging PMMA Fresnel lens. <i>Energy Conversion and Management</i> , 2011, 52, 2417-2426.	9.2	82
118	Experimental study on roll-bond collector/evaporator with optimized-channel used in direct expansion solar assisted heat pump water heating system. <i>Applied Thermal Engineering</i> , 2014, 66, 571-579.	6.0	82
119	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.	4.8	82
120	Ultrahigh-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.	17.4	82
121	Effective thermal conductivity of expanded graphite-CaCl <sub>2</sub> composite adsorbent for chemical adsorption chillers. <i>Energy Conversion and Management</i> , 2006, 47, 1902-1912.	9.2	81
122	Near-Zero-Energy Smart Battery Thermal Management Enabled by Sorption Energy Harvesting from Air. <i>ACS Central Science</i> , 2020, 6, 1542-1554.	11.3	81
123	Hydrate equilibrium data of 1,1,1,2-tetrafluoroethane (HFC-134a), 1,1-dichloro-1-fluoroethane (HCFC-141b) and 1,1-difluoroethane (HFC-152a). <i>Fluid Phase Equilibria</i> , 2001, 187-188, 61-70.	2.5	80
124	Experimental study on dynamic performance analysis of a flat-plate solar solid-adsorption refrigeration for ice maker. <i>Renewable Energy</i> , 2002, 27, 211-221.	8.9	80
125	Experimental investigation on a thermoelectric refrigerator driven by solar cells. <i>Renewable Energy</i> , 2003, 28, 949-959.	8.9	80
126	A novel thermal storage strategy for CCHP system based on energy demands and state of storage tank. <i>International Journal of Electrical Power and Energy Systems</i> , 2017, 85, 117-129.	5.5	80

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127	Research and development of consolidated adsorbent for adsorption systems. <i>Renewable Energy</i> , 2005, 30, 1425-1441.	8.9	79
128	Composite adsorbent of CaCl <sub>2</sub> and expanded graphite for adsorption ice maker on fishing boats. <i>International Journal of Refrigeration</i> , 2006, 29, 199-210.	3.4	79
129	Evaluation and analysis of novel micro-scale combined cooling, heating and power (MCCHP) system. <i>Energy Conversion and Management</i> , 2007, 48, 1703-1709.	9.2	79
130	Experimental and theoretical analysis on a linear Fresnel reflector solar collector prototype with V-shaped cavity receiver. <i>Applied Thermal Engineering</i> , 2013, 51, 963-972.	6.0	79
131	The present and future of residential refrigeration, power generation and energy storage. <i>Applied Thermal Engineering</i> , 2013, 53, 256-270.	6.0	79
132	Development of SrBr <sub>2</sub> composite sorbents for a sorption thermal energy storage system to store low-temperature heat. <i>Energy</i> , 2016, 115, 129-139.	8.8	79
133	Thermal energy storage using absorption cycle and system: A comprehensive review. <i>Energy Conversion and Management</i> , 2020, 206, 112482.	9.2	79
134	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.	10.3	78
135	Universal scalable sorption-based atmosphere water harvesting. <i>Energy</i> , 2018, 165, 387-395.	8.8	78
136	Study of the fundamentals of adsorption systems. <i>Applied Thermal Engineering</i> , 1997, 17, 327-338.	6.0	77
137	Parameter analysis to improve rotary desiccant dehumidification using a mathematical model. <i>International Journal of Thermal Sciences</i> , 2001, 40, 400-408.	4.9	77
138	Performance comparison between a solar driven rotary desiccant cooling system and conventional vapor compression system (performance study of desiccant cooling). <i>Applied Thermal Engineering</i> , 2010, 30, 724-731.	6.0	77
139	Simulation investigation on solar powered desiccant coated heat exchanger cooling system. <i>Applied Energy</i> , 2012, 93, 532-540.	10.1	77
140	Study on heat and mass recovery in adsorption refrigeration cycles. <i>Applied Thermal Engineering</i> , 2001, 21, 439-452.	6.0	76
141	Experimental performance of a silica gel-water adsorption chiller. <i>Applied Thermal Engineering</i> , 2005, 25, 359-375.	6.0	76
142	A consolidated calcium chloride-expanded graphite compound for use in sorption refrigeration systems. <i>Carbon</i> , 2007, 45, 390-396.	10.3	76
143	Anisotropic thermal conductivity and permeability of compacted expanded natural graphite. <i>Applied Thermal Engineering</i> , 2010, 30, 1805-1811.	6.0	76
144	Study of the performance of activated carbon-methanol adsorption systems concerning heat and mass transfer. <i>Applied Thermal Engineering</i> , 2003, 23, 1605-1617.	6.0	75

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145	System optimization and experimental research on air source heat pump water heater. Applied Thermal Engineering, 2007, 27, 1029-1035.	6.0	75
146	Experimental investigation and performance analysis on a solar adsorption cooling system with/without heat storage. Applied Energy, 2010, 87, 824-835.	10.1	75
147	Evaluation of a three-phase sorption cycle for thermal energy storage. Energy, 2014, 67, 468-478.	8.8	75
148	Experimental performance of evaporative cooling pad systems in greenhouses in humid subtropical climates. Applied Energy, 2015, 138, 291-301.	10.1	75
149	A high efficient semi-open system for fresh water production from atmosphere. Energy, 2017, 138, 542-551.	8.8	75
150	Experimental investigation on the heat transfer performance and water condensation phenomenon of radiant cooling panels. Building and Environment, 2014, 71, 15-23.	6.9	74
151	Waste heat recovery of power plant with large scale serial absorption heat pumps. Energy, 2018, 165, 1097-1105.	8.8	74
152	Study on hydro-forming technology of manufacturing bimetallic CRA-lined pipe. International Journal of Machine Tools and Manufacture, 2005, 45, 373-378.	13.4	73
153	Performance of energy recovery ventilator with various weathers and temperature set-points. Energy and Buildings, 2007, 39, 1202-1210.	6.7	73
154	A review on transportation of heat energy over long distance: Exploratory development. Renewable and Sustainable Energy Reviews, 2009, 13, 1532-1540.	16.4	73
155	A target-oriented solid-gas thermochemical sorption heat transformer for integrated energy storage and energy upgrade. AIChE Journal, 2013, 59, 1334-1347.	3.6	73
156	Performance prediction of a solar/gas driving double effect LiBr-H <sub>2</sub> O absorption system. Renewable Energy, 2004, 29, 1677-1695.	8.9	72
157	Study on consolidated composite sorbents impregnated with LiCl for thermal energy storage. International Journal of Heat and Mass Transfer, 2015, 84, 660-670.	4.8	72
158	Dual-Encapsulated Highly Conductive and Liquid-Free Phase Change Composites Enabled by Polyurethane/Graphite Nanoplatelets Hybrid Networks for Efficient Energy Storage and Thermal Management. Small, 2022, 18, e2105647.	10.0	72
159	Development of solar thermal technologies in China. Energy, 2010, 35, 4407-4416.	8.8	71
160	Investigation on thermal conductive consolidated composite CaCl <sub>2</sub> for adsorption refrigeration. International Journal of Thermal Sciences, 2014, 81, 68-75.	4.9	71
161	Study on a New Solid Absorption Refrigeration Pair: Active Carbon Fiber-Methanol. Journal of Solar Energy Engineering, Transactions of the ASME, 1997, 119, 214-218.	1.8	70
162	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.	9.2	70

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163	Experimental investigation and analysis of composite silica-gel coated fin-tube heat exchangers. International Journal of Refrigeration, 2015, 51, 169-179.	3.4	70
164	Refining energy sources in winemaking industry by using solar energy as alternatives for fossil fuels: A review and perspective. Renewable and Sustainable Energy Reviews, 2018, 88, 278-296.	16.4	70
165	Experimental and simulative investigation of a micro-CCHP (micro-Combined cooling, heating and) Tj ETQq1 1 0.784314 rgBT /Overlo 8.8	8.8	69
166	Simulation and experiments on an ORC system with different scroll expanders based on energy and exergy analysis. Applied Thermal Engineering, 2015, 75, 880-888.	6.0	69
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