Yi Jiang

List of Publications by Year in Descending Order

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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.

131	3,991	37	57
papers	citations	h-index	g-index
135	4,661 ext. citations	6.7	5.91
ext. papers		avg, IF	L-index

#	Paper	IF	Citations
131	Energy saving potential for space heating in Chinese airport terminals: The impact of air infiltration. <i>Energy</i> , 2021 , 215, 119175	7.9	11
130	Process design and analysis of a flexibly adjusted zonal absorption heat exchanger for high-rise building heating systems. <i>Applied Thermal Engineering</i> , 2021 , 195, 117173	5.8	0
129	Low carbon district heating in China in 2025- a district heating mode with low grade waste heat as heat source. <i>Energy</i> , 2021 , 230, 120765	7.9	8
128	Dynamic response of gravity-driven flow in multi-section absorption heat pump. <i>Applied Thermal Engineering</i> , 2021 , 200, 117622	5.8	1
127	Confirmation and prevention of vapor bypass in absorption heat pump with U-pipe pressure separation device caused by upward side two-phase flow. <i>International Journal of Refrigeration</i> , 2021 , 130, 199-207	3.8	1
126	Design and experimental study of a second type absorption heat exchanger. <i>International Journal of Refrigeration</i> , 2020 , 118, 50-60	3.8	3
125	Vertical U-pipe flow characteristics in absorption heat pump: Experimental study under vacuum conditions. <i>Applied Thermal Engineering</i> , 2020 , 172, 115164	5.8	3
124	Machine learning-based leakage fault detection for district heating networks. <i>Energy and Buildings</i> , 2020 , 223, 110161	7	18
123	A two-stage vertical absorption heat exchanger for district heating system. <i>International Journal of Refrigeration</i> , 2020 , 114, 19-31	3.8	9
122	Effects of space heating on the pollutant emission intensities in 2 +26 Lities. <i>Building and Environment</i> , 2020 , 175, 106817	6.5	11
121	Cleaner heating in Northern China: potentials and regional balances. <i>Resources, Conservation and Recycling</i> , 2020 , 160, 104897	11.9	26
120	Characteristics Analysis of the Heat-to-Power Ratio from the Supply and Demand Sides of Cities in Northern China. <i>Energies</i> , 2020 , 13, 242	3.1	5
119	Field tests on the operational energy consumption of Chinese district heating systems and evaluation of typical associated problems. <i>Energy and Buildings</i> , 2020 , 224, 110269	7	10
118	Optimization of solution flow rate and heat transfer area allocation in the two-stage absorption heat exchanger system based on a complete heat and mass transfer simulation model. <i>Applied Thermal Engineering</i> , 2020 , 178, 115616	5.8	3
117	The influence of a vertical chevron corrugated plate on wetting and thermal performance of a detachable plate-type falling film absorber. <i>Applied Thermal Engineering</i> , 2020 , 179, 115704	5.8	7
116	Multi-step ahead forecasting of heat load in district heating systems using machine learning algorithms. <i>Energy</i> , 2019 , 188, 116085	7.9	51
115	Combined heat and water system for long-distance heat transportation. <i>Energy</i> , 2019 , 172, 401-408	7.9	10

1	14	Novel flue gas waste heat recovery system equipped with enthalpy wheel. <i>Energy Conversion and Management</i> , 2019 , 196, 649-663	10.6	15	
1	13	Roadmap towards clean heating in 2035: Case study of inner Mongolia, China. <i>Energy</i> , 2019 , 189, 11615.	2 7.9	18	
1	12	A detachable plate falling film generator and condenser coupling using lithium bromide and water as working fluids. <i>International Journal of Refrigeration</i> , 2019 , 98, 120-128	3.8	6	
1	11	Match property analysis of falling film absorption process. <i>International Journal of Refrigeration</i> , 2019 , 98, 194-201	3.8	7	
1	10	Experimental and numerical analysis on total heat recovery performance of an enthalpy wheel under high temperature high humidity working conditions. <i>Applied Thermal Engineering</i> , 2019 , 146, 482-	- 4 984	10	
1	109	Systematic optimization for the utilization of low-temperature industrial excess heat for district heating. <i>Energy</i> , 2018 , 144, 984-991	7.9	15	
1	208	Novel beverage heating and fast-cooling processes separately using an absorption chiller and using electric heat pumps. <i>International Journal of Refrigeration</i> , 2018 , 94, 87-101	3.8	1	
1	207	Modular simulation of cogeneration system based on absorption heat exchange (Co-ah). <i>Energy</i> , 2018 , 153, 369-386	7.9	8	
1	206	Novel method for the design of radiant floor cooling systems through homogenizing spatial solar radiation distribution. <i>Solar Energy</i> , 2018 , 170, 885-895	6.8	11	
1	205	Exergy and entransy analyses in air-conditioning system part 2Humid air handling process. <i>Energy and Buildings</i> , 2017 , 139, 10-21	7	12	
1	104	Theoretical and experimental study of departure duration of condensate droplets from radiant cooling ceiling surfaces. <i>Building and Environment</i> , 2017 , 114, 445-454	6.5	12	
1	103	IEA EBC Annex 59: High temperature cooling and low temperature heating in buildings. <i>Energy and Buildings</i> , 2017 , 145, 267-275	7	8	
1	10 2	Performance investigation of terminal handling process in air-conditioning system from the perspective of entransy dissipation. <i>Energy and Buildings</i> , 2017 , 137, 27-37	7	2	
1	01	Experimental study of the self-regulating performance of an R744 two-phase thermosyphon loop. <i>Applied Energy</i> , 2017 , 186, 1-12	10.7	33	
1	200	Using air source heat pump air heater(ASHP-AH) for rural space heating and power peak load shifting. <i>Energy Procedia</i> , 2017 , 122, 631-636	2.3	10	
9	9	Simulation research on a variable-lift absorption cycle and its application in waste heat recovery of combined heat and power system. <i>Energy</i> , 2017 , 140, 912-921	7.9	15	
9)8	Three typical operating states of an R744 two-phase thermosyphon loop. <i>Applied Energy</i> , 2017 , 206, 187	1 1197	17	
9	97	Mapping potentials of low-grade industrial waste heat in Northern China. <i>Resources, Conservation and Recycling</i> , 2017 , 125, 335-348	11.9	31	

96	Study on the pulsed flow control on radiant cooling and heating systems in part load. <i>Procedia Engineering</i> , 2017 , 205, 11-18		2
95	Absorption heat exchangers for long-distance heat transportation. <i>Energy</i> , 2017 , 141, 2242-2250	7.9	29
94	Performance investigation and exergy analysis of enthalpy recovery device using liquid desiccant. <i>Applied Thermal Engineering</i> , 2016 , 106, 76-86	5.8	8
93	Case study on industrial surplus heat of steel plants for district heating in Northern China. <i>Energy</i> , 2016 , 102, 397-405	7.9	49
92	Satisfaction based Q-learning for integrated lighting and blind control. <i>Energy and Buildings</i> , 2016 , 127, 43-55	7	66
91	Experimental study on the effect of fill ratio on an R744 two-phase thermosyphon loop. <i>Applied Thermal Engineering</i> , 2016 , 99, 302-312	5.8	45
90	Method for integrating low-grade industrial waste heat into district heating network. <i>Building Simulation</i> , 2016 , 9, 153-163	3.9	13
89	Application of radiant floor cooling in large space buildings IA review. <i>Renewable and Sustainable Energy Reviews</i> , 2016 , 55, 1083-1096	16.2	67
88	Recognition of air-conditioner operation from indoor air temperature and relative humidity by a data mining approach. <i>Energy and Buildings</i> , 2016 , 111, 233-241	7	16
87	A generalized probabilistic formula relating occupant behavior to environmental conditions. <i>Building and Environment</i> , 2016 , 95, 53-62	6.5	50
86	Outdoor thermal environments and activities in open space: An experiment study in humid subtropical climates. <i>Building and Environment</i> , 2016 , 103, 238-249	6.5	81
85	Influence of household air-conditioning use modes on the energy performance of residential district cooling systems. <i>Building Simulation</i> , 2016 , 9, 429-441	3.9	37
84	Influence of asynchronous demand behavior on overcooling in multiple zone AC systems. <i>Building and Environment</i> , 2016 , 110, 65-75	6.5	9
83	A multi-section vertical absorption heat exchanger for district heating systems. <i>International Journal of Refrigeration</i> , 2016 , 71, 69-84	3.8	24
82	Exergy and entransy analyses in air-conditioning system part 18 imilarity and distinction. <i>Energy and Buildings</i> , 2016 , 128, 876-885	7	16
81	Key issues and solutions in a district heating system using low-grade industrial waste heat. <i>Energy</i> , 2015 , 86, 589-602	7.9	107
8o	Influence of the number of stages on the heat source temperature of desiccant wheel dehumidification systems using exergy analysis. <i>Energy</i> , 2015 , 85, 379-391	7.9	20
79	Building energy use in China: Ceiling and scenario. <i>Energy and Buildings</i> , 2015 , 102, 307-316	7	33

(2014-2015)

78	Irreversible processes and performance improvement of desiccant wheel dehumidification and cooling systems using exergy. <i>Applied Energy</i> , 2015 , 145, 331-344	10.7	27
77	An on-off regulation method by predicting the valve on-time ratio in district heating system. <i>Building Simulation</i> , 2015 , 8, 665-672	3.9	4
76	Lowering the regeneration temperature of a rotary wheel dehumidification system using exergy analysis. <i>Energy Conversion and Management</i> , 2015 , 89, 162-174	10.6	36
75	Comparison of Two Kinds of Indirect Evaporative Cooling System: To Produce Cold Water and To Produce Cooling Air. <i>Procedia Engineering</i> , 2015 , 121, 881-890		10
74	Application of Lorenz Curve and Gini Index in the Analysis of Load Fea-ture in HVAC Systems. <i>Procedia Engineering</i> , 2015 , 121, 11-18		3
73	Cooling Performance Comparison of Radiant Floor System and All-air System with Solar Radiation. <i>Energy Procedia</i> , 2015 , 78, 2322-2327	2.3	3
72	Entransy analysis and application of a novel indoor cooling system in a large space building. <i>International Journal of Heat and Mass Transfer</i> , 2015 , 85, 228-238	4.9	24
71	Cooling capacity prediction of radiant floors in large spaces of an airport. Solar Energy, 2015, 113, 221-2	235 8	14
70	Exergy analysis of parameter unmatched characteristic in coupled heat and mass transfer between humid air and water. <i>International Journal of Heat and Mass Transfer</i> , 2015 , 84, 327-338	4.9	8
69	A data-driven method to describe the personalized dynamic thermal comfort in ordinary office environment: From model to application. <i>Building and Environment</i> , 2014 , 72, 309-318	6.5	69
68	Development of temperature and humidity independent control (THIC) air-conditioning systems in China review. <i>Renewable and Sustainable Energy Reviews</i> , 2014 , 29, 793-803	16.2	55
67	Dynamic performance of water-based radiant floors during start-up and high-intensity solar radiation. <i>Solar Energy</i> , 2014 , 101, 232-244	6.8	36
66	On-site measured performance of a radiant floor cooling/heating system in XiIIn Xianyang International Airport. <i>Solar Energy</i> , 2014 , 108, 274-286	6.8	66
65	Optimization design of the large temperature lift/drop multi-stage vertical absorption temperature transformer based on entransy dissipation method. <i>Energy</i> , 2014 , 68, 712-721	7.9	30
64	Total heat recovery of gas boiler by absorption heat pump and direct-contact heat exchanger. <i>Applied Thermal Engineering</i> , 2014 , 71, 213-218	5.8	58
63	An operation strategy for using a ground heat exchanger system for industrial waste heat storage and extraction. <i>Building Simulation</i> , 2014 , 7, 197-204	3.9	19
62	Outdoor space quality: A field study in an urban residential community in central China. <i>Energy and Buildings</i> , 2014 , 68, 713-720	7	81
61	Exergy calculation and analysis of a dehumidification system using liquid desiccant. <i>Energy and Buildings</i> , 2014 , 69, 318-328	7	30

60	Performance analysis of a two-stage desiccant cooling system. <i>Applied Energy</i> , 2014 , 113, 1562-1574	10.7	62
59	Match Properties of Heat and Mass Transfer Processes in the Internally-Cooled Liquid Desiccant System. <i>Lecture Notes in Electrical Engineering</i> , 2014 , 609-618	0.2	
58	Application of Liquid Desiccant System 2014 , 249-281		
57	Application of radiant floor cooling in a large open space building with high-intensity solar radiation. <i>Energy and Buildings</i> , 2013 , 66, 246-257	7	54
56	Industrial waste heat utilization for low temperature district heating. Energy Policy, 2013, 62, 236-246	7.2	140
55	Experimental and numerical analysis of a cross-flow closed wet cooling tower. <i>Applied Thermal Engineering</i> , 2013 , 61, 678-689	5.8	24
54	Performance analysis of the air-conditioning system in Xian Xianyang International Airport. <i>Energy and Buildings</i> , 2013 , 59, 11-20	7	36
53	Application of entransy in the analysis of HVAC systems in buildings. <i>Energy</i> , 2013 , 53, 332-342	7.9	35
52	Performance comparison of liquid desiccant air handling processes from the perspective of match properties. <i>Energy Conversion and Management</i> , 2013 , 75, 51-60	10.6	26
51	Performance comparison between enthalpy recovery wheels and dehumidification wheels. <i>International Journal of Refrigeration</i> , 2013 , 36, 2308-2322	3.8	35
50	Experimental analysis of an internally-cooled liquid desiccant dehumidifier. <i>Building and Environment</i> , 2013 , 63, 1-10	6.5	65
49	Performance analysis of a new kind of heat pump-driven outdoor air processor using solid desiccant. <i>Renewable Energy</i> , 2013 , 57, 101-110	8.1	13
48	Experimental evaluation of a suspended metal ceiling radiant panel with inclined fins. <i>Energy and Buildings</i> , 2013 , 62, 522-529	7	47
47	Temperature and Humidity Independent Control (THIC) of Air-conditioning System 2013,		15
46	Key Components of the THIC System: High-Temperature Cooling Sources 2013 , 187-215		
45	Key Components of the THIC System: Indoor Terminals 2013 , 67-117		
44	Design and Operation of THIC Systems 2013 , 217-254		
43	Key Components of the THIC System: Outdoor Air Processor Using Liquid Desiccant 2013 , 155-185		

42 Application Cases of THIC Systems **2013**, 255-309

41	A new concept for analyzing the energy efficiency of air-conditioning systems. <i>Energy and Buildings</i> , 2012 , 44, 45-53	7	4
40	Match properties of heat transfer and coupled heat and mass transfer processes in air-conditioning system. <i>Energy Conversion and Management</i> , 2012 , 59, 103-113	10.6	39
39	Ideal efficiency analysis and comparison of condensing and liquid desiccant dehumidification. <i>Energy and Buildings</i> , 2012 , 49, 575-583	7	19
38	The reality and statistical distribution of energy consumption in office buildings in China. <i>Energy and Buildings</i> , 2012 , 50, 259-265	7	50
37	Performance optimization of heat pump driven liquid desiccant dehumidification systems. <i>Energy and Buildings</i> , 2012 , 52, 132-144	7	53
36	Simplified calculation for cooling/heating capacity, surface temperature distribution of radiant floor. <i>Energy and Buildings</i> , 2012 , 55, 397-404	7	65
35	Quantitative description and simulation of human behavior in residential buildings. <i>Building Simulation</i> , 2012 , 5, 85-94	3.9	68
34	Research on a dynamic simulation method of atrium thermal environment based on neural network. <i>Building and Environment</i> , 2012 , 50, 214-220	6.5	22
33	A new Wireless on-off controlltechnique for adjusting and metering household heat in district heating system. <i>Applied Thermal Engineering</i> , 2012 , 36, 202-209	5.8	31
32	Preface to Special Topic: Low-Carbon Society for a Green Economy. <i>Journal of Renewable and Sustainable Energy</i> , 2012 , 4, 041301	2.5	3
31	A novel approach for building occupancy simulation. <i>Building Simulation</i> , 2011 , 4, 149-167	3.9	156
30	Energy performance analysis on telecommunication base station. <i>Energy and Buildings</i> , 2011 , 43, 315-3	2 <i>5</i> ⁄	34
29	Performance of temperature and humidity independent control air-conditioning system in an office building. <i>Energy and Buildings</i> , 2011 , 43, 1895-1903	7	107
28	Performance study of an innovative natural gas CHP system. <i>Energy Conversion and Management</i> , 2011 , 52, 321-328	10.6	28
27	A new type of district heating method with co-generation based on absorption heat exchange (co-ah cycle). <i>Energy Conversion and Management</i> , 2011 , 52, 1200-1207	10.6	87
26	Major issues and solutions in the heat-metering reform in China. <i>Renewable and Sustainable Energy Reviews</i> , 2011 , 15, 673-680	16.2	55
25	Case study of data-oriented approach for building energy performance investigation. <i>Frontiers of Energy and Power Engineering in China</i> , 2010 , 4, 22-34		3

24	Research progress in liquid desiccant air-conditioning devices and systems. <i>Frontiers of Energy and Power Engineering in China</i> , 2010 , 4, 55-65		9
23	Energy and environment in Chinese rural housing: Current status and future perspective. <i>Frontiers of Energy and Power Engineering in China</i> , 2010 , 4, 35-46		22
22	A district heating system based on absorption heat exchange with CHP systems. <i>Frontiers of Energy and Power Engineering in China</i> , 2010 , 4, 77-83		12
21	Comparative analysis of energy use in China building sector: current status, existing problems and solutions. <i>Frontiers of Energy and Power Engineering in China</i> , 2010 , 4, 2-21		16
20	Theoretical and testing performance of an innovative indirect evaporative chiller. <i>Solar Energy</i> , 2010 , 84, 2041-2055	6.8	37
19	In situ performance of independent humidity control air-conditioning system driven by heat pumps. <i>Energy and Buildings</i> , 2010 , 42, 1747-1752	7	27
18	Analysis on the ideal energy efficiency of dehumidification process from buildings. <i>Energy and Buildings</i> , 2010 , 42, 2014-2020	7	22
17	Similarity of coupled heat and mass transfer between air water and air Ilquid desiccant direct-contact systems. <i>Building and Environment</i> , 2009 , 44, 2501-2509	6.5	39
16	A novel on-off TRV adjustment model and simulation of its thermal dynamic performance. <i>Building Simulation</i> , 2009 , 2, 109-118	3.9	7
15	Investigating a safe ventilation rate for the prevention of indoor SARS transmission: An attempt based on a simulation approach. <i>Building Simulation</i> , 2009 , 2, 281-289	3.9	45
14	An information sharing building automation system. <i>Intelligent Buildings International</i> , 2009 , 1, 195-208	1.7	7
13	The Steady and Dynamic Performance of an Innovative Natural Gas CHP System 2008,		1
12	Analytical solution of combined heat and mass transfer performance in a cross-flow packed bed liquid desiccant air dehumidifier. <i>International Journal of Heat and Mass Transfer</i> , 2008 , 51, 4563-4572	4.9	42
11	DeST [An integrated building simulation toolkit Part I: Fundamentals. Building Simulation, 2008, 1, 95-11	1 6 .9	183
10	DeSTAn integrated building simulation toolkit Part II: Applications. <i>Building Simulation</i> , 2008 , 1, 193-209	93.9	77
9	A new approach to compute heat transfer of ground-coupled envelope in building thermal simulation software. <i>Energy and Buildings</i> , 2008 , 40, 476-485	7	13
8	Analytical solutions of coupled heat and mass transfer processes in liquid desiccant air dehumidifier/regenerator. <i>Energy Conversion and Management</i> , 2007 , 48, 2221-2232	10.6	89
7	Experimental research on a kind of novel high temperature phase change storage heater. <i>Energy Conversion and Management</i> , 2006 , 47, 2211-2222	10.6	86

LIST OF PUBLICATIONS

6	Annual performance of liquid desiccant based independent humidity control HVAC system. <i>Applied Thermal Engineering</i> , 2006 , 26, 1198-1207	5.8	84
5	New type of fresh air processor with liquid desiccant total heat recovery. <i>Energy and Buildings</i> , 2005 , 37, 587-593	7	55
4	Experimental Research on High-temperature Phase Change Thermal Energy Storage Heater 2004 ,		1
3	Energy Conservation Using Variable-speed Chilled Water Pumps for Single-loop Chilled Water Systems with Fan-coil Units. <i>Energy Engineering: Journal of the Association of Energy Engineers</i> , 2003 , 100, 22-36	0.6	10
2	A new multizone model for the simulation of building thermal performance. <i>Building and Environment</i> , 1997 , 32, 123-128	6.5	48
1	IISABRE: An integrated building simulation environment. <i>Building and Environment</i> , 1997 , 32, 219-224	6.5	23