

# Yi Jiang

## List of Publications by Citations

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131  
papers

3,991  
citations

37  
h-index

57  
g-index

135  
ext. papers

4,661  
ext. citations

6.7  
avg, IF

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L-index

#	Paper	IF	Citations
131	DeST I An integrated building simulation toolkit Part I: Fundamentals. <i>Building Simulation</i> , <b>2008</b> , 1, 95-110	3.9	183
130	A novel approach for building occupancy simulation. <i>Building Simulation</i> , <b>2011</b> , 4, 149-167	3.9	156
129	Industrial waste heat utilization for low temperature district heating. <i>Energy Policy</i> , <b>2013</b> , 62, 236-246	7.2	140
128	Key issues and solutions in a district heating system using low-grade industrial waste heat. <i>Energy</i> , <b>2015</b> , 86, 589-602	7.9	107
127	Performance of temperature and humidity independent control air-conditioning system in an office building. <i>Energy and Buildings</i> , <b>2011</b> , 43, 1895-1903	7	107
126	Analytical solutions of coupled heat and mass transfer processes in liquid desiccant air dehumidifier/regenerator. <i>Energy Conversion and Management</i> , <b>2007</b> , 48, 2221-2232	10.6	89
125	A new type of district heating method with co-generation based on absorption heat exchange (co-ah cycle). <i>Energy Conversion and Management</i> , <b>2011</b> , 52, 1200-1207	10.6	87
124	Experimental research on a kind of novel high temperature phase change storage heater. <i>Energy Conversion and Management</i> , <b>2006</b> , 47, 2211-2222	10.6	86
123	Annual performance of liquid desiccant based independent humidity control HVAC system. <i>Applied Thermal Engineering</i> , <b>2006</b> , 26, 1198-1207	5.8	84
122	Outdoor space quality: A field study in an urban residential community in central China. <i>Energy and Buildings</i> , <b>2014</b> , 68, 713-720	7	81
121	Outdoor thermal environments and activities in open space: An experiment study in humid subtropical climates. <i>Building and Environment</i> , <b>2016</b> , 103, 238-249	6.5	81
120	DeST II An integrated building simulation toolkit Part II: Applications. <i>Building Simulation</i> , <b>2008</b> , 1, 193-209	3.9	77
119	A data-driven method to describe the personalized dynamic thermal comfort in ordinary office environment: From model to application. <i>Building and Environment</i> , <b>2014</b> , 72, 309-318	6.5	69
118	Quantitative description and simulation of human behavior in residential buildings. <i>Building Simulation</i> , <b>2012</b> , 5, 85-94	3.9	68
117	Application of radiant floor cooling in large space buildings I A review. <i>Renewable and Sustainable Energy Reviews</i> , <b>2016</b> , 55, 1083-1096	16.2	67
116	Satisfaction based Q-learning for integrated lighting and blind control. <i>Energy and Buildings</i> , <b>2016</b> , 127, 43-55	7	66
115	On-site measured performance of a radiant floor cooling/heating system in Xi'an Xianyang International Airport. <i>Solar Energy</i> , <b>2014</b> , 108, 274-286	6.8	66

114	Experimental analysis of an internally-cooled liquid desiccant dehumidifier. <i>Building and Environment</i> , <b>2013</b> , 63, 1-10	6.5	65
113	Simplified calculation for cooling/heating capacity, surface temperature distribution of radiant floor. <i>Energy and Buildings</i> , <b>2012</b> , 55, 397-404	7	65
112	Performance analysis of a two-stage desiccant cooling system. <i>Applied Energy</i> , <b>2014</b> , 113, 1562-1574	10.7	62
111	Total heat recovery of gas boiler by absorption heat pump and direct-contact heat exchanger. <i>Applied Thermal Engineering</i> , <b>2014</b> , 71, 213-218	5.8	58
110	Development of temperature and humidity independent control (THIC) air-conditioning systems in China: A review. <i>Renewable and Sustainable Energy Reviews</i> , <b>2014</b> , 29, 793-803	16.2	55
109	Major issues and solutions in the heat-metering reform in China. <i>Renewable and Sustainable Energy Reviews</i> , <b>2011</b> , 15, 673-680	16.2	55
108	New type of fresh air processor with liquid desiccant total heat recovery. <i>Energy and Buildings</i> , <b>2005</b> , 37, 587-593	7	55
107	Application of radiant floor cooling in a large open space building with high-intensity solar radiation. <i>Energy and Buildings</i> , <b>2013</b> , 66, 246-257	7	54
106	Performance optimization of heat pump driven liquid desiccant dehumidification systems. <i>Energy and Buildings</i> , <b>2012</b> , 52, 132-144	7	53
105	Multi-step ahead forecasting of heat load in district heating systems using machine learning algorithms. <i>Energy</i> , <b>2019</b> , 188, 116085	7.9	51
104	A generalized probabilistic formula relating occupant behavior to environmental conditions. <i>Building and Environment</i> , <b>2016</b> , 95, 53-62	6.5	50
103	The reality and statistical distribution of energy consumption in office buildings in China. <i>Energy and Buildings</i> , <b>2012</b> , 50, 259-265	7	50
102	Case study on industrial surplus heat of steel plants for district heating in Northern China. <i>Energy</i> , <b>2016</b> , 102, 397-405	7.9	49
101	A new multizone model for the simulation of building thermal performance. <i>Building and Environment</i> , <b>1997</b> , 32, 123-128	6.5	48
100	Experimental evaluation of a suspended metal ceiling radiant panel with inclined fins. <i>Energy and Buildings</i> , <b>2013</b> , 62, 522-529	7	47
99	Experimental study on the effect of fill ratio on an R744 two-phase thermosyphon loop. <i>Applied Thermal Engineering</i> , <b>2016</b> , 99, 302-312	5.8	45
98	Investigating a safe ventilation rate for the prevention of indoor SARS transmission: An attempt based on a simulation approach. <i>Building Simulation</i> , <b>2009</b> , 2, 281-289	3.9	45
97	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> , <b>2008</b> , 51, 4563-4572	4.9	42

96	Match properties of heat transfer and coupled heat and mass transfer processes in air-conditioning system. <i>Energy Conversion and Management</i> , <b>2012</b> , 59, 103-113	10.6	39
95	Similarity of coupled heat and mass transfer between air-water and air-liquid desiccant direct-contact systems. <i>Building and Environment</i> , <b>2009</b> , 44, 2501-2509	6.5	39
94	Theoretical and testing performance of an innovative indirect evaporative chiller. <i>Solar Energy</i> , <b>2010</b> , 84, 2041-2055	6.8	37
93	Influence of household air-conditioning use modes on the energy performance of residential district cooling systems. <i>Building Simulation</i> , <b>2016</b> , 9, 429-441	3.9	37
92	Lowering the regeneration temperature of a rotary wheel dehumidification system using exergy analysis. <i>Energy Conversion and Management</i> , <b>2015</b> , 89, 162-174	10.6	36
91	Dynamic performance of water-based radiant floors during start-up and high-intensity solar radiation. <i>Solar Energy</i> , <b>2014</b> , 101, 232-244	6.8	36
90	Performance analysis of the air-conditioning system in Xi'an Xianyang International Airport. <i>Energy and Buildings</i> , <b>2013</b> , 59, 11-20	7	36
89	Application of entransy in the analysis of HVAC systems in buildings. <i>Energy</i> , <b>2013</b> , 53, 332-342	7.9	35
88	Performance comparison between enthalpy recovery wheels and dehumidification wheels. <i>International Journal of Refrigeration</i> , <b>2013</b> , 36, 2308-2322	3.8	35
87	Energy performance analysis on telecommunication base station. <i>Energy and Buildings</i> , <b>2011</b> , 43, 315-325	7	34
86	Experimental study of the self-regulating performance of an R744 two-phase thermosyphon loop. <i>Applied Energy</i> , <b>2017</b> , 186, 1-12	10.7	33
85	Building energy use in China: Ceiling and scenario. <i>Energy and Buildings</i> , <b>2015</b> , 102, 307-316	7	33
84	Mapping potentials of low-grade industrial waste heat in Northern China. <i>Resources, Conservation and Recycling</i> , <b>2017</b> , 125, 335-348	11.9	31
83	A new wireless on-off control technique for adjusting and metering household heat in district heating system. <i>Applied Thermal Engineering</i> , <b>2012</b> , 36, 202-209	5.8	31
82	Optimization design of the large temperature lift/drop multi-stage vertical absorption temperature transformer based on entransy dissipation method. <i>Energy</i> , <b>2014</b> , 68, 712-721	7.9	30
81	Exergy calculation and analysis of a dehumidification system using liquid desiccant. <i>Energy and Buildings</i> , <b>2014</b> , 69, 318-328	7	30
80	Absorption heat exchangers for long-distance heat transportation. <i>Energy</i> , <b>2017</b> , 141, 2242-2250	7.9	29
79	Performance study of an innovative natural gas CHP system. <i>Energy Conversion and Management</i> , <b>2011</b> , 52, 321-328	10.6	28

78	Irreversible processes and performance improvement of desiccant wheel dehumidification and cooling systems using exergy. <i>Applied Energy</i> , <b>2015</b> , 145, 331-344	10.7	27
77	In situ performance of independent humidity control air-conditioning system driven by heat pumps. <i>Energy and Buildings</i> , <b>2010</b> , 42, 1747-1752	7	27
76	Performance comparison of liquid desiccant air handling processes from the perspective of match properties. <i>Energy Conversion and Management</i> , <b>2013</b> , 75, 51-60	10.6	26
75	Cleaner heating in Northern China: potentials and regional balances. <i>Resources, Conservation and Recycling</i> , <b>2020</b> , 160, 104897	11.9	26
74	Experimental and numerical analysis of a cross-flow closed wet cooling tower. <i>Applied Thermal Engineering</i> , <b>2013</b> , 61, 678-689	5.8	24
73	Entransy analysis and application of a novel indoor cooling system in a large space building. <i>International Journal of Heat and Mass Transfer</i> , <b>2015</b> , 85, 228-238	4.9	24
72	A multi-section vertical absorption heat exchanger for district heating systems. <i>International Journal of Refrigeration</i> , <b>2016</b> , 71, 69-84	3.8	24
71	IISABRE: An integrated building simulation environment. <i>Building and Environment</i> , <b>1997</b> , 32, 219-224	6.5	23
70	Research on a dynamic simulation method of atrium thermal environment based on neural network. <i>Building and Environment</i> , <b>2012</b> , 50, 214-220	6.5	22
69	Energy and environment in Chinese rural housing: Current status and future perspective. <i>Frontiers of Energy and Power Engineering in China</i> , <b>2010</b> , 4, 35-46		22
68	Analysis on the ideal energy efficiency of dehumidification process from buildings. <i>Energy and Buildings</i> , <b>2010</b> , 42, 2014-2020	7	22
67	Influence of the number of stages on the heat source temperature of desiccant wheel dehumidification systems using exergy analysis. <i>Energy</i> , <b>2015</b> , 85, 379-391	7.9	20
66	An operation strategy for using a ground heat exchanger system for industrial waste heat storage and extraction. <i>Building Simulation</i> , <b>2014</b> , 7, 197-204	3.9	19
65	Ideal efficiency analysis and comparison of condensing and liquid desiccant dehumidification. <i>Energy and Buildings</i> , <b>2012</b> , 49, 575-583	7	19
64	Machine learning-based leakage fault detection for district heating networks. <i>Energy and Buildings</i> , <b>2020</b> , 223, 110161	7	18
63	Roadmap towards clean heating in 2035: Case study of inner Mongolia, China. <i>Energy</i> , <b>2019</b> , 189, 116152	7.9	18
62	Three typical operating states of an R744 two-phase thermosyphon loop. <i>Applied Energy</i> , <b>2017</b> , 206, 181107	10.7	17
61	Recognition of air-conditioner operation from indoor air temperature and relative humidity by a data mining approach. <i>Energy and Buildings</i> , <b>2016</b> , 111, 233-241	7	16

60	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> , <b>2010</b> , 4, 2-21		16
59	Exergy and entransy analyses in air-conditioning system part 1 Similarity and distinction. <i>Energy and Buildings</i> , <b>2016</b> , 128, 876-885	7	16
58	Novel flue gas waste heat recovery system equipped with enthalpy wheel. <i>Energy Conversion and Management</i> , <b>2019</b> , 196, 649-663	10.6	15
57	Systematic optimization for the utilization of low-temperature industrial excess heat for district heating. <i>Energy</i> , <b>2018</b> , 144, 984-991	7.9	15
56	Simulation research on a variable-lift absorption cycle and its application in waste heat recovery of combined heat and power system. <i>Energy</i> , <b>2017</b> , 140, 912-921	7.9	15
55	Temperature and Humidity Independent Control (THIC) of Air-conditioning System <b>2013</b> ,		15
54	Cooling capacity prediction of radiant floors in large spaces of an airport. <i>Solar Energy</i> , <b>2015</b> , 113, 221-235	3.8	14
53	Method for integrating low-grade industrial waste heat into district heating network. <i>Building Simulation</i> , <b>2016</b> , 9, 153-163	3.9	13
52	Performance analysis of a new kind of heat pump-driven outdoor air processor using solid desiccant. <i>Renewable Energy</i> , <b>2013</b> , 57, 101-110	8.1	13
51	A new approach to compute heat transfer of ground-coupled envelope in building thermal simulation software. <i>Energy and Buildings</i> , <b>2008</b> , 40, 476-485	7	13
50	Exergy and entransy analyses in air-conditioning system part 2 Humid air handling process. <i>Energy and Buildings</i> , <b>2017</b> , 139, 10-21	7	12
49	Theoretical and experimental study of departure duration of condensate droplets from radiant cooling ceiling surfaces. <i>Building and Environment</i> , <b>2017</b> , 114, 445-454	6.5	12
48	A district heating system based on absorption heat exchange with CHP systems. <i>Frontiers of Energy and Power Engineering in China</i> , <b>2010</b> , 4, 77-83		12
47	Effects of space heating on the pollutant emission intensities in 26 cities. <i>Building and Environment</i> , <b>2020</b> , 175, 106817	6.5	11
46	Energy saving potential for space heating in Chinese airport terminals: The impact of air infiltration. <i>Energy</i> , <b>2021</b> , 215, 119175	7.9	11
45	Novel method for the design of radiant floor cooling systems through homogenizing spatial solar radiation distribution. <i>Solar Energy</i> , <b>2018</b> , 170, 885-895	6.8	11
44	Using air source heat pump air heater(ASHP-AH) for rural space heating and power peak load shifting. <i>Energy Procedia</i> , <b>2017</b> , 122, 631-636	2.3	10
43	Combined heat and water system for long-distance heat transportation. <i>Energy</i> , <b>2019</b> , 172, 401-408	7.9	10

42	Comparison of Two Kinds of Indirect Evaporative Cooling System: To Produce Cold Water and To Produce Cooling Air. <i>Procedia Engineering</i> , <b>2015</b> , 121, 881-890		10
41	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> , <b>2003</b> , 100, 22-36	0.6	10
40	Field tests on the operational energy consumption of Chinese district heating systems and evaluation of typical associated problems. <i>Energy and Buildings</i> , <b>2020</b> , 224, 110269	7	10
39	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> , <b>2019</b> , 146, 482-494	5.8	10
38	A two-stage vertical absorption heat exchanger for district heating system. <i>International Journal of Refrigeration</i> , <b>2020</b> , 114, 19-31	3.8	9
37	Research progress in liquid desiccant air-conditioning devices and systems. <i>Frontiers of Energy and Power Engineering in China</i> , <b>2010</b> , 4, 55-65		9
36	Influence of asynchronous demand behavior on overcooling in multiple zone AC systems. <i>Building and Environment</i> , <b>2016</b> , 110, 65-75	6.5	9
35	IEA EBC Annex 59: High temperature cooling and low temperature heating in buildings. <i>Energy and Buildings</i> , <b>2017</b> , 145, 267-275	7	8
34	Performance investigation and exergy analysis of enthalpy recovery device using liquid desiccant. <i>Applied Thermal Engineering</i> , <b>2016</b> , 106, 76-86	5.8	8
33	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> , <b>2015</b> , 84, 327-338	4.9	8
32	Modular simulation of cogeneration system based on absorption heat exchange (Co-ah). <i>Energy</i> , <b>2018</b> , 153, 369-386	7.9	8
31	Low carbon district heating in China in 2025- a district heating mode with low grade waste heat as heat source. <i>Energy</i> , <b>2021</b> , 230, 120765	7.9	8
30	A novel on-off TRV adjustment model and simulation of its thermal dynamic performance. <i>Building Simulation</i> , <b>2009</b> , 2, 109-118	3.9	7
29	An information sharing building automation system. <i>Intelligent Buildings International</i> , <b>2009</b> , 1, 195-208	1.7	7
28	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> , <b>2020</b> , 179, 115704	5.8	7
27	Match property analysis of falling film absorption process. <i>International Journal of Refrigeration</i> , <b>2019</b> , 98, 194-201	3.8	7
26	A detachable plate falling film generator and condenser coupling using lithium bromide and water as working fluids. <i>International Journal of Refrigeration</i> , <b>2019</b> , 98, 120-128	3.8	6
25	Characteristics Analysis of the Heat-to-Power Ratio from the Supply and Demand Sides of Cities in Northern China. <i>Energies</i> , <b>2020</b> , 13, 242	3.1	5



24	An on-off regulation method by predicting the valve on-time ratio in district heating system. <i>Building Simulation</i> , <b>2015</b> , 8, 665-672	3.9	4
23	A new concept for analyzing the energy efficiency of air-conditioning systems. <i>Energy and Buildings</i> , <b>2012</b> , 44, 45-53	7	4
22	Design and experimental study of a second type absorption heat exchanger. <i>International Journal of Refrigeration</i> , <b>2020</b> , 118, 50-60	3.8	3
21	Vertical U-pipe flow characteristics in absorption heat pump: Experimental study under vacuum conditions. <i>Applied Thermal Engineering</i> , <b>2020</b> , 172, 115164	5.8	3
20	Application of Lorenz Curve and Gini Index in the Analysis of Load Feature in HVAC Systems. <i>Procedia Engineering</i> , <b>2015</b> , 121, 11-18		3
19	Cooling Performance Comparison of Radiant Floor System and All-air System with Solar Radiation. <i>Energy Procedia</i> , <b>2015</b> , 78, 2322-2327	2.3	3
18	Case study of data-oriented approach for building energy performance investigation. <i>Frontiers of Energy and Power Engineering in China</i> , <b>2010</b> , 4, 22-34		3
17	Preface to Special Topic: Low-Carbon Society for a Green Economy. <i>Journal of Renewable and Sustainable Energy</i> , <b>2012</b> , 4, 041301	2.5	3
16	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> , <b>2020</b> , 178, 115616	5.8	3
15	Performance investigation of terminal handling process in air-conditioning system from the perspective of entransy dissipation. <i>Energy and Buildings</i> , <b>2017</b> , 137, 27-37	7	2
14	Study on the pulsed flow control on radiant cooling and heating systems in part load. <i>Procedia Engineering</i> , <b>2017</b> , 205, 11-18		2
13	Novel beverage heating and fast-cooling processes separately using an absorption chiller and using electric heat pumps. <i>International Journal of Refrigeration</i> , <b>2018</b> , 94, 87-101	3.8	1
12	The Steady and Dynamic Performance of an Innovative Natural Gas CHP System <b>2008</b> ,		1
11	Experimental Research on High-temperature Phase Change Thermal Energy Storage Heater <b>2004</b> ,		1
10	Dynamic response of gravity-driven flow in multi-section absorption heat pump. <i>Applied Thermal Engineering</i> , <b>2021</b> , 200, 117622	5.8	1
9	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> , <b>2021</b> , 130, 199-207	3.8	1
8	Process design and analysis of a flexibly adjusted zonal absorption heat exchanger for high-rise building heating systems. <i>Applied Thermal Engineering</i> , <b>2021</b> , 195, 117173	5.8	0
7	Key Components of the THIC System: High-Temperature Cooling Sources <b>2013</b> , 187-215		



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- 3 Application Cases of THIC Systems **2013**, 255-309
- 2 Match Properties of Heat and Mass Transfer Processes in the Internally-Cooled Liquid Desiccant System. *Lecture Notes in Electrical Engineering*, **2014**, 609-618 0.2
- 1 Application of Liquid Desiccant System **2014**, 249-281