

Song Mengjie

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.

204
papers

5,579
citations

39
h-index

68
g-index

214
ext. papers

7,070
ext. citations

5.8
avg, IF

6.65
L-index

#	Paper	IF	Citations
204	Optical Performance Comparison of Different Shapes of Cavity Receiver in the Fixed Line-Focus Solar Concentrating System. <i>Sustainability</i> , 2022 , 14, 1545	3.6	
203	Optimization on integrated inverter-compressor CO2 heat pump with new operating model. <i>Applied Thermal Engineering</i> , 2022 , 200, 117632	5.8	0
202	A modeling study of spatial and temporal frost growth on the edge of windward fins for a tube-finned heat exchanger. <i>International Journal of Heat and Mass Transfer</i> , 2022 , 183, 122093	4.9	3
201	Modification of Beta Zeolites and Their Application in Catalytic Oxidation of Propane. <i>ChemistrySelect</i> , 2022 , 7,	1.8	1
200	An experimental study on the effect of horizontal cold plate surface temperature on frosting characteristics under natural convection. <i>Applied Thermal Engineering</i> , 2022 , 118416	5.8	3
199	Experimental study on the effect of surface temperature on the frost characteristics of an inverted cold plate under natural convection. <i>Applied Thermal Engineering</i> , 2022 , 118470	5.8	1
198	Mathematical modeling investigation on flow boiling and high efficiency heat dissipation of two rectangular radial microchannel heat exchangers. <i>International Journal of Heat and Mass Transfer</i> , 2022 , 190, 122736	4.9	1
197	Experimental study on the effect of surface temperature on the frost characteristics of a vertical cold plate under natural convection. <i>Experimental Thermal and Fluid Science</i> , 2022 , 110684	3	1
196	Parameter identification of a delayed infinite-dimensional heat-exchanger process based on relay feedback and root loci analysis. <i>Scientific Reports</i> , 2022 , 12,	4.9	1
195	Modeling study on sessile water droplet during freezing with the consideration of gravity, supercooling, and volume expansion effects. <i>International Journal of Multiphase Flow</i> , 2021 , 103909	3.6	5
194	Dynamic Model Development for Vehicle Air Conditioners Based on Physics-guided Deep Learning. <i>International Journal of Refrigeration</i> , 2021 ,	3.8	1
193	Temporal and spatial frost growth prediction of a tube-finned heat exchanger considering frost distribution characteristics. <i>International Journal of Heat and Mass Transfer</i> , 2021 , 122192	4.9	3
192	A modeling study of different kinds of sessile droplets on the horizontal surface with surface wettability and gravity effects considered 2021 , 1, 22-22		0
191	Robust and universal predictive models for frictional pressure drop during two-phase flow in smooth helically coiled tube heat exchangers. <i>Scientific Reports</i> , 2021 , 11, 20068	4.9	1
190	Machine learning based models to predict frost characteristics on cryogenic surfaces under forced convection conditions. <i>International Communications in Heat and Mass Transfer</i> , 2021 , 129, 105667	5.8	4
189	Robust and general predictive models for condensation heat transfer inside conventional and mini/micro channel heat exchangers. <i>Applied Thermal Engineering</i> , 2021 , 201, 117737	5.8	4
188	Meet Our Editor-in-Chief. <i>Recent Patents on Mechanical Engineering</i> , 2021 , 14, 3-3	0.3	

187	Seasonal energy performance evaluation with new perspective on partial-coupling ejection-compression solar cooling system for modern city buildings. <i>Energy Conversion and Management</i> , 2021 , 233, 113875	10.6	0
186	Effects of Receiver Parameters on Solar Flux Distribution for Triangle Cavity Receiver in the Fixed Linear-Focus Fresnel Lens Solar Concentrator. <i>Sustainability</i> , 2021 , 13, 6139	3.6	2
185	A numerical study on frosting and its early stage under forced convection conditions with surface and environmental factors considered. <i>Sustainable Energy Technologies and Assessments</i> , 2021 , 45, 101202	4.7	1
184	2021 ,		2
183	Experimental Investigation and Control of a Hot-Air Tunnel with Improved Performance and Energy Saving. <i>ACS Omega</i> , 2021 , 6, 16194-16215	3.9	1
182	Proposal and experimental case study on building ventilating fan fault diagnosis based on cuckoo search algorithm optimized extreme learning machine. <i>Sustainable Energy Technologies and Assessments</i> , 2021 , 45, 100975	4.7	8
181	A data analytics-based tool for the detection and diagnosis of anomalous daily energy patterns in buildings. <i>Building Simulation</i> , 2021 , 14, 131-147	3.9	13
180	Smart Detection of Fire Source in Tunnel Based on the Numerical Database and Artificial Intelligence. <i>Fire Technology</i> , 2021 , 57, 657-682	3	20
179	Performance evaluation and multi-objective optimization of a low-temperature CO2 heat pump water heater based on artificial neural network and new economic analysis. <i>Energy</i> , 2021 , 216, 119232	7.9	16
178	Advanced data analytics for enhancing building performances: From data-driven to big data-driven approaches. <i>Building Simulation</i> , 2021 , 14, 3-24	3.9	53
177	Development of an ANN-based building energy model for information-poor buildings using transfer learning. <i>Building Simulation</i> , 2021 , 14, 89-101	3.9	24
176	The phytochemistry, pharmacology and traditional medicinal use of - a systematic review.. <i>RSC Advances</i> , 2021 , 11, 19221-19237	3.7	2
175	Numerical simulation on heating performances of a radiant-convective heating terminal. <i>Journal of Building Engineering</i> , 2021 , 39, 102307	5.2	1
174	A Joint User Scheduling and Trajectory Planning Data Collection Strategy for the UAV-Assisted WSN. <i>IEEE Communications Letters</i> , 2021 , 25, 2333-2337	3.8	4
173	Saturated flow boiling inside conventional and mini/micro channels: A new general model for frictional pressure drop using genetic programming. <i>International Journal of Refrigeration</i> , 2021 , 132, 197-197	3.8	1
172	A modeling study of sessile water droplet on the cold plate surface during freezing under natural convection with gravity effect considered. <i>International Journal of Multiphase Flow</i> , 2021 , 143, 103749	3.6	1
171	Effects of receiver parameters on the optical efficiency of a fixed linear-focus Fresnel lens solar system with sliding adjustment. <i>Energy Reports</i> , 2021 , 7, 3348-3361	4.6	4
170	A critical review on measures to suppress flow boiling instabilities in microchannels. <i>Heat and Mass Transfer</i> , 2021 , 57, 889-910	2.2	7

169	An advanced thermal control technique for aircraft anti-icing/de-icing based on loop heat pipes <i>2020</i> , 337-366		
168	Instability control of two-phase flow in microchannel heat exchangers <i>2020</i> , 387-410		1
167	Experimental study on the water film thickness under spray impingement based on planar LIF. <i>International Journal of Multiphase Flow</i> , <i>2020</i> , 130, 103329	3.6	5
166	Thermal performance of a thin flat heat pipe with grooved porous structure. <i>Applied Thermal Engineering</i> , <i>2020</i> , 173, 115215	5.8	13
165	Energy savings with heat transfer enhancement techniques and heat exchangers. <i>Journal of Thermal Analysis and Calorimetry</i> , <i>2020</i> , 141, 1-4	4.1	5
164	Condensate drainage on slit or louvered fins in microchannel heat exchangers for anti-frosting. <i>Energy and Buildings</i> , <i>2020</i> , 223, 110215	7	3
163	Effect of the nozzle arrangement of atomization equipment in icing cloud simulation system on the velocity field of water droplets and liquid water content distribution. <i>Applied Thermal Engineering</i> , <i>2020</i> , 172, 115196	5.8	3
162	Palladium-catalyzed direct asymmetric C-H bond functionalization enabled by the directing group strategy. <i>Chemical Science</i> , <i>2020</i> , 11, 12616-12632	9.4	23
161	General correlation for frost thermal conductivity on parallel surface channels. <i>Energy and Buildings</i> , <i>2020</i> , 225, 110282	7	9
160	Design and optimal siting of regional heat-gas-renewable energy system based on building clusters. <i>Energy Conversion and Management</i> , <i>2020</i> , 217, 112963	10.6	6
159	Coupled thermo-mechanical analysis of stresses generated in impact ice during in-flight de-icing. <i>Applied Thermal Engineering</i> , <i>2020</i> , 181, 115681	5.8	5
158	A modeling study on the reverse cycle defrosting of an air source heat pump with the melted frost downwards flowing away and local drainage. <i>Energy and Buildings</i> , <i>2020</i> , 226, 110257	7	10
157	An experimental energy performance investigation and economic analysis on a cascade heat pump for high-temperature water in cold region. <i>Renewable Energy</i> , <i>2020</i> , 152, 674-683	8.1	18
156	Recent Advances in the Application of Selectfluor as a "Fluorine-free" Functional Reagent in Organic Synthesis. <i>Chemistry - an Asian Journal</i> , <i>2020</i> , 15, 729-741	4.5	17
155	Statistical investigations of transfer learning-based methodology for short-term building energy predictions. <i>Applied Energy</i> , <i>2020</i> , 262, 114499	10.7	65
154	Experimental study on the melted frost influence on the metal energy storage during an air source heat pump defrosting. <i>Energy and Buildings</i> , <i>2020</i> , 214, 109809	7	15
153	A numerical study on non-uniform characteristics of spray falling heat transfer over horizontal tubes in an oily sewage source heat pump. <i>International Journal of Heat and Mass Transfer</i> , <i>2020</i> , 154, 119679	4.9	5
152	Privacy-Preserving Approach PBCN in Social Network With Differential Privacy. <i>IEEE Transactions on Network and Service Management</i> , <i>2020</i> , 17, 931-945	4.8	18

151	Review of experimental data associated with the solidification characteristics of water droplets on a cold plate surface at the early frosting stage. <i>Energy and Buildings</i> , 2020 , 223, 110103	7	27
150	The optimization of simulated icing environment by adjusting the arrangement of nozzles in an atomization equipment for the anti-icing and deicing of aircrafts. <i>International Journal of Heat and Mass Transfer</i> , 2020 , 155, 119720	4.9	11
149	Sustainable and clean oilfield development: Optimal operation of wastewater treatment and recycling system. <i>Journal of Cleaner Production</i> , 2020 , 252, 119819	10.3	4
148	Surface free energy analysis for stable supercooling of sodium thiosulfate pentahydrate with microcosmic-visualized methods. <i>Solar Energy Materials and Solar Cells</i> , 2020 , 208, 110390	6.4	3
147	Experimental investigation on thermal characteristics of transcritical CO ₂ heat pump unit combined with thermal energy storage for residential heating. <i>Applied Thermal Engineering</i> , 2020 , 165, 114505	5.8	17
146	Experimental investigation on the heat transfer characteristics of novel rectangle radial microchannel heat exchangers in two-phase flow cooling system for data centers. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020 , 141, 199-211	4.1	6
145	Heat transfer characteristics of micron ultrathin shear-driven water film flowing on a horizontal metal surface. <i>International Journal of Heat and Mass Transfer</i> , 2020 , 148, 119065	4.9	2
144	Numerical investigation on the performance and anti-freezing design verification of atomization equipment in an icing cloud simulation system. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020 , 141, 131-143	4.1	5
143	Vapor-liquid equilibria of HFC-161 + HFC-32 + DMF ternary mixture for low-grade heat driven absorption refrigeration system. <i>AIChE Journal</i> , 2020 , 66, e16876	3.6	
142	An experimental study on the frosting characteristic and performance of a micro-channel evaporator in an air source heat pump unit. <i>Energy and Buildings</i> , 2020 , 224, 110254	7	8
141	Model predictive control applied toward the building indoor climate 2020 , 457-492		
140	Unsteady heat transfer properties of spray falling over a horizontal tube in an oily sewage source heat pump. <i>Applied Thermal Engineering</i> , 2020 , 179, 115675	5.8	10
139	Identification of simplified energy performance models of variable-speed air conditioners using likelihood ratio test method. <i>Science and Technology for the Built Environment</i> , 2020 , 26, 75-88	1.8	2
138	Numerical study on heat transfer of oily wastewater spray falling film over a horizontal tube in a sewage source heat pump. <i>International Journal of Heat and Mass Transfer</i> , 2019 , 142, 118423	4.9	14
137	Study on performance evaluation of CO ₂ heat pump system integrated with thermal energy storage for space heating. <i>Energy Procedia</i> , 2019 , 158, 1380-1387	2.3	5
136	Discovering Complex Knowledge in Massive Building Operational Data Using Graph Mining for Building Energy Management. <i>Energy Procedia</i> , 2019 , 158, 2481-2487	2.3	4
135	Development of a superheat controller for mitigating hunting in a direct expansion air conditioning system. <i>Energy Procedia</i> , 2019 , 158, 2085-2091	2.3	1
134	Analysis of climate zones effects on energy consumption of a bedroom TAC system. <i>Energy Procedia</i> , 2019 , 158, 2934-2941	2.3	

133	Experimental study on frost unevenly distributed and melted frost downwards flowing during defrosting for ASHPs. <i>Energy Procedia</i> , 2019 , 158, 2826-2833	2.3	1
132	Previous related work: A review 2019 , 11-45		
131	Uneven defrosting on the outdoor coil in an ASHP 2019 , 47-69		
130	Modeling study on uneven defrosting 2019 , 71-113		
129	Investigation of effect on uneven defrosting performance 2019 , 115-151		
128	Frosting evenness coefficient 2019 , 153-192		
127	The influence of refrigerant distribution on defrosting 2019 , 193-221		
126	Energy transfer during defrosting 2019 , 223-256		
125	Defrosting control strategy 2019 , 257-301		
124	Technoeconomic performances 2019 , 303-341		
123	A graph mining-based methodology for discovering and visualizing high-level knowledge for building energy management. <i>Applied Energy</i> , 2019 , 251, 113395	10.7	12
122	An experimental study on the heat transfer performance of a loop heat pipe system with ethanol-water mixture as working fluid for aircraft anti-icing. <i>International Journal of Heat and Mass Transfer</i> , 2019 , 139, 280-292	4.9	37
121	A solar-heat-driven ejector-assisted combined compression cooling system for multistory building □ Application potential and effects of floor numbers. <i>Energy Conversion and Management</i> , 2019 , 195, 86-98	10.6	18
120	Evaluation of transcritical CO ₂ heat pump system integrated with mechanical subcooling by utilizing energy, exergy and economic methodologies for residential heating. <i>Energy Conversion and Management</i> , 2019 , 192, 202-220	10.6	49
119	PMV-based dynamic optimization of energy consumption for a residential task/ambient air conditioning system in different climate zones. <i>Renewable Energy</i> , 2019 , 142, 41-54	8.1	19
118	Experimental and theoretical study on an air-source heat pump water heater for northern China in cold winter: Effects of environment temperature and switch of operating modes. <i>Energy and Buildings</i> , 2019 , 191, 164-173	7	37
117	Challenges in, and the development of, building energy saving techniques, illustrated with the example of an air source heat pump. <i>Thermal Science and Engineering Progress</i> , 2019 , 10, 337-356	3.6	30
116	Environmental and economical analyses of transcritical CO ₂ heat pump combined with direct dedicated mechanical subcooling (DMS) for space heating in China. <i>Energy Conversion and Management</i> , 2019 , 198, 111317	10.6	57

115	Heating and energy storage characteristics of multi-split air source heat pump based on energy storage defrosting. <i>Applied Energy</i> , 2019 , 238, 303-310	10.7	18
114	Defrosting start control strategy optimization for an air source heat pump unit with the frost accumulation and melted frost downwards flowing considered. <i>Sustainable Cities and Society</i> , 2019 , 46, 101461	10.1	23
113	Energetic, economic and environmental analysis of air source transcritical CO ₂ heat pump system for residential heating in China. <i>Applied Thermal Engineering</i> , 2019 , 148, 1425-1439	5.8	47
112	A proactive-adaptive monthly peak demand-limiting strategy for buildings with small-scale thermal storages considering load uncertainty. <i>Science and Technology for the Built Environment</i> , 2019 , 25, 1456-1466	1.8	46
111	Investigation on wavy characteristics of shear-driven water film using the planar laser induced fluorescence method. <i>International Journal of Multiphase Flow</i> , 2019 , 118, 242-253	3.6	16
110	Numerical investigation on impingement dynamics and freezing performance of micrometer-sized water droplet on dry flat surface in supercooled environment. <i>International Journal of Multiphase Flow</i> , 2019 , 118, 150-164	3.6	22
109	Deep learning-based feature engineering methods for improved building energy prediction. <i>Applied Energy</i> , 2019 , 240, 35-45	10.7	100
108	The decarboxylative C ₈ H heteroarylation of azoles catalysed by nickel catalysts to access unsymmetrical biheteroaryls. <i>Organic Chemistry Frontiers</i> , 2019 , 6, 3996-3999	5.2	10
107	A modeling study on the heat storage and release characteristics of a phase change material based double-spiral coiled heat exchanger in an air source heat pump for defrosting. <i>Applied Energy</i> , 2019 , 236, 877-892	10.7	31
106	A novel methodology to explain and evaluate data-driven building energy performance models based on interpretable machine learning. <i>Applied Energy</i> , 2019 , 235, 1551-1560	10.7	50
105	Effects of receiver parameters on the optical performance of a fixed-focus Fresnel lens solar concentrator/cavity receiver system in solar cooker. <i>Applied Energy</i> , 2019 , 237, 70-82	10.7	30
104	Marangoni effect on microbubbles emission boiling generation during pool boiling of self-wetting fluid. <i>International Journal of Heat and Mass Transfer</i> , 2019 , 134, 10-16	4.9	8
103	Techno-economic analysis on frosting/defrosting operations for an air source heat pump unit with an optimized multi-circuit outdoor coil. <i>Energy and Buildings</i> , 2018 , 166, 165-177	7	19
102	Energetic performance of transcritical CO ₂ refrigeration cycles with mechanical subcooling using zeotropic mixture as refrigerant. <i>Energy</i> , 2018 , 150, 205-221	7.9	50
101	Research and Applications of Data Mining Techniques for Improving Building Operational Performance. <i>Current Sustainable/Renewable Energy Reports</i> , 2018 , 5, 181-188	2.8	6
100	An autonomous hierarchical control for improving indoor comfort and energy efficiency of a direct expansion air conditioning system. <i>Applied Energy</i> , 2018 , 221, 450-463	10.7	20
99	Analysis on the effects of China's fiscal and taxation policy on exporting products of photovoltaic and high-end equipment manufacturing industries. <i>Journal of Renewable and Sustainable Energy</i> , 2018 , 10, 015906	2.5	2
98	Review on the measurement and calculation of frost characteristics. <i>International Journal of Heat and Mass Transfer</i> , 2018 , 124, 586-614	4.9	64

97	A simplified numerical study on the energy performance and thermal environment of a bedroom TAC system. <i>Energy and Buildings</i> , 2018 , 166, 305-316	7	11
96	Energy transfer procession in an air source heat pump unit during defrosting with melted frost locally drainage in its multi-circuit outdoor coil. <i>Energy and Buildings</i> , 2018 , 164, 109-120	7	19
95	Refrigerant evaluation and performance comparison for a novel hybrid solar-assisted ejection-compression refrigeration cycle. <i>Solar Energy</i> , 2018 , 160, 344-352	6.8	16
94	Techno-economic analysis on frosting and defrosting operations of an air source heat pump unit applied in a typical cold city. <i>Energy and Buildings</i> , 2018 , 162, 65-76	7	12
93	Analytical investigation of autoencoder-based methods for unsupervised anomaly detection in building energy data. <i>Applied Energy</i> , 2018 , 211, 1123-1135	10.7	107
92	Review on improvement for air source heat pump units during frosting and defrosting. <i>Applied Energy</i> , 2018 , 211, 1150-1170	10.7	148
91	Thermal Stability Experimental Study on Three Types of Organic Binary Phase Change Materials Applied in Thermal Energy Storage System. <i>Journal of Thermal Science and Engineering Applications</i> , 2018 , 10,	1.9	11
90	Mining big building operational data for improving building energy efficiency: A case study. <i>Building Services Engineering Research and Technology</i> , 2018 , 39, 117-128	2.3	20
89	Review on building energy performance improvement using phase change materials. <i>Energy and Buildings</i> , 2018 , 158, 776-793	7	210
88	Lattice Boltzmann Simulation of Falling Film Flow under Low Reynolds Number. <i>Heat Transfer Engineering</i> , 2018 , 39, 1528-1539	1.7	1
87	Simulation and Experimental Study on the Optical Performance of a Fixed-Focus Fresnel Lens Solar Concentrator Using Polar-Axis Tracking. <i>Energies</i> , 2018 , 11, 887	3.1	11
86	Energy performance of a bedroom task/ambient air conditioning (TAC) system applied in different climate zones of China. <i>Energy</i> , 2018 , 159, 724-736	7.9	15
85	Discovering gradual patterns in building operations for improving building energy efficiency. <i>Applied Energy</i> , 2018 , 224, 116-123	10.7	32
84	Marangoni effect on pool boiling heat transfer enhancement of self-rewetting fluid. <i>International Journal of Heat and Mass Transfer</i> , 2018 , 127, 1263-1270	4.9	11
83	Experimental performance analysis and evaluation of a novel frost-free air source heat pump system. <i>Energy and Buildings</i> , 2018 , 175, 69-77	7	26
82	Performance evaluation and energy-saving potential comparison of a heat-powered novel compression-enhanced ejector refrigeration cycle with an economizer. <i>Applied Thermal Engineering</i> , 2018 , 130, 1568-1579	5.8	13
81	Comparative studies on using RSM and TOPSIS methods to optimize residential air conditioning systems. <i>Energy</i> , 2018 , 144, 98-109	7.9	29
80	Experimental investigation on drying performance of an existed enclosed fixed frequency air source heat pump drying system. <i>Applied Thermal Engineering</i> , 2018 , 130, 735-744	5.8	29

79	Unsupervised data analytics in mining big building operational data for energy efficiency enhancement: A review. <i>Energy and Buildings</i> , 2018 , 159, 296-308	7	103
78	Impacts on the solidification of water on plate surface for cold energy storage using ice slurry. <i>Applied Energy</i> , 2018 , 227, 284-293	10.7	22
77	Reduction of energy consumption for a TAC system applied to sleeping environments with varying envelope thermal load. <i>Energy Procedia</i> , 2018 , 152, 360-365	2.3	
76	Experimental study on defrosting start control strategy for ASHPs. <i>Energy Procedia</i> , 2018 , 152, 438-443	2.3	1
75	Experimental investigation and seasonal performance assessment of a frost-free ASHP system with radiant floor heating. <i>Energy and Buildings</i> , 2018 , 179, 200-212	7	23
74	A novel heat exchanger network retrofit approach based on performance reassessment. <i>Energy Conversion and Management</i> , 2018 , 177, 477-492	10.6	14
73	An experimental study on time-based start defrosting control strategy optimization for an air source heat pump unit with frost evenly distributed and melted frost locally drained. <i>Energy and Buildings</i> , 2018 , 178, 26-37	7	27
72	Exergetic and economic analyses of a novel modified solar-heat-powered ejection-compression refrigeration cycle comparing with conventional cycle. <i>Energy Conversion and Management</i> , 2018 , 168, 107-118	10.6	19
71	Mathematical modelling and optimization of the liquid separation condenser used in organic Rankine cycle. <i>Applied Energy</i> , 2017 , 185, 1309-1323	10.7	36
70	A numerical study on influences of building envelope heat gain on operating performances of a bed-based task/ambient air conditioning (TAC) system in energy saving and thermal comfort. <i>Applied Energy</i> , 2017 , 192, 213-221	10.7	49
69	Computational fluid dynamics analysis of convective heat transfer coefficients for a sleeping human body. <i>Applied Thermal Engineering</i> , 2017 , 117, 385-396	5.8	34
68	Proposal and thermodynamic analysis of an ejection-compression refrigeration cycle driven by low-grade heat. <i>Energy Conversion and Management</i> , 2017 , 145, 343-352	10.6	10
67	Mining Big Building Operational Data for Building Cooling Load Prediction and Energy Efficiency Improvement 2017 ,		3
66	Operating optimization for improved energy consumption of a TAC system affected by nighttime thermal loads of building envelopes. <i>Energy</i> , 2017 , 133, 491-501	7.9	24
65	Experimental investigation on an air source heat pump unit with a three-circuit outdoor coil for its reverse cycle defrosting termination temperature. <i>Applied Energy</i> , 2017 , 204, 1388-1398	10.7	49
64	District cooling systems and individual cooling systems: Comparative analysis and impacts of key factors. <i>Science and Technology for the Built Environment</i> , 2017 , 23, 241-250	1.8	5
63	A short-term building cooling load prediction method using deep learning algorithms. <i>Applied Energy</i> , 2017 , 195, 222-233	10.7	317
62	Experimental investigation on reverse cycle defrosting performance improvement for an ASHP unit by evenly adjusting the refrigerant distribution in its outdoor coil. <i>Applied Thermal Engineering</i> , 2017 , 114, 611-620	5.8	43

61	The optimal charge of carbon dioxide in water-water heat pump systems with and without an internal heat exchanger. <i>HKIE Transactions</i> , 2017 , 24, 99-106	2.9	12
60	Termination Control Temperature Study for an Air Source Heat Pump Unit During Its Reverse Cycle Defrosting. <i>Energy Procedia</i> , 2017 , 105, 335-342	2.3	10
59	Evaluating Effects of Building Envelope Thermal Loads on Energy use and Thermal Comfort for a Bedroom TAC System. <i>Energy Procedia</i> , 2017 , 105, 2607-2614	2.3	4
58	Experimental investigation of maldistribution in vertical plate falling film tower. <i>Chemical Engineering Communications</i> , 2017 , 204, 1237-1245	2.2	4
57	Improving the frosting and defrosting performance of air source heat pump units: review and outlook. <i>HKIE Transactions</i> , 2017 , 24, 88-98	2.9	20
56	Energy transfer procession in an air source heat pump unit during defrosting. <i>Applied Energy</i> , 2017 , 204, 679-689	10.7	56
55	Numerical investigations on the effects of envelope thermal loads on energy utilization potential and thermal non-uniformity in sleeping environments. <i>Building and Environment</i> , 2017 , 124, 232-244	6.5	13
54	Field test and numerical investigation on the heat transfer characteristics and optimal design of the heat exchangers of a deep borehole ground source heat pump system. <i>Energy Conversion and Management</i> , 2017 , 153, 603-615	10.6	97
53	Comparative study on two low-grade heat driven absorption-compression refrigeration cycles based on energy, exergy, economic and environmental (4E) analyses. <i>Energy Conversion and Management</i> , 2017 , 133, 535-547	10.6	62
52	Numerical study on the operating performances of a novel frost-free air-source heat pump unit using three different types of refrigerant. <i>Applied Thermal Engineering</i> , 2017 , 112, 248-258	5.8	41
51	Experimental study of dynamic characteristics of liquid desiccant dehumidification processes. <i>Science and Technology for the Built Environment</i> , 2017 , 23, 91-104	1.8	3
50	Dynamic character investigation and optimization of a novel air-source heat pump system. <i>Applied Thermal Engineering</i> , 2017 , 111, 122-133	5.8	44
49	Source separation of municipal solid waste: The effects of different separation methods and citizens' inclination-case study of Changsha, China. <i>Journal of the Air and Waste Management Association</i> , 2017 , 67, 182-195	2.4	19
48	Investigations on thermal environment in residential buildings with PCM embedded in external wall. <i>Energy Procedia</i> , 2017 , 142, 1888-1895	2.3	14
47	Thermal stability of organic binary PCMs for energy storage. <i>Energy Procedia</i> , 2017 , 142, 3287-3294	2.3	14
46	The researches on relationship between carbon dioxide emission and the influence factors in China 2017 ,		1
45	Experimental Study on R245fa Condensation Heat Transfer in Horizontal Smooth Tube and Enhanced Tube. <i>Energy Procedia</i> , 2017 , 142, 4169-4175	2.3	2
44	Frost layer thickness measurement and calculation: A short review. <i>Energy Procedia</i> , 2017 , 142, 3812-3819	2.3	4

43	A study on the effects of different bedding systems on thermal comfort [quantifying the sensitivity coefficient used for calculating Predicted Mean Vote (PMV) in sleeping environments. <i>Energy Procedia</i> , 2017 , 142, 1939-1946	2.3	2
42	A multi-objective study on the operation of task/ambient air conditioning systems in subtropics. <i>Energy Procedia</i> , 2017 , 142, 1880-1887	2.3	2
41	Experimental and numerical study on air flow and moisture transport in sleeping environments with a task/ambient air conditioning (TAC) system. <i>Energy and Buildings</i> , 2016 , 133, 596-604	7	36
40	Building demand response and control methods for smart grids: A review. <i>Science and Technology for the Built Environment</i> , 2016 , 22, 692-704	1.8	24
39	An experimental study on defrosting performance for an air source heat pump unit at different frosting evenness values with melted frost local drainage. <i>Applied Thermal Engineering</i> , 2016 , 99, 730-740	5.8	38
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