Song Mengjie

List of Publications by Citations

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	Dual enzyme-like activities of iron oxide nanoparticles and their implication for diminishing cytotoxicity. *ACS Nano*, **2012**, 6, 4001-12	16.7	542
203	A short-term building cooling load prediction method using deep learning algorithms. *Applied Energy*, **2017**, 195, 222-233	10.7	317
202	Development of prediction models for next-day building energy consumption and peak power demand using data mining techniques. *Applied Energy*, **2014**, 127, 1-10	10.7	299
201	Review on building energy performance improvement using phase change materials. *Energy and Buildings*, **2018**, 158, 776-793	7	210
200	Data mining in building automation system for improving building operational performance. *Energy and Buildings*, **2014**, 75, 109-118	7	171
199	Review on improvement for air source heat pump units during frosting and defrosting. *Applied Energy*, **2018**, 211, 1150-1170	10.7	148
198	A framework for knowledge discovery in massive building automation data and its application in building diagnostics. *Automation in Construction*, **2015**, 50, 81-90	9.6	139
197	Analytical investigation of autoencoder-based methods for unsupervised anomaly detection in building energy data. *Applied Energy*, **2018**, 211, 1123-1135	10.7	107
196	Unsupervised data analytics in mining big building operational data for energy efficiency enhancement: A review. *Energy and Buildings*, **2018**, 159, 296-308	7	103
195	Deep learning-based feature engineering methods for improved building energy prediction. *Applied Energy*, **2019**, 240, 35-45	10.7	100
194	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. *Energy Conversion and Management*, **2017**, 153, 603-615	10.6	97
193	Temporal knowledge discovery in big BAS data for building energy management. *Energy and Buildings*, **2015**, 109, 75-89	7	94
192	A grey-box model of next-day building thermal load prediction for energy-efficient control. *International Journal of Energy Research*, **2008**, 32, 1418-1431	4.5	88
191	Application of TOPSIS method in evaluating the effects of supply vane angle of a task/ambient air conditioning system on energy utilization and thermal comfort. *Applied Energy*, **2016**, 180, 536-545	10.7	76
190	Statistical investigations of transfer learning-based methodology for short-term building energy predictions. *Applied Energy*, **2020**, 262, 114499	10.7	65
189	Review on the measurement and calculation of frost characteristics. *International Journal of Heat and Mass Transfer*, **2018**, 124, 586-614	4.9	64
188	Comparative study on two low-grade heat driven absorption-compression refrigeration cycles based on energy, exergy, economic and environmental (4E) analyses. *Energy Conversion and Management*, **2017**, 133, 535-547	10.6	62

187	An experimental study on even frosting performance of an air source heat pump unit with a multi-circuit outdoor coil. *Applied Energy*, **2016**, 164, 36-44	10.7	59
186	Environmental and economical analyses of transcritical CO2 heat pump combined with direct dedicated mechanical subcooling (DMS) for space heating in China. *Energy Conversion and Management*, **2019**, 198, 111317	10.6	57
185	Energy transfer procession in an air source heat pump unit during defrosting. *Applied Energy*, **2017**, 204, 679-689	10.7	56
184	An experimental study on defrosting performance for an air source heat pump unit with a horizontally installed multi-circuit outdoor coil. *Applied Energy*, **2016**, 165, 371-382	10.7	55
183	Computational fluid dynamics (CFD) modelling of air flow field, mean age of air and CO2 distributions inside a bedroom with different heights of conditioned air supply outlet. *Applied Energy*, **2016**, 164, 906-915	10.7	55
182	Advanced data analytics for enhancing building performances: From data-driven to big data-driven approaches. *Building Simulation*, **2021**, 14, 3-24	3.9	53
181	Progress and methodologies of lifecycle commissioning of HVAC systems to enhance building sustainability. *Renewable and Sustainable Energy Reviews*, **2009**, 13, 1144-1149	16.2	51
180	Energetic performance of transcritical CO2 refrigeration cycles with mechanical subcooling using zeotropic mixture as refrigerant. *Energy*, **2018**, 150, 205-221	7.9	50
179	An experimental study on the effects of downwards flowing of melted frost over a vertical multi-circuit outdoor coil in an air source heat pump on defrosting performance during reverse cycle defrosting. *Applied Thermal Engineering*, **2014**, 67, 258-265	5.8	50
178	A novel methodology to explain and evaluate data-driven building energy performance models based on interpretable machine learning. *Applied Energy*, **2019**, 235, 1551-1560	10.7	50
177	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. *Applied Energy*, **2017**, 192, 213-221	10.7	49
176	Experimental investigation on an air source heat pump unit with a three-circuit outdoor coil for its reverse cycle defrosting termination temperature. *Applied Energy*, **2017**, 204, 1388-1398	10.7	49
175	Evaluation of transcritical CO2 heat pump system integrated with mechanical subcooling by utilizing energy, exergy and economic methodologies for residential heating. *Energy Conversion and Management*, **2019**, 192, 202-220	10.6	49
174	Influence of morphology and surface exchange reaction on magnetic properties of monodisperse magnetite nanoparticles. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2012**, 408, 114-121	5.1	48
173	Energetic, economic and environmental analysis of air source transcritical CO2 heat pump system for residential heating in China. *Applied Thermal Engineering*, **2019**, 148, 1425-1439	5.8	47
172	An experimental study on defrosting performance of an air source heat pump unit with a multi-circuit outdoor coil at different frosting evenness values. *Applied Thermal Engineering*, **2016**, 94, 331-340	5.8	45
171	Dynamic character investigation and optimization of a novel air-source heat pump system. *Applied Thermal Engineering*, **2017**, 111, 122-133	5.8	44
170	Experimental investigation on reverse cycle defrosting performance improvement for an ASHP unit by evenly adjusting the refrigerant distribution in its outdoor coil. *Applied Thermal Engineering*, **2017**, 114, 611-620	5.8	43

169	Ultra-small particles of iron oxide as peroxidase for immunohistochemical detection. *Nanotechnology*, **2011**, 22, 225703	3.4	42
168	Numerical study on the operating performances of a novel frost-free air-source heat pump unit using three different types of refrigerant. *Applied Thermal Engineering*, **2017**, 112, 248-258	5.8	41
167	A robust pattern recognition-based fault detection and diagnosis (FDD) method for chillers. *HVAC and R Research*, **2014**, 20, 798-809		41
166	A semi-empirical modeling study on the defrosting performance for an air source heat pump unit with local drainage of melted frost from its three-circuit outdoor coil. *Applied Energy*, **2014**, 136, 537-547	10.7	40
165	A modeling study on alleviating uneven defrosting for a vertical three-circuit outdoor coil in an air source heat pump unit during reverse cycle defrosting. *Applied Energy*, **2016**, 161, 268-278	10.7	39
164	An experimental study on defrosting performance for an air source heat pump unit at different frosting evenness values with melted frost local drainage. *Applied Thermal Engineering*, **2016**, 99, 730-740	5.8	38
163	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. *International Journal of Heat and Mass Transfer*, **2019**, 139, 280-292	4.9	37
162	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. *Energy and Buildings*, **2019**, 191, 164-173	7	37
161	Mathematical modelling and optimization of the liquid separation condenser used in organic Rankine cycle. *Applied Energy*, **2017**, 185, 1309-1323	10.7	36
160	Experimental and numerical study on air flow and moisture transport in sleeping environments with a task/ambient air conditioning (TAC) system. *Energy and Buildings*, **2016**, 133, 596-604	7	36
159	An experimental study on the negative effects of downwards flow of the melted frost over a multi-circuit outdoor coil in an air source heat pump during reverse cycle defrosting. *Applied Energy*, **2015**, 138, 598-604	10.7	35
158	Computational fluid dynamics analysis of convective heat transfer coefficients for a sleeping human body. *Applied Thermal Engineering*, **2017**, 117, 385-396	5.8	34
157	Sorption-Enhanced Steam Reforming of Glycerol for Hydrogen Production over a NiO/NiAl2O4 Catalyst and Li2ZrO3-Based Sorbent. *Energy & Fuels*, **2015**, 29, 7408-7418	4.1	32
156	Discovering gradual patterns in building operations for improving building energy efficiency. *Applied Energy*, **2018**, 224, 116-123	10.7	32
155	A Novel Strategy for the Fault Detection and Diagnosis of Centrifugal Chiller Systems. *HVAC and R Research*, **2009**, 15, 57-75		32
154	Comparative study on the energy performance of two different absorption-compression refrigeration cycles driven by low-grade heat. *Applied Thermal Engineering*, **2016**, 106, 33-41	5.8	31
153	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. *Applied Energy*, **2019**, 236, 877-892	10.7	31
152	Challenges in, and the development of, building energy saving techniques, illustrated with the example of an air source heat pump. *Thermal Science and Engineering Progress*, **2019**, 10, 337-356	3.6	30

151	Effects of receiver parameters on the optical performance of a fixed-focus Fresnel lens solar concentrator/cavity receiver system in solar cooker. *Applied Energy*, **2019**, 237, 70-82	10.7	30
150	An experimental study on the uneven refrigerant distribution over a vertically installed multi-circuit outdoor coil in an air source heat pump unit during reverse cycle defrosting. *Applied Thermal Engineering*, **2015**, 91, 975-985	5.8	29
149	Comparative studies on using RSM and TOPSIS methods to optimize residential air conditioning systems. *Energy*, **2018**, 144, 98-109	7.9	29
148	Experimental investigation on drying performance of an existed enclosed fixed frequency air source heat pump drying system. *Applied Thermal Engineering*, **2018**, 130, 735-744	5.8	29
147	Experimental investigations on destroying surface tension of melted frost for defrosting performance improvement of a multi-circuit outdoor coil. *Applied Thermal Engineering*, **2016**, 103, 1278-1288	5.8	27
146	Review of experimental data associated with the solidification characteristics of water droplets on a cold plate surface at the early frosting stage. *Energy and Buildings*, **2020**, 223, 110103	7	27
145	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. *Energy and Buildings*, **2018**, 178, 26-37	7	27
144	Experimental performance analysis and evaluation of a novel frost-free air source heat pump system. *Energy and Buildings*, **2018**, 175, 69-77	7	26
143	Sensor Fault Detection and Diagnosis of Air-Handling Units Using a Condition-Based Adaptive Statistical Method. *HVAC and R Research*, **2006**, 12, 127-150		25
142	Operating optimization for improved energy consumption of a TAC system affected by nighttime thermal loads of building envelopes. *Energy*, **2017**, 133, 491-501	7.9	24
141	Building demand response and control methods for smart grids: A review. *Science and Technology for the Built Environment*, **2016**, 22, 692-704	1.8	24
140	Development of an ANN-based building energy model for information-poor buildings using transfer learning. *Building Simulation*, **2021**, 14, 89-101	3.9	24
139	Defrosting start control strategy optimization for an air source heat pump unit with the frost accumulation and melted frost downwards flowing considered. *Sustainable Cities and Society*, **2019**, 46, 101461	10.1	23
138	Palladium-catalyzed direct asymmetric C-H bond functionalization enabled by the directing group strategy. *Chemical Science*, **2020**, 11, 12616-12632	9.4	23
137	Experimental investigation and seasonal performance assessment of a frost-free ASHP system with radiant floor heating. *Energy and Buildings*, **2018**, 179, 200-212	7	23
136	Numerical investigation on impingement dynamics and freezing performance of micrometer-sized water droplet on dry flat surface in supercooled environment. *International Journal of Multiphase Flow*, **2019**, 118, 150-164	3.6	22
135	Impacts on the solidification of water on plate surface for cold energy storage using ice slurry. *Applied Energy*, **2018**, 227, 284-293	10.7	22
134	An autonomous hierarchical control for improving indoor comfort and energy efficiency of a direct expansion air conditioning system. *Applied Energy*, **2018**, 221, 450-463	10.7	20

133	Mining big building operational data for improving building energy efficiency: A case study. *Building Services Engineering Research and Technology*, **2018**, 39, 117-128	2.3	20
132	Improving the frosting and defrosting performance of air source heat pump units: review and outlook. *HKIE Transactions*, **2017**, 24, 88-98	2.9	20
131	Smart Detection of Fire Source in Tunnel Based on the Numerical Database and Artificial Intelligence. *Fire Technology*, **2021**, 57, 657-682	3	20
130	PMV-based dynamic optimization of energy consumption for a residential task/ambient air conditioning system in different climate zones. *Renewable Energy*, **2019**, 142, 41-54	8.1	19
129	Techno-economic analysis on frosting/defrosting operations for an air source heat pump unit with an optimized multi-circuit outdoor coil. *Energy and Buildings*, **2018**, 166, 165-177	7	19
128	Energy transfer procession in an air source heat pump unit during defrosting with melted frost locally drainage in its multi-circuit outdoor coil. *Energy and Buildings*, **2018**, 164, 109-120	7	19
127	Source separation of municipal solid waste: The effects of different separation methods and citizens' inclination-case study of Changsha, China. *Journal of the Air and Waste Management Association*, **2017**, 67, 182-195	2.4	19
126	Exergetic and economic analyses of a novel modified solar-heat-powered ejection-compression refrigeration cycle comparing with conventional cycle. *Energy Conversion and Management*, **2018**, 168, 107-118	10.6	19
125	A solar-heat-driven ejector-assisted combined compression cooling system for multistory building – Application potential and effects of floor numbers. *Energy Conversion and Management*, **2019**, 195, 86-98	10.6	18
124	Heating and energy storage characteristics of multi-split air source heat pump based on energy storage defrosting. *Applied Energy*, **2019**, 238, 303-310	10.7	18
123	An experimental energy performance investigation and economic analysis on a cascade heat pump for high-temperature water in cold region. *Renewable Energy*, **2020**, 152, 674-683	8.1	18
122	Privacy-Preserving Approach PBCN in Social Network With Differential Privacy. *IEEE Transactions on Network and Service Management*, **2020**, 17, 931-945	4.8	18
121	Effective PEGylation of Fe3O4 Nanomicelles for In Vivo MR Imaging. *Journal of Nanoscience and Nanotechnology*, **2015**, 15, 4111-8	1.3	17
120	Recent Advances in the Application of Selectfluor as a "Fluorine-free" Functional Reagent in Organic Synthesis. *Chemistry - an Asian Journal*, **2020**, 15, 729-741	4.5	17
119	Experimental investigation on thermal characteristics of transcritical CO2 heat pump unit combined with thermal energy storage for residential heating. *Applied Thermal Engineering*, **2020**, 165, 114505	5.8	17
118	Refrigerant evaluation and performance comparison for a novel hybrid solar-assisted ejection-compression refrigeration cycle. *Solar Energy*, **2018**, 160, 344-352	6.8	16
117	Investigation on wavy characteristics of shear-driven water film using the planar laser induced fluorescence method. *International Journal of Multiphase Flow*, **2019**, 118, 242-253	3.6	16
116	Performance study on a low-temperature absorption–compression cascade refrigeration system driven by low-grade heat. *Energy Conversion and Management*, **2016**, 119, 379-388	10.6	16

115	Performance evaluation and multi-objective optimization of a low-temperature CO2 heat pump water heater based on artificial neural network and new economic analysis. *Energy*, **2021**, 216, 119232	7.9	16
114	Experimental study on the melted frost influence on the metal energy storage during an air source heat pump defrosting. *Energy and Buildings*, **2020**, 214, 109809	7	15
113	Energy performance of a bedroom task/ambient air conditioning (TAC) system applied in different climate zones of China. *Energy*, **2018**, 159, 724-736	7.9	15
112	Numerical study on heat transfer of oily wastewater spray falling film over a horizontal tube in a sewage source heat pump. *International Journal of Heat and Mass Transfer*, **2019**, 142, 118423	4.9	14
111	Investigations on thermal environment in residential buildings with PCM embedded in external wall. *Energy Procedia*, **2017**, 142, 1888-1895	2.3	14
110	Thermal stability of organic binary PCMs for energy storage. *Energy Procedia*, **2017**, 142, 3287-3294	2.3	14
109	A novel heat exchanger network retrofit approach based on performance reassessment. *Energy Conversion and Management*, **2018**, 177, 477-492	10.6	14
108	Thermal performance of a thin flat heat pipe with grooved porous structure. *Applied Thermal Engineering*, **2020**, 173, 115215	5.8	13
107	Numerical investigations on the effects of envelope thermal loads on energy utilization potential and thermal non-uniformity in sleeping environments. *Building and Environment*, **2017**, 124, 232-244	6.5	13
106	Experimental investigation on the thermodynamic performance of double-row liquid□vapor separation microchannel condenser. *International Journal of Refrigeration*, **2016**, 67, 373-382	3.8	13
105	A data analytics-based tool for the detection and diagnosis of anomalous daily energy patterns in buildings. *Building Simulation*, **2021**, 14, 131-147	3.9	13
104	Performance evaluation and energy-saving potential comparison of a heat-powered novel compression-enhanced ejector refrigeration cycle with an economizer. *Applied Thermal Engineering*, **2018**, 130, 1568-1579	5.8	13
103	A graph mining-based methodology for discovering and visualizing high-level knowledge for building energy management. *Applied Energy*, **2019**, 251, 113395	10.7	12
102	Robust optimal design of building cooling systems concerning uncertainties using mini-max regret theory. *Science and Technology for the Built Environment*, **2015**, 21, 789-799	1.8	12
101	Techno-economic analysis on frosting and defrosting operations of an air source heat pump unit applied in a typical cold city. *Energy and Buildings*, **2018**, 162, 65-76	7	12
100	The optimal charge of carbon dioxide in water□water heat pump systems with and without an internal heat exchanger. *HKIE Transactions*, **2017**, 24, 99-106	2.9	12
99	A simplified numerical study on the energy performance and thermal environment of a bedroom TAC system. *Energy and Buildings*, **2018**, 166, 305-316	7	11
98	Thermal Stability Experimental Study on Three Types of Organic Binary Phase Change Materials Applied in Thermal Energy Storage System. *Journal of Thermal Science and Engineering Applications*, **2018**, 10,	1.9	11

97	Simulation and Experimental Study on the Optical Performance of a Fixed-Focus Fresnel Lens Solar Concentrator Using Polar-Axis Tracking. *Energies*, **2018**, 11, 887	3.1	11
96	Marangoni effect on pool boiling heat transfer enhancement of self-rewetting fluid. *International Journal of Heat and Mass Transfer*, **2018**, 127, 1263-1270	4.9	11
95	The optimization of simulated icing environment by adjusting the arrangement of nozzles in an atomization equipment for the anti-icing and deicing of aircrafts. *International Journal of Heat and Mass Transfer*, **2020**, 155, 119720	4.9	11
94	Proposal and thermodynamic analysis of an ejection□ompression refrigeration cycle driven by low-grade heat. *Energy Conversion and Management*, **2017**, 145, 343-352	10.6	10
93	A modeling study on the revere cycle defrosting of an air source heat pump with the melted frost downwards flowing away and local drainage. *Energy and Buildings*, **2020**, 226, 110257	7	10
92	An Experimental Study on Performance During Reverse Cycle Defrosting of an Air Source Heat Pump with a Horizontal Three-circuit Outdoor Coil. *Energy Procedia*, **2014**, 61, 92-95	2.3	10
91	Termination Control Temperature Study for an Air Source Heat Pump Unit During Its Reverse Cycle Defrosting. *Energy Procedia*, **2017**, 105, 335-342	2.3	10
90	A novel deployment scheme based on three-dimensional coverage model for wireless sensor networks. *Scientific World Journal, The*, **2014**, 2014, 846784	2.2	10
89	Unsteady heat transfer properties of spray falling over a horizontal tube in an oily sewage source heat pump. *Applied Thermal Engineering*, **2020**, 179, 115675	5.8	10
88	The decarboxylative C□H heteroarylation of azoles catalysed by nickel catalysts to access unsymmetrical biheteroaryls. *Organic Chemistry Frontiers*, **2019**, 6, 3996-3999	5.2	10
87	General correlation for frost thermal conductivity on parallel surface channels. *Energy and Buildings* , **2020**, 225, 110282	7	9
86	Optimization of a liquid desiccant based dedicated outdoor air-chilled ceiling system serving multi-zone spaces. *Building Simulation*, **2012**, 5, 257-266	3.9	8
85	An experimental study on the frosting characteristic and performance of a micro-channel evaporator in an air source heat pump unit. *Energy and Buildings*, **2020**, 224, 110254	7	8
84	A real-time forecast of tunnel fire based on numerical database and artificial intelligence. *Building Simulation*,1	3.9	8
83	Proposal and experimental case study on building ventilating fan fault diagnosis based on cuckoo search algorithm optimized extreme learning machine. *Sustainable Energy Technologies and Assessments*, **2021**, 45, 100975	4.7	8
82	Marangoni effect on microbubbles emission boiling generation during pool boiling of self-rewetting fluid. *International Journal of Heat and Mass Transfer*, **2019**, 134, 10-16	4.9	8
81	A critical review on measures to suppress flow boiling instabilities in microchannels. *Heat and Mass Transfer*, **2021**, 57, 889-910	2.2	7
80	Design and optimal siting of regional heat-gas-renewable energy system based on building clusters. *Energy Conversion and Management*, **2020**, 217, 112963	10.6	6

79	Research and Applications of Data Mining Techniques for Improving Building Operational Performance. *Current Sustainable/Renewable Energy Reports*, **2018**, 5, 181-188	2.8	6
78	Surface Modified Iron Oxide Nanoparticles as Fe Source Precursor to Induce the Formation of Prussian Blue Nanocubes. *Journal of Nanoscience and Nanotechnology*, **2016**, 16, 1967-74	1.3	6
77	Experimental investigation on the heat transfer characteristics of novel rectangle radial microchannel heat exchangers in two-phase flow cooling system for data centers. *Journal of Thermal Analysis and Calorimetry*, **2020**, 141, 199-211	4.1	6
76	District cooling systems and individual cooling systems: Comparative analysis and impacts of key factors. *Science and Technology for the Built Environment*, **2017**, 23, 241-250	1.8	5
75	Study on performance evaluation of CO2 heat pump system integrated with thermal energy storage for space heating. *Energy Procedia*, **2019**, 158, 1380-1387	2.3	5
74	Experimental study on the water film thickness under spray impingement based on planar LIF. *International Journal of Multiphase Flow*, **2020**, 130, 103329	3.6	5
73	Energy savings with heat transfer enhancement techniques and heat exchangers. *Journal of Thermal Analysis and Calorimetry*, **2020**, 141, 1-4	4.1	5
72	Coupled thermo-mechanical analysis of stresses generated in impact ice during in-flight de-icing. *Applied Thermal Engineering*, **2020**, 181, 115681	5.8	5
71	A numerical study on non-uniform characteristics of spray falling heat transfer over horizontal tubes in an oily sewage source heat pump. *International Journal of Heat and Mass Transfer*, **2020**, 154, 119679	4.9	5
70	Modeling study on sessile water droplet during freezing with the consideration of gravity, supercooling, and volume expansion effects. *International Journal of Multiphase Flow*, **2021**, 103909	3.6	5
69	Numerical investigation on the performance and anti-freezing design verification of atomization equipment in an icing cloud simulation system. *Journal of Thermal Analysis and Calorimetry*, **2020**, 141, 131-143	4.1	5
68	Discovering Complex Knowledge in Massive Building Operational Data Using Graph Mining for Building Energy Management. *Energy Procedia*, **2019**, 158, 2481-2487	2.3	4
67	Evaluating Effects of Building Envelope Thermal Loads on Energy use and Thermal Comfort for a Bedroom TAC System. *Energy Procedia*, **2017**, 105, 2607-2614	2.3	4
66	Experimental investigation of maldistribution in vertical plate falling film tower. *Chemical Engineering Communications*, **2017**, 204, 1237-1245	2.2	4
65	Frost layer thickness measurement and calculation: A short review. *Energy Procedia*, **2017**, 142, 3812-3819	2.3	4
64	Machine learning based models to predict frost characteristics on cryogenic surfaces under forced convection conditions. *International Communications in Heat and Mass Transfer*, **2021**, 129, 105667	5.8	4
63	Robust and general predictive models for condensation heat transfer inside conventional and mini/micro channel heat exchangers. *Applied Thermal Engineering*, **2021**, 201, 117737	5.8	4
62	Sustainable and clean oilfield development: Optimal operation of wastewater treatment and recycling system. *Journal of Cleaner Production*, **2020**, 252, 119819	10.3	4

61	A Joint User Scheduling and Trajectory Planning Data Collection Strategy for the UAV-Assisted WSN. *IEEE Communications Letters*, **2021**, 25, 2333-2337	3.8	4
60	Effects of receiver parameters on the optical efficiency of a fixed linear-focus Fresnel lens solar system with sliding adjustment. *Energy Reports*, **2021**, 7, 3348-3361	4.6	4
59	Mining Big Building Operational Data for Building Cooling Load Prediction and Energy Efficiency Improvement **2017**,		3
58	Condensate drainage on slit or louvered fins in microchannel heat exchangers for anti-frosting. *Energy and Buildings*, **2020**, 223, 110215	7	3
57	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. *Applied Thermal Engineering*, **2020**, 172, 115196	5.8	3
56	Experimental study of dynamic characteristics of liquid desiccant dehumidification processes. *Science and Technology for the Built Environment*, **2017**, 23, 91-104	1.8	3
55	Temporal and spatial frost growth prediction of a tube-finned heat exchanger considering frost distribution characteristics. *International Journal of Heat and Mass Transfer*, **2021**, 122192	4.9	3
54	A modeling study of spatial and temporal frost growth on the edge of windward fins for a tube-finned heat exchanger. *International Journal of Heat and Mass Transfer*, **2022**, 183, 122093	4.9	3
53	Surface free energy analysis for stable supercooling of sodium thiosulfate pentahydrate with microcosmic-visualized methods. *Solar Energy Materials and Solar Cells*, **2020**, 208, 110390	6.4	3
52	An experimental study on the effect of horizontal cold plate surface temperature on frosting characteristics under natural convection. *Applied Thermal Engineering*, **2022**, 118416	5.8	3
51	Analysis on the effects of China's fiscal and taxation policy on exporting products of photovoltaic and high-end equipment manufacturing industries. *Journal of Renewable and Sustainable Energy*, **2018**, 10, 015906	2.5	2
50	Experimental Study on R245fa Condensation Heat Transfer in Horizontal Smooth Tube and Enhanced Tube. *Energy Procedia*, **2017**, 142, 4169-4175	2.3	2
49	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. *Energy Procedia*, **2017**, 142, 1939-1946	2.3	2
48	A multi-objective study on the operation of task/ambient air conditioning systems in subtropics. *Energy Procedia*, **2017**, 142, 1880-1887	2.3	2
47	Heat transfer characteristics of micron ultrathin shear-driven water film flowing on a horizontal metal surface. *International Journal of Heat and Mass Transfer*, **2020**, 148, 119065	4.9	2
46	Effects of Receiver Parameters on Solar Flux Distribution for Triangle Cavity Receiver in the Fixed Linear-Focus Fresnel Lens Solar Concentrator. *Sustainability*, **2021**, 13, 6139	3.6	2
45	**2021**,		2
44	Identification of simplified energy performance models of variable-speed air conditioners using likelihood ratio test method. *Science and Technology for the Built Environment*, **2020**, 26, 75-88	1.8	2

43	The phytochemistry, pharmacology and traditional medicinal use of - a systematic review.. *RSC Advances*, **2021**, 11, 19221-19237	3.7	2
42	Development of a superheat controller for mitigating hunting in a direct expansion air conditioning system. *Energy Procedia*, **2019**, 158, 2085-2091	2.3	1
41	Experimental study on frost unevenly distributed and melted frost downwards flowing during defrosting for ASHPs. *Energy Procedia*, **2019**, 158, 2826-2833	2.3	1
40	Instability control of two-phase flow in microchannel heat exchangers **2020**, 387-410		1
39	Lattice Boltzmann Simulation of Falling Film Flow under Low Reynolds Number. *Heat Transfer Engineering*, **2018**, 39, 1528-1539	1.7	1
38	The researches on relationship between carbon dioxide emission and the influence factors in China **2017**,		1
37	Dynamic Model Development for Vehicle Air Conditioners Based on Physics-guided Deep Learning. *International Journal of Refrigeration*, **2021**,	3.8	1
36	Robust and universal predictive models for frictional pressure drop during two-phase flow in smooth helically coiled tube heat exchangers. *Scientific Reports*, **2021**, 11, 20068	4.9	1
35	A numerical study on frosting and its early stage under forced convection conditions with surface and environmental factors considered. *Sustainable Energy Technologies and Assessments*, **2021**, 45, 101202	4.7	1
34	Experimental Investigation and Control of a Hot-Air Tunnel with Improved Performance and Energy Saving. *ACS Omega*, **2021**, 6, 16194-16215	3.9	1
33	Experimental study on defrosting start control strategy for ASHPs. *Energy Procedia*, **2018**, 152, 438-443	2.3	1
32	Numerical simulation on heating performances of a radiant-convective heating terminal. *Journal of Building Engineering*, **2021**, 39, 102307	5.2	1
31	Saturated flow boiling inside conventional and mini/micro channels: A new general model for frictional pressure drop using genetic programming. *International Journal of Refrigeration*, **2021**, 132, 197-197	3.8	1
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