

Song Mengjie

List of Publications by Year in descending order

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211
papers

8,578
citations

50170

46
h-index

53109

85
g-index

214
all docs

214
docs citations

214
times ranked

5783
citing authors

#	ARTICLE	IF	CITATIONS
1	Dual Enzyme-like Activities of Iron Oxide Nanoparticles and Their Implication for Diminishing Cytotoxicity. <i>ACS Nano</i> , 2012, 6, 4001-4012.	7.3	717
2	A short-term building cooling load prediction method using deep learning algorithms. <i>Applied Energy</i> , 2017, 195, 222-233.	5.1	481
3	Development of prediction models for next-day building energy consumption and peak power demand using data mining techniques. <i>Applied Energy</i> , 2014, 127, 1-10.	5.1	414
4	Review on building energy performance improvement using phase change materials. <i>Energy and Buildings</i> , 2018, 158, 776-793.	3.1	290
5	Review on improvement for air source heat pump units during frosting and defrosting. <i>Applied Energy</i> , 2018, 211, 1150-1170.	5.1	245
6	Data mining in building automation system for improving building operational performance. <i>Energy and Buildings</i> , 2014, 75, 109-118.	3.1	210
7	Analytical investigation of autoencoder-based methods for unsupervised anomaly detection in building energy data. <i>Applied Energy</i> , 2018, 211, 1123-1135.	5.1	183
8	Deep learning-based feature engineering methods for improved building energy prediction. <i>Applied Energy</i> , 2019, 240, 35-45.	5.1	180
9	A framework for knowledge discovery in massive building automation data and its application in building diagnostics. <i>Automation in Construction</i> , 2015, 50, 81-90.	4.8	173
10	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.	4.4	169
11	Unsupervised data analytics in mining big building operational data for energy efficiency enhancement: A review. <i>Energy and Buildings</i> , 2018, 159, 296-308.	3.1	146
12	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.	4.4	133
13	Statistical investigations of transfer learning-based methodology for short-term building energy predictions. <i>Applied Energy</i> , 2020, 262, 114499.	5.1	130
14	Review on the measurement and calculation of frost characteristics. <i>International Journal of Heat and Mass Transfer</i> , 2018, 124, 586-614.	2.5	120
15	Temporal knowledge discovery in big BAS data for building energy management. <i>Energy and Buildings</i> , 2015, 109, 75-89.	3.1	118
16	Advanced data analytics for enhancing building performances: From data-driven to big data-driven approaches. <i>Building Simulation</i> , 2021, 14, 3-24.	3.0	116
17	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.	5.1	103
18	A grey-box model of next-day building thermal load prediction for energy-efficient control. <i>International Journal of Energy Research</i> , 2008, 32, 1418-1431.	2.2	100

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19	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.	3.0	98
20	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. <i>Applied Energy</i> , 2016, 180, 536-545.	5.1	95
21	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.	4.4	90
22	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.	4.4	85
23	Smart Detection of Fire Source in Tunnel Based on the Numerical Database and Artificial Intelligence. <i>Fire Technology</i> , 2021, 57, 657-682.	1.5	81
24	Computational fluid dynamics (CFD) modelling of air flow field, mean age of air and CO ₂ distributions inside a bedroom with different heights of conditioned air supply outlet. <i>Applied Energy</i> , 2016, 164, 906-915.	5.1	80
25	Energetic performance of transcritical CO ₂ refrigeration cycles with mechanical subcooling using zeotropic mixture as refrigerant. <i>Energy</i> , 2018, 150, 205-221.	4.5	77
26	An experimental study on even frosting performance of an air source heat pump unit with a multi-circuit outdoor coil. <i>Applied Energy</i> , 2016, 164, 36-44.	5.1	72
27	Palladium-catalyzed direct asymmetric C-H bond functionalization enabled by the directing group strategy. <i>Chemical Science</i> , 2020, 11, 12616-12632.	3.7	71
28	An experimental study on defrosting performance for an air source heat pump unit with a horizontally installed multi-circuit outdoor coil. <i>Applied Energy</i> , 2016, 165, 371-382.	5.1	69
29	Energy transfer procession in an air source heat pump unit during defrosting. <i>Applied Energy</i> , 2017, 204, 679-689.	5.1	67
30	Progress and methodologies of lifecycle commissioning of HVAC systems to enhance building sustainability. <i>Renewable and Sustainable Energy Reviews</i> , 2009, 13, 1144-1149.	8.2	64
31	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.	5.1	60
32	Influence of morphology and surface exchange reaction on magnetic properties of monodisperse magnetite nanoparticles. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2012, 408, 114-121.	2.3	58
33	A robust pattern recognition-based fault detection and diagnosis (FDD) method for chillers. <i>HVAC and R Research</i> , 2014, 20, 798-809.	0.9	57
34	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.	2.5	57
35	Development of an ANN-based building energy model for information-poor buildings using transfer learning. <i>Building Simulation</i> , 2021, 14, 89-101.	3.0	57
36	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.	5.1	56

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37	Dynamic character investigation and optimization of a novel air-source heat pump system. Applied Thermal Engineering, 2017, 111, 122-133.	3.0	56
38	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.	3.0	55
39	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.	3.1	55
40	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.	1.3	54
41	A Novel Strategy for the Fault Detection and Diagnosis of Centrifugal Chiller Systems. HVAC and R Research, 2009, 15, 57-75.	0.9	53
42	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.	3.1	53
43	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.	3.0	52
44	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.	1.6	51
45	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.	3.0	49
46	Ultra-small particles of iron oxide as peroxidase for immunohistochemical detection. Nanotechnology, 2011, 22, 225703.	1.3	47
47	Computational fluid dynamics analysis of convective heat transfer coefficients for a sleeping human body. Applied Thermal Engineering, 2017, 117, 385-396.	3.0	47
48	Experimental investigation on drying performance of an existed enclosed fixed frequency air source heat pump drying system. Applied Thermal Engineering, 2018, 130, 735-744.	3.0	47
49	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.	3.0	46
50	Comparative studies on using RSM and TOPSIS methods to optimize residential air conditioning systems. Energy, 2018, 144, 98-109.	4.5	46
51	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.	4.3	46
52	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.	5.1	45
53	Recent Advances in the Application of Selectfluor as a Fluorine-Free Functional Reagent in Organic Synthesis. Chemistry - an Asian Journal, 2020, 15, 729-741.	1.7	45
54	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.	3.0	43

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55	Discovering gradual patterns in building operations for improving building energy efficiency. Applied Energy, 2018, 224, 116-123.	5.1	43
56	A real-time forecast of tunnel fire based on numerical database and artificial intelligence. Building Simulation, 2022, 15, 511-524.	3.0	43
57	Privacy-Preserving Approach PBCN in Social Network With Differential Privacy. IEEE Transactions on Network and Service Management, 2020, 17, 931-945.	3.2	43
58	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.	5.1	42
59	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.	5.1	42
60	Mathematical modelling and optimization of the liquid separation condenser used in organic Rankine cycle. Applied Energy, 2017, 185, 1309-1323.	5.1	42
61	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.	3.1	41
62	Building demand response and control methods for smart grids: A review. Science and Technology for the Built Environment, 2016, 22, 692-704.	0.8	40
63	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.	5.1	40
64	Sorption-Enhanced Steam Reforming of Glycerol for Hydrogen Production over a NiO/NiAl ₂ O ₄ Catalyst and Li ₂ ZrO ₃ -Based Sorbent. Energy & Fuels, 2015, 29, 7408-7418.	2.5	39
65	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.	3.0	39
66	Performance evaluation and multi-objective optimization of a low-temperature CO ₂ heat pump water heater based on artificial neural network and new economic analysis. Energy, 2021, 216, 119232.	4.5	39
67	Impacts on the solidification of water on plate surface for cold energy storage using ice slurry. Applied Energy, 2018, 227, 284-293.	5.1	37
68	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.	4.3	37
69	Experimental investigation on thermal characteristics of transcritical CO ₂ heat pump unit combined with thermal energy storage for residential heating. Applied Thermal Engineering, 2020, 165, 114505.	3.0	37
70	Thermal performance of a thin flat heat pipe with grooved porous structure. Applied Thermal Engineering, 2020, 173, 115215.	3.0	37
71	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.	5.1	36
72	Sensor Fault Detection and Diagnosis of Air-Handling Units Using a Condition-Based Adaptive Statistical Method. HVAC and R Research, 2006, 12, 127-150.	0.9	35

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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.	3.1	35
74	Experimental performance analysis and evaluation of a novel frost-free air source heat pump system. <i>Energy and Buildings</i> , 2018, 175, 69-77.	3.1	35
75	Robust and general predictive models for condensation heat transfer inside conventional and mini/micro channel heat exchangers. <i>Applied Thermal Engineering</i> , 2022, 201, 117737.	3.0	35
76	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.	3.0	34
77	Improving the frosting and defrosting performance of air source heat pump units: review and outlook. <i>HKIE Transactions</i> , 2017, 24, 88-98.	1.9	33
78	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.	3.1	32
79	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.	0.9	31
80	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.	5.1	31
81	A critical review on measures to suppress flow boiling instabilities in microchannels. <i>Heat and Mass Transfer</i> , 2021, 57, 889-910.	1.2	31
82	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. <i>Applied Thermal Engineering</i> , 2015, 91, 975-985.	3.0	30
83	Experimental investigations on destroying surface tension of melted frost for defrosting performance improvement of a multi-circuit outdoor coil. <i>Applied Thermal Engineering</i> , 2016, 103, 1278-1288.	3.0	29
84	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.	4.5	29
85	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.	5.1	29
86	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> , 2020, 226, 110257.	3.1	29
87	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.	4.4	27
88	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.	4.4	27
89	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.	5.1	27
90	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.	2.5	26

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91	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.	1.6	26
92	Frosting mechanism and behaviors on surfaces with simple geometries: A state-of-the-art literature review. <i>Applied Thermal Engineering</i> , 2022, 215, 118984.	3.0	25
93	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.	3.1	24
94	Refrigerant evaluation and performance comparison for a novel hybrid solar-assisted ejection-compression refrigeration cycle. <i>Solar Energy</i> , 2018, 160, 344-352.	2.9	24
95	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.	0.9	24
96	A graph mining-based methodology for discovering and visualizing high-level knowledge for building energy management. <i>Applied Energy</i> , 2019, 251, 113395.	5.1	24
97	A Joint User Scheduling and Trajectory Planning Data Collection Strategy for the UAV-Assisted WSN. <i>IEEE Communications Letters</i> , 2021, 25, 2333-2337.	2.5	23
98	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.	2.5	22
99	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.	3.1	22
100	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.	3.1	21
101	A novel heat exchanger network retrofit approach based on performance reassessment. <i>Energy Conversion and Management</i> , 2018, 177, 477-492.	4.4	21
102	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.	2.9	21
103	Performance study on a low-temperature absorption-compression cascade refrigeration system driven by low-grade heat. <i>Energy Conversion and Management</i> , 2016, 119, 379-388.	4.4	20
104	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.	2.5	20
105	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> , 2022, 147, 103909.	1.6	20
106	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.	1.6	19
107	The decarboxylative C-H heteroarylation of azoles catalysed by nickel catalysts to access unsymmetrical biheteroaryls. <i>Organic Chemistry Frontiers</i> , 2019, 6, 3996-3999.	2.3	19
108	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.	3.0	19

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109	Experimental study on the melted frost influence on the metal energy storage during an air source heat pump defrosting. <i>Energy and Buildings</i> , 2020, 214, 109809.	3.1	19
110	Effective PEGylation of Fe ₃ O ₄ Nanomicelles for <i>In Vivo</i> MR Imaging. <i>Journal of Nanoscience and Nanotechnology</i> , 2015, 15, 4111-4118.	0.9	18
111	Robust optimal design of building cooling systems concerning uncertainties using mini-max regret theory. <i>Science and Technology for the Built Environment</i> , 2015, 21, 789-799.	0.8	18
112	Investigations on thermal environment in residential buildings with PCM embedded in external wall. <i>Energy Procedia</i> , 2017, 142, 1888-1895.	1.8	18
113	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.	3.0	17
114	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.	4.5	17
115	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.	2.0	17
116	Termination Control Temperature Study for an Air Source Heat Pump Unit During Its Reverse Cycle Defrosting. <i>Energy Procedia</i> , 2017, 105, 335-342.	1.8	16
117	Thermal stability of organic binary PCMs for energy storage. <i>Energy Procedia</i> , 2017, 142, 3287-3294.	1.8	16
118	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.	2.5	16
119	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.	4.4	15
120	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.	3.1	15
121	Coupled thermo-mechanical analysis of stresses generated in impact ice during in-flight de-icing. <i>Applied Thermal Engineering</i> , 2020, 181, 115681.	3.0	15
122	A Novel Deployment Scheme Based on Three-Dimensional Coverage Model for Wireless Sensor Networks. <i>Scientific World Journal</i> , The, 2014, 2014, 1-7.	0.8	14
123	Experimental investigation on the thermodynamic performance of double-row liquid-vapor separation microchannel condenser. <i>International Journal of Refrigeration</i> , 2016, 67, 373-382.	1.8	14
124	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.	3.0	14
125	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.	3.1	14
126	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, .	0.8	14

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127	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.	1.7	14
128	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.	3.0	13
129	General correlation for frost thermal conductivity on parallel surface channels. <i>Energy and Buildings</i> , 2020, 225, 110282.	3.1	13
130	An experimental study on the effect of horizontal cold plate surface temperature on frosting characteristics under natural convection. <i>Applied Thermal Engineering</i> , 2022, 211, 118416.	3.0	13
131	Experimental Study on Solidification Characteristics of Sessile Urine Droplets on a Horizontal Cold Plate Surface under Natural Convection. <i>Langmuir</i> , 2022, 38, 7846-7857.	1.6	13
132	An Experimental Study on Performance During Reverse Cycle Defrosting of an Air Source Heat Pump with a Horizontal Three-circuit Outdoor Coil. <i>Energy Procedia</i> , 2014, 61, 92-95.	1.8	12
133	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.	1.9	12
134	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> , 2020, 154, 119679.	2.5	12
135	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.	1.6	12
136	Frost layer thickness measurement and calculation: A short review. <i>Energy Procedia</i> , 2017, 142, 3812-3819.	1.8	11
137	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, 197-212.	1.8	11
138	Optimization of a liquid desiccant based dedicated outdoor air-chilled ceiling system serving multi-zone spaces. <i>Building Simulation</i> , 2012, 5, 257-266.	3.0	10
139	Experimental study on the water film thickness under spray impingement based on planar LIF. <i>International Journal of Multiphase Flow</i> , 2020, 130, 103329.	1.6	10
140	Parameter identification of a delayed infinite-dimensional heat-exchanger process based on relay feedback and root loci analysis. <i>Scientific Reports</i> , 2022, 12, .	1.6	10
141	Surface Modified Iron Oxide Nanoparticles as Fe Source Precursor to Induce the Formation of Prussian Blue Nanocubes. <i>Journal of Nanoscience and Nanotechnology</i> , 2016, 16, 1967-1974.	0.9	9
142	Research and Applications of Data Mining Techniques for Improving Building Operational Performance. <i>Current Sustainable/Renewable Energy Reports</i> , 2018, 5, 181-188.	1.2	9
143	Sustainable and clean oilfield development: Optimal operation of wastewater treatment and recycling system. <i>Journal of Cleaner Production</i> , 2020, 252, 119819.	4.6	9
144	Design and optimal siting of regional heat-gas-renewable energy system based on building clusters. <i>Energy Conversion and Management</i> , 2020, 217, 112963.	4.4	9

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145	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> , 2022, 183, 122192.	2.5	9
146	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, 211, 118470.	3.0	9
147	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.	2.5	9
148	Discovering Complex Knowledge in Massive Building Operational Data Using Graph Mining for Building Energy Management. <i>Energy Procedia</i> , 2019, 158, 2481-2487.	1.8	8
149	Energy savings with heat transfer enhancement techniques and heat exchangers. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020, 141, 1-4.	2.0	8
150	Optimization on integrated inverter-compressor CO2 heat pump with new operating model. <i>Applied Thermal Engineering</i> , 2022, 200, 117632.	3.0	8
151	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.	0.8	7
152	Experimental investigation of maldistribution in vertical plate falling film tower. <i>Chemical Engineering Communications</i> , 2017, 204, 1237-1245.	1.5	7
153	Condensate drainage on slit or louvered fins in microchannel heat exchangers for anti-frosting. <i>Energy and Buildings</i> , 2020, 223, 110215.	3.1	7
154	Advanced data analytics for building energy modeling and management. <i>Building Simulation</i> , 2021, 14, 1-2.	3.0	7
155	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.	1.6	7
156	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.	2.5	7
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