

Ning Mao

List of Publications by Year in descending order

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Version: 2024-02-01

70
papers

2,396
citations

172386

29
h-index

206029

48
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all docs

70
docs citations

70
times ranked

1327
citing authors

#	ARTICLE	IF	CITATIONS
1	Numerical investigation on the heat flux properties of a thermal manikin in sleeping environments applying task/ambient air conditioning. <i>Journal of Thermal Analysis and Calorimetry</i> , 2022, 147, 1675-1688.	2.0	5
2	Progress and prospect of hydrate-based desalination technology. <i>Frontiers in Energy</i> , 2022, 16, 445-459.	1.2	10
3	Boiling heat transfer mechanism of environmental-friendly refrigerants: A review. <i>International Journal of Refrigeration</i> , 2022, 133, 214-225.	1.8	17
4	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
5	Assessment of working fluids, thermal resources and cooling utilities for Organic Rankine Cycles: State-of-the-art comparison, challenges, commercial status, and future prospects. <i>Energy Conversion and Management</i> , 2022, 252, 115055.	4.4	48
6	Editorial: Emerging Sustainable and Energy-Efficient Technologies in Heat Pumps for Residential Heating. <i>Frontiers in Energy Research</i> , 2022, 10, .	1.2	1
7	Influence of transient heat flux on boiling flow pattern in a straight microchannel applied in concentrator photovoltaic systems. <i>International Journal of Heat and Mass Transfer</i> , 2022, 190, 122792.	2.5	7
8	Numerical study on supply parameters's influence on ventilation performance of a personalized air conditioning system for sleeping environments. <i>Journal of Thermal Analysis and Calorimetry</i> , 2022, 147, 11331-11343.	2.0	1
9	An experimental study on effects of oily content on flow pattern transition over horizontal tubes in a sewage source heat pump system. <i>International Journal of Thermal Sciences</i> , 2022, 181, 107779.	2.6	3
10	Organic Rankine cycle integrated with hydrate-based desalination for a sustainable energy-water nexus system. <i>Applied Energy</i> , 2021, 291, 116839.	5.1	18
11	Effects of cooling and heating sources properties and working fluid selection on cryogenic organic Rankine cycle for LNG cold energy utilization. <i>Energy Conversion and Management</i> , 2021, 247, 114706.	4.4	45
12	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
13	Model predictive control applied toward the building indoor climate. , 2020, , 457-492.		2
14	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
15	Instability control of two-phase flow in microchannel heat exchangers. , 2020, , 387-410.		4
16	Impact of mixed refrigerant selection on energy and exergy performance of natural gas liquefaction processes. <i>Energy</i> , 2020, 199, 117378.	4.5	38
17	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
18	An experimental energy performance investigation and economic analysis on a cascade heat pump for high-temperature water in cold region. <i>Renewable Energy</i> , 2020, 152, 674-683.	4.3	46

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19	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
20	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
21	Dual-effect single-mixed refrigeration cycle: An innovative alternative process for energy-efficient and cost-effective natural gas liquefaction. <i>Applied Energy</i> , 2020, 268, 115022.	5.1	44
22	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
23	Analysis of climate zonesâ€™ effects on energy consumption of a bedroom TAC system. <i>Energy Procedia</i> , 2019, 158, 2934-2941.	1.8	0
24	Experimental study on frost unevenly distributed and melted frost downwards flowing during defrosting for ASHPs. <i>Energy Procedia</i> , 2019, 158, 2826-2833.	1.8	2
25	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.	4.3	37
26	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.	1.3	54
27	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
28	A hybrid building thermal modeling approach for predicting temperatures in typical, detached, two-story houses. <i>Applied Energy</i> , 2019, 236, 101-116.	5.1	60
29	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
30	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
31	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
32	Review on improvement for air source heat pump units during frosting and defrosting. <i>Applied Energy</i> , 2018, 211, 1150-1170.	5.1	245
33	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
34	Review on building energy performance improvement using phase change materials. <i>Energy and Buildings</i> , 2018, 158, 776-793.	3.1	290
35	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
36	Comparative studies on using RSM and TOPSIS methods to optimize residential air conditioning systems. <i>Energy</i> , 2018, 144, 98-109.	4.5	46

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37	Reduction of energy consumption for a TAC system applied to sleeping environments with varying envelope thermal load. Energy Procedia, 2018, 152, 360-365.	1.8	0
38	Experimental study on defrosting start control strategy for ASHPs. Energy Procedia, 2018, 152, 438-443.	1.8	2
39	A novel heat exchanger network retrofit approach based on performance reassessment. Energy Conversion and Management, 2018, 177, 477-492.	4.4	21
40	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.	3.1	35
41	Energy performance of a bedroom task/ambient air conditioning (TAC) system applied in different climate zones of China. Energy, 2018, 159, 724-736.	4.5	17
42	Parameter optimization for operation of a bed-based task/ambient air conditioning (TAC) system to achieve a thermally neutral environment with minimum energy use. Indoor and Built Environment, 2017, 26, 132-144.	1.5	14
43	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.	5.1	56
44	Computational fluid dynamics analysis of convective heat transfer coefficients for a sleeping human body. Applied Thermal Engineering, 2017, 117, 385-396.	3.0	47
45	Operating optimization for improved energy consumption of a TAC system affected by nighttime thermal loads of building envelopes. Energy, 2017, 133, 491-501.	4.5	29
46	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.	5.1	60
47	Evaluating Effects of Building Envelope Thermal Loads on Energy use and Thermal Comfort for a Bedroom TAC System. Energy Procedia, 2017, 105, 2607-2614.	1.8	4
48	Energy transfer procession in an air source heat pump unit during defrosting. Applied Energy, 2017, 204, 679-689.	5.1	67
49	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.	3.0	14
50	Investigations on thermal environment in residential buildings with PCM embedded in external wall. Energy Procedia, 2017, 142, 1888-1895.	1.8	18
51	Thermal stability of organic binary PCMs for energy storage. Energy Procedia, 2017, 142, 3287-3294.	1.8	16
52	Experimental Study on R245fa Condensation Heat Transfer in Horizontal Smooth Tube and Enhanced Tube. Energy Procedia, 2017, 142, 4169-4175.	1.8	2
53	Frost layer thickness measurement and calculation: A short review. Energy Procedia, 2017, 142, 3812-3819.	1.8	11
54	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.	1.8	3

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55	A multi-objective study on the operation of task/ambient air conditioning systems in subtropics. Energy Procedia, 2017, 142, 1880-1887.	1.8	3
56	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.	5.1	95
57	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
58	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
59	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.	3.0	29
60	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.	5.1	69
61	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.	5.1	80
62	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
63	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.	5.1	72
64	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.	3.0	30
65	Experimental and numerical studies on the performance evaluation of a bed-based task/ambient air conditioning (TAC) system. Applied Energy, 2014, 136, 956-967.	5.1	38
66	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
67	Performance evaluation of an air conditioning system with different heights of supply outlet applied to a sleeping environment. Energy and Buildings, 2014, 77, 281-291.	3.1	30
68	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.	1.8	12
69	Thermal, ventilation and energy saving performance evaluations of a ductless bed-based task/ambient air conditioning (TAC) system. Energy and Buildings, 2013, 66, 297-305.	3.1	41
70	Unsteady characteristics of sleeping thermal comfort during defrosting of a T-ASHp system. Indoor and Built Environment, 0, , 1420326X2210792.	1.5	1