

Xiaofeng Niu

List of Publications by Year in descending order

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Version: 2024-02-01

34
papers

1,062
citations

430874

18
h-index

414414

32
g-index

34
all docs

34
docs citations

34
times ranked

832
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental study on the liquid desiccant dehumidification performance of microencapsulated phase change materials slurry. <i>Energy</i> , 2022, 239, 122212.	8.8	4
2	Research on falling film dehumidification performance of microencapsulated phase change materials slurry. <i>Energy and Buildings</i> , 2021, 235, 110750.	6.7	13
3	An anomaly detection and dynamic energy performance evaluation method for HVAC systems based on data mining. <i>Sustainable Energy Technologies and Assessments</i> , 2021, 44, 101092.	2.7	12
4	Dispersion stability and thermophysical properties of microencapsulated phase change material slurry for liquid desiccant dehumidification. <i>Energy and Buildings</i> , 2021, 240, 110870.	6.7	7
5	Field measurements on thermal stratification and cooling potential of natural ventilation for large space buildings. <i>International Journal of Ventilation</i> , 2020, 19, 49-62.	0.4	4
6	A novel solar PV/T driven air purification system based on heterogeneous photocatalytic reaction principles: A short review and preliminary investigation. <i>Energy Conversion and Management</i> , 2020, 210, 112697.	9.2	12
7	Sub-ambient radiative cooling and its application in buildings. <i>Building Simulation</i> , 2020, 13, 1165-1189.	5.6	33
8	Energy-Saving Analysis of Low-Rise Prefabricated Building Integrating with Metamaterial-Based Cool Roof in China. <i>Environmental Science and Engineering</i> , 2020, , 57-65.	0.2	1
9	Investigation of the influence of groundwater seepage on the heat transfer characteristics of a ground source heat pump system with a 9-well group. <i>Building Simulation</i> , 2019, 12, 857-868.	5.6	15
10	Dynamic modeling of liquid-desiccant regenerator based on a state-space method. <i>Applied Energy</i> , 2019, 240, 744-753.	10.1	11
11	Entransy analysis on the performance of the counter-flow heat exchangers for a double evaporating temperature chiller. <i>International Journal of Refrigeration</i> , 2019, 98, 89-97.	3.4	5
12	Preparation, Characterization, and Thermal Properties of Microencapsulated Phase Change Material for Low-Temperature Thermal Energy Storage. <i>Energy & Fuels</i> , 2019, 33, 1631-1636.	5.1	25
13	Exergy and energy analysis of a double evaporating temperature chiller. <i>Energy and Buildings</i> , 2018, 165, 464-471.	6.7	15
14	Recent advancements on thermal management and evaluation for data centers. <i>Applied Thermal Engineering</i> , 2018, 142, 215-231.	6.0	75
15	Prediction of natural and hybrid ventilation performance used for fire-induced smoke control in a large single space. <i>Fire Safety Journal</i> , 2018, 100, 20-31.	3.1	13
16	A dynamic dehumidifier model for simulations and control of liquid desiccant hybrid air conditioning systems. <i>Energy and Buildings</i> , 2017, 140, 418-429.	6.7	26
17	Quantitative evaluation of the impact of building load characteristics on energy performance of district cooling systems. <i>Applied Energy</i> , 2017, 205, 635-643.	10.1	21
18	Experimental study of dynamic characteristics of liquid desiccant dehumidification processes. <i>Science and Technology for the Built Environment</i> , 2017, 23, 91-104.	1.7	3

#	ARTICLE	IF	CITATIONS
19	Performance analysis of a liquid desiccant system with an adjustable reflux ratio of regeneration solution. <i>Building Services Engineering Research and Technology</i> , 2017, 38, 89-103.	1.8	2
20	Fabrication and Properties of Micro-Nanoencapsulated Phase Change Materials for Internally-Cooled Liquid Desiccant Dehumidification. <i>Nanomaterials</i> , 2017, 7, 96.	4.1	16
21	Possibility of using roof openings for natural ventilation in a shallow urban road tunnel. <i>Tunnelling and Underground Space Technology</i> , 2016, 54, 92-101.	6.2	23
22	Theoretical predictions and field measurements for potential natural ventilation in urban vehicular tunnels with roof openings. <i>Building and Environment</i> , 2014, 82, 450-458.	6.9	37
23	Numerical investigation of ammonia falling film absorption outside vertical tube with nanofluids. <i>International Journal of Heat and Mass Transfer</i> , 2014, 79, 241-250.	4.8	27
24	Comparison study of air mixing modes in liquid desiccant based all-air air conditioning systems. <i>Building Services Engineering Research and Technology</i> , 2012, 33, 423-435.	1.8	2
25	Investigation on capacity matching in liquid desiccant and heat pump hybrid air-conditioning systems. <i>International Journal of Refrigeration</i> , 2012, 35, 160-170.	3.4	73
26	Research and application of evaporative cooling in China: A review (I) " Research. <i>Renewable and Sustainable Energy Reviews</i> , 2012, 16, 3535-3546.	16.4	146
27	Research and applications of evaporative cooling in China: A review (II)" Systems and equipment. <i>Renewable and Sustainable Energy Reviews</i> , 2012, 16, 3523-3534.	16.4	49
28	An experimental and theoretical study of the influence of surfactant on the preparation and stability of ammonia-water nanofluids. <i>International Journal of Refrigeration</i> , 2011, 34, 1741-1748.	3.4	66
29	Experimental study on the effect of magnetic field on the heat conductivity and viscosity of ammonia"water. <i>Energy and Buildings</i> , 2011, 43, 1164-1168.	6.7	24
30	Control strategies for a liquid desiccant air-conditioning system. <i>Energy and Buildings</i> , 2011, 43, 1499-1507.	6.7	69
31	Control performance of a dedicated outdoor air system adopting liquid desiccant dehumidification. <i>Applied Energy</i> , 2011, 88, 143-149.	10.1	106
32	Experimental study on ammonia-water falling film absorption in external magnetic fields. <i>International Journal of Refrigeration</i> , 2010, 33, 686-694.	3.4	23
33	Performance analysis of liquid desiccant based air-conditioning system under variable fresh air ratios. <i>Energy and Buildings</i> , 2010, 42, 2457-2464.	6.7	47
34	A study on the cycle characteristics of an auto-cascade refrigeration system. <i>Experimental Thermal and Fluid Science</i> , 2009, 33, 240-245.	2.7	57