Xiaofeng Niu

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/8334145/publications.pdf

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	Research and application of evaporative cooling in China: A review (I) â€“ Research. Renewable and Sustainable Energy Reviews, 2012, 16, 3535-3546.	16.4	146
2	Control performance of a dedicated outdoor air system adopting liquid desiccant dehumidification. Applied Energy, 2011, 88, 143-149.	10.1	106
3	Recent advancements on thermal management and evaluation for data centers. Applied Thermal Engineering, 2018, 142, 215-231.	6.0	75
4	Investigation on capacity matching in liquid desiccant and heat pump hybrid air-conditioning systems. International Journal of Refrigeration, 2012, 35, 160-170.	3.4	73
5	Control strategies for a liquid desiccant air-conditioning system. Energy and Buildings, 2011, 43, 1499-1507.	6.7	69
6	An experimental and theoretical study of the influence of surfactant on the preparation and stability of ammonia-water nanofluids. International Journal of Refrigeration, 2011, 34, 1741-1748.	3.4	66
7	A study on the cycle characteristics of an auto-cascade refrigeration system. Experimental Thermal and Fluid Science, 2009, 33, 240-245.	2.7	57
8	Research and applications of evaporative cooling in China: A review (II)â€”Systems and equipment. Renewable and Sustainable Energy Reviews, 2012, 16, 3523-3534.	16.4	49
9	Performance analysis of liquid desiccant based air-conditioning system under variable fresh air ratios. Energy and Buildings, 2010, 42, 2457-2464.	6.7	47
10	Theoretical predictions and field measurements for potential natural ventilation in urban vehicular tunnels with roof openings. Building and Environment, 2014, 82, 450-458.	6.9	37
11	Sub-ambient radiative cooling and its application in buildings. Building Simulation, 2020, 13, 1165-1189.	5.6	33
12	Numerical investigation of ammonia falling film absorption outside vertical tube with nanofluids. International Journal of Heat and Mass Transfer, 2014, 79, 241-250.	4.8	27
13	A dynamic dehumidifier model for simulations and control of liquid desiccant hybrid air conditioning systems. Energy and Buildings, 2017, 140, 418-429.	6.7	26
14	Preparation, Characterization, and Thermal Properties of Microencapsulated Phase Change Material for Low-Temperature Thermal Energy Storage. Energy & Fuels, 2019, 33, 1631-1636.	5.1	25
15	Experimental study on the effect of magnetic field on the heat conductivity and viscosity of ammoniaâ€“water. Energy and Buildings, 2011, 43, 1164-1168.	6.7	24
16	Experimental study on ammonia-water falling film absorption in external magnetic fields. International Journal of Refrigeration, 2010, 33, 686-694.	3.4	23
17	Possibility of using roof openings for natural ventilation in a shallow urban road tunnel. Tunnelling and Underground Space Technology, 2016, 54, 92-101.	6.2	23
18	Quantitative evaluation of the impact of building load characteristics on energy performance of district cooling systems. Applied Energy, 2017, 205, 635-643.	10.1	21

#	Article	IF	Citations
19	Fabrication and Properties of Micro-Nanoencapsulated Phase Change Materials for Internally-Cooled Liquid Desiccant Dehumidification. Nanomaterials, 2017, 7, 96.	4.1	16
20	Exergy and energy analysis of a double evaporating temperature chiller. Energy and Buildings, 2018, 165, 464-471.	6.7	15
21	Investigation of the influence of groundwater seepage on the heat transfer characteristics of a ground source heat pump system with a 9-well group. Building Simulation, 2019, 12, 857-868.	5.6	15
22	Prediction of natural and hybrid ventilation performance used for fire-induced smoke control in a large single space. Fire Safety Journal, 2018, 100, 20-31.	3.1	13
23	Research on falling film dehumidification performance of microencapsulated phase change materials slurry. Energy and Buildings, 2021, 235, 110750.	6.7	13
24	A novel solar PV/T driven air purification system based on heterogeneous photocatalytic reaction principles: A short review and preliminary investigation. Energy Conversion and Management, 2020, 210, 112697.	9.2	12
25	An anomaly detection and dynamic energy performance evaluation method for HVAC systems based on data mining. Sustainable Energy Technologies and Assessments, 2021, 44, 101092.	2.7	12
26	Dynamic modeling of liquid-desiccant regenerator based on a stateâ€“space method. Applied Energy, 2019, 240, 744-753.	10.1	11
27	Dispersion stability and thermophysical properties of microencapsulated phase change material slurry for liquid desiccant dehumidification. Energy and Buildings, 2021, 240, 110870.	6.7	7
28	Entransy analysis on the performance of the counter-flow heat exchangers for a double evaporating temperature chiller. International Journal of Refrigeration, 2019, 98, 89-97.	3.4	5
29	Field measurements on thermal stratification and cooling potential of natural ventilation for large space buildings. International Journal of Ventilation, 2020, 19, 49-62.	0.4	4
30	Experimental study on the liquid desiccant dehumidification performance of microencapsulated phase change materials slurry. Energy, 2022, 239, 122212.	8.8	4
31	Experimental study of dynamic characteristics of liquid desiccant dehumidification processes. Science and Technology for the Built Environment, 2017, 23, 91-104.	1.7	3
32	Comparison study of air mixing modes in liquid desiccant based all-air air conditioning systems. Building Services Engineering Research and Technology, 2012, 33, 423-435.	1.8	2
33	Performance analysis of a liquid desiccant system with an adjustable reflux ratio of regeneration solution. Building Services Engineering Research and Technology, 2017, 38, 89-103.	1.8	2
34	Energy-Saving Analysis of Low-Rise Prefabricated Building Integrating with Metamaterial-Based Cool Roof in China. Environmental Science and Engineering, 2020, , 57-65.	0.2	1