

Yonggao Yin

List of Publications by Year in descending order

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54
papers

1,645
citations

331538

21
h-index

289141

40
g-index

56
all docs

56
docs citations

56
times ranked

871
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental study on dehumidifier and regenerator of liquid desiccant cooling air conditioning system. Building and Environment, 2007, 42, 2505-2511.	3.0	144
2	Experimental study on a new internally cooled/heated dehumidifier/regenerator of liquid desiccant systems. International Journal of Refrigeration, 2008, 31, 857-866.	1.8	135
3	Recent advancements in liquid desiccant dehumidification technology. Renewable and Sustainable Energy Reviews, 2014, 31, 38-52.	8.2	105
4	Comparative study on internally heated and adiabatic regenerators in liquid desiccant air conditioning system. Building and Environment, 2010, 45, 1799-1807.	3.0	96
5	Experimental Study on Displacement and Mixing Ventilation Systems for a Patient Ward. HVAC and R Research, 2009, 15, 1175-1191.	0.9	81
6	Model validation and case study on internally cooled/heated dehumidifier/regenerator of liquid desiccant systems. International Journal of Thermal Sciences, 2009, 48, 1664-1671.	2.6	79
7	Determination of the PCM melting temperature range using DSC. Thermochimica Acta, 2014, 595, 17-21.	1.2	76
8	A novel low-grade heat-driven absorption refrigeration system with LiCl-H ₂ O and LiBr-H ₂ O working pairs. International Journal of Refrigeration, 2015, 58, 219-234.	1.8	65
9	Experimental and theoretical analysis of liquid desiccant dehumidification process based on an advanced hybrid air-conditioning system. Applied Thermal Engineering, 2016, 98, 387-399.	3.0	65
10	A new method for determining coupled heat and mass transfer coefficients between air and liquid desiccant. International Journal of Heat and Mass Transfer, 2008, 51, 3287-3297.	2.5	63
11	Bubble formation on solid surface with a cavity based on molecular dynamics simulation. International Journal of Heat and Mass Transfer, 2016, 95, 278-287.	2.5	54
12	Thermodynamic analysis of a novel energy-efficient refrigeration system subcooled by liquid desiccant dehumidification and evaporation. Energy Conversion and Management, 2014, 78, 286-296.	4.4	53
13	Performance analysis of a hybrid air-conditioning system dehumidified by liquid desiccant with low temperature and low concentration. Energy and Buildings, 2014, 77, 91-102.	3.1	50
14	Distributions of respiratory contaminants from a patient with different postures and exhaling modes in a single-bed inpatient room. Building and Environment, 2011, 46, 75-81.	3.0	43
15	Performance analysis of a novel liquid desiccant evaporative cooling fresh air conditioning system with solution recirculation. Building and Environment, 2017, 117, 218-229.	3.0	43
16	A proposed subcooling method for vapor compression refrigeration cycle based on expansion power recovery. International Journal of Refrigeration, 2014, 43, 50-61.	1.8	41
17	A proposed compressed air drying method using pressurized liquid desiccant and experimental verification. Applied Energy, 2015, 141, 80-89.	5.1	36
18	Feasibility and performance analysis of a desiccant solution regenerator using hot air. Energy and Buildings, 2011, 43, 1097-1104.	3.1	28

#	ARTICLE	IF	CITATIONS
19	Experimental study and performance analysis on a new dehumidifier with outside evaporative cooling. Building and Environment, 2019, 148, 200-211.	3.0	27
20	Performance analysis of a solar-driven liquid desiccant cooling system with solution storage under adjustable recirculation ratio. Solar Energy, 2018, 172, 32-45.	2.9	24
21	Review of internally cooled liquid desiccant air dehumidification: Materials, components, systems, and performances. Building and Environment, 2022, 211, 108747.	3.0	23
22	Applicability and energy efficiency of temperature and humidity independent control systems based on dual cooling sources. Energy and Buildings, 2016, 121, 22-31.	3.1	22
23	Investigation on air flow patterns of evaporative cooling and dehumidification process for a hybrid refrigeration system. Applied Thermal Engineering, 2016, 95, 79-94.	3.0	22
24	Suggested solution concentration for an energy-efficient refrigeration system combined with condensation heat-driven liquid desiccant cycle. Renewable Energy, 2015, 83, 553-564.	4.3	19
25	Study on performance of a novel energy-efficient heat pump system using liquid desiccant. Applied Energy, 2018, 219, 325-337.	5.1	19
26	Study of an integrated radiant heating/cooling system with fresh air supply for household utilization. Building and Environment, 2019, 165, 106404.	3.0	19
27	Analytical study on condensation heat distribution modes in a hybrid vapor compression refrigeration system. Energy and Buildings, 2015, 88, 288-302.	3.1	17
28	Investigation on coupled heat and mass transfer coefficients between compressed air and liquid desiccant in a packed dryer. International Journal of Heat and Mass Transfer, 2016, 93, 1218-1226.	2.5	17
29	Investigation of falling-film plate wettability characteristics under dehumidification and regeneration conditions using LiCl-H ₂ O. International Journal of Refrigeration, 2018, 94, 118-126.	1.8	17
30	Experimental study of a novel subcooling method based on liquid desiccant dehumidification for vapor-compression refrigeration systems. Applied Thermal Engineering, 2018, 130, 1460-1471.	3.0	14
31	Theoretical storage capacity for solar air pretreatment liquid collector/regenerator. Applied Thermal Engineering, 2008, 28, 1259-1266.	3.0	11
32	Experimental investigation on the mass transfer performance of a novel packing used for liquid desiccant systems. Science and Technology for the Built Environment, 2017, 23, 46-59.	0.8	11
33	Inverse regulation of the indoor environment: An overview of the adjoint method. Energy and Buildings, 2022, 259, 111907.	3.1	11
34	Experimental and simulated study on a novel compressed air drying system using a liquid desiccant cycle. Energy, 2018, 162, 60-71.	4.5	10
35	An improved heat transfer model for building phase change material wallboard. Journal of Thermal Analysis and Calorimetry, 2018, 134, 1757-1763.	2.0	9
36	A statistical thermodynamic model for prediction of vapor pressure of mixed liquid desiccants near saturated solubility. Energy, 2019, 175, 798-809.	4.5	9

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37	Performance of a novel climate-adaptive temperature and humidity independent control system based on zeotropic mixture R32/R236fa. Sustainable Cities and Society, 2022, 76, 103453.	5.1	9
38	Investigation on drying performance and alternative analysis of different liquid desiccants in compressed air drying system. Energy, 2018, 165, 1-9.	4.5	8
39	Thermodynamic analysis of a novel chemical heat pump cycle based on the physical-chemical thermal effects of reversible reaction. Energy Conversion and Management, 2020, 225, 113419.	4.4	8
40	Inverse design of indoor radiant terminal using the particle swarm optimization method with topology concept. Building and Environment, 2021, 204, 108117.	3.0	8
41	Experimental study on heat and mass transfer performance of falling film absorption over a vertical tube using LiCl solution. International Journal of Refrigeration, 2018, 85, 109-119.	1.8	7
42	A modified LIQUAC model for prediction of the vapor pressure of single liquid desiccant at high concentration and regeneration temperature. Fluid Phase Equilibria, 2020, 514, 112558.	1.4	7
43	Inverse design of the thermal environment in an airplane cockpit using the adjoint method with the momentum method. Indoor Air, 2021, 31, 1614-1624.	2.0	7
44	Experimental study on a novel air conditioning system for deep cascade utilization of waste heat. Applied Thermal Engineering, 2022, 200, 117695.	3.0	6
45	Model evaluation of lithium bromide aqueous solution and characteristics of water transport behaviors in liquid-vapor systems by molecular dynamics. International Journal of Refrigeration, 2019, 107, 165-173.	1.8	5
46	Experimental investigation on compressed air drying performance using pressurized liquid desiccant. Drying Technology, 2016, 34, 372-382.	1.7	4
47	Modelling and performance evaluation of a novel disk-type liquid desiccant air dehumidifier with no film flow. Indoor and Built Environment, 2020, 29, 1289-1299.	1.5	4
48	Condensation Risk in a Room with a High Latent Load and Chilled Ceiling Panels and with Air Supplied from a Liquid Desiccant System. HVAC and R Research, 2009, 15, 315-327.	0.9	3
49	Experimental study on LiCl solution falling-film generation process outside a vertical tube. International Journal of Refrigeration, 2017, 79, 251-260.	1.8	3
50	A molecular dynamics study on interaction contributions of components in liquid-vapor systems between LiBr aqueous solutions and air during absorption. Applied Thermal Engineering, 2020, 166, 114732.	3.0	3
51	Mechanism study on magnitude of mass transfer coefficients in liquid desiccant dehumidification and regeneration. Applied Thermal Engineering, 2022, 204, 117951.	3.0	3
52	Current status and development trend of dehumidification technology in low-humidity industries. IOP Conference Series: Earth and Environmental Science, 2022, 1011, 012030.	0.2	2
53	Experimental Study on a New Internally Cooled Dehumidifier Using LiCl-H ₂ O. , 2008, , 857-861.		0
54	Dynamic Modeling of Smart Buildings Energy Consumption: A Cyber-Physical Fusion Approach. , 2021, , .		0