

Zhenyuan Xu

List of Publications by Year in descending order

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42
papers

2,320
citations

218592

26
h-index

254106

43
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43
all docs

43
docs citations

43
times ranked

1811
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultrahigh-efficiency desalination <i>via</i> a thermally-localized multistage solar still. <i>Energy and Environmental Science</i> , 2020, 13, 830-839.	15.6	317
2	High-Performance Thermally Conductive Phase Change Composites by Large-Size Oriented Graphite Sheets for Scalable Thermal Energy Harvesting. <i>Advanced Materials</i> , 2019, 31, e1905099.	11.1	298
3	Perspectives for low-temperature waste heat recovery. <i>Energy</i> , 2019, 176, 1037-1043.	4.5	189
4	Passive, high-efficiency thermally-localized solar desalination. <i>Energy and Environmental Science</i> , 2021, 14, 1771-1793.	15.6	142
5	Solar heating and cooling: Present and future development. <i>Renewable Energy</i> , 2018, 126, 1126-1140.	4.3	139
6	Absorption refrigeration cycles: Categorized based on the cycle construction. <i>International Journal of Refrigeration</i> , 2016, 62, 114-136.	1.8	101
7	Highly efficient and salt rejecting solar evaporation via a wick-free confined water layer. <i>Nature Communications</i> , 2022, 13, 849.	5.8	101
8	Thermal energy storage using absorption cycle and system: A comprehensive review. <i>Energy Conversion and Management</i> , 2020, 206, 112482.	4.4	79
9	Waste heat recovery of power plant with large scale serial absorption heat pumps. <i>Energy</i> , 2018, 165, 1097-1105.	4.5	74
10	A novel variable effect LiBr-water absorption refrigeration cycle. <i>Energy</i> , 2013, 60, 457-463.	4.5	63
11	Solar driven air conditioning and refrigeration systems corresponding to various heating source temperatures. <i>Applied Energy</i> , 2016, 169, 846-856.	5.1	63
12	Modeling and performance analysis of high-efficiency thermally-localized multistage solar stills. <i>Applied Energy</i> , 2020, 266, 114864.	5.1	52
13	Distributed solar desalination by membrane distillation: current status and future perspectives. <i>Water Research</i> , 2021, 198, 117154.	5.3	50
14	Absorption heat pump for waste heat reuse: current states and future development. <i>Frontiers in Energy</i> , 2017, 11, 414-436.	1.2	47
15	Experimental evaluation of a variable effect LiBr-water absorption chiller designed for high-efficient solar cooling system. <i>International Journal of Refrigeration</i> , 2015, 59, 135-143.	1.8	46
16	Absorption seasonal thermal storage cycle with high energy storage density through multi-stage output. <i>Energy</i> , 2019, 167, 1086-1096.	4.5	41
17	Comparison of CPC driven solar absorption cooling systems with single, double and variable effect absorption chillers. <i>Solar Energy</i> , 2017, 158, 511-519.	2.9	40
18	Simulation of solar cooling system based on variable effect LiBr-water absorption chiller. <i>Renewable Energy</i> , 2017, 113, 907-914.	4.3	39

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19	Experimental study on a double-stage absorption solar thermal storage system with enhanced energy storage density. <i>Applied Energy</i> , 2020, 262, 114476.	5.1	37
20	Double-section absorption heat pump for the deep recovery of low-grade waste heat. <i>Energy Conversion and Management</i> , 2020, 220, 113072.	4.4	36
21	A sorption thermal storage system with large concentration glide. <i>Energy</i> , 2017, 141, 380-388.	4.5	31
22	Comparison of absorption refrigeration cycles for efficient air-cooled solar cooling. <i>Solar Energy</i> , 2018, 172, 14-23.	2.9	31
23	An air-source hybrid absorption-compression heat pump with large temperature lift. <i>Applied Energy</i> , 2021, 291, 116810.	5.1	31
24	Multiscale Dynamic Growth and Energy Transport of Droplets during Condensation. <i>Langmuir</i> , 2018, 34, 9085-9095.	1.6	29
25	Size distribution theory for jumping-droplet condensation. <i>Applied Physics Letters</i> , 2019, 114, .	1.5	27
26	Experimental verification of the variable effect absorption refrigeration cycle. <i>Energy</i> , 2014, 77, 703-709.	4.5	26
27	Multi-criterion comparison of compression and absorption heat pumps for ultra-low grade waste heat recovery. <i>Energy</i> , 2022, 238, 121804.	4.5	23
28	Multi-functional three-phase sorption solar thermal energy storage cycles for cooling, heating, and heat transformer. <i>Applied Thermal Engineering</i> , 2021, 189, 116765.	3.0	19
29	Distributed vacuum membrane distillation driven by direct-solar heating at ultra-low temperature. <i>Energy</i> , 2022, 239, 121891.	4.5	18
30	Enlarged temperature lift of hybrid compression-absorption heat transformer via deep thermal coupling. <i>Energy Conversion and Management</i> , 2021, 234, 113954.	4.4	14
31	Feasibility and economic analysis of solution transportation absorption system for long-distance thermal transportation under low ambient temperature. <i>Energy Conversion and Management</i> , 2019, 196, 793-806.	4.4	13
32	Nucleation Site Distribution Probed by Phase-Enhanced Environmental Scanning Electron Microscopy. <i>Cell Reports Physical Science</i> , 2020, 1, 100262.	2.8	13
33	Thermally-pressurized sorption heat storage cycle with low charging temperature. <i>Energy</i> , 2019, 189, 116304.	4.5	12
34	Towards high-performance sorption cold energy storage and transmission with ionic liquid absorbents. <i>Energy Conversion and Management</i> , 2021, 241, 114296.	4.4	12
35	Enhanced Environmental Scanning Electron Microscopy Using Phase Reconstruction and Its Application in Condensation. <i>ACS Nano</i> , 2019, 13, 1953-1960.	7.3	11
36	Enhanced sorption heat transportation cycles with large concentration glide. <i>Energy Conversion and Management</i> , 2019, 201, 112145.	4.4	10

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37	Jumping droplet condensation in internal convective vapor flow. International Journal of Heat and Mass Transfer, 2020, 163, 120398.	2.5	9
38	High-Performance Absorption Thermal Storage with Once-Through Discharging. ACS Sustainable Chemistry and Engineering, 2022, 10, 720-730.	3.2	8
39	Performance evaluation of absorption thermal energy storage/transmission using ionic liquid absorbents. Energy and Built Environment, 2023, 4, 259-269.	2.9	8
40	Energy grade splitting of hot water via a double effect absorption heat transformer. Energy Conversion and Management, 2021, 230, 113821.	4.4	6
41	Analysis and Perspective on Heat Pump for Industrial Steam Generation. Advanced Energy and Sustainability Research, 2021, 2, 2000108.	2.8	6
42	Thermodynamic evaluation of three-phase absorption thermal storage in humid air with energy storage density over 600 kWh/m ³ . Energy Conversion and Management, 2022, 258, 115476.	4.4	6