

# Ruzhu Wang

## List of Publications by Year in descending order

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854  
papers

38,677  
citations

3531  
90  
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9861  
141  
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874  
all docs

874  
docs citations

874  
times ranked

14583  
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermally conductive and form-stable phase change composite for building thermal management. Energy, 2022, 239, 121938.	8.8	28
2	Multi-criterion comparison of compression and absorption heat pumps for ultra-low grade waste heat recovery. Energy, 2022, 238, 121804.	8.8	23
3	Multi-mode integrated system of adsorption refrigeration using desiccant coated heat exchangers for ultra-low grade heat utilization. Energy, 2022, 238, 121813.	8.8	13
4	Ten megawatt scale vapor compression heat pump for low temperature waste heat recovery: Onsite application research. Energy, 2022, 238, 121699.	8.8	16
5	An exergy analysis and parameter optimization of solid desiccant heat pumps recovering the condensation heat for desiccant regeneration and heat transfer enhancement. Energy, 2022, 238, 121811.	8.8	11
6	Distributed vacuum membrane distillation driven by direct-solar heating at ultra-low temperature. Energy, 2022, 239, 121891.	8.8	18
7	Binder-free Growth of Aluminum-based Metal-Organic Frameworks on Aluminum Substrate for Enhanced Water Adsorption Capacity. Advanced Functional Materials, 2022, 32, 2105267.	14.9	23
8	Modeling and optimization of a honeycombed adsorbent bed for efficient moisture capture. Applied Thermal Engineering, 2022, 200, 117717.	6.0	9
9	Materials for Thermal Energy Storage: Classification, Selection and Characterization. , 2022, , 351-363.		2
10	Parametric investigation of photovoltaic-thermal systems integrated with porous phase change material. Applied Thermal Engineering, 2022, 201, 117727.	6.0	31
11	Enhanced thermal conductivity and adsorption rate of zeolite 13X adsorbent by compression-induced molding method for sorption thermal battery. Energy, 2022, 240, 122797.	8.8	4
12	Network flow calculation based on the directional nodal potential method for meshed heating networks. Energy, 2022, 243, 122729.	8.8	6
13	Ultralow-temperature-driven water-based sorption refrigeration enabled by low-cost zeolite-like porous aluminophosphate. Nature Communications, 2022, 13, 193.	12.8	33
14	Comprehensive selection and assessment methodology of compression heat pump system. Energy, 2022, 241, 122831.	8.8	9
15	Designing thermoelectric self-cooling system for electronic devices: Experimental investigation and model validation. Energy, 2022, 243, 123059.	8.8	13
16	Viability of a practical multicyclic sorption-based water harvester with improved water yield. Water Research, 2022, 211, 118029.	11.3	26
17	Facile synthesis of Al-based MOF and its applications in desiccant coated heat exchangers. Renewable and Sustainable Energy Reviews, 2022, 157, 112015.	16.4	26
18	High-Performance Absorption Thermal Storage with Once-Through Discharging. ACS Sustainable Chemistry and Engineering, 2022, 10, 720-730.	6.7	8

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19	Condensation of water vapor from humid air inside vertical channels formed by flat plates. <i>IScience</i> , 2022, 25, 103565.	4.1	12
20	Sorption-tree with scalable hygroscopic adsorbent-leaves for water harvesting. <i>Journal of Materials Chemistry A</i> , 2022, 10, 6576-6586.	10.3	21
21	Heat Recovery for Adsorption Refrigeration System via Pinch Technology. <i>Journal of Thermal Science</i> , 2022, 31, 379-389.	1.9	1
22	Model predictive control for the performance improvement of air source heat pump heating system via variable water temperature difference. <i>International Journal of Refrigeration</i> , 2022, 138, 169-179.	3.4	5
23	Thermodynamic evaluation of three-phase absorption thermal storage in humid air with energy storage density over 600 kJ/m <sup>3</sup> . <i>Energy Conversion and Management</i> , 2022, 258, 115476.	9.2	6
24	Insights into desiccant-based internally-cooled dehumidification using porous sorbents: From a modeling viewpoint. <i>Applied Energy</i> , 2022, 311, 118732.	10.1	12
25	Performance improvement of air-source heat pump heating system with variable water temperature difference. <i>Applied Thermal Engineering</i> , 2022, 210, 118366.	6.0	8
26	An encapsulation protocol of salt-based composite sorbents for atmospheric water harvesting. <i>STAR Protocols</i> , 2022, 3, 101255.	1.2	2
27	A review and perspective on industry high-temperature heat pumps. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 161, 112106.	16.4	63
28	Dual-Phase Encapsulated Highly Conductive and Liquid-Free Phase Change Composites Enabled by Polyurethane/Graphite Nanoplatelets Hybrid Networks for Efficient Energy Storage and Thermal Management. <i>Small</i> , 2022, 18, e2105647.	10.0	72
29	Reversible sweat cooling on mobile electronic devices by metal-organic frameworks-based moisture sorption-desorption process. <i>Materials Today Nano</i> , 2022, 18, 100198.	4.6	7
30	CO <sub>2</sub> capture-driven thermal battery using functionalized solvents for plus energy building application. <i>Energy Conversion and Management</i> , 2022, 260, 115606.	9.2	5
31	A rechargeable molecular solar thermal system below 0 °C. <i>Chemical Science</i> , 2022, 13, 6950-6958.	7.4	21
32	All-day freshwater production enabled by an active continuous sorption-based atmospheric water harvesting system. <i>Energy Conversion and Management</i> , 2022, 264, 115745.	9.2	12
33	High-yield and scalable water harvesting of honeycomb hygroscopic polymer driven by natural sunlight. <i>Cell Reports Physical Science</i> , 2022, 3, 100954.	5.6	22
34	Data-driven application on the optimization of a heat pump system for district heating load supply: A validation based on onsite test. <i>Energy Conversion and Management</i> , 2022, 266, 115851.	9.2	9
35	Recent advances in direct air capture by adsorption. <i>Chemical Society Reviews</i> , 2022, 51, 6574-6651.	38.1	89
36	High-Efficiency, Mass-Produced, and Colored Solar Photovoltaics Enabled by Self-Assembled Photonic Glass. <i>ACS Nano</i> , 2022, 16, 11473-11482.	14.6	11

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37	Sorption-based atmospheric water harvesting: Filling the gap between material and system. Resources, Conservation and Recycling, 2022, 185, 106521.	10.8	4
38	Numerical simulation of underground seasonal cold energy storage for a 10 MW solar thermal power plant in north-western China using TRNSYS. Frontiers in Energy, 2021, 15, 328-344.	2.3	5
39	Experimental study of heat and mass transfer for ammonia-water falling film absorption on novel S-shaped capillary tubes bundle. International Journal of Heat and Mass Transfer, 2021, 164, 120606.	4.8	10
40	Dehydration kinetics and thermodynamics of magnesium chloride hexahydrate for thermal energy storage. Solar Energy Materials and Solar Cells, 2021, 219, 110819.	6.2	36
41	A novel semi-coupled solid desiccant heat pump system Part 2: Experimental investigation. International Journal of Refrigeration, 2021, 121, 86-94.	3.4	8
42	Vapor compression heat pumps with pure Low-GWP refrigerants. Renewable and Sustainable Energy Reviews, 2021, 138, 110571.	16.4	101
43	Experimental investigation on performance of desiccant coated microchannel heat exchangers under condensation conditions. Energy and Buildings, 2021, 231, 110622.	6.7	18
44	Application analysis of adsorption refrigeration system for solar and data center waste heat utilization. Energy Conversion and Management, 2021, 228, 113564.	9.2	34
45	Design of steam-assisted temperature vacuum-swing adsorption processes for efficient CO <sub>2</sub> capture from ambient air. Renewable and Sustainable Energy Reviews, 2021, 137, 110651.	16.4	50
46	Transparent and Colored Solar Photovoltaics for Building Integration. Solar Rrl, 2021, 5, 2000614.	5.8	27
47	Development of Solid Composite Sorbents. Engineering Materials, 2021, , 15-42.	0.6	1
48	Properties of Solid Composite Sorbents. Engineering Materials, 2021, , 43-95.	0.6	1
49	Ultrahigh solar-driven atmospheric water production enabled by scalable rapid-cycling water harvester with vertically aligned nanocomposite sorbent. Energy and Environmental Science, 2021, 14, 5979-5994.	30.8	170
50	Kinetics of Solid Composite Sorbents. Engineering Materials, 2021, , 97-127.	0.6	1
51	Solid Sorption Cycle for Refrigeration, Water Production, Eliminating NO <sub>x</sub> Emission and Heat Transfer. Engineering Materials, 2021, , 129-227.	0.6	0
52	Efficient Sensor Placement for Signal Reconstruction Based on Recursive Methods. IEEE Transactions on Signal Processing, 2021, 69, 1885-1898.	5.3	17
53	Energy grade splitting of hot water via a double effect absorption heat transformer. Energy Conversion and Management, 2021, 230, 113821.	9.2	6
54	Analysis and Perspective on Heat Pump for Industrial Steam Generation. Advanced Energy and Sustainability Research, 2021, 2, 2000108.	5.8	6

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55	Planning of a distributed integrated cooling system in reducing the peak power consumption. Energy Reports, 2021, 7, 458-468.	5.1	1
56	Dual-Functional Aligned and Interconnected Graphite Nanoplatelet Networks for Accelerating Solar Thermal Energy Harvesting and Storage within Phase Change Materials. ACS Applied Materials & Interfaces, 2021, 13, 19200-19210.	8.0	53
57	Enlarged temperature lift of hybrid compression-absorption heat transformer via deep thermal coupling. Energy Conversion and Management, 2021, 234, 113954.	9.2	14
58	Ultrahigh-Energy-Density Sorption Thermal Battery Enabled by Graphene Aerogel-Based Composite Sorbents for Thermal Energy Harvesting from Air. ACS Energy Letters, 2021, 6, 1795-1802.	17.4	82
59	Theoretical performance assessment of low-GWP refrigerant R1233zd(E) applied in high temperature heat pump system. International Journal of Refrigeration, 2021, 131, 897-908.	3.4	22
60	Enhanced stability and hydrophobicity of LiX@ZIF-8 composite synthesized environmental friendly for CO2 capture in highly humid flue gas. Chemical Engineering Journal, 2021, 410, 128322.	12.7	22
61	Design principles for synthesizing high grade activated carbons for adsorption heat pumps. Chemical Engineering Journal Advances, 2021, 6, 100086.	5.2	10
62	Multi-functional three-phase sorption solar thermal energy storage cycles for cooling, heating, and heat transformer. Applied Thermal Engineering, 2021, 189, 116765.	6.0	19
63	Identification of Existing Challenges and Future Trends for the Utilization of Ammonia-Water Absorption-Compression Heat Pumps at High Temperature Operation. Applied Sciences (Switzerland), 2021, 11, 4635.	2.5	6
64	Air-cooled adsorption-based device for harvesting water from island air. Renewable and Sustainable Energy Reviews, 2021, 141, 110802.	16.4	50
65	Data-driven sensor placement for efficient thermal field reconstruction. Science China Technological Sciences, 2021, 64, 1981-1994.	4.0	19
66	Field synergy analysis on heat and moisture transfer processes of desiccant coated heat exchanger. International Journal of Thermal Sciences, 2021, 164, 106889.	4.9	12
67	Thermal conductivity measurement of an individual millimeter-long expanded graphite ribbon using a variable-length T-type method. International Journal of Heat and Mass Transfer, 2021, 171, 121115.	4.8	12
68	An air-source hybrid absorption-compression heat pump with large temperature lift. Applied Energy, 2021, 291, 116810.	10.1	31
69	Distributed solar desalination by membrane distillation: current status and future perspectives. Water Research, 2021, 198, 117154.	11.3	50
70	Ammoniated salt based solid sorption thermal batteries: A comparative study. Applied Thermal Engineering, 2021, 191, 116875.	6.0	7
71	A vapor compression-adsorption thermal management system for electric vehicle: Concept and working fluid pairs. Energy Conversion and Management, 2021, 238, 114168.	9.2	9
72	Adsorption-based atmospheric water harvesting. Joule, 2021, 5, 1678-1703.	24.0	165

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73	Exergy-efficient boundary and design guidelines for atmospheric water harvesters with nano-porous sorbents. <i>Nano Energy</i> , 2021, 85, 105977.	16.0	43
74	Modified layered double hydroxides for efficient and reversible carbon dioxide capture from air. <i>Cell Reports Physical Science</i> , 2021, 2, 100484.	5.6	15
75	Form-stable phase change composites: Preparation, performance, and applications for thermal energy conversion, storage and management. <i>Energy Storage Materials</i> , 2021, 42, 380-417.	18.0	182
76	Air-source heat pump heating based water vapor compression for localized steam sterilization applications during the COVID-19 pandemic. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 145, 111026.	16.4	16
77	Selection and validation on low-GWP refrigerants for a water-source heat pump. <i>Applied Thermal Engineering</i> , 2021, 193, 116938.	6.0	15
78	Model Predictive Control of Solar PV-Powered Ice-Storage Air-Conditioning System Considering Forecast Uncertainties. <i>IEEE Transactions on Sustainable Energy</i> , 2021, 12, 1672-1683.	8.8	11
79	Thermal resistance-capacitance network model for fast simulation on the desiccant coated devices used for effective electronic cooling. <i>International Journal of Refrigeration</i> , 2021, 131, 78-86.	3.4	14
80	Towards high-performance sorption cold energy storage and transmission with ionic liquid absorbents. <i>Energy Conversion and Management</i> , 2021, 241, 114296.	9.2	12
81	Understanding the transient behavior of the dew point evaporative cooler from the first and second law of thermodynamics. <i>Energy Conversion and Management</i> , 2021, 244, 114471.	9.2	13
82	Prediction of residential district heating load based on machine learning: A case study. <i>Energy</i> , 2021, 231, 120950.	8.8	45
83	Passive day and night heating for zero energy buildings with solar-based adsorption thermal battery. <i>Cell Reports Physical Science</i> , 2021, 2, 100578.	5.6	19
84	A regulation strategy of sorbent stepwise position for boosting atmospheric water harvesting in arid area. <i>Cell Reports Physical Science</i> , 2021, 2, 100561.	5.6	28
85	A dynamic model for predicting condensation heat and mass transfer characteristics in falling film condenser. <i>International Journal of Heat and Mass Transfer</i> , 2021, 176, 121434.	4.8	2
86	Investigation of a high-efficient hybrid adsorption refrigeration system using desiccant coated heat exchangers. <i>Energy Conversion and Management</i> , 2021, 246, 114654.	9.2	9
87	Desiccant coated heat exchanger and its applications. <i>International Journal of Refrigeration</i> , 2021, 130, 217-232.	3.4	19
88	Highly conductive phase change composites enabled by vertically-aligned reticulated graphite nanoplatelets for high-temperature solar photo/electro-thermal energy conversion, harvesting and storage. <i>Nano Energy</i> , 2021, 89, 106338.	16.0	153
89	Performance analysis of seasonal soil heat storage system based on numerical simulation and experimental investigation. <i>Renewable Energy</i> , 2021, 178, 66-78.	8.9	5
90	Easily-synthesized and low-cost amine-functionalized silica sol-coated structured adsorbents for CO <sub>2</sub> capture. <i>Chemical Engineering Journal</i> , 2021, 425, 131409.	12.7	20

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91	Solid Sorption Cycle for Energy Storage, Electricity Generation and Cogeneration. <i>Engineering Materials</i> , 2021, , 229-278.	0.6	0
92	Bioinspired topological design of super hygroscopic complex for cost-effective atmospheric water harvesting. <i>Nano Energy</i> , 2021, 90, 106642.	16.0	57
93	Photoswitchable phase change materials for unconventional thermal energy storage and upgrade. <i>Matter</i> , 2021, 4, 3385-3399.	10.0	46
94	High-yield solar-driven atmospheric water harvesting with ultra-high salt content composites encapsulated in porous membrane. <i>Cell Reports Physical Science</i> , 2021, 2, 100664.	5.6	52
95	Experimental investigation on the performance of a very high temperature heat pump with water refrigerant. <i>Energy</i> , 2020, 190, 116427.	8.8	37
96	A mathematical model to predict the performance of desiccant coated evaporators and condensers. <i>International Journal of Refrigeration</i> , 2020, 109, 188-207.	3.4	31
97	Seawater heat pumps in China, a spatial analysis. <i>Energy Conversion and Management</i> , 2020, 203, 112240.	9.2	23
98	Towards a thermodynamically favorable dew point evaporative cooler via optimization. <i>Energy Conversion and Management</i> , 2020, 203, 112224.	9.2	27
99	Thermophysical heat storage for cooling, heating, and power generation: A review. <i>Applied Thermal Engineering</i> , 2020, 166, 114728.	6.0	46
100	A novel 3-D model of an industrial-scale tube-fin latent heat storage using salt hydrates with supercooling: A model validation. <i>Energy</i> , 2020, 213, 118852.	8.8	8
101	Experimental validation of an advanced heat pump system with high-efficiency centrifugal compressor. <i>Energy</i> , 2020, 213, 118968.	8.8	10
102	Feasibility study of an off-grid container unit for industrial construction. <i>Sustainable Cities and Society</i> , 2020, 61, 102335.	10.4	7
103	Efficient CO <sub>2</sub> capture from ambient air with amine-functionalized Mg-Al mixed metal oxides. <i>Journal of Materials Chemistry A</i> , 2020, 8, 16421-16428.	10.3	58
104	A novel semi-coupled solid desiccant heat pump system - Part 1: Simulation study. <i>International Journal of Refrigeration</i> , 2020, 120, 150-160.	3.4	6
105	Near-Zero-Energy Smart Battery Thermal Management Enabled by Sorption Energy Harvesting from Air. <i>ACS Central Science</i> , 2020, 6, 1542-1554.	11.3	81
106	Investigation on humidification performance of silica gel rotary wheel system in winter. <i>Building and Environment</i> , 2020, 183, 107064.	6.9	6
107	Highly thermally conductive and flexible phase change composites enabled by polymer/graphite nanoplatelet-based dual networks for efficient thermal management. <i>Journal of Materials Chemistry A</i> , 2020, 8, 20011-20020.	10.3	178
108	Air-Source Heat Pump for Distributed Steam Generation: A New and Sustainable Solution to Replace Coal-Fired Boilers in China. <i>Advanced Sustainable Systems</i> , 2020, 4, 2000118.	5.3	20

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109	Performance study of affine transformation and the advanced clear-sky model to improve intra-day solar forecasts. <i>Journal of Renewable and Sustainable Energy</i> , 2020, 12, 043703.	2.0	7
110	Solar PV Powered Heating and Cooling. , 2020, , .		2
111	Research and development of a permanent-magnet synchronous frequency-convertible centrifugal compressor. <i>International Journal of Refrigeration</i> , 2020, 117, 33-43.	3.4	9
112	Demonstration of Mg(NO <sub>3</sub> ) <sub>2</sub> ·6H <sub>2</sub> O-based composite phase change material for practical-scale medium-low temperature thermal energy storage. <i>Energy</i> , 2020, 201, 117711.	8.8	9
113	Double-section absorption heat pump for the deep recovery of low-grade waste heat. <i>Energy Conversion and Management</i> , 2020, 220, 113072.	9.2	36
114	Solar powered atmospheric water harvesting with enhanced LiCl /MgSO <sub>4</sub> /ACF composite. <i>Applied Thermal Engineering</i> , 2020, 176, 115396.	6.0	63
115	The performance comparison of high temperature heat pump among R718 and other refrigerants. <i>Renewable Energy</i> , 2020, 154, 715-722.	8.9	30
116	Dehumidification assessment for desiccant coated heat exchanger systems in different buildings and climates: Fast choice of desiccants. <i>Energy and Buildings</i> , 2020, 221, 110083.	6.7	17
117	Sorption thermal energy storage: Concept, process, applications and perspectives. <i>Energy Storage Materials</i> , 2020, 27, 352-369.	18.0	152
118	Composite “LiCl/MWCNT/PVA” for adsorption thermal battery: Dynamics of methanol sorption. <i>Renewable and Sustainable Energy Reviews</i> , 2020, 123, 109748.	16.4	12
119	Super Atmospheric Water Harvesting Hydrogel with Alginate Chains Modified with Binary Salts. , 2020, 2, 471-477.		137
120	Experimental study on a double-stage absorption solar thermal storage system with enhanced energy storage density. <i>Applied Energy</i> , 2020, 262, 114476.	10.1	37
121	Thermal energy storage using absorption cycle and system: A comprehensive review. <i>Energy Conversion and Management</i> , 2020, 206, 112482.	9.2	79
122	A Thermal Management Strategy for Electronic Devices Based on Moisture Sorption-Desorption Processes. <i>Joule</i> , 2020, 4, 435-447.	24.0	150
123	Efficient Solar-Driven Water Harvesting from Arid Air with Metal-Organic Frameworks Modified by Hygroscopic Salt. <i>Angewandte Chemie</i> , 2020, 132, 5240-5248.	2.0	11
124	Air humidity assisted sorption thermal battery governed by reaction wave model. <i>Energy Storage Materials</i> , 2020, 27, 9-16.	18.0	50
125	Ultrahigh-efficiency desalination via a thermally-localized multistage solar still. <i>Energy and Environmental Science</i> , 2020, 13, 830-839.	30.8	317
126	Efficient Solar-Driven Water Harvesting from Arid Air with Metal-Organic Frameworks Modified by Hygroscopic Salt. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 5202-5210.	13.8	231



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127	Latent heat thermal storage using salt hydrates for distributed building heating: A multi-level scale-up research. <i>Renewable and Sustainable Energy Reviews</i> , 2020, 121, 109712.	16.4	31
128	Graphic general solutions for desiccant coated heat exchangers based on dimensional analysis. <i>International Journal of Heat and Mass Transfer</i> , 2020, 154, 119654.	4.8	13
129	Patent-based trend analysis for advanced thermal energy storage technologies and their applications. <i>International Journal of Energy Research</i> , 2020, 44, 5093-5116.	4.5	9
130	Nodal-pressure-based heating flow model for analyzing heating networks in integrated energy systems. <i>Energy Conversion and Management</i> , 2020, 206, 112491.	9.2	11
131	MATLAB/FLUENT Co-optimization Framework for Power Budget Allocation of Mobile Devices. , 2020, , .		1
132	Performance simulation of underground seasonal solar energy storage in hot summer and cold winter zone in china. <i>Science and Technology for the Built Environment</i> , 2019, 25, 925-934.	1.7	2
133	Multi-function thermal system with natural refrigerant for a wide temperature range. <i>Applied Thermal Engineering</i> , 2019, 162, 114189.	6.0	3
134	Modifying water sorption properties with polymer additives for atmospheric water harvesting applications. <i>Applied Thermal Engineering</i> , 2019, 161, 114109.	6.0	42
135	High energy-density multi-form thermochemical energy storage based on multi-step sorption processes. <i>Energy</i> , 2019, 185, 1131-1142.	8.8	60
136	Extraordinary air water harvesting performance with three phase sorption. <i>Materials Today Energy</i> , 2019, 13, 362-373.	4.7	37
137	An adaptive PID control method to improve the power tracking performance of solar photovoltaic air-conditioning systems. <i>Renewable and Sustainable Energy Reviews</i> , 2019, 113, 109250.	16.4	26
138	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.	9.2	13
139	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.	21.0	298
140	Enhanced sorption heat transportation cycles with large concentration glide. <i>Energy Conversion and Management</i> , 2019, 201, 112145.	9.2	10
141	Vegetal fiber paper matrix impregnated with silica gel for benzene removal. <i>Indoor Air</i> , 2019, 29, 943-955.	4.3	7
142	Experimental study of an adsorption chiller for extra low temperature waste heat utilization. <i>Applied Thermal Engineering</i> , 2019, 163, 114341.	6.0	46
143	On the dimensional analysis of a cross-flow flat-plate membrane liquid desiccant dehumidifier. <i>Energy Procedia</i> , 2019, 158, 1467-1472.	1.8	4
144	Perspectives for short-term thermal energy storage using salt hydrates for building heating. <i>Energy</i> , 2019, 189, 116139.	8.8	37

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145	Modeling and simulation of a falling film evaporator for a water vapor heat pump system. Applied Energy, 2019, 255, 113851.	10.1	10
146	Heat and mass transfer comparisons of desiccant coated microchannel and fin-and-tube heat exchangers. Applied Thermal Engineering, 2019, 150, 1159-1167.	6.0	38
147	Development and thermal characteristics of a novel composite oleic acid for cold storage. International Journal of Refrigeration, 2019, 100, 55-62.	3.4	10
148	Water sorption properties, diffusion and kinetics of zeolite NaX modified by ion-exchange and salt impregnation. International Journal of Heat and Mass Transfer, 2019, 139, 990-999.	4.8	24
149	On the in-depth scaling and dimensional analysis of a cross-flow membrane liquid desiccant dehumidifier. Applied Energy, 2019, 250, 786-800.	10.1	22
150	A Moisture-Penetrating Humidity Pump Directly Powered by One-Sun Illumination. IScience, 2019, 15, 502-513.	4.1	28
151	Sustainable agriculture for water-stressed regions by air-water-energy management. Energy, 2019, 181, 1121-1128.	8.8	25
152	Investigation on advanced heat pump systems with improved energy efficiency. Energy Conversion and Management, 2019, 192, 161-170.	9.2	25
153	Experimental investigation of an adsorption air-conditioner using silica gel-water working pair. Solar Energy, 2019, 185, 64-71.	6.1	35
154	Advanced thermochemical resorption heat transformer for high-efficiency energy storage and heat transformation. Energy, 2019, 175, 1222-1233.	8.8	19
155	A Full-Solid-State Humidity Pump for Localized Humidity Control. Joule, 2019, 3, 1427-1436.	24.0	44
156	High energy-density and power-density thermal storage prototype with hydrated salt for hot water and space heating. Applied Energy, 2019, 248, 406-414.	10.1	56
157	Perspectives on industrialized transportable solar powered zero energy buildings. Renewable and Sustainable Energy Reviews, 2019, 108, 112-124.	16.4	27
158	A unified single stage ammonia-water absorption system configuration with producing best thermal efficiencies for freezing, air-conditioning and space heating applications. Energy, 2019, 174, 1039-1048.	8.8	12
159	Investigation on novel desiccant wheel using wood pulp fiber paper with high coating ratio as matrix. Energy, 2019, 176, 493-504.	8.8	14
160	Investigation on energy consumption of desiccant coated heat exchanger based heat pump: Limitation of adsorption heat of desiccant. Energy Conversion and Management, 2019, 188, 473-479.	9.2	22
161	Perspectives for low-temperature waste heat recovery. Energy, 2019, 176, 1037-1043.	8.8	189
162	Mechanism of hysteresis for composite multi-halide and its superior performance for low grade energy recovery. Scientific Reports, 2019, 9, 1563.	3.3	17

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163	Thermally-pressurized sorption heat storage cycle with low charging temperature. Energy, 2019, 189, 116304.	8.8	12
164	Performance investigation of a freezing system with novel multi-salt sorbent for refrigerated truck. International Journal of Refrigeration, 2019, 98, 129-138.	3.4	14
165	Performance characterizations and thermodynamic analysis of magnesium sulfate-impregnated zeolite 13X and activated alumina composite sorbents for thermal energy storage. Energy, 2019, 167, 889-901.	8.8	53
166	Absorption seasonal thermal storage cycle with high energy storage density through multi-stage output. Energy, 2019, 167, 1086-1096.	8.8	41
167	Performance evaluation of different heating terminals used in air source heat pump system. International Journal of Refrigeration, 2019, 98, 274-282.	3.4	42
168	Extremely high efficient heat pump with desiccant coated evaporator and condenser. Energy, 2019, 170, 569-579.	8.8	38
169	Experimental investigation on performance of a novel composite desiccant coated heat exchanger in summer and winter seasons. Energy, 2019, 166, 506-518.	8.8	42
170	Microstructure and sorption performance of consolidated composites impregnated with LiCl. International Journal of Refrigeration, 2019, 98, 452-458.	3.4	13
171	Modeling and simulation on a water vapor high temperature heat pump system. Energy, 2019, 168, 1063-1072.	8.8	41
172	Solar PV-Battery-Electric Grid-Based Energy System for Residential Applications: System Configuration and Viability. Research, 2019, 2019, 3838603.	5.7	33
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