

Wei Wu

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

92
papers

1,861
citations

26
h-index

40
g-index

96
ext. papers

2,442
ext. citations

7.6
avg, IF

5.89
L-index

#	Paper	IF	Citations
92	Parametric and comparative study on enhanced microchannel membrane-based absorber structures for compact absorption refrigeration. <i>Renewable Energy</i> , 2022 , 187, 109-122	8.1	0
91	Multi-scale Computer-aided molecular design of Ionic liquid for absorption heat transformer based on Machine learning. <i>Energy Conversion and Management</i> , 2022 , 261, 115617	10.6	0
90	Exploring low-grade heat in exhaust gases with moisture via power generation cycles. <i>Journal of Cleaner Production</i> , 2022 , 357, 131892	10.3	1
89	On the rational development of advanced thermochemical thermal batteries for short-term and long-term energy storage. <i>Renewable and Sustainable Energy Reviews</i> , 2022 , 164, 112557	16.2	0
88	Multi-objective optimization of a microchannel membrane-based absorber with inclined grooves based on CFD and machine learning. <i>Energy</i> , 2021 , 122809	7.9	0
87	Cascade heat utilisation via integrated organic Rankine cycle and compressor-assisted absorption heat pump system. <i>Energy Conversion and Management</i> , 2021 , 249, 114850	10.6	1
86	Performance investigation and enhancement of membrane-contactor microchannel absorber towards compact absorption cooling. <i>International Journal of Heat and Mass Transfer</i> , 2021 , 169, 120978	4.9	10
85	A novel distributed energy system using high-temperature proton exchange membrane fuel cell integrated with hybrid-energy heat pump. <i>Energy Conversion and Management</i> , 2021 , 235, 113990	10.6	6
84	Residential Net-Zero Energy Buildings: Review and Perspective. <i>Renewable and Sustainable Energy Reviews</i> , 2021 , 142,	16.2	42
83	Ionic liquids for microchannel membrane-based absorption heat pumps: Performance comparison and geometry optimization. <i>Energy Conversion and Management</i> , 2021 , 239, 114213	10.6	5
82	Heat and mass transfer performance comparison of various absorbers/desorbers towards compact and efficient absorption heat pumps. <i>International Journal of Refrigeration</i> , 2021 , 127, 203-220	3.8	10
81	Multicriteria comprehensive evaluation framework for industrial park-level distributed energy system considering weights uncertainties. <i>Journal of Cleaner Production</i> , 2021 , 282, 124530	10.3	6
80	Comparative dynamic performance of hybrid absorption thermal batteries using H ₂ O/1,3-dimethylimidazolium dimethylphosphate. <i>Energy Conversion and Management</i> , 2021 , 228, 113690	10.6	7
79	A hybrid compression-assisted absorption thermal battery with high energy storage density/efficiency and low charging temperature. <i>Applied Energy</i> , 2021 , 282, 116068	10.7	10
78	Geometry optimization of plate heat exchangers as absorbers in compact absorption refrigeration systems using H ₂ O/ionic liquids. <i>Applied Thermal Engineering</i> , 2021 , 186, 116554	5.8	7
77	Advanced/hybrid thermal energy storage technology: material, cycle, system and perspective. <i>Renewable and Sustainable Energy Reviews</i> , 2021 , 145, 111088	16.2	17
76	Experiments and exergy analysis for a carbon dioxide ground-source heat pump in cooling mode. <i>International Journal of Refrigeration</i> , 2021 , 131, 920-920	3.8	0

75	Performance optimization and comparison towards compact and efficient absorption refrigeration system with conventional and emerging absorbers/desorbers. <i>Energy</i> , 2021 , 229, 120669	7.9	2
74	Energetic, exergetic, economic, and environmental analysis of microchannel membrane-based absorption refrigeration system driven by various energy sources. <i>Energy</i> , 2021 , 239, 122193	7.9	4
73	A hybrid H ₂ O/IL absorption and CO ₂ compression air-source heat pump for ultra-low ambient temperatures. <i>Energy</i> , 2021 , 122180	7.9	2
72	Modeling and experiments for a CO ₂ ground-source heat pump with subcritical and transcritical operation. <i>Energy Conversion and Management</i> , 2021 , 243, 114420	10.6	2
71	Swirling flow for performance improvement of a microchannel membrane-based absorber with discrete inclined grooves. <i>International Journal of Refrigeration</i> , 2021 , 130, 382-391	3.8	3
70	Membrane-based absorption cooling and heating: Development and perspectives. <i>Renewable Energy</i> , 2021 , 177, 663-688	8.1	0
69	Hybrid photovoltaic/thermal and ground source heat pump: Review and perspective. <i>Renewable and Sustainable Energy Reviews</i> , 2021 , 151, 111569	16.2	6
68	Proton exchange membrane fuel cell integrated with microchannel membrane-based absorption cooling for hydrogen vehicles. <i>Renewable Energy</i> , 2021 , 178, 560-573	8.1	4
67	Dynamic simulation and parametric study of solar water heating system with phase change materials in different climate zones. <i>Solar Energy</i> , 2020 , 205, 399-408	6.8	16
66	Comparative analysis of conventional and low-GWP refrigerants with ionic liquid used for compression-assisted absorption cooling cycles. <i>Applied Thermal Engineering</i> , 2020 , 172, 115145	5.8	25
65	Dynamic characteristics and performance improvement of a high-efficiency double-effect thermal battery for cooling and heating. <i>Applied Energy</i> , 2020 , 264, 114768	10.7	9
64	A novel hybrid-energy heat pump with refrigerant injection: Performance characterization and injection optimization. <i>Energy Conversion and Management</i> , 2020 , 208, 112584	10.6	10
63	Advances in Novel Working Fluids for Absorption Heat Pump 2020 , 211-236		
62	Absorption Heating Technologies: Summaries and Perspectives 2020 , 261-266		
61	Characteristics of Conventional Heating Technologies 2020 , 1-19		
60	Fundamentals of Absorption Heating Technologies 2020 , 21-74		
59	Advances in Waste Heat and Renewable Energy Utilization 2020 , 237-259		
58	Performance Improvement of Absorption Heat Pump 2020 , 109-145		

57	Hybrid Ground Source Absorption Heat Pump System 2020 , 167-210		
56	Low Evaporation Temperature Absorption Heat Pump 2020 , 75-108		
55	Low-temperature compression-assisted absorption thermal energy storage using ionic liquids. <i>Energy and Built Environment</i> , 2020 , 1, 139-148	6.3	15
54	Screening of novel water/ionic liquid working fluids for absorption thermal energy storage in cooling systems. <i>International Journal of Energy Research</i> , 2020 , 44, 9367-9381	4.5	12
53	Assessing the energy and indoor-PM2.5-exposure impacts of control strategies for residential energy recovery ventilators. <i>Journal of Building Engineering</i> , 2020 , 29, 101137	5.2	5
52	Combination principle of hybrid sources and three typical types of hybrid source heat pumps for year-round efficient operation. <i>Energy</i> , 2020 , 193, 116772	7.9	6
51	Transient and seasonal performance evaluation of a novel flexible heat pump for solar cooling. <i>Energy Conversion and Management</i> , 2020 , 223, 113269	10.6	5
50	Absorption Heating Technologies 2020 ,		1
49	Performance of Ground Source Absorption Heat Pump 2020 , 147-165		
48	Performance analysis of R1234yf/ionic liquid working fluids for single-effect and compression-assisted absorption refrigeration systems. <i>International Journal of Refrigeration</i> , 2020 , 109, 25-36	3.8	27
47	Experimental comparisons on a gas engine heat pump using R134a and low-GWP refrigerant R152a. <i>International Journal of Refrigeration</i> , 2020 , 115, 73-82	3.8	10
46	Novel ionic-liquid-based low-GWP working fluids used for hybrid low-temperature absorption cooling. <i>Energy Procedia</i> , 2019 , 158, 1620-1625	2.3	6
45	Charging and discharging characteristics of absorption thermal energy storage using ionic-liquid-based working fluids. <i>Energy</i> , 2019 , 189, 116126	7.9	21
44	Performance comparisons of NH ₃ /ionic liquid absorption-compression heat pump for increasing the utilization of geothermal energy. <i>International Journal of Refrigeration</i> , 2019 , 104, 19-33	3.8	11
43	Experimental investigation on NH ₃ -H ₂ O generator-absorber heat exchange (GAX) absorption heat pump. <i>Energy</i> , 2019 , 185, 337-349	7.9	3
42	Performance analysis on compression-assisted absorption heat transformer: A new low-temperature heating system with higher heating capacity under lower ambient temperature. <i>Applied Thermal Engineering</i> , 2018 , 134, 419-427	5.8	8
41	Selecting HVAC Systems to Achieve Comfortable and Cost-effective Residential Net-Zero Energy Buildings. <i>Applied Energy</i> , 2018 , 212, 577-591	10.7	65
40	Comparisons of different ionic liquids combined with trans-1,3,3,3-tetrafluoropropene (R1234ze(E)) as absorption working fluids. <i>International Journal of Refrigeration</i> , 2018 , 88, 45-57	3.8	32

39	Helmholtz free energy equation of state for propane and R134a binary mixture. <i>International Journal of Refrigeration</i> , 2018 , 89, 1-10	3.8	7
38	A novel internally hybrid absorption-compression heat pump for performance improvement. <i>Energy Conversion and Management</i> , 2018 , 168, 237-251	10.6	29
37	Net-zero Nation: HVAC and PV Systems for Residential Net-Zero Energy Buildings across the United States. <i>Energy Conversion and Management</i> , 2018 , 177,	10.6	56
36	Gaseous densities of 2,3,3,3-tetrafluoroprop-1-ene (R1234yf) and isobutane (R600a) binary system: Measurements and a preliminary Helmholtz equation of state. <i>International Journal of Refrigeration</i> , 2018 , 95, 28-37	3.8	2
35	Progress in Ground-source Heat Pumps Using Natural Refrigerants. <i>International Journal of Refrigeration</i> , 2018 , 92, 70-70	3.8	31
34	Compression-assisted absorption cycles using ammonia and various ionic liquids for cleaner heating. <i>Journal of Cleaner Production</i> , 2018 , 195, 890-907	10.3	25
33	Configurations of solar air source absorption heat pump and comparisons with conventional solar heating. <i>Applied Thermal Engineering</i> , 2018 , 141, 630-641	5.8	19
32	Energy-saving analysis of a hybrid power-driven heat pump system. <i>Applied Thermal Engineering</i> , 2017 , 123, 1050-1059	5.8	15
31	Coupled heating of ground-coupled heat pump system with heat compensation unit: Performance improvement and borehole reduction. <i>Energy Conversion and Management</i> , 2017 , 148, 57-67	10.6	20
30	Thermodynamic Investigation and Comparison of Absorption Cycles Using Hydrofluoroolefins and Ionic Liquid. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 9906-9916	3.9	30
29	Performance comparison of absorption heating cycles using various low-GWP and natural refrigerants. <i>International Journal of Refrigeration</i> , 2017 , 82, 56-70	3.8	26
28	Performance Comparison between an Absorption-compression Hybrid Refrigeration System and a Double-effect Absorption Refrigeration System. <i>Procedia Engineering</i> , 2017 , 205, 241-247		6
27	Dynamic Performance Analysis for an Absorption Chiller under Different Working Conditions. <i>Applied Sciences (Switzerland)</i> , 2017 , 7, 797	2.6	9
26	NH ₃ -H ₂ O water source absorption heat pump (WSAHP) for low temperature heating: Experimental investigation on the off-design performance. <i>Energy</i> , 2016 , 115, 697-710	7.9	19
25	Performance analysis of an absorption-compression hybrid refrigeration system recovering condensation heat for generation. <i>Applied Thermal Engineering</i> , 2016 , 108, 54-65	5.8	22
24	Experimental investigation on NH ₃ -H ₂ O compression-assisted absorption heat pump (CAHP) for low temperature heating under lower driving sources. <i>Applied Energy</i> , 2016 , 176, 258-271	10.7	37
23	An overview of the problems and solutions of soil thermal imbalance of ground-coupled heat pumps in cold regions. <i>Applied Energy</i> , 2016 , 177, 515-536	10.7	91
22	Experimental investigation on NH ₃ -H ₂ O compression-assisted absorption heat pump (CAHP) for low temperature heating in colder conditions. <i>International Journal of Refrigeration</i> , 2016 , 67, 109-124	3.8	25

21	Hybrid ground source absorption heat pump in cold regions: Thermal balance keeping and borehole number reduction. <i>Applied Thermal Engineering</i> , 2015 , 90, 322-334	5.8	27
20	Heat recovery from Internet data centers for space heating based on an integrated air conditioner with thermosyphon. <i>Renewable Energy</i> , 2015 , 80, 396-406	8.1	31
19	Air source absorption heat pump in district heating: Applicability analysis and improvement options. <i>Energy Conversion and Management</i> , 2015 , 96, 197-207	10.6	21
18	Annual performance investigation and economic analysis of heating systems with a compression-assisted air source absorption heat pump. <i>Energy Conversion and Management</i> , 2015 , 98, 290-302	10.6	27
17	Combining ground source absorption heat pump with ground source electrical heat pump for thermal balance, higher efficiency and better economy in cold regions. <i>Renewable Energy</i> , 2015 , 84, 74-88	8.1	41
16	A new ground-coupled heat pump system integrated with a multi-mode air-source heat compensator to eliminate thermal imbalance in cold regions. <i>Energy and Buildings</i> , 2015 , 107, 103-112	7	42
15	Performance analysis of hybrid ground-coupled heat pump system with multi-functions. <i>Energy Conversion and Management</i> , 2015 , 92, 47-59	10.6	39
14	An overview of ammonia-based absorption chillers and heat pumps. <i>Renewable and Sustainable Energy Reviews</i> , 2014 , 31, 681-707	16.2	105
13	Simulation of a combined heating, cooling and domestic hot water system based on ground source absorption heat pump. <i>Applied Energy</i> , 2014 , 126, 113-122	10.7	59
12	A new solution for underground thermal imbalance of ground-coupled heat pump systems in cold regions: Heat compensation unit with thermosyphon. <i>Applied Thermal Engineering</i> , 2014 , 64, 283-292	5.8	60
11	Techno-economic analysis of air source absorption heat pump: Improving economy from a design perspective. <i>Energy and Buildings</i> , 2014 , 81, 200-210	7	24
10	Evaluation of ground source absorption heat pumps combined with borehole free cooling. <i>Energy Conversion and Management</i> , 2014 , 79, 334-343	10.6	48
9	Absorption heating technologies: A review and perspective. <i>Applied Energy</i> , 2014 , 130, 51-71	10.7	132
8	Dynamic Soil Temperature of Ground-Coupled Heat Pump System in Cold Region. <i>Lecture Notes in Electrical Engineering</i> , 2014 , 439-448	0.2	3
7	Energy-Efficient Heating and Domestic Hot Water Systems Suitable for Different Regions. <i>Lecture Notes in Electrical Engineering</i> , 2014 , 601-607	0.2	
6	A potential solution for thermal imbalance of ground source heat pump systems in cold regions: Ground source absorption heat pump. <i>Renewable Energy</i> , 2013 , 59, 39-48	8.1	81
5	A new heating system based on coupled air source absorption heat pump for cold regions: Energy saving analysis. <i>Energy Conversion and Management</i> , 2013 , 76, 811-817	10.6	34
4	Crystallization Analysis and Control of Ammonia-Based Air Source Absorption Heat Pump in Cold Regions. <i>Advances in Mechanical Engineering</i> , 2013 , 5, 140341	1.2	19

3	Energy saving potential of low temperature hot water system based on air source absorption heat pump. <i>Applied Thermal Engineering</i> , 2012 , 48, 317-324	5.8	57
2	Comparisons of different working pairs and cycles on the performance of absorption heat pump for heating and domestic hot water in cold regions. <i>Applied Thermal Engineering</i> , 2012 , 48, 349-358	5.8	64
1	Laboratory tests of a prototype carbon dioxide ground-source air conditioner		2