Baolong Wang

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/10688871/publications.pdf Version: 2024-02-01



RADIONC WANC

#	Article	IF	CITATIONS
1	A modified exergy analysis method for vapor compression systems: Splitting refrigerant exergy destruction. Applied Thermal Engineering, 2022, 201, 117728.	3.0	6
2	Investigation of thermal comfort of room air conditioner during heating season. Building and Environment, 2022, 207, 108544.	3.0	13
3	Precision improvement method for onsite performance measurement of variable refrigerant flow system. Building and Environment, 2022, 208, 108626.	3.0	7
4	Performance simulation and applicability analysis of hybrid air conditioner in cooling season. Building and Environment, 2022, 210, 108692.	3.0	4
5	A computationally efficient scroll compressor model for both single-phase and two-phase compression considering scroll wrap temperature distribution. International Journal of Refrigeration, 2022, 138, 159-168.	1.8	1
6	Experimental investigation on indoor environment and energy performance of convective terminals. Energy, 2022, 251, 123929.	4.5	7
7	Comparative analysis of the energy efficiency of air-conditioner and variable refrigerant flow systems in residential buildings in the Yangtze River region. Journal of Building Engineering, 2022, 55, 104644.	1.6	3
8	A novel integrated index for simultaneous evaluation of the thermal comfort and energy efficiency of air-conditioning systems. Journal of Building Engineering, 2022, 57, 104885.	1.6	5
9	Field performance of household room air conditioners in Yangtze River Region in China: Case studies. Journal of Building Engineering, 2021, 34, 101952.	1.6	9
10	Upper-limit of performance improvement by using (quasi) two-stage vapor compression. Applied Thermal Engineering, 2021, 185, 116426.	3.0	10
11	Experimental investigation of a heat-source tower heat pump with self-regenerator using subcooling heat. Energy and Buildings, 2021, 240, 110858.	3.1	15
12	Methods for performance metering of indoor units in variable refrigerant flow systems based on built-in sensors. Applied Thermal Engineering, 2021, 196, 117268.	3.0	7
13	Experimental performance analysis of hybrid air conditioner in cooling season. Building and Environment, 2021, 204, 108160.	3.0	12
14	A general method to evaluate the applicability of natural energy for building cooling and heating: Revised degree hours. Energy and Buildings, 2021, 250, 111277.	3.1	4
15	Performance evaluation of novel double internal auto-cascade two-stage compression system using refrigerant mixtures. Applied Thermal Engineering, 2020, 168, 114898.	3.0	21
16	Experimental study on effects of supply-air humidification on energy and emission performance of domestic gas boilers. Energy and Buildings, 2020, 209, 109726.	3.1	14
17	Combination principle of hybrid sources and three typical types of hybrid source heat pumps for year-round efficient operation. Energy, 2020, 193, 116772.	4.5	18
18	All-condition measuring methods for field performance of room air conditioner. Applied Thermal Engineering, 2020, 180, 115887.	3.0	17

#	Article	IF	CITATIONS
19	Application of optimization method based on discretized thermal energy in condensing heat recovery system of combined heat and power plant. Energy, 2020, 213, 119013.	4.5	4
20	Numerical investigation of the energy efficiency of a serial pipe-embedded external wall system considering water temperature changes in the pipeline. Journal of Building Engineering, 2020, 31, 101435.	1.6	9
21	Effect of installation height of indoor unit on field heating performance of room air conditioner. Journal of Building Engineering, 2020, 32, 101527.	1.6	5
22	Theoretical Analysis of a Novel Two-Stage Compression System Using Refrigerant Mixtures. Environmental Science and Engineering, 2020, , 893-901.	0.1	0
23	Simulation of the performance of a gas-fired hot water system with compression-enhanced ejector heat pump using R152a. Applied Thermal Engineering, 2019, 162, 114159.	3.0	5
24	Experimental investigation on NH3–H2O generator-absorber heat exchange (GAX) absorption heat pump. Energy, 2019, 185, 337-349.	4.5	7
25	Review on recent developments of variable refrigerant flow systems since 2015. Energy and Buildings, 2019, 198, 444-466.	3.1	49
26	Comparative study of two-phase natural circulation and gas-side mechanically driven loop used in air-conditioning systems. Applied Thermal Engineering, 2019, 153, 848-860.	3.0	10
27	Experimental investigation of the regeneration performance of an internally heated regenerator used for heating tower solution regeneration. Energy Conversion and Management, 2019, 189, 184-194.	4.4	19
28	New method for measuring field performance of variable refrigerant flow systems based on compressor set energy conservation. Applied Thermal Engineering, 2019, 154, 530-539.	3.0	21
29	Experimental investigation on closed-type heating tower using glycerol solution. International Journal of Refrigeration, 2019, 99, 272-287.	1.8	11
30	CFD simulation of a rotary compressor with gas injection. IOP Conference Series: Materials Science and Engineering, 2019, 604, 012084.	0.3	1
31	Influence of occupant behavior on the energy performance of variable refrigerant flow systems for office buildings: A case study. Journal of Building Engineering, 2019, 22, 327-334.	1.6	21
32	Optimal volume ratio of two-stage vapour compression system using zeotropic refrigerant. International Journal of Refrigeration, 2019, 98, 343-353.	1.8	9
33	Energy saving potential of fresh air pre-handling system using shallow geothermal energy. Energy and Buildings, 2019, 185, 39-48.	3.1	31
34	Comparison of mechanical vapor recompression technology for solution regeneration in heat-source tower heat pumps. Building Services Engineering Research and Technology, 2019, 40, 360-378.	0.9	8
35	Review of experimentation and modeling of heat and mass transfer performance of fin-and-tube heat exchangers with dehumidification. Applied Thermal Engineering, 2019, 146, 701-717.	3.0	37
36	Performance analysis on compression-assisted absorption heat transformer: A new low-temperature heating system with higher heating capacity under lower ambient temperature. Applied Thermal Engineering, 2018, 134, 419-427.	3.0	15

#	Article	lF	CITATIONS
37	Numerical analysis on the performance of mechanical vapor recompression system for strong sodium chloride solution enrichment. Applied Thermal Engineering, 2018, 137, 386-394.	3.0	24
38	A general distributed parameter model for ground heat exchangers with arbitrary shape and type of heat sources. Energy Conversion and Management, 2018, 164, 667-679.	4.4	13
39	Experimental research on heat and mass transfer characteristics of cross-flow closed-type heat-source tower. Applied Thermal Engineering, 2018, 135, 289-303.	3.0	24
40	A performance evaluation index for two-phase thermosyphon loop used in HVAC systems. Applied Thermal Engineering, 2018, 131, 825-836.	3.0	27
41	An enhanced rotary compressor with gas injection through a novel end-plate injection structure. Applied Thermal Engineering, 2018, 131, 180-191.	3.0	16
42	Optimal design of rotary compressor oriented to end-plate gas injection with check valve. International Journal of Refrigeration, 2018, 88, 516-522.	1.8	8
43	Experimental research on vapor-injected rotary compressor through end-plate injection structure with check valve. International Journal of Refrigeration, 2018, 96, 131-138.	1.8	21
44	Compression-assisted absorption cycles using ammonia and various ionic liquids for cleaner heating. Journal of Cleaner Production, 2018, 195, 890-907.	4.6	34
45	Experimentally comparative study on two-phase natural and pump-driven loop used in HVAC systems. Applied Thermal Engineering, 2018, 142, 321-333.	3.0	27
46	Configurations of solar air source absorption heat pump and comparisons with conventional solar heating. Applied Thermal Engineering, 2018, 141, 630-641.	3.0	31
47	Numerical study of gas injected heat pump using zeotropic R32/R1234ze(E) mixture: Comparison of two type economizers. Applied Thermal Engineering, 2018, 142, 410-420.	3.0	15
48	Simulations of the energy performance of variable refrigerant flow system in representative operation modes for residential buildings in the hot summer and cold winter region in China. Energy and Buildings, 2018, 174, 414-427.	3.1	23
49	A novel internally hybrid absorption-compression heat pump for performance improvement. Energy Conversion and Management, 2018, 168, 237-251.	4.4	42
50	Application of smart models for prediction of the frost layer thickness on vertical cryogenic surfaces under natural convection. Applied Thermal Engineering, 2017, 115, 1128-1136.	3.0	38
51	A fast distributed parameter model of ground heat exchanger based on response factor. Building Simulation, 2017, 10, 183-192.	3.0	6
52	Simulation of recombined household multi-split variable refrigerant flow system with split-type air conditioners. Applied Thermal Engineering, 2017, 117, 343-354.	3.0	18
53	Energy-saving analysis of a hybrid power-driven heat pump system. Applied Thermal Engineering, 2017, 123, 1050-1059.	3.0	22
54	Utilization of ANN and ANFIS models to predict variable speed scroll compressor with vapor injection. International Journal of Refrigeration, 2017, 74, 475-487.	1.8	32

#	Article	IF	CITATIONS
55	Coupled heating of ground-coupled heat pump system with heat compensation unit: Performance improvement and borehole reduction. Energy Conversion and Management, 2017, 148, 57-67.	4.4	26
56	A Deep Heat Recovery Device between Flue Gas and Supply Air of Gas-fired Boiler by Using Non-contact Total Heat Exchanger. Energy Procedia, 2017, 105, 4976-4982.	1.8	20
57	A total heat recovery system between the flue gas and oxidizing air of a gas-fired boiler using a non-contact total heat exchanger. Applied Energy, 2017, 207, 613-623.	5.1	57
58	Robust model to predict the migration ratios of nanoparticles during the pool-boiling process of nanorefrigerants. International Communications in Heat and Mass Transfer, 2017, 84, 75-85.	2.9	21
59	Numerical research on R32/R1234ze(E) air source heat pump under variable mass concentration. International Journal of Refrigeration, 2017, 82, 1-10.	1.8	23
60	Performance improvement of air source heat pump using gas-injected rotary compressor through port on blade. International Journal of Refrigeration, 2017, 73, 91-98.	1.8	33
61	Performance Comparison between an Absorption-compression Hybrid Refrigeration System and a Double-effect Absorption Refrigeration Sys-tem. Procedia Engineering, 2017, 205, 241-247.	1.2	9
62	Dynamic Performance Analysis for an Absorption Chiller under Different Working Conditions. Applied Sciences (Switzerland), 2017, 7, 797.	1.3	13
63	An overview of the problems and solutions of soil thermal imbalance of ground-coupled heat pumps in cold regions. Applied Energy, 2016, 177, 515-536.	5.1	137
64	Analysis of a heat recovery system of the spray-drying process in a soy protein powder plant. Applied Thermal Engineering, 2016, 103, 1022-1030.	3.0	20
65	Experimental investigation on NH 3 –H 2 O compression-assisted absorption heat pump (CAHP) for low temperature heating in colder conditions. International Journal of Refrigeration, 2016, 67, 109-124.	1.8	30
66	NH3-H2O water source absorption heat pump (WSAHP) for low temperature heating: Experimental investigation on the off-design performance. Energy, 2016, 115, 697-710.	4.5	24
67	Performance analysis of an absorption-compression hybrid refrigeration system recovering condensation heat for generation. Applied Thermal Engineering, 2016, 108, 54-65.	3.0	30
68	Comparative research on air conditioner with gas-injected rotary compressor through injection port on blade. Applied Thermal Engineering, 2016, 106, 67-75.	3.0	17
69	Experimental investigation on NH3–H2O compression-assisted absorption heat pump (CAHP) for low temperature heating under lower driving sources. Applied Energy, 2016, 176, 258-271.	5.1	52
70	Simulation on effects of subcooler on cooling performance of multi-split variable refrigerant flow systems with different lengths of refrigerant pipeline. Energy and Buildings, 2016, 126, 301-309.	3.1	15
71	A novel vapor injection structure on the blade of a rotary compressor. Applied Thermal Engineering, 2016, 100, 1219-1228.	3.0	31
72	Performance analysis of hybrid ground-coupled heat pump system with multi-functions. Energy Conversion and Management, 2015, 92, 47-59.	4.4	49

#	Article	IF	CITATIONS
73	Hybrid ground source absorption heat pump in cold regions: Thermal balance keeping and borehole number reduction. Applied Thermal Engineering, 2015, 90, 322-334.	3.0	33
74	Heat recovery from Internet data centers for space heating based on an integrated air conditioner with thermosyphon. Renewable Energy, 2015, 80, 396-406.	4.3	43
75	Modeling and performance analysis of a two-phase thermosyphon loop with partially/fully liquid-filled downcomer. International Journal of Refrigeration, 2015, 58, 172-185.	1.8	57
76	Air source absorption heat pump in district heating: Applicability analysis and improvement options. Energy Conversion and Management, 2015, 96, 197-207.	4.4	22
77	Annual performance investigation and economic analysis of heating systems with a compression-assisted air source absorption heat pump. Energy Conversion and Management, 2015, 98, 290-302.	4.4	37
78	Experimental investigation on two-phase thermosyphon loop with partially liquid-filled downcomer. Applied Energy, 2015, 160, 10-17.	5.1	73
79	Combining ground source absorption heat pump with ground source electrical heat pump for thermal balance, higher efficiency and better economy in cold regions. Renewable Energy, 2015, 84, 74-88.	4.3	50
80	A new ground-coupled heat pump system integrated with a multi-mode air-source heat compensator to eliminate thermal imbalance in cold regions. Energy and Buildings, 2015, 107, 103-112.	3.1	58
81	Evaluation of two-phase suction, liquid injection and two-phase injection for decreasing the discharge temperature of the R32 scroll compressor. International Journal of Refrigeration, 2015, 59, 269-280.	1.8	48
82	An overview of ammonia-based absorption chillers and heat pumps. Renewable and Sustainable Energy Reviews, 2014, 31, 681-707.	8.2	138
83	Energy consumption model of integrated air conditioner with thermosyphon in mobile phone base station. International Journal of Refrigeration, 2014, 40, 1-10.	1.8	45
84	Simulation of a combined heating, cooling and domestic hot water system based on ground source absorption heat pump. Applied Energy, 2014, 126, 113-122.	5.1	72
85	A new solution for underground thermal imbalance of ground-coupled heat pump systems in cold regions: Heat compensation unit with thermosyphon. Applied Thermal Engineering, 2014, 64, 283-292.	3.0	81
86	Techno-economic analysis of air source absorption heat pump: Improving economy from a design perspective. Energy and Buildings, 2014, 81, 200-210.	3.1	33
87	Evaluation of ground source absorption heat pumps combined with borehole free cooling. Energy Conversion and Management, 2014, 79, 334-343.	4.4	59
88	Dynamic performance of self-operated three-way valve used in a hybrid air conditioner. Applied Thermal Engineering, 2014, 65, 384-393.	3.0	12
89	Absorption heating technologies: A review and perspective. Applied Energy, 2014, 130, 51-71.	5.1	160
90	Energy-Efficient Heating and Domestic Hot Water Systems Suitable for Different Regions. Lecture Notes in Electrical Engineering, 2014, , 601-607.	0.3	1

#	Article	IF	CITATIONS
91	A potential solution for thermal imbalance of ground source heat pump systems in cold regions: Ground source absorption heat pump. Renewable Energy, 2013, 59, 39-48.	4.3	97
92	A new heating system based on coupled air source absorption heat pump for cold regions: Energy saving analysis. Energy Conversion and Management, 2013, 76, 811-817.	4.4	39
93	Development of an integrated air conditioner with thermosyphon and the application in mobile phone base station. International Journal of Refrigeration, 2013, 36, 58-69.	1.8	85
94	Crystallization Analysis and Control of Ammonia-Based Air Source Absorption Heat Pump in Cold Regions. Advances in Mechanical Engineering, 2013, 5, 140341.	0.8	21
95	Energy saving potential of low temperature hot water system based on air source absorption heat pump. Applied Thermal Engineering, 2012, 48, 317-324.	3.0	66
96	Comparisons of different working pairs and cycles on the performance of absorption heat pump for heating and domestic hot water in cold regions. Applied Thermal Engineering, 2012, 48, 349-358.	3.0	76
97	Modulation method of scroll compressor based on suction gas bypass. Applied Thermal Engineering, 2012, 37, 183-189.	3.0	14
98	Optimization of refrigeration system with gas-injected scroll compressor. International Journal of Refrigeration, 2009, 32, 1544-1554.	1.8	78
99	Numerical analysis on the effects of refrigerant injection on the scroll compressor. Applied Thermal Engineering, 2009, 29, 37-46.	3.0	65
100	Numerical research on the scroll compressor with refrigeration injection. Applied Thermal Engineering, 2008, 28, 440-449.	3.0	73
101	Design of experimental bench and internal pressure measurement of scroll compressor with refrigerant injection. International Journal of Refrigeration, 2007, 30, 179-186.	1.8	40
102	A general geometrical model of scroll compressors based on discretional initial angles of involute. International Journal of Refrigeration, 2005, 28, 958-966.	1.8	68