

Baomin Dai

List of Publications by Year in descending order

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32
papers

1,326
citations

331670

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646
citing authors

#	ARTICLE	IF	CITATIONS
1	Environmental and economical analyses of transcritical CO ₂ heat pump combined with direct dedicated mechanical subcooling (DMS) for space heating in China. <i>Energy Conversion and Management</i> , 2019, 198, 111317.	9.2	133
2	Thermodynamic analysis of carbon dioxide blends with low GWP (global warming potential) working fluids-based transcritical Rankine cycles for low-grade heat energy recovery. <i>Energy</i> , 2014, 64, 942-952.	8.8	106
3	Energetic, economic and environmental analysis of air source transcritical CO ₂ heat pump system for residential heating in China. <i>Applied Thermal Engineering</i> , 2019, 148, 1425-1439.	6.0	98
4	Thermodynamic performance assessment of carbon dioxide blends with low-global warming potential (GWP) working fluids for a heat pump water heater. <i>International Journal of Refrigeration</i> , 2015, 56, 1-14.	3.4	88
5	Evaluation of transcritical CO ₂ heat pump system integrated with mechanical subcooling by utilizing energy, exergy and economic methodologies for residential heating. <i>Energy Conversion and Management</i> , 2019, 192, 202-220.	9.2	85
6	Energetic performance of transcritical CO ₂ refrigeration cycles with mechanical subcooling using zeotropic mixture as refrigerant. <i>Energy</i> , 2018, 150, 205-221.	8.8	77
7	Thermodynamic performance evaluation of transcritical carbon dioxide refrigeration cycle integrated with thermoelectric subcooler and expander. <i>Energy</i> , 2017, 122, 787-800.	8.8	76
8	Life cycle energy, emissions and cost evaluation of CO ₂ air source heat pump system to replace traditional heating methods for residential heating in China: System configurations. <i>Energy Conversion and Management</i> , 2020, 218, 112954.	9.2	60
9	Effect of surface roughness on liquid friction and transition characteristics in micro- and mini-channels. <i>Applied Thermal Engineering</i> , 2014, 67, 283-293.	6.0	56
10	Options of low Global Warming Potential refrigerant group for a three-stage cascade refrigeration system. <i>International Journal of Refrigeration</i> , 2019, 100, 471-483.	3.4	50
11	Assessment of heat pump with carbon dioxide/low-global warming potential working fluid mixture for drying process: Energy and emissions saving potential. <i>Energy Conversion and Management</i> , 2020, 222, 113225.	9.2	43
12	Energetic, exergetic and exergoeconomic assessment of transcritical CO ₂ reversible system combined with dedicated mechanical subcooling (DMS) for residential heating and cooling. <i>Energy Conversion and Management</i> , 2020, 209, 112594.	9.2	43
13	Evaluation of organic Rankine cycle by using hydrocarbons as working fluids: Advanced exergy and advanced exergoeconomic analyses. <i>Energy Conversion and Management</i> , 2019, 197, 111876.	9.2	42
14	Theoretical study on a novel CO ₂ Two-stage compression refrigeration system with parallel compression and solar absorption partial cascade refrigeration system. <i>Energy Conversion and Management</i> , 2020, 204, 112278.	9.2	40
15	Impacts on the solidification of water on plate surface for cold energy storage using ice slurry. <i>Applied Energy</i> , 2018, 227, 284-293.	10.1	37
16	Performance analysis of two-stage compression transcritical CO ₂ refrigeration system with R290 mechanical subcooling unit. <i>Energy</i> , 2019, 189, 116143.	8.8	37
17	Heating and cooling of residential annual application using DMS transcritical CO ₂ reversible system and traditional solutions: An environment and economic feasibility analysis. <i>Energy Conversion and Management</i> , 2020, 210, 112714.	9.2	33
18	Thermodynamic Performance Analysis of CO ₂ Transcritical Refrigeration Cycle Assisted with Mechanical Subcooling. <i>Energy Procedia</i> , 2017, 105, 2033-2038.	1.8	31

#	ARTICLE	IF	CITATIONS
19	Performance assessment of CO ₂ supermarket refrigeration system in different climate zones of China. Energy Conversion and Management, 2020, 208, 112572.	9.2	29
20	Investigation on convective heat transfer characteristics of single phase liquid flow in multi-port micro-channel tubes. International Journal of Heat and Mass Transfer, 2014, 70, 114-118.	4.8	25
21	Dual-pressure condensation high temperature heat pump system for waste heat recovery: Energetic and exergetic assessment. Energy Conversion and Management, 2020, 218, 112997.	9.2	25
22	Operation characteristics of a new-type loop heat pipe (LHP) with wick separated from heating surface in the evaporator. Applied Thermal Engineering, 2017, 123, 1034-1041.	6.0	19
23	Effects of lubricating oil on thermal performance of water-cooled carbon dioxide gas cooler. Applied Thermal Engineering, 2015, 80, 288-300.	6.0	18
24	Condensation heat and mass transfer characteristics of low GWP zeotropic refrigerant mixture R1234yf/R32 inside a horizontal smooth tube: An experimental study and non-equilibrium film model development. International Journal of Thermal Sciences, 2021, 170, 107090.	4.9	17
25	Alternative positions of internal heat exchanger for CO ₂ booster refrigeration system: Thermodynamic analysis and annual thermal performance evaluation. International Journal of Refrigeration, 2021, 131, 1016-1028.	3.4	16
26	Annual energetic evaluation of multi-stage dedicated mechanical subcooling carbon dioxide supermarket refrigeration system in different climate regions of China using genetic algorithm. Journal of Cleaner Production, 2022, 333, 130119.	9.3	11
27	Experimental Study on R245fa Condensation Heat Transfer Properties in Horizontal Tube. Energy Procedia, 2016, 104, 419-424.	1.8	8
28	Comparative analysis of thermodynamic performance of CO ₂ cascade refrigeration system assisted with expander and mechanical subcooling. International Journal of Energy Research, 2019, 43, 7891.	4.5	7
29	Experimental investigation on the impact of pressure head of evaporation during the loop heat pipe operation. Applied Thermal Engineering, 2021, 185, 116455.	6.0	6
30	Experimental Study on the Thermal Performance Improvement of a New Designed Condenser with Liquid Separator. Energy Procedia, 2016, 104, 269-274.	1.8	4
31	A new correlation for carbon dioxide boiling heat transfer coefficient outside evaporating tubes. Journal of Cleaner Production, 2020, 276, 123050.	9.3	4
32	Experimental Study on R245fa Condensation Heat Transfer in Horizontal Smooth Tube and Enhanced Tube. Energy Procedia, 2017, 142, 4169-4175.	1.8	2