

# Baomin Dai

## List of Publications by Year in descending order

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32  
papers

1,326  
citations

331670

21  
h-index

414414

32  
g-index

32  
all docs

32  
docs citations

32  
times ranked

646  
citing authors

#	ARTICLE	IF	CITATIONS
1	Annual energetic evaluation of multi-stage dedicated mechanical subcooling carbon dioxide supermarket refrigeration system in different climate regions of China using genetic algorithm. <i>Journal of Cleaner Production</i> , 2022, 333, 130119.	9.3	11
2	Experimental investigation on the impact of pressure head of evaporation during the loop heat pipe operation. <i>Applied Thermal Engineering</i> , 2021, 185, 116455.	6.0	6
3	Alternative positions of internal heat exchanger for CO <sub>2</sub> booster refrigeration system: Thermodynamic analysis and annual thermal performance evaluation. <i>International Journal of Refrigeration</i> , 2021, 131, 1016-1028.	3.4	16
4	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. <i>International Journal of Thermal Sciences</i> , 2021, 170, 107090.	4.9	17
5	Theoretical study on a novel CO <sub>2</sub> 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
6	A new correlation for carbon dioxide boiling heat transfer coefficient outside evaporating tubes. <i>Journal of Cleaner Production</i> , 2020, 276, 123050.	9.3	4
7	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
8	Dual-pressure condensation high temperature heat pump system for waste heat recovery: Energetic and exergetic assessment. <i>Energy Conversion and Management</i> , 2020, 218, 112997.	9.2	25
9	Life cycle energy, emissions and cost evaluation of CO <sub>2</sub> 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
10	Energetic, exergetic and exergoeconomic assessment of transcritical CO <sub>2</sub> 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
11	Performance assessment of CO <sub>2</sub> supermarket refrigeration system in different climate zones of China. <i>Energy Conversion and Management</i> , 2020, 208, 112572.	9.2	29
12	Heating and cooling of residential annual application using DMS transcritical CO <sub>2</sub> reversible system and traditional solutions: An environment and economic feasibility analysis. <i>Energy Conversion and Management</i> , 2020, 210, 112714.	9.2	33
13	Energetic, economic and environmental analysis of air source transcritical CO <sub>2</sub> heat pump system for residential heating in China. <i>Applied Thermal Engineering</i> , 2019, 148, 1425-1439.	6.0	98
14	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
15	Comparative analysis of thermodynamic performance of CO <sub>2</sub> cascade refrigeration system assisted with expander and mechanical subcooling. <i>International Journal of Energy Research</i> , 2019, 43, 7891.	4.5	7
16	Performance analysis of two-stage compression transcritical CO <sub>2</sub> refrigeration system with R290 mechanical subcooling unit. <i>Energy</i> , 2019, 189, 116143.	8.8	37
17	Evaluation of transcritical CO <sub>2</sub> 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
18	Environmental and economical analyses of transcritical CO <sub>2</sub> 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

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19	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
20	Energetic performance of transcritical CO <sub>2</sub> refrigeration cycles with mechanical subcooling using zeotropic mixture as refrigerant. <i>Energy</i> , 2018, 150, 205-221.	8.8	77
21	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
22	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
23	Operation characteristics of a new-type loop heat pipe (LHP) with wick separated from heating surface in the evaporator. <i>Applied Thermal Engineering</i> , 2017, 123, 1034-1041.	6.0	19
24	Thermodynamic Performance Analysis of CO <sub>2</sub> Transcritical Refrigeration Cycle Assisted with Mechanical Subcooling. <i>Energy Procedia</i> , 2017, 105, 2033-2038.	1.8	31
25	Experimental Study on R245fa Condensation Heat Transfer in Horizontal Smooth Tube and Enhanced Tube. <i>Energy Procedia</i> , 2017, 142, 4169-4175.	1.8	2
26	Experimental Study on the Thermal Performance Improvement of a New Designed Condenser with Liquid Separator. <i>Energy Procedia</i> , 2016, 104, 269-274.	1.8	4
27	Experimental Study on R245fa Condensation Heat Transfer Properties in Horizontal Tube. <i>Energy Procedia</i> , 2016, 104, 419-424.	1.8	8
28	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
29	Effects of lubricating oil on thermal performance of water-cooled carbon dioxide gas cooler. <i>Applied Thermal Engineering</i> , 2015, 80, 288-300.	6.0	18
30	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
31	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
32	Investigation on convective heat transfer characteristics of single phase liquid flow in multi-port micro-channel tubes. <i>International Journal of Heat and Mass Transfer</i> , 2014, 70, 114-118.	4.8	25