

# Minxia Li

## List of Publications by Year in descending order

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32  
papers

913  
citations

430874

18  
h-index

454955

30  
g-index

32  
all docs

32  
docs citations

32  
times ranked

637  
citing authors

#	ARTICLE	IF	CITATIONS
1	Flow boiling heat transfer of HFO1234yf and R32 refrigerant mixtures in a smooth horizontal tube: Part I. Experimental investigation. <i>International Journal of Heat and Mass Transfer</i> , 2012, 55, 3437-3446.	4.8	118
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	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
4	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
5	Study on expansion power recovery in CO <sub>2</sub> trans-critical cycle. <i>Energy Conversion and Management</i> , 2010, 51, 2516-2522.	9.2	47
6	A Rolling Piston-Type Two-Phase Expander in the Transcritical CO <sub>2</sub> Cycle. <i>HVAC and R Research</i> , 2009, 15, 729-741.	0.6	45
7	Performance analysis of passive cooling for photovoltaic modules and estimation of energy-saving potential. <i>Solar Energy</i> , 2019, 181, 70-82.	6.1	42
8	Review on liquid film flow and heat transfer characteristics outside horizontal tube falling film evaporator: Cfd numerical simulation. <i>International Journal of Heat and Mass Transfer</i> , 2020, 163, 120440.	4.8	38
9	Condensation heat transfer characteristics of low-GWP refrigerants in a smooth horizontal mini tube. <i>International Journal of Heat and Mass Transfer</i> , 2018, 126, 26-38.	4.8	37
10	Experimental investigation on a turbo expander substituted for throttle valve in the subcritical refrigeration system. <i>Energy</i> , 2015, 79, 195-202.	8.8	31
11	Research on condensation heat transfer characteristics of R447A, R1234ze, R134a and R32 in multi-port micro-channel tubes. <i>International Journal of Heat and Mass Transfer</i> , 2018, 118, 637-650.	4.8	31
12	Some design features of CO <sub>2</sub> two-rolling piston expander. <i>Energy</i> , 2013, 55, 916-924.	8.8	30
13	Study of multi-twisted-tube gas cooler for CO <sub>2</sub> heat pump water heaters. <i>Applied Thermal Engineering</i> , 2016, 102, 204-212.	6.0	27
14	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
15	Energetic, environmental and economic comparative analyses of modified transcritical CO <sub>2</sub> heat pump system to replace R134a system for home heating. <i>Energy</i> , 2021, 229, 120544.	8.8	24
16	Analysis of CO <sub>2</sub> Transcritical Cycle Heat Pump Dryers. <i>Drying Technology</i> , 2009, 27, 548-554.	3.1	22
17	Simulation analysis of a two-rolling piston expander replacing a throttling valve in a refrigeration and heat pump system. <i>Applied Thermal Engineering</i> , 2014, 66, 383-394.	6.0	21
18	Improvement and experimental research of CO <sub>2</sub> two-rolling piston expander. <i>Energy</i> , 2015, 93, 2199-2207.	8.8	20

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19	Effects of lubricating oil on thermal performance of water-cooled carbon dioxide gas cooler. Applied Thermal Engineering, 2015, 80, 288-300.	6.0	18
20	Mechanism study on flow-boiling heat transfer of R447A/lubricating oil in a smooth horizontal tube. International Journal of Heat and Mass Transfer, 2020, 158, 119971.	4.8	17
21	Development and Experimental Study of CO <sub>2</sub> Expander in CO <sub>2</sub> Supercritical Refrigeration Cycles. International Journal of Green Energy, 2004, 1, 89-99.	3.8	15
22	Research and application of CO <sub>2</sub> refrigeration and heat pump cycle. Science in China Series D: Earth Sciences, 2009, 52, 1563-1575.	0.9	11
23	Leakage research on supercritical carbon dioxide fluid in rolling piston expander. Science China Technological Sciences, 2012, 55, 1711-1718.	4.0	8
24	Determining the economic design radiation for a solar heating system through uncertainty analysis. Solar Energy, 2020, 195, 54-63.	6.1	7
25	Experimental study on supercritical heat transfer characteristics of CO <sub>2</sub> /R41 mixture in microchannel. Applied Thermal Engineering, 2021, 199, 117465.	6.0	7
26	Scraping force characteristics of frost formed on vertical cooling surfaces having different structures and wettability. International Journal of Refrigeration, 2019, 101, 148-154.	3.4	6
27	Theoretical analysis on expansion mechanism in carbon dioxide expander. Science China Technological Sciences, 2011, 54, 1469-1474.	4.0	5
28	Condensation heat transfer characteristics of R1234ze(E) and R32 in a mini-horizontal smooth tube. Science and Technology for the Built Environment, 2019, 25, 889-904.	1.7	4
29	Experimental investigations on cooling heat transfer of CO <sub>2</sub> -lubricant mixtures in horizontal tubes at supercritical pressure: A review. International Journal of Refrigeration, 2022, 139, 168-179.	3.4	4
30	TWO-STAGE DRYING OF CO <sub>2</sub> TRANSCRITICAL CYCLE HEAT PUMP. , 2007, , .		2
31	Simulation of the optimal heat rejection pressure for transcritical CO <sub>2</sub> expander cycle. Frontiers of Energy and Power Engineering in China, 2010, 4, 522-526.	0.4	1
32	Analysis of Influencing Factors of a Fully Enclosed Double-Cylinder CO <sub>2</sub> Rotor Expander for Air-Conditioner. Frontiers in Energy Research, 0, 10, .	2.3	0