

Guogeng He

List of Publications by Year in descending order

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papers

741
citations

567281

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26
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38
all docs

38
docs citations

38
times ranked

542
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of nano-fluorocarbon coating on icing. Applied Surface Science, 2012, 258, 7219-7224.	6.1	98
2	An experimental investigation of refrigerant mixture R32/R290 as drop-in replacement for HFC410A in household air conditioners. International Journal of Refrigeration, 2015, 57, 216-228.	3.4	62
3	Experimental evaluation on thermal performance of an air-cooled absorption refrigeration cycle with NH ₃ -LiNO ₃ and NH ₃ -NaSCN refrigerant solutions. Energy Conversion and Management, 2016, 120, 32-43.	9.2	57
4	Thermodynamic analysis of a novel air-cooled non-adiabatic absorption refrigeration cycle driven by low grade energy. Energy Conversion and Management, 2014, 86, 537-547.	9.2	40
5	Simulation and comparison of leakage characteristics of R290 in rolling piston type rotary compressor. International Journal of Refrigeration, 2015, 53, 42-54.	3.4	38
6	Experimental investigation on flow boiling heat transfer performance of a new near azeotropic refrigerant mixture R290/R32 in horizontal tubes. International Journal of Heat and Mass Transfer, 2016, 102, 561-573.	4.8	35
7	The experimental investigation of refrigerant distribution and leaking characteristics of R290 in split type household air conditioner. Applied Thermal Engineering, 2017, 115, 72-80.	6.0	34
8	Exergy analysis of a novel air-cooled non-adiabatic absorption refrigeration cycle with NH ₃ -NaSCN and NH ₃ -LiNO ₃ refrigerant solutions. Energy Conversion and Management, 2014, 88, 66-78.	9.2	30
9	Thermodynamic analysis of a novel combined double ejector-absorption refrigeration system using ammonia/salt working pairs without mechanical pumps. Energy, 2019, 185, 895-909.	8.8	27
10	Assessment of leakage and risk reduction of R290 in a split type household air conditioner. International Journal of Refrigeration, 2018, 89, 70-82.	3.4	26
11	Performance analysis of a novel heat pump type air conditioner coupled with a liquid dehumidification/humidification cycle. Energy Conversion and Management, 2017, 148, 1291-1305.	9.2	25
12	First law analysis of a novel double effect air-cooled non-adiabatic ammonia/salt absorption refrigeration cycle. Energy Conversion and Management, 2015, 98, 1-14.	9.2	24
13	Flow boiling heat transfer characteristics and pressure drop of R290/oil solution in smooth horizontal tubes. International Journal of Heat and Mass Transfer, 2018, 119, 777-790.	4.8	24
14	The experimental study of R290 mass distribution and indoor leakage of 2 HP and 3 HP split type household air conditioner. International Journal of Refrigeration, 2019, 100, 246-254.	3.4	17
15	Energy and exergy analysis of an air-cooled waste heat-driven absorption refrigeration cycle using R290/oil as working fluid. Energy, 2019, 173, 820-832.	8.8	16
16	Experimental study on the flow boiling heat transfer characteristics of R32 in horizontal tubes. International Journal of Heat and Mass Transfer, 2018, 125, 943-958.	4.8	15
17	Experimental investigations and an updated correlation of flow boiling heat transfer coefficients for ammonia/lithium nitrate mixture in horizontal tubes. International Journal of Heat and Mass Transfer, 2017, 112, 224-235.	4.8	14
18	Experimental performance evaluation on leakage characteristics of R32 in rolling piston type rotary compressor. International Journal of Refrigeration, 2018, 91, 177-188.	3.4	14

#	ARTICLE	IF	CITATIONS
19	Conventional and advanced exergy analysis of an air-cooled type of absorption-ejection refrigeration cycle with R290-mineral oil as the working pair. <i>Energy Conversion and Management</i> , 2020, 210, 112703.	9.2	14
20	An effective method for preventing ice-blockage in dynamic generation system with supercooling water. <i>International Journal of Refrigeration</i> , 2014, 46, 114-122.	3.4	13
21	Thermodynamic analysis of a novel exhaust heat-driven non-adiabatic ejection-absorption refrigeration cycle using R290/oil mixture. <i>Energy Conversion and Management</i> , 2017, 149, 244-253.	9.2	13
22	Experimental investigation of flow boiling heat transfer characteristics in smooth horizontal tubes using NH ₃ /NaSCN solution as working fluid. <i>International Journal of Heat and Mass Transfer</i> , 2018, 127, 799-812.	4.8	12
23	Flow boiling heat transfer characteristics and pressure drop of ammonia-lithium nitrate solution in a smooth horizontal tube. <i>International Journal of Heat and Mass Transfer</i> , 2017, 108, 220-231.	4.8	10
24	Effect of oil stirrer on the performance of oil supply system for a variable speed rotary compressor. <i>International Journal of Refrigeration</i> , 2019, 101, 1-10.	3.4	9
25	Comprehensive experimental evaluation of an exhaust-heat-driven absorption refrigeration cycle system using NH ₃ -NaSCN as working pair. <i>International Journal of Refrigeration</i> , 2021, 126, 168-180.	3.4	9
26	Performance investigation and optimization analysis for vapor injection rotary compressor oriented to circular end-plate injection port without check valve. <i>Applied Thermal Engineering</i> , 2021, 183, 116196.	6.0	8
27	Comparative study of flow boiling heat transfer and frictional pressure gradient of a non-azeotropic mixture of R-1270/R-600a, and R-22 in a smooth horizontal tube. <i>AEJ - Alexandria Engineering Journal</i> , 2020, 59, 4909-4922.	6.4	7
28	Experimental investigation on startup process for oil supply system of a variable speed rotary compressor. <i>International Journal of Refrigeration</i> , 2020, 113, 58-69.	3.4	7
29	Experimental evaluation on flow boiling heat transfer of R290/POE-oil working fluid for absorption refrigeration in smooth horizontal tubes. <i>International Journal of Thermal Sciences</i> , 2021, 159, 106641.	4.9	7
30	Absorption characteristics of NH ₃ /NASCN working pair in an adiabatic absorber with structured packing. <i>Applied Thermal Engineering</i> , 2021, 185, 116325.	6.0	7
31	Performance investigation and design optimization of a vapor injection rotary compressor without check valve in injection path. <i>Applied Thermal Engineering</i> , 2021, 197, 117372.	6.0	6
32	R290 leakage hazards assessment of a 1 HP split-type household air conditioner by concentration detection and ignition experiment. <i>International Journal of Refrigeration</i> , 2022, 139, 70-83.	3.4	6
33	Investigation on the characteristics of oil supply system for a hermetic variable speed rotary compressor. <i>International Journal of Refrigeration</i> , 2020, 118, 150-160.	3.4	5
34	Experimental study on absorption characteristics of a falling film absorber with micro-scale NH ₃ /LiNO ₃ liquid film. <i>Applied Thermal Engineering</i> , 2022, 200, 117719.	6.0	4
35	Operation strategy and performance investigation of a high-efficiency multifunctional two-stage vapor compression heat pump air conditioning system for electric vehicles in severe cold regions. <i>Sustainable Energy Technologies and Assessments</i> , 2021, 48, 101617.	2.7	3
36	A new method for online measurement of the concentration of working fluids in absorption refrigeration systems. <i>International Journal of Refrigeration</i> , 2017, 78, 128-135.	3.4	2

#	ARTICLE	IF	CITATIONS
37	Experimental performance evaluation and comparison of an absorption refrigeration prototype driven by exhaust heat operating with NH ₃ /LiNO ₃ and NH ₃ /LiNO ₃ +H ₂ O. International Journal of Refrigeration, 2021, 132, 172-186.	3.4	2
38	Comparison of experimental performance of absorption refrigeration cycle using NH ₃ /LiNO ₃ +H ₂ O working fluids with different water component proportions. International Journal of Refrigeration, 2022, 139, 25-40.	3.4	1