

Li-min Qiu

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

71
papers

641
citations

14
h-index

20
g-index

75
ext. papers

782
ext. citations

5.1
avg, IF

4.02
L-index

#	Paper	IF	Citations
71	Study on the impedance characteristics of a high-capacity pulse tube cryocooler. <i>Energy Reports</i> , 2022 , 8, 2210-2218	4.6	
70	Cavitation evolution and damage by liquid nitrogen in a globe valve. <i>Journal of Zhejiang University: Science A</i> , 2022 , 23, 101-117	2.1	1
69	The effect of the aftercooler on the regenerator temperature non-uniformity in a high-capacity pulse tube cryocooler. <i>Applied Thermal Engineering</i> , 2022 , 209, 118245	5.8	0
68	Investigation of unsteady cryogenic cavitating flow and induced noise around a three-dimensional hydrofoil. <i>Physics of Fluids</i> , 2022 , 34, 042120	4.4	2
67	High-performance multi-stage internally-cooled liquid desiccant dehumidifier for high gas-liquid flow ratios. <i>Energy Conversion and Management</i> , 2021 , 250, 114869	10.6	1
66	Thermodynamic analysis of an organic Rankine vapor compression cycle (ORVC) assisted air compression system for cryogenic air separation units. <i>Applied Thermal Engineering</i> , 2021 , 189, 116678	5.8	4
65	Enhancing heat transfer performance of nitrogen condensation on vertical plate with microstructure. <i>International Journal of Heat and Mass Transfer</i> , 2021 , 172, 121219	4.9	2
64	Multi-stage internally-cooled membrane-based liquid desiccant dehumidifiers: Driving-force based insights into structural improvement. <i>International Journal of Heat and Mass Transfer</i> , 2021 , 171, 121068	4.9	1
63	Feasibility analysis of HoCu ₂ and Gd ₂ O ₂ S as regenerative materials around 420K. <i>Applied Thermal Engineering</i> , 2021 , 192, 116921	5.8	0
62	Characteristic analysis of fluctuating liquid film flow behavior and heat transfer in nitrogen condensation. <i>Applied Thermal Engineering</i> , 2021 , 184, 116249	5.8	0
61	Exploration on two-stage latent thermal energy storage for heat recovery in cryogenic air separation purification system. <i>Energy</i> , 2021 , 239, 122111	7.9	3
60	Thermoeconomic analysis on a cascade energy utilization system for compression heat in air separation units. <i>Energy Conversion and Management</i> , 2020 , 213, 112820	10.6	11
59	Performance analysis of a multistage internal circulation liquid desiccant dehumidifier. <i>Applied Thermal Engineering</i> , 2020 , 172, 115163	5.8	12
58	Simulation and visualization experiment on the liquid nitrogen boiling behaviors during the quenching and recovery process of YBCO tapes. <i>International Journal of Heat and Mass Transfer</i> , 2020 , 159, 120093	4.9	0
57	Numerical analysis of nitrogen condensation heat transfer enhancement with liquid film fluctuation at cryogenic temperature. <i>International Journal of Heat and Mass Transfer</i> , 2020 , 149, 119151	4.9	5
56	A Stirling type pulse tube cryocooler working at liquid hydrogen temperatures with a precooled transmission tube. <i>International Journal of Refrigeration</i> , 2020 , 111, 29-38	3.8	2
55	Visualization experiment and numerical simulation of nitrogen-neon mixture condensation. <i>Applied Thermal Engineering</i> , 2020 , 164, 114492	5.8	4

54	Experimental study on the condensation characteristics of nitrogen with non-condensable gas. <i>Cryogenics</i> , 2019 , 98, 29-38	1.8	8
53	Interferometric study of the heat and mass transfer during the mixing and evaporation of liquid oxygen and nitrogen under non-uniform magnetic field. <i>International Journal of Heat and Mass Transfer</i> , 2019 , 136, 10-19	4.9	4
52	Numerical study on the bubble rising behavior in liquid oxygen under magnetic field. <i>Cryogenics</i> , 2019 , 101, 43-52	1.8	1
51	Determination of mass transfer coefficient for condensation simulation. <i>International Journal of Heat and Mass Transfer</i> , 2019 , 143, 118485	4.9	8
50	Effects of DC flow on pulse tube cryocooler working at liquid hydrogen and liquid nitrogen temperatures. <i>Applied Thermal Engineering</i> , 2018 , 137, 451-460	5.8	8
49	Numerical modeling of flow film boiling in cryogenic chilldown process using the AIAD framework. <i>International Journal of Heat and Mass Transfer</i> , 2018 , 124, 269-278	4.9	7
48	Frequency characteristics of liquid hydrogen cavitating flow over a NACA0015 hydrofoil. <i>Cryogenics</i> , 2018 , 90, 7-19	1.8	13
47	Performance analysis of a linear compressor in a cryocooler. <i>Applied Thermal Engineering</i> , 2018 , 141, 659-665	5.8	5
46	A parametric sensitivity study by numerical simulations on plume dispersion of the exhaust from a cryogenic wind tunnel. <i>Journal of Zhejiang University: Science A</i> , 2018 , 19, 746-757	2.1	1
45	Experimental study on film condensation characteristics at liquid nitrogen temperatures. <i>Applied Thermal Engineering</i> , 2017 , 127, 256-265	5.8	10
44	Numerical analysis on a four-stage looped thermoacoustic Stirling power generator for low temperature waste heat. <i>Energy Conversion and Management</i> , 2017 , 150, 830-837	10.6	23
43	Free-surface flow of liquid oxygen under non-uniform magnetic field. <i>Cryogenics</i> , 2017 , 81, 76-82	1.8	5
42	Refrigeration mechanism of the gas parcels in pulse tube cryocoolers under different phase angles. <i>International Journal of Heat and Mass Transfer</i> , 2016 , 103, 382-389	4.9	11
41	Enhancing the convective heat transfer in liquid oxygen using alternating magnetic fields. <i>Applied Thermal Engineering</i> , 2016 , 100, 125-132	5.8	10
40	Research on gas bubble merging through the lattice Boltzmann method. <i>Journal of Computational Methods in Sciences and Engineering</i> , 2016 , 16, 99-109	0.3	2
39	An acoustically matched traveling-wave thermoacoustic generator achieving 750W electric power. <i>Energy</i> , 2016 , 103, 313-321	7.9	41
38	Acoustic matching of a traveling-wave thermoacoustic electric generator. <i>Applied Thermal Engineering</i> , 2016 , 102, 272-282	5.8	22
37	Applicability of molecular dynamics method to the pressure-driven gas flow in finite length nano-scale slit pores. <i>Molecular Physics</i> , 2015 , 113, 561-569	1.7	17

36	Cold Inertance Tube for 4 K Stirling Type Pulse Tube Cryocoolers. <i>Physics Procedia</i> , 2015 , 67, 451-455		4
35	Operating characteristics and performance improvements of a 500 W traveling-wave thermoacoustic electric generator. <i>Applied Energy</i> , 2015 , 160, 853-862	10.7	33
34	Calculation and verification of dynamical cavitation model for quasi-steady cavitating flow. <i>International Journal of Heat and Mass Transfer</i> , 2015 , 86, 294-301	4.9	20
33	Operating characteristics of a single-stage Stirling-type pulse tube cryocooler with high cooling power at liquid nitrogen temperatures. <i>Journal of Zhejiang University: Science A</i> , 2015 , 16, 577-585	2.1	2
32	Computational fluid dynamics study on liquefied natural gas dispersion with phase change of water. <i>International Journal of Heat and Mass Transfer</i> , 2015 , 91, 347-354	4.9	19
31	Temperature inhomogeneity in high capacity pulse tube cryocoolers. <i>Journal of Zhejiang University: Science A</i> , 2015 , 16, 910-921	2.1	1
30	Lattice Boltzmann Simulation of Multiple Bubbles Motion under Gravity. <i>Abstract and Applied Analysis</i> , 2015 , 2015, 1-12	0.7	2
29	Influence of regenerator void volume on performance of a precooled 4 K Stirling type pulse tube cryocooler. <i>Cryogenics</i> , 2015 , 70, 34-40	1.8	2
28	Operating characteristics of thermoacoustic compression based on alternating to direct gas flow conversion. <i>Energy</i> , 2014 , 75, 338-348	7.9	2
27	Performance of a precooled 4 K Stirling type high frequency pulse tube cryocooler with Gd ₂ O ₂ S. <i>Journal of Zhejiang University: Science A</i> , 2014 , 15, 508-516	2.1	5
26	Research and development of large-scale cryogenic air separation in China. <i>Journal of Zhejiang University: Science A</i> , 2014 , 15, 309-322	2.1	32
25	Validation of dynamic cavitation model for unsteady cavitating flow on NACA66. <i>Science China Technological Sciences</i> , 2014 , 57, 819-827	3.5	18
24	Characteristics of onset and damping in a standing-wave thermoacoustic engine driven by liquid nitrogen. <i>Science Bulletin</i> , 2013 , 58, 1325-1330		10
23	Modeling cavitation flow of cryogenic fluids with thermodynamic phase-change theory. <i>Science Bulletin</i> , 2013 , 58, 567-574		27
22	Three-dimensional Computational Fluid Dynamics Modeling of Two-phase Flow in a Structured Packing Column. <i>Chinese Journal of Chemical Engineering</i> , 2013 , 21, 959-966	3.2	12
21	Direct numerical simulations of the decaying turbulence in rotating flows via the MRT-lattice Boltzmann method. <i>International Journal of Computational Fluid Dynamics</i> , 2013 , 27, 173-183	1.2	5
20	Study on the onset temperature of a standing-wave thermoacoustic engine based on circuit network theory. <i>Science China Technological Sciences</i> , 2012 , 55, 2864-2868	3.5	4
19	Infrared imaging as a means of visually characterizing the thermoacoustic onset process influenced by a Helmholtz resonator. <i>Applied Acoustics</i> , 2012 , 73, 508-513	3.1	4

18	NUMERICAL SIMULATION OF FLOW AND HEAT TRANSFER CHARACTERISTIC OF 4K REGENERATORS AT HIGH FREQUENCY. <i>International Journal of Modern Physics Conference Series</i> , 2012 , 19, 406-416	0.7	1
17	Effects of surface tension on bubble growth in an extensive uniformly superheated liquid. <i>Science Bulletin</i> , 2011 , 56, 3191		5
16	Study on energy flows in thermoacoustic engines utilizing two-temperature heat sources. <i>Energy Conversion and Management</i> , 2011 , 52, 1066-1072	10.6	6
15	Advances in High Power Stirling-Type Pulse Tube Cooler. <i>IEEE Transactions on Applied Superconductivity</i> , 2010 , 20, 2043-2046	1.8	1
14	A thermoacoustic engine capable of utilizing multi-temperature heat sources. <i>Energy Conversion and Management</i> , 2009 , 50, 3187-3192	10.6	10
13	Novel Helmholtz resonator used to focus acoustic energy of thermoacoustic engine. <i>Applied Thermal Engineering</i> , 2009 , 29, 945-949	5.8	17
12	Investigation on regenerator temperature inhomogeneity in Stirling-type pulse tube cooler. <i>Science Bulletin</i> , 2009 , 54, 986-991	10.6	7
11	Validation of full cavitation model in cryogenic fluids. <i>Science Bulletin</i> , 2009 , 54, 1633-1640	10.6	14
10	Liquid film dryout model for predicting critical heat flux in annular two-phase flow. <i>Journal of Zhejiang University: Science A</i> , 2009 , 10, 398-417	2.1	11
9	Design and preliminary experimental investigation of a 4 K Stirling-type pulse tube cryocooler with precooling. <i>Journal of Zhejiang University: Science A</i> , 2009 , 10, 1277-1284	2.1	12
8	Output characteristics of Stirling thermoacoustic engine. <i>Energy Conversion and Management</i> , 2008 , 49, 1265-1270	10.6	9
7	Transmission characteristics of acoustic amplifier in thermoacoustic engine. <i>Energy Conversion and Management</i> , 2008 , 49, 913-918	10.6	9
6	Computational fluid dynamic simulation of an inter-phasing pulse tube cooler. <i>Journal of Zhejiang University: Science A</i> , 2008 , 9, 93-98	2.1	4
5	Study on a 5.0 W/80 K single stage Stirling type pulse tube cryocooler. <i>Journal of Zhejiang University: Science A</i> , 2008 , 9, 1277-1282	2.1	12
4	Effect of pressure disturbance on onset processes in thermoacoustic engine. <i>Energy Conversion and Management</i> , 2006 , 47, 1383-1390	10.6	26
3	A separate two-stage pulse tube cooler working at liquid helium temperature. <i>Science Bulletin</i> , 2005 , 50, 1030		7
2	Investigation on traveling wave thermoacoustic heat engine with high pressure amplitude. <i>Energy Conversion and Management</i> , 2005 , 46, 281-291	10.6	33
1	Optimum packing factor of the stack in a standing-wave thermoacoustic prime mover. <i>International Journal of Energy Research</i> , 2002 , 26, 729-735	4.5	10

