

Zhihua Gan

List of Publications by Citations

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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.

60
papers

485
citations

14
h-index

18
g-index

64
ext. papers

586
ext. citations

3.5
avg. IF

3.82
L-index

#	Paper	IF	Citations
60	Measurement of boiling heat transfer coefficient in liquid nitrogen bath by inverse heat conduction method. <i>Journal of Zhejiang University: Science A</i> , 2009 , 10, 691-696	2.1	51
59	Heat transfer of laminar oscillating flow in finned heat exchanger of pulse tube refrigerator. <i>International Journal of Heat and Mass Transfer</i> , 2014 , 70, 811-818	4.9	27
58	120Hz pulse tube cryocooler for fast cooldown to 50K. <i>Applied Physics Letters</i> , 2007 , 90, 072504	3.4	25
57	An approach to combine the second-order and third-order analysis methods for optimization of a Stirling engine. <i>Energy Conversion and Management</i> , 2018 , 165, 447-458	10.6	23
56	A three-stage Stirling pulse tube cryocooler operating below the critical point of helium-4. <i>Cryogenics</i> , 2011 , 51, 609-612	1.8	21
55	Determination of the operation range of a vertical two-phase closed thermosyphon. <i>Heat and Mass Transfer</i> , 2012 , 48, 1043-1055	2.2	20
54	A cascade pulse tube cooler capable of energy recovery. <i>Applied Energy</i> , 2016 , 164, 572-578	10.7	20
53	Thermodynamic performance prediction of pulse tube refrigeration with mixture fluids. <i>Cryogenics</i> , 2000 , 40, 261-267	1.8	16
52	Numerical simulation of a GM-type pulse tube cryocooler system: Part II. Rotary valve and cold head. <i>Cryogenics</i> , 2017 , 81, 100-106	1.8	15
51	A general model of Stirling refrigerators and its verification. <i>Energy Conversion and Management</i> , 2019 , 188, 54-65	10.6	15
50	A potential approach for reducing the R290 charge in air conditioners and heat pumps. <i>International Journal of Refrigeration</i> , 2019 , 101, 47-55	3.8	14
49	Validation of full cavitation model in cryogenic fluids. <i>Science Bulletin</i> , 2009 , 54, 1633-1640	10.6	14
48	Performance improvement of vertical ice slurry generator by using bubbling device. <i>Energy Conversion and Management</i> , 2008 , 49, 83-88	10.6	14
47	Experimental Study on a Hydrogen Closed Loop Pulsating Heat Pipe with Different Adiabatic Lengths. <i>Heat Transfer Engineering</i> , 2019 , 40, 205-214	1.7	14
46	Numerical simulation of a GM-type pulse tube cryocooler system: Part I. Characterization of compressors. <i>Cryogenics</i> , 2017 , 81, 8-13	1.8	13
45	Performance improvement of multi-stage pulse tube cryocoolers with a self-precooled pulse tube. <i>Cryogenics</i> , 2012 , 52, 575-579	1.8	12
44	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

43	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
42	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
41	Investigation on the temperature dependence of filling ratio in cryogenic pulsating heat pipes. <i>International Journal of Heat and Mass Transfer</i> , 2018 , 126, 237-244	4.9	10
40	Real gas effects on the temperature profile of regenerators. <i>Cryogenics</i> , 2014 , 61, 31-37	1.8	8
39	MODELING AND EXPERIMENTS ON FAST COOLDOWN OF A 120 Hz PULSE TUBE CRYOCOOLER. <i>AIP Conference Proceedings</i> , 2008 ,	0	8
38	Temperature and mass-flow behavior of a He-4 Joule-Thomson cryocooler. <i>International Journal of Heat and Mass Transfer</i> , 2017 , 109, 1094-1099	4.9	7
37	Acoustic-Mechanical-Electrical (AcME) coupling between the linear compressor and the Stirling-type cryocoolers. <i>International Journal of Refrigeration</i> , 2019 , 100, 175-183	3.8	7
36	Experimental investigation on a pulsating heat pipe with hydrogen. <i>IOP Conference Series: Materials Science and Engineering</i> , 2015 , 101, 012065	0.4	7
35	APPROXIMATE DESIGN METHOD FOR SINGLE STAGE PULSE TUBE REFRIGERATORS. <i>AIP Conference Proceedings</i> , 2008 ,	0	7
34	Numerical investigation on pulsating heat pipes with nitrogen or hydrogen. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017 , 278, 012056	0.4	6
33	Experimental study on a hydrogen closed-loop pulsating heat pipe with two turns. <i>Cryogenics</i> , 2019 , 97, 63-69	1.8	6
32	The thermodynamic characteristics of a Stirling/pulse tube hybrid cryocooler. <i>Cryogenics</i> , 2018 , 96, 133-143	1.8	6
31	Thermodynamic analysis of the working states of the Stirling/pulse tube hybrid cryocooler. <i>Applied Thermal Engineering</i> , 2020 , 170, 115024	5.8	5
30	STUDY ON A SINGLE-STAGE 120 HZ PULSE TUBE CRYOCOOLER 2010 ,		5
29	Characterization of a scroll-type compressor for driving JT cryocoolers working at liquid helium temperature. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019 , 502, 012056	0.4	4
28	Cold Inertance Tube for 4 K Stirling Type Pulse Tube Cryocoolers. <i>Physics Procedia</i> , 2015 , 67, 451-455		4
27	Performance testing of linear compressors with RC approach 2012 ,		4
26	Discussion on refrigeration cycle for regenerative cryocoolers. <i>Cryogenics</i> , 2002 , 42, 133-139	1.8	4

25	Study on cooling capacity characteristics of an open-cycle Joule-Thomson cryocooler working at liquid helium temperature. <i>Applied Thermal Engineering</i> , 2020 , 166, 114667	5.8	4
24	Experimental study on a floating scroll-type compressor driving a precooled JT cryocooler. <i>Applied Thermal Engineering</i> , 2020 , 178, 115627	5.8	4
23	Experimental study on hydrogen pulsating heat pipes under different number of turns. <i>Cryogenics</i> , 2020 , 111, 103174	1.8	4
22	Performance analysis on free-piston Stirling cryocooler based on an idealized mathematical model. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017 , 278, 012174	0.4	3
21	The performance comparison of Oxford and triangle flexure bearings 2012 ,		3
20	Performance investigation of a domestic freezer with micro-bare-tube evaporators. <i>Applied Thermal Engineering</i> , 2020 , 174, 115306	5.8	2
19	Study on a Cascade Pulse Tube Cooler with Work Recovery. <i>Physics Procedia</i> , 2015 , 67, 524-529		2
18	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
17	The performance of a linear compressor with triangle flexure bearings 2012 ,		2
16	He-H ₂ mixture and Er ₃ NiH _x packing for the refrigeration enhancement of pulse tube refrigerator. <i>Science Bulletin</i> , 2004 , 49, 527-530		2
15	Acoustic power measurement of linear compressors. <i>Cryogenics</i> , 2018 , 96, 10-17	1.8	2
14	A cascade pulse tube cooler with work recovery 2014 ,		1
13	Cooling-capacity characteristics of Helium-4 JT cryocoolers. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017 , 278, 012085	0.4	1
12	A cryogenic heat exchanger with bypass and throttling and its thermodynamic analysis. <i>IOP Conference Series: Materials Science and Engineering</i> , 2015 , 101, 012167	0.4	1
11	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
10	Development of a 4 K Separate Two-Stage Pulse Tube Refrigerator with High Efficiency. <i>AIP Conference Proceedings</i> , 2006 ,	0	1
9	A two-stage thermally-coupled pulse tube cryocooler working at 35K for space application. <i>Acta Astronautica</i> , 2022 , 191, 193-203	2.9	1
8	Simulation of the Optimal Refrigerated Floor Design for Ice Rinks. <i>Energies</i> , 2021 , 14, 1535	3.1	1

- 7 Characterization and monitoring of vacuum pressure of tank containers with multilayer insulation for cryogenic clean fuels storage and transportation. *Applied Thermal Engineering*, **2021**, 187, 116569 5.8 1
- 6 A high efficiency stirling-type pulse tube refrigerator for cooling above 200 K. *Energy*, **2021**, 215, 119120 7.9 1
- 5 Experimental study on a hydrogen pulsating heat pipe in different heating modes. *Cryogenics*, **2022**, 123, 103440 1.8 0
- 4 Influence of hot end heat exchangers on cascading three pulse tube coolers. *IOP Conference Series: Materials Science and Engineering*, **2017**, 278, 012144 0.4
- 3 THERMAL STABILITY AND TRANSPORT PROPERTIES OF Na_{0.495}CoO₂ SINGLE CRYSTALS. *International Journal of Modern Physics B*, **2006**, 20, 3365-3372 1.1
- 2 Experimental Study on Two-stage Pulse Tube Refrigeration with Mixtures of Helium and Hydrogen **2003**, 325-329
- 1 Pulse Tube Refrigeration with a Combined Cooling and Freezing Cycle for HTSC Devices **2002**, 291-299