

# Zhijia Gan

## 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.

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	A two-stage thermally-coupled pulse tube cryocooler working at 35K for space application. <i>Acta Astronautica</i> , <b>2022</b> , 191, 193-203	2.9	1
59	Experimental study on a hydrogen pulsating heat pipe in different heating modes. <i>Cryogenics</i> , <b>2022</b> , 123, 103440	1.8	0
58	Simulation of the Optimal Refrigerated Floor Design for Ice Rinks. <i>Energies</i> , <b>2021</b> , 14, 1535	3.1	1
57	Characterization and monitoring of vacuum pressure of tank containers with multilayer insulation for cryogenic clean fuels storage and transportation. <i>Applied Thermal Engineering</i> , <b>2021</b> , 187, 116569	5.8	1
56	A high efficiency stirling-type pulse tube refrigerator for cooling above 200 K. <i>Energy</i> , <b>2021</b> , 215, 119120	7.9	1
55	Thermodynamic analysis of the working states of the Stirling/pulse tube hybrid cryocooler. <i>Applied Thermal Engineering</i> , <b>2020</b> , 170, 115024	5.8	5
54	Performance investigation of a domestic freezer with micro-bare-tube evaporators. <i>Applied Thermal Engineering</i> , <b>2020</b> , 174, 115306	5.8	2
53	Study on cooling capacity characteristics of an open-cycle Joule-Thomson cryocooler working at liquid helium temperature. <i>Applied Thermal Engineering</i> , <b>2020</b> , 166, 114667	5.8	4
52	Experimental study on a floating scroll-type compressor driving a precooled JT cryocooler. <i>Applied Thermal Engineering</i> , <b>2020</b> , 178, 115627	5.8	4
51	Experimental study on hydrogen pulsating heat pipes under different number of turns. <i>Cryogenics</i> , <b>2020</b> , 111, 103174	1.8	4
50	Acoustic-Mechanical-Electrical (AcME) coupling between the linear compressor and the Stirling-type cryocoolers. <i>International Journal of Refrigeration</i> , <b>2019</b> , 100, 175-183	3.8	7
49	Characterization of a scroll-type compressor for driving JT cryocoolers working at liquid helium temperature. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2019</b> , 502, 012056	0.4	4
48	A potential approach for reducing the R290 charge in air conditioners and heat pumps. <i>International Journal of Refrigeration</i> , <b>2019</b> , 101, 47-55	3.8	14
47	A general model of Stirling refrigerators and its verification. <i>Energy Conversion and Management</i> , <b>2019</b> , 188, 54-65	10.6	15
46	Experimental study on a hydrogen closed-loop pulsating heat pipe with two turns. <i>Cryogenics</i> , <b>2019</b> , 97, 63-69	1.8	6
45	Experimental Study on a Hydrogen Closed Loop Pulsating Heat Pipe with Different Adiabatic Lengths. <i>Heat Transfer Engineering</i> , <b>2019</b> , 40, 205-214	1.7	14
44	An approach to combine the second-order and third-order analysis methods for optimization of a Stirling engine. <i>Energy Conversion and Management</i> , <b>2018</b> , 165, 447-458	10.6	23

43	The thermodynamic characteristics of a Stirling/pulse tube hybrid cryocooler. <i>Cryogenics</i> , <b>2018</b> , 96, 133-143	1.8	6
42	Acoustic power measurement of linear compressors. <i>Cryogenics</i> , <b>2018</b> , 96, 10-17	1.8	2
41	Investigation on the temperature dependence of filling ratio in cryogenic pulsating heat pipes. <i>International Journal of Heat and Mass Transfer</i> , <b>2018</b> , 126, 237-244	4.9	10
40	Numerical simulation of a GM-type pulse tube cryocooler system: Part II. Rotary valve and cold head. <i>Cryogenics</i> , <b>2017</b> , 81, 100-106	1.8	15
39	Temperature and mass-flow behavior of a He-4 Joule-Thomson cryocooler. <i>International Journal of Heat and Mass Transfer</i> , <b>2017</b> , 109, 1094-1099	4.9	7
38	Performance analysis on free-piston Stirling cryocooler based on an idealized mathematical model. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2017</b> , 278, 012174	0.4	3
37	Numerical simulation of a GM-type pulse tube cryocooler system: Part I. Characterization of compressors. <i>Cryogenics</i> , <b>2017</b> , 81, 8-13	1.8	13
36	Influence of hot end heat exchangers on cascading three pulse tube coolers. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2017</b> , 278, 012144	0.4	
35	Numerical investigation on pulsating heat pipes with nitrogen or hydrogen. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2017</b> , 278, 012056	0.4	6
34	Cooling-capacity characteristics of Helium-4 JT cryocoolers. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2017</b> , 278, 012085	0.4	1
33	Refrigeration mechanism of the gas parcels in pulse tube cryocoolers under different phase angles. <i>International Journal of Heat and Mass Transfer</i> , <b>2016</b> , 103, 382-389	4.9	11
32	A cascade pulse tube cooler capable of energy recovery. <i>Applied Energy</i> , <b>2016</b> , 164, 572-578	10.7	20
31	Cold Inertance Tube for 4 K Stirling Type Pulse Tube Cryocoolers. <i>Physics Procedia</i> , <b>2015</b> , 67, 451-455		4
30	Study on a Cascade Pulse Tube Cooler with Work Recovery. <i>Physics Procedia</i> , <b>2015</b> , 67, 524-529		2
29	A cryogenic heat exchanger with bypass and throttling and its thermodynamic analysis. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2015</b> , 101, 012167	0.4	1
28	Influence of regenerator void volume on performance of a precooled 4 K Stirling type pulse tube cryocooler. <i>Cryogenics</i> , <b>2015</b> , 70, 34-40	1.8	2
27	Experimental investigation on a pulsating heat pipe with hydrogen. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2015</b> , 101, 012065	0.4	7
26	Heat transfer of laminar oscillating flow in finned heat exchanger of pulse tube refrigerator. <i>International Journal of Heat and Mass Transfer</i> , <b>2014</b> , 70, 811-818	4.9	27

25	Real gas effects on the temperature profile of regenerators. <i>Cryogenics</i> , <b>2014</b> , 61, 31-37	1.8	8
24	A cascade pulse tube cooler with work recovery <b>2014</b> ,		1
23	Performance improvement of multi-stage pulse tube cryocoolers with a self-precooled pulse tube. <i>Cryogenics</i> , <b>2012</b> , 52, 575-579	1.8	12
22	Determination of the operation range of a vertical two-phase closed thermosyphon. <i>Heat and Mass Transfer</i> , <b>2012</b> , 48, 1043-1055	2.2	20
21	The performance comparison of Oxford and triangle flexure bearings <b>2012</b> ,		3
20	The performance of a linear compressor with triangle flexure bearings <b>2012</b> ,		2
19	Performance testing of linear compressors with RC approach <b>2012</b> ,		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> , <b>2012</b> , 19, 406-416	0.7	1
17	A three-stage Stirling pulse tube cryocooler operating below the critical point of helium-4. <i>Cryogenics</i> , <b>2011</b> , 51, 609-612	1.8	21
16	STUDY ON A SINGLE-STAGE 120 HZ PULSE TUBE CRYOCOOLER <b>2010</b> ,		5
15	Validation of full cavitation model in cryogenic fluids. <i>Science Bulletin</i> , <b>2009</b> , 54, 1633-1640	10.6	14
14	Liquid film dryout model for predicting critical heat flux in annular two-phase flow. <i>Journal of Zhejiang University: Science A</i> , <b>2009</b> , 10, 398-417	2.1	11
13	Measurement of boiling heat transfer coefficient in liquid nitrogen bath by inverse heat conduction method. <i>Journal of Zhejiang University: Science A</i> , <b>2009</b> , 10, 691-696	2.1	51
12	Performance improvement of vertical ice slurry generator by using bubbling device. <i>Energy Conversion and Management</i> , <b>2008</b> , 49, 83-88	10.6	14
11	APPROXIMATE DESIGN METHOD FOR SINGLE STAGE PULSE TUBE REFRIGERATORS. <i>AIP Conference Proceedings</i> , <b>2008</b> ,	0	7
10	MODELING AND EXPERIMENTS ON FAST COOLDOWN OF A 120 Hz PULSE TUBE CRYOCOOLER. <i>AIP Conference Proceedings</i> , <b>2008</b> ,	0	8
9	Study on a 5.0 W/80 K single stage Stirling type pulse tube cryocooler. <i>Journal of Zhejiang University: Science A</i> , <b>2008</b> , 9, 1277-1282	2.1	12
8	120Hz pulse tube cryocooler for fast cooldown to 50K. <i>Applied Physics Letters</i> , <b>2007</b> , 90, 072504	3.4	25

7	Development of a 4 K Separate Two-Stage Pulse Tube Refrigerator with High Efficiency. <i>AIP Conference Proceedings</i> , <b>2006</b> ,	0	1
6	THERMAL STABILITY AND TRANSPORT PROPERTIES OF Na <sub>0.495</sub> CoO <sub>2</sub> SINGLE CRYSTALS. <i>International Journal of Modern Physics B</i> , <b>2006</b> , 20, 3365-3372	1.1	
5	He-H <sub>2</sub> mixture and Er <sub>3</sub> NiH <sub>x</sub> packing for the refrigeration enhancement of pulse tube refrigerator. <i>Science Bulletin</i> , <b>2004</b> , 49, 527-530		2
4	Experimental Study on Two-stage Pulse Tube Refrigeration with Mixtures of Helium and Hydrogen <b>2003</b> , 325-329		
3	Pulse Tube Refrigeration with a Combined Cooling and Freezing Cycle for HTSC Devices <b>2002</b> , 291-299		
2	Discussion on refrigeration cycle for regenerative cryocoolers. <i>Cryogenics</i> , <b>2002</b> , 42, 133-139	1.8	4
1	Thermodynamic performance prediction of pulse tube refrigeration with mixture fluids. <i>Cryogenics</i> , <b>2000</b> , 40, 261-267	1.8	16