

Zihua Gan

List of Publications by Year in descending order

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64
papers

710
citations

516681

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642715

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64
all docs

64
docs citations

64
times ranked

404
citing authors

#	ARTICLE	IF	CITATIONS
1	Measurement of boiling heat transfer coefficient in liquid nitrogen bath by inverse heat conduction method. Journal of Zhejiang University: Science A, 2009, 10, 691-696.	2.4	61
2	120Hz pulse tube cryocooler for fast cooldown to 50K. Applied Physics Letters, 2007, 90, 072504.	3.3	35
3	Heat transfer of laminar oscillating flow in finned heat exchanger of pulse tube refrigerator. International Journal of Heat and Mass Transfer, 2014, 70, 811-818.	4.8	32
4	An approach to combine the second-order and third-order analysis methods for optimization of a Stirling engine. Energy Conversion and Management, 2018, 165, 447-458.	9.2	31
5	A cascade pulse tube cooler capable of energy recovery. Applied Energy, 2016, 164, 572-578.	10.1	30
6	A three-stage Stirling pulse tube cryocooler operating below the critical point of helium-4. Cryogenics, 2011, 51, 609-612.	1.7	29
7	Determination of the operation range of a vertical two-phase closed thermosyphon. Heat and Mass Transfer, 2012, 48, 1043-1055.	2.1	25
8	A potential approach for reducing the R290 charge in air conditioners and heat pumps. International Journal of Refrigeration, 2019, 101, 47-55.	3.4	24
9	Experimental Study on a Hydrogen Closed Loop Pulsating Heat Pipe with Different Adiabatic Lengths. Heat Transfer Engineering, 2019, 40, 205-214.	1.9	23
10	Validation of full cavitation model in cryogenic fluids. Science Bulletin, 2009, 54, 1633-1640.	9.0	20
11	Thermodynamic performance prediction of pulse tube refrigeration with mixture fluids. Cryogenics, 2000, 40, 261-267.	1.7	19
12	Liquid film dryout model for predicting critical heat flux in annular two-phase flow. Journal of Zhejiang University: Science A, 2009, 10, 398-417.	2.4	19
13	A general model of Stirling refrigerators and its verification. Energy Conversion and Management, 2019, 188, 54-65.	9.2	19
14	Numerical simulation of a GM-type pulse tube cryocooler system: Part II. Rotary valve and cold head. Cryogenics, 2017, 81, 100-106.	1.7	18
15	Performance improvement of vertical ice slurry generator by using bubbling device. Energy Conversion and Management, 2008, 49, 83-88.	9.2	17
16	Experimental study on hydrogen pulsating heat pipes under different number of turns. Cryogenics, 2020, 111, 103174.	1.7	17
17	Performance improvement of multi-stage pulse tube cryocoolers with a self-precooled pulse tube. Cryogenics, 2012, 52, 575-579.	1.7	16
18	Temperature and mass-flow behavior of a He-4 Joule-Thomson cryocooler. International Journal of Heat and Mass Transfer, 2017, 109, 1094-1099.	4.8	16

#	ARTICLE	IF	CITATIONS
19	Numerical simulation of a GM-type pulse tube cryocooler system: Part I. Characterization of compressors. <i>Cryogenics</i> , 2017, 81, 8-13.	1.7	16
20	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.	4.8	16
21	Experimental study on a hydrogen closed-loop pulsating heat pipe with two turns. <i>Cryogenics</i> , 2019, 97, 63-69.	1.7	14
22	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.	2.4	13
23	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.	6.0	13
24	Real gas effects on the temperature profile of regenerators. <i>Cryogenics</i> , 2014, 61, 31-37.	1.7	12
25	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.	4.8	12
26	The thermodynamic characteristics of a Stirling/pulse tube hybrid cryocooler. <i>Cryogenics</i> , 2018, 96, 133-143.	1.7	11
27	Thermodynamic analysis of the working states of the Stirling/pulse tube hybrid cryocooler. <i>Applied Thermal Engineering</i> , 2020, 170, 115024.	6.0	11
28	Characterization and monitoring of vacuum pressure of tank containers with multilayer insulation for cryogenic clean fuels storage and transportation. <i>Applied Thermal Engineering</i> , 2021, 187, 116569.	6.0	11
29	Numerical investigation on pulsating heat pipes with nitrogen or hydrogen. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017, 278, 012056.	0.6	9
30	Acoustic-Mechanical-Electrical (AcME) coupling between the linear compressor and the Stirling-type cryocoolers. <i>International Journal of Refrigeration</i> , 2019, 100, 175-183.	3.4	9
31	Experimental study on a floating scroll-type compressor driving a precooled JT cryocooler. <i>Applied Thermal Engineering</i> , 2020, 178, 115627.	6.0	9
32	APPROXIMATE DESIGN METHOD FOR SINGLE STAGE PULSE TUBE REFRIGERATORS. <i>AIP Conference Proceedings</i> , 2008, , .	0.4	8
33	MODELING AND EXPERIMENTS ON FAST COOLDOWN OF A 120 Hz PULSE TUBE CRYOCOOLER. <i>AIP Conference Proceedings</i> , 2008, , .	0.4	8
34	Discussion on refrigeration cycle for regenerative cryocoolers. <i>Cryogenics</i> , 2002, 42, 133-139.	1.7	7
35	STUDY ON A SINGLE-STAGE 120 HZ PULSE TUBE CRYOCOOLER. , 2010, , .		7
36	Experimental investigation on a pulsating heat pipe with hydrogen. <i>IOP Conference Series: Materials Science and Engineering</i> , 2015, 101, 012065.	0.6	7

#	ARTICLE	IF	CITATIONS
37	A high efficiency stirling-type pulse tube refrigerator for cooling above 200ÅK. Energy, 2021, 215, 119120.	8.8	6
38	Experimental study on a hydrogen pulsating heat pipe in different heating modes. Cryogenics, 2022, 123, 103440.	1.7	6
39	The performance comparison of Oxford and triangle flexure bearings. AIP Conference Proceedings, 2012, , .	0.4	5
40	Performance investigation of a domestic freezer with micro-bare-tube evaporators. Applied Thermal Engineering, 2020, 174, 115306.	6.0	5
41	Simulation of the Optimal Refrigerated Floor Design for Ice Rinks. Energies, 2021, 14, 1535.	3.1	5
42	A two-stage thermally-coupled pulse tube cryocooler working at 35ÅK for space application. Acta Astronautica, 2022, 191, 193-203.	3.2	5
43	Performance testing of linear compressors with RC approach. AIP Conference Proceedings, 2012, , .	0.4	4
44	Cold Inertance Tube for 4 K Stirling Type Pulse Tube Cryocoolers. Physics Procedia, 2015, 67, 451-455.	1.2	4
45	Performance analysis on free-piston Stirling cryocooler based on an idealized mathematical model. IOP Conference Series: Materials Science and Engineering, 2017, 278, 012174.	0.6	4
46	Characterization of a scroll-type compressor for driving JT cryocoolers working at liquid helium temperature. IOP Conference Series: Materials Science and Engineering, 0, 502, 012056.	0.6	4
47	Influence of regenerator void volume on performance of a precooled 4 K Stirling type pulse tube cryocooler. Cryogenics, 2015, 70, 34-40.	1.7	3
48	Acoustic power measurement of linear compressors. Cryogenics, 2018, 96, 10-17.	1.7	3
49	He-H2 mixture and Er3NiHx packing for the refrigeration enhancement of pulse tube refrigerator. Science Bulletin, 2004, 49, 527-530.	1.7	2
50	The performance of a linear compressor with triangle flexure bearings. , 2012, , .		2
51	Study on a Cascade Pulse Tube Cooler with Work Recovery. Physics Procedia, 2015, 67, 524-529.	1.2	2
52	Experimental Study on Two-stage Pulse Tube Refrigeration with Mixtures of Helium and Hydrogen. , 2003, , 325-329.		1
53	Development of a 4 K Separate Two-Stage Pulse Tube Refrigerator with High Efficiency. AIP Conference Proceedings, 2006, , .	0.4	1
54	NUMERICAL SIMULATION OF FLOW AND HEAT TRANSFER CHARACTERISTIC OF 4K REGENERATORS AT HIGH FREQUENCY. International Journal of Modern Physics Conference Series, 2012, 19, 406-416.	0.7	1

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55	A cascade pulse tube cooler with work recovery. , 2014, , .		1
56	A cryogenic heat exchanger with bypass and throttling and its thermodynamic analysis. IOP Conference Series: Materials Science and Engineering, 2015, 101, 012167.	0.6	1
57	Cooling-capacity characteristics of Helium-4 JT cryocoolers. IOP Conference Series: Materials Science and Engineering, 2017, 278, 012085.	0.6	1
58	Pulse Tube Refrigeration with a Combined Cooling and Freezing Cycle for HTSC Devices. , 2002, , 291-299.		0
59	An experimental investigation on pulse tube refrigeration with mixture fluids. AIP Conference Proceedings, 2002, , .	0.4	0
60	THERMAL STABILITY AND TRANSPORT PROPERTIES OF Na _{0.495} CoO ₂ SINGLE CRYSTALS. International Journal of Modern Physics B, 2006, 20, 3365-3372.	2.0	0
61	THEORETICAL AND EXPERIMENTAL INVESTIGATION OF A 4 K SINGLE-STAGE STIRLING TYPE PULSE TUBE CRYOCOOLER WITH PRECOOLING. , 2010, , .		0
62	Study on G-M type pulse tube cryocooler with a novel active gas distribution system. , 2012, , .		0
63	Design of a valved moving magnet type linear compressor for a Joule-Thomson cryocooler. , 2014, , .		0
64	Influence of hot end heat exchangers on cascading three pulse tube coolers. IOP Conference Series: Materials Science and Engineering, 2017, 278, 012144.	0.6	0