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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.

40
papers

306
citations

11
h-index

16
g-index

42
ext. papers

437
ext. citations

4.2
avg, IF

3.69
L-index

#	Paper	IF	Citations
40	The State of the Art: Lightweight Cryocoolers Working in the Liquid-Helium Temperature Range. <i>Journal of Low Temperature Physics</i> , 2022 , 206, 321	1.3	1
39	Thermal physical properties of the golden pomfret at low temperatures. <i>International Journal of Food Engineering</i> , 2021 , 17, 309-317	1.9	
38	Study on the use of porous materials with adsorbed helium as the regenerator of cryocooler at temperatures below 10 K. <i>Applied Physics Letters</i> , 2021 , 118, 143902	3.4	1
37	Effects of Isochoric Freezing Conditions on Cut Potato Quality. <i>Foods</i> , 2021 , 10,	4.9	2
36	Cryogenic thermal conductivity of 7050 aluminum alloy subjected to different heat treatments. <i>Cryogenics</i> , 2021 , 116, 103305	1.8	1
35	Measurement of apparent thermal conductivity of regenerator materials in 400 K temperature range. <i>Cryogenics</i> , 2021 , 116, 103300	1.8	1
34	A novel cryogenic condensation system based on heat-driven refrigerator without power input for volatile organic compounds recovery. <i>Energy Conversion and Management</i> , 2021 , 238, 114157	10.6	2
33	Study on a novel energy-saving cryogenic pre-treatment equipment for walnut kernel peeling. <i>Food Control</i> , 2021 , 121, 107650	6.2	1
32	Performance improvement of a pulse tube cryocooler with a single compressor through cascade utilization of cold energy. <i>Frontiers in Energy</i> , 2021 , 15, 345-357	2.6	0
31	Phase change interface stability during isochoric solidification of an aqueous solution. <i>Applied Physics Letters</i> , 2020 , 117, 133701	3.4	5
30	Progress and Challenges of Sub-Kelvin Sorption Cooler and Its Prospects for Space Application. <i>Journal of Low Temperature Physics</i> , 2020 , 199, 1363-1381	1.3	3
29	Thermodynamics and Economics of Different Asymmetric Cold Energy Transfer in a Liquid Air Energy Storage System. <i>Energy Technology</i> , 2020 , 8, 1901487	3.5	6
28	Thermodynamic optimization of composite insulation system with cold shield for liquid hydrogen zero-boil-off storage. <i>Renewable Energy</i> , 2020 , 147, 824-832	8.1	10
27	Attaining the liquid helium temperature with a compact pulse tube cryocooler for space applications. <i>Science China Technological Sciences</i> , 2020 , 63, 434-439	3.5	2
26	A high-efficiency liquid hydrogen storage system cooled by a fuel-cell-driven refrigerator for hydrogen combustion heat recovery. <i>Energy Conversion and Management</i> , 2020 , 226, 113496	10.6	13
25	Development of an in-situ analysis instrument for microstructure of materials with low temperature. <i>IOP Conference Series: Materials Science and Engineering</i> , 2020 , 756, 012021	0.4	0
24	Experimental study on a 20W/80K high frequency pulse tube cryocooler. <i>IOP Conference Series: Materials Science and Engineering</i> , 2020 , 755, 012038	0.4	

23	A Novel Composite Insulation System of Hollow Glass Microspheres and Multilayer Insulation with Self-Evaporating Vapor Cooled Shield for Liquid Hydrogen Storage. <i>Energy Technology</i> , 2020 , 8, 2000591-3-5		2
22	A novel cryogenic insulation system of hollow glass microspheres and self-evaporation vapor-cooled shield for liquid hydrogen storage. <i>Frontiers in Energy</i> , 2020 , 14, 570-577	2.6	1
21	Energy and exergy equilibrium analysis of Stirling-type thermal compressor (STC) as the core part in thermal-driven Vuilleumier machines. <i>Energy Conversion and Management</i> , 2019 , 199, 111961	10.6	3
20	Thermodynamic modelling and optimization of self-evaporation vapor cooled shield for liquid hydrogen storage tank. <i>Energy Conversion and Management</i> , 2019 , 184, 74-82	10.6	26
19	An 80 mW/8 K high-frequency pulse tube refrigerator driven by only one linear compressor. <i>Cryogenics</i> , 2019 , 101, 7-11	1.8	10
18	A novel insulation system based on active cooling without power input for liquid hydrogen storage. <i>Energy</i> , 2019 , 182, 1-10	7.9	14
17	Thermodynamic analysis and comparison of four insulation schemes for liquid hydrogen storage tank. <i>Energy Conversion and Management</i> , 2019 , 186, 526-534	10.6	30
16	First stirling-type cryocooler reaching lambda point of 4He (2.17 K) and its prospect in Chinese HUBS satellite project. <i>Science Bulletin</i> , 2019 , 64, 219-221	10.6	10
15	Micro-plastic deformation behavior of Al-Zn-Mg-Cu alloy subjected to cryo-cycling treatment. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 742, 672-679	5.3	16
14	Effect of cryogenic freezing combined with precooling on freezing rates and the quality of golden pomfret (<i>Trachinotus ovatus</i>). <i>Journal of Food Process Engineering</i> , 2019 , 42, e13296	2.4	2
13	Numerical and experimental study of VM type pulse tube cryocooler with multi-bypass operating below 4 K. <i>Cryogenics</i> , 2019 , 98, 71-79	1.8	12
12	A study of mK cooling system for space application. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019 , 502, 012063	0.4	1
11	Numerical and experimental study on the characteristics of 4K gas-coupled Stirling-type pulse tube cryocooler. <i>International Journal of Refrigeration</i> , 2018 , 88, 204-210	3.8	19
10	Study on a high frequency pulse tube cryocooler capable of achieving temperatures below 4 K by helium-4. <i>Cryogenics</i> , 2018 , 94, 103-109	1.8	23
9	Experimental study on composite insulation system of spray on foam insulation and variable density multilayer insulation. <i>Applied Thermal Engineering</i> , 2018 , 130, 161-168	5.8	20
8	Thermal Conductivity of Open Cell Aluminum Foam and Its Application as Advanced Thermal Storage Unit at Low Temperature. <i>Rare Metal Materials and Engineering</i> , 2018 , 47, 1049-1053		5
7	Thermal analysis of Stirling thermocompressor and its prospect to drive refrigerator by using natural working fluid. <i>Energy Conversion and Management</i> , 2018 , 177, 280-291	10.6	5
6	10K high frequency pulse tube cryocooler with precooling. <i>Cryogenics</i> , 2016 , 77, 15-19	1.8	9

5	An Optical Cryostat for Use in Microscopy Cooled by Stirling-Type Pulse Tube Cryocooler. <i>Physics Procedia</i> , 2015 , 67, 354-359		3
4	Development of a high-frequency coaxial multi-bypass pulse tube refrigerator below 14 K. <i>Cryogenics</i> , 2015 , 67, 28-30	1.8	17
3	386 mW/20 K single-stage Stirling-type pulse tube cryocooler. <i>Cryogenics</i> , 2013 , 57, 195-199	1.8	21
2	Coupling study of a novel thermocompressor driven pulse tube refrigerator. <i>Applied Thermal Engineering</i> , 2013 , 51, 630-634	5.8	9
1	Comparative study on thermodynamic characteristics of composite thermal insulation systems with liquid methane, oxygen, and hydrogen. <i>Journal of Thermal Science and Engineering Applications</i> , 1-18	1.9	