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List of Publications by Year in descending order

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573
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citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Thermodynamic analysis and comparison of four insulation schemes for liquid hydrogen storage tank. Energy Conversion and Management, 2019, 186, 526-534. | 9.2 | 62 |
| 2 | Thermodynamic modelling and optimization of self-evaporation vapor cooled shield for liquid hydrogen storage tank. Energy Conversion and Management, 2019, 184, 74-82. | 9.2 | 48 |
| 3 | Experimental study on composite insulation system of spray on foam insulation and variable density multilayer insulation. Applied Thermal Engineering, 2018, 130, 161-168. | 6.0 | 39 |
| 4 | Study on a high frequency pulse tube cryocooler capable of achieving temperatures below 4K by helium-4. Cryogenics, 2018, 94, 103-109. | 1.7 | 36 |
| 5 | Numerical and experimental study on the characteristics of 4K gas-coupled Stirling-type pulse tube cryocooler. International Journal of Refrigeration, 2018, 88, 204-210. | 3.4 | 28 |
| 6 | A novel insulation system based on active cooling without power input for liquid hydrogen storage. Energy, 2019, 182, 1-10. | 8.8 | 28 |
| 7 | 386mW/20K single-stage Stirling-type pulse tube cryocooler. Cryogenics, 2013, 57, 195-199. | 1.7 | 25 |
| 8 | A high-efficiency liquid hydrogen storage system cooled by a fuel-cell-driven refrigerator for hydrogen combustion heat recovery. Energy Conversion and Management, 2020, 226, 113496. | 9.2 | 25 |
| 9 | Development of a high-frequency coaxial multi-bypass pulse tube refrigerator below 14K. Cryogenics, 2015, 67, 28-30. | 1.7 | 23 |
| 10 | An 80mW/8K high-frequency pulse tube refrigerator driven by only one linear compressor. Cryogenics, 2019, 101, 7-11. | 1.7 | 20 |
| 11 | Micro-plastic deformation behavior of Al-Zn-Mg-Cu alloy subjected to cryo-cycling treatment. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 742, 672-679. | 5.6 | 19 |
| 12 | Thermodynamic optimization of composite insulation system with cold shield for liquid hydrogen zero-boil-off storage. Renewable Energy, 2020, 147, 824-832. | 8.9 | 18 |
| 13 | First stirling-type cryocooler reaching lambda point of 4He (2.17K) and its prospect in Chinese HUBS satellite project. Science Bulletin, 2019, 64, 219-221. | 9.0 | 14 |
| 14 | Energy and exergy equilibrium analysis of Stirling-type thermal compressor (STC) – The core part in thermal-driven Vuilleumier machines. Energy Conversion and Management, 2019, 199, 111961. | 9.2 | 13 |
| 15 | Numerical and experimental study of VM type pulse tube cryocooler with multi-bypass operating below 4K. Cryogenics, 2019, 98, 71-79. | 1.7 | 13 |
| 16 | Thermodynamics and Economics of Different Asymmetric Cold Energy Transfer in a Liquid Air Energy Storage System. Energy Technology, 2020, 8, 1901487. | 3.8 | 13 |
| 17 | 10K high frequency pulse tube cryocooler with precooling. Cryogenics, 2016, 77, 15-19. | 1.7 | 12 |
| 18 | Thermal analysis of Stirling thermocompressor and its prospect to drive refrigerator by using natural working fluid. Energy Conversion and Management, 2018, 177, 280-291. | 9.2 | 12 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | 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. | 2.3 | 12 |
| 20 | Effects of Isochoric Freezing Conditions on Cut Potato Quality. <i>Foods</i> , 2021, 10, 974. | 4.3 | 11 |
| 21 | Coupling study of a novel thermocompressor driven pulse tube refrigerator. <i>Applied Thermal Engineering</i> , 2013, 51, 630-634. | 6.0 | 10 |
| 22 | Attaining the liquid helium temperature with a compact pulse tube cryocooler for space applications. <i>Science China Technological Sciences</i> , 2020, 63, 434-439. | 4.0 | 10 |
| 23 | 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. | 9.2 | 10 |
| 24 | 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. | 3.8 | 8 |
| 25 | Phase change interface stability during isochoric solidification of an aqueous solution. <i>Applied Physics Letters</i> , 2020, 117, . | 3.3 | 8 |
| 26 | 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. | 1.4 | 8 |
| 27 | Cryogenic thermal conductivity of 7050 aluminum alloy subjected to different heat treatments. <i>Cryogenics</i> , 2021, 116, 103305. | 1.7 | 8 |
| 28 | 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. | 0.8 | 7 |
| 29 | 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. | 2.9 | 7 |
| 30 | The State of the Art: Lightweight Cryocoolers Working in the Liquid-Helium Temperature Range. <i>Journal of Low Temperature Physics</i> , 2022, 206, 321-359. | 1.4 | 7 |
| 31 | Study on a novel energy-saving cryogenic pre-treatment equipment for walnut kernel peeling. <i>Food Control</i> , 2021, 121, 107650. | 5.5 | 5 |
| 32 | An Optical Cryostat for Use in Microscopy Cooled by Stirling-Type Pulse Tube Cryocooler. <i>Physics Procedia</i> , 2015, 67, 354-359. | 1.2 | 4 |
| 33 | 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, . | 3.3 | 3 |
| 34 | Measurement of apparent thermal conductivity of regenerator materials in 4–20K temperature range. <i>Cryogenics</i> , 2021, 116, 103300. | 1.7 | 3 |
| 35 | A study of mK cooling system for space application. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019, 502, 012063. | 0.6 | 1 |
| 36 | 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. | 0.6 | 1 |

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|----|--|-----|-----------|
| 37 | 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. | 2.3 | 1 |
| 38 | 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> , 0, , 1-18. | 1.5 | 1 |
| 39 | Experimental study on a 20W/80K high frequency pulse tube cryocooler. <i>IOP Conference Series: Materials Science and Engineering</i> , 2020, 755, 012038. | 0.6 | 0 |
| 40 | Thermal physical properties of the golden pomfret at low temperatures. <i>International Journal of Food Engineering</i> , 2021, 17, 309-317. | 1.5 | 0 |
| 41 | A thermal-coupled/gas-coupled hybrid high-frequency pulse tube cryocooler attaining the liquid-helium temperature. <i>IOP Conference Series: Materials Science and Engineering</i> , 2022, 1240, 012025. | 0.6 | 0 |
| 42 | Investigation on the dynamic adsorption characteristics of activated carbon to Helium-4 for 4-20 K regenerator of cryocoolers. <i>IOP Conference Series: Materials Science and Engineering</i> , 2022, 1240, 012026. | 0.6 | 0 |