

Isabel Catarino

List of Publications by Year in descending order

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34
papers

338
citations

933447

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839539

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docs citations

34
times ranked

256
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 1 | Thermodynamic analysis for working fluids comparison in Rankine-type cycles exploiting the cryogenic exergy in Liquefied Natural Gas (LNG) regasification. <i>Applied Thermal Engineering</i> , 2017, 121, 887-896. | 6.0 | 55 |
| 2 | Neon gas-gap heat switch. <i>Cryogenics</i> , 2008, 48, 17-25. | 1.7 | 45 |
| 3 | A Study of the Thermal Decomposition of Azidoacetone by Photoelectron and Matrix Isolation Spectroscopy. <i>Journal of Physical Chemistry A</i> , 1999, 103, 8239-8245. | 2.5 | 43 |
| 4 | ³ He gas gap heat switch. <i>Cryogenics</i> , 2011, 51, 45-48. | 1.7 | 20 |
| 5 | Gas gap thermal switches using neon or hydrogen and sorption pump. <i>Vacuum</i> , 2009, 83, 1270-1273. | 3.5 | 18 |
| 6 | Structural Transitions in the MIL-53(Al) Metal-Organic Framework upon Cryogenic Hydrogen Adsorption. <i>Journal of Physical Chemistry C</i> , 2017, 121, 24252-24263. | 3.1 | 17 |
| 7 | Narrow gas gap in cryogenic heat switch. <i>Applied Thermal Engineering</i> , 2014, 70, 115-121. | 6.0 | 15 |
| 8 | Eco-innovation in the cleaning process: An application of dry ice blasting in automotive painting industry. <i>Journal of Cleaner Production</i> , 2020, 272, 122987. | 9.3 | 14 |
| 9 | 6K solid state Energy Storage Unit. <i>Cryogenics</i> , 2010, 50, 102-110. | 1.7 | 11 |
| 10 | 20K Energy storage unit. <i>Cryogenics</i> , 2009, 49, 326-333. | 1.7 | 10 |
| 11 | A simple calorimeter for fast adiabatic heat capacity measurements from 15 to 300 K based on closed cycle cryocooler. <i>Cryogenics</i> , 2000, 40, 425-430. | 1.7 | 9 |
| 12 | Sorption characterization and actuation of a gas-gap heat switch. <i>Sensors and Actuators A: Physical</i> , 2011, 171, 324-331. | 4.1 | 9 |
| 13 | Liquid nitrogen energy storage unit. <i>Cryogenics</i> , 2011, 51, 621-629. | 1.7 | 9 |
| 14 | Building a Thinner Gap in a Gas-Gap Heat Switch. <i>Physics Procedia</i> , 2015, 67, 1117-1122. | 1.2 | 9 |
| 15 | Evolution of magnetism in the UFe _x Al _{12-2x} intermetallic series. <i>Physica B: Condensed Matter</i> , 2000, 284-288, 1339-1340. | 2.7 | 7 |
| 16 | Ab initio and density functional study of azidoacetone. <i>Computational and Theoretical Chemistry</i> , 1997, 397, 223-230. | 1.5 | 5 |
| 17 | The CAMCAO infrared camera. , 2004, 5492, 1699. | | 5 |
| 18 | CUSTOMIZABLE GAS-GAP HEAT SWITCH. <i>AIP Conference Proceedings</i> , 2010, , . | 0.4 | 5 |

| # | ARTICLE | IF | CITATIONS |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 19 | Magnetic properties of UFe ₅ Sn single crystals. Journal of Magnetism and Magnetic Materials, 2003, 260, 473-479. | 2.3 | 4 |
| 20 | 40 K Liquid Neon Energy Storage Unit. Physics Procedia, 2015, 67, 1193-1198. | 1.2 | 4 |
| 21 | Numerical and Experimental Analysis of an Inductive Type Fault Current Limiter Using Short-Circuited 2G Tape. IEEE Transactions on Applied Superconductivity, 2018, , 1-1. | 1.7 | 4 |
| 22 | Wien-filtered Cs ⁺ beam for SIMS: source description. Applied Surface Science, 1993, 70-71, 291-294. | 6.1 | 3 |
| 23 | Magnetism of the series UFe _x Al _{12-x} . Journal of Magnetism and Magnetic Materials, 2001, 226-230, 1120-1122. | 2.3 | 3 |
| 24 | Liquid gas cryogenic energy storage units operating at constant temperature. Applied Thermal Engineering, 2016, 95, 178-185. | 6.0 | 3 |
| 25 | Energy storage unit: Solid state demonstrators at 20K and 6K. Cryogenics, 2010, 50, 522-528. | 1.7 | 2 |
| 26 | Gas gap heat switch for a cryogen-free magnet system. IOP Conference Series: Materials Science and Engineering, 2015, 101, 012144. | 0.6 | 2 |
| 27 | Materials for damping the PTC-induced thermal fluctuations of the cold-head. IOP Conference Series: Materials Science and Engineering, 2015, 102, 012014. | 0.6 | 2 |
| 28 | Simple specific heat apparatus based on Gifford-Mac Mahon cryocooler. Physica B: Condensed Matter, 2000, 284-288, 2020-2021. | 2.7 | 1 |
| 29 | The effect of Th substitution for U in the heavy fermion U ₂ Pt ₂ In. Journal of Alloys and Compounds, 2001, 317-318, 419-422. | 5.5 | 1 |
| 30 | Non-Fermi-liquid behaviour of the (U _{1-x} Th _x) ₂ Pt ₂ In solid solutions. Journal of Magnetism and Magnetic Materials, 2001, 226-230, 92-94. | 2.3 | 1 |
| 31 | Single-crystal study on the heavy-fermion antiferromagnet UZn ₁₂ . Journal of Physics Condensed Matter, 2011, 23, 045602. | 1.8 | 1 |
| 32 | 15 K liquid hydrogen thermal Energy Storage Unit for future ESA science missions. IOP Conference Series: Materials Science and Engineering, 2015, 101, 012191. | 0.6 | 1 |
| 33 | Magnetic field dependence of the non-Fermi-liquid state in ferromagnetic CePd _{1-x} Ni _x . Journal of Magnetism and Magnetic Materials, 2004, 272-276, 207-208. | 2.3 | 0 |
| 34 | Feasibility study of parallel conduction cooling of NbTi magnet and sample probe in a cryogen-free magnet system. IOP Conference Series: Materials Science and Engineering, 2017, 171, 012127. | 0.6 | 0 |