

Franklin K Miller

List of Publications by Citations

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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.

38
papers

195
citations

8
h-index

12
g-index

43
ext. papers

247
ext. citations

2.4
avg, IF

3.41
L-index

#	Paper	IF	Citations
38	Night sky cooling for concentrating solar power plants. <i>Applied Energy</i> , 2016 , 180, 276-286	10.7	32
37	Results of a three evaporator cryogenic helium Pulsating Heat Pipe. <i>International Journal of Heat and Mass Transfer</i> , 2018 , 120, 1275-1286	4.9	20
36	Experimental heat transfer analysis of a cryogenic nitrogen pulsating heat Pipe at various liquid fill ratios. <i>Applied Thermal Engineering</i> , 2018 , 130, 343-353	5.8	19
35	A helium based pulsating heat pipe for superconducting magnets 2014 ,		17
34	ADR design for the Soft X-ray Spectrometer instrument on the Astro-H mission. <i>Cryogenics</i> , 2010 , 50, 494-499	1.8	14
33	A simple method for the analysis of sub-Kelvin refrigerators that use a dilute superfluid $3\text{He}-4\text{He}$ mixture as a working fluid. <i>Cryogenics</i> , 2001 , 41, 311-318	1.8	11
32	Development of a low-dissipation valve for use in a cold-cycle dilution refrigerator. <i>Cryogenics</i> , 1999 , 39, 859-863	1.8	9
31	Numerical study on the working performance of a G-M cryocooler with a mechanically driven displacer. <i>International Journal of Heat and Mass Transfer</i> , 2017 , 115, 611-618	4.9	8
30	Design and Operation of a Cryogenic Nitrogen Pulsating Heat Pipe. <i>IOP Conference Series: Materials Science and Engineering</i> , 2015 , 101, 012064	0.4	8
29	Short communication: Thermal performance of a cryogenic helium pulsating heat pipe with three evaporator sections. <i>International Journal of Heat and Mass Transfer</i> , 2018 , 123, 655-656	4.9	6
28	Modeling, development, and experimental validation of a Joule-Thomson superfluid refrigerator using a pulse tube cryocooler. <i>Cryogenics</i> , 2014 , 61, 15-24	1.8	5
27	A sub-Kelvin superfluid pulse tube refrigerator driven by paramagnetic fountain effect pump. <i>Cryogenics</i> , 2014 , 62, 202-205	1.8	4
26	Measurements of the Superfluid Joule-Thomson Refrigerator Using High Concentration $3\text{He}-4\text{He}$ Mixtures. <i>Journal of Low Temperature Physics</i> , 2007 , 147, 559-578	1.3	4
25	Proof-of-Principle Measurements of the Superfluid Joule-Thomson Refrigerator Concept. <i>Journal of Low Temperature Physics</i> , 2005 , 141, 179-190	1.3	4
24	Quench Detection and Protection of an HTS Coil. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017 , 278, 012182	0.4	3
23	Development of a thermodynamic model for a cold cycle $3\text{He}-4\text{He}$ dilution refrigerator. <i>Cryogenics</i> , 2016 , 79, 85-95	1.8	3
22	Development and testing of a passive check valve for cryogenic applications. <i>Cryogenics</i> , 2014 , 64, 244-248		3

21	Modeling and development of a superfluid magnetic pump with no moving parts 2012 ,		3
20	Solid deposition in the ITER cryogenic viscous compressor. <i>Cryogenics</i> , 2016 , 78, 14-26	1.8	3
19	Pulsed HTS Coil Performance. <i>IEEE Transactions on Applied Superconductivity</i> , 2017 , 27, 1-4	1.8	2
18	Numerical modeling and analytical modeling of cryogenic carbon capture in a de-sublimating heat exchanger. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017 , 278, 012032	0.4	2
17	Development of a proof of concept low temperature 4He Superfluid Magnetic Pump. <i>Cryogenics</i> , 2017 , 82, 68-82	1.8	2
16	Development of a He3/He4 sub Kelvin active magnetic regenerative refrigerator (AMRR) with no moving parts 2014 ,		2
15	Development of a Numerical Model of a Superfluid Magnetic Pump for Space Science Applications 2011 ,		2
14	The Experimental Evaluation of a Proof of Principle Superfluid Joule-Thomson Refrigerator. <i>AIP Conference Proceedings</i> , 2006 ,	0	2
13	Economic assessment and optimal operation of CSP systems with TES in California electricity markets 2017 ,		2
12	Numerical simulation of a low temperature hybrid refrigerator combining GM gas expansion refrigeration with magnetic refrigeration. <i>Cryogenics</i> , 2021 , 113, 103235	1.8	2
11	Numerical study of free surface flow in a 3-dimensional FLNG tank under coupled rotational wave excitations. <i>Journal of Marine Science and Technology</i> , 2018 , 23, 333-348	1.7	1
10	OPTIMIZATION OF A TWO-STAGE ADR FOR THE SOFT X-RAY SPECTROMETER (SXS) INSTRUMENT ON THE ASTRO-H MISSION 2010 ,		1
9	Numerical study of the thermal performance of a hydrogen pulsating heat pipe. <i>International Journal of Thermal Sciences</i> , 2022 , 172, 107302	4.1	1
8	Superconducting Current Leads Under Pulsed Current Conditions. <i>IEEE Transactions on Applied Superconductivity</i> , 2019 , 29, 1-5	1.8	0
7	Performance of nitrogen pulsating heat pipes as passive thermal switches in a redundant cryocooler application. <i>Applied Thermal Engineering</i> , 2021 , 196, 117213	5.8	0
6	Progress of cryogenic pulsating heat pipes at UW-Madison. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017 , 278, 012052	0.4	
5	Numerical study of heat transfer characteristics in BOG heat exchanger. <i>Cryogenics</i> , 2016 , 80, 97-107	1.8	
4	Construction and experimental validation of a simple, compact, resealable, and reliable Vycor () superleak assembly for use at low temperatures. <i>Review of Scientific Instruments</i> , 2016 , 87, 045112	1.7	

- 3 Novel 4He Circulator for Cooling of Large Space Superconducting Magnets. *Journal of Thermophysics and Heat Transfer*, **2016**, 30, 553-557 1.3
- 2 1-D transient numerical model of a regenerator in a novel sub Kelvin Active Magnetic Regenerative Refrigerator. *Cryogenics*, **2016**, 74, 73-80 1.8
- 1 Development of a low-temperature 3He compressor for superfluid $3\text{He}/4\text{He}$ mixtures. *Cryogenics*, **2007**, 47, 67-80 1.8