Franklin K Miller

List of Publications by Year in Descending Order

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	Numerical study of the thermal performance of a hydrogen pulsating heat pipe. *International Journal of Thermal Sciences*, **2022**, 172, 107302	4.1	1
37	Numerical simulation of a low temperature hybrid refrigerator combining GM gas expansion refrigeration with magnetic refrigeration. *Cryogenics*, **2021**, 113, 103235	1.8	2
36	Performance of nitrogen pulsating heat pipes as passive thermal switches in a redundant cryocooler application. *Applied Thermal Engineering*, **2021**, 196, 117213	5.8	0
35	Superconducting Current Leads Under Pulsed Current Conditions. *IEEE Transactions on Applied Superconductivity*, **2019**, 29, 1-5	1.8	0
34	Results of a three evaporator cryogenic helium Pulsating Heat Pipe. *International Journal of Heat and Mass Transfer*, **2018**, 120, 1275-1286	4.9	20
33	Numerical study of free surface flow in a 3-dimensional FLNG tank under coupled rotational heave excitations. *Journal of Marine Science and Technology*, **2018**, 23, 333-348	1.7	1
32	Short communication: Thermal performance of a cryogenic helium pulsating heat pipe with three evaporator sections. *International Journal of Heat and Mass Transfer*, **2018**, 123, 655-656	4.9	6
31	Experimental heat transfer analysis of a cryogenic nitrogen pulsating heat Pipe at various liquid fill ratios. *Applied Thermal Engineering*, **2018**, 130, 343-353	5.8	19
30	Pulsed HTS Coil Performance. *IEEE Transactions on Applied Superconductivity*, **2017**, 27, 1-4	1.8	2
29	Progress of cryogenic pulsating heat pipes at UW-Madison. *IOP Conference Series: Materials Science and Engineering*, **2017**, 278, 012052	0.4	
28	Numerical modeling and analytical modeling of cryogenic carbon capture in a de-sublimating heat exchanger. *IOP Conference Series: Materials Science and Engineering*, **2017**, 278, 012032	0.4	2
27	Quench Detection and Protection of an HTS Coil. *IOP Conference Series: Materials Science and Engineering*, **2017**, 278, 012182	0.4	3
26	Numerical study on the working performance of a G-M cryocooler with a mechanically driven displacer. *International Journal of Heat and Mass Transfer*, **2017**, 115, 611-618	4.9	8
25	Development of a proof of concept low temperature 4He Superfluid Magnetic Pump. *Cryogenics*, **2017**, 82, 68-82	1.8	2
24	Economic assessment and optimal operation of CSP systems with TES in California electricity markets **2017**,		2
23	Development of a thermodynamic model for a cold cycle 3He-4He dilution refrigerator. *Cryogenics*, **2016**, 79, 85-95	1.8	3
22	Numerical study of heat transfer characteristics in BOG heat exchanger. *Cryogenics*, **2016**, 80, 97-107	1.8	

#	Publication	IF	Citations
21	Construction and experimental validation of a simple, compact, resealable, and reliable Vycor(®) superleak assembly for use at low temperatures. *Review of Scientific Instruments*, **2016**, 87, 045112	1.7	
20	Novel 4He Circulator for Cooling of Large Space Superconducting Magnets. *Journal of Thermophysics and Heat Transfer*, **2016**, 30, 553-557	1.3	
19	1-D transient numerical model of a regenerator in a novel sub Kelvin Active Magnetic Regenerative Refrigerator. *Cryogenics*, **2016**, 74, 73-80	1.8	
18	Solid deposition in the ITER cryogenic viscous compressor. *Cryogenics*, **2016**, 78, 14-26	1.8	3
17	Night sky cooling for concentrating solar power plants. *Applied Energy*, **2016**, 180, 276-286	10.7	32
16	Design and Operation of a Cryogenic Nitrogen Pulsating Heat Pipe. *IOP Conference Series: Materials Science and Engineering*, **2015**, 101, 012064	0.4	8
15	Modeling, development, and experimental validation of a Joule–Thompson superfluid refrigerator using a pulse tube cryocooler. *Cryogenics*, **2014**, 61, 15-24	1.8	5
14	A sub-Kelvin superfluid pulse tube refrigerator driven by paramagnetic fountain effect pump. *Cryogenics*, **2014**, 62, 202-205	1.8	4
13	A helium based pulsating heat pipe for superconducting magnets **2014**,		17
12	Development of a He3–He4 sub Kelvin active magnetic regenerative refrigerator (AMRR) with no moving parts **2014**,		2
11	Development and testing of a passive check valve for cryogenic applications. *Cryogenics*, **2014**, 64, 244-247	1.8	3
10	Modeling and development of a superfluid magnetic pump with no moving parts **2012**,		3
9	Development of a Numerical Model of a Superfluid Magnetic Pump for Space Science Applications **2011**,		2
8	OPTIMIZATION OF A TWO-STAGE ADR FOR THE SOFT X-RAY SPECTROMETER (SXS) INSTRUMENT ON THE ASTRO-H MISSION **2010**,		1
7	ADR design for the Soft X-ray Spectrometer instrument on the Astro-H mission. *Cryogenics*, **2010**, 50, 494-499	1.8	14
6	Development of a low-temperature 3He compressor for superfluid 3He–4He mixtures. *Cryogenics*, **2007**, 47, 67-80	1.8	
5	Measurements of the Superfluid Joule–Thomson Refrigerator Using High Concentration 3He–4He Mixtures. *Journal of Low Temperature Physics*, **2007**, 147, 559-578	1.3	4
4	The Experimental Evaluation of a Proof of Principle Superfluid Joule-Thomson Refrigerator. *AIP Conference Proceedings*, **2006**,	0	2

3	Proof-of-Principle Measurements of the Superfluid Joule-Thomson Refrigerator Concept. *Journal of Low Temperature Physics*, **2005**, 141, 179-190	1.3	4
2	A simple method for the analysis of sub-Kelvin refrigerators that use a dilute superfluid 3He4He mixture as a working fluid. *Cryogenics*, **2001**, 41, 311-318	1.8	11
1	Development of a low-dissipation valve for use in a cold-cycle dilution refrigerator. *Cryogenics*, **1999**, 39, 859-863	1.8	9