Srinivas Vanapalli

List of Publications by Year in Descending Order

39 papers	310 citations	10 h-index	15 g-index
41 ext. papers	371 ext. citations	2.9 avg, IF	3.47 L-index

#	Paper	IF	Citations
39	Performance improvement of a PCM cold box by two bilayers configuration. *International Communications in Heat and Mass Transfer*, **2022**, 134, 105978	5.8	
38	Experimental and numerical study of insulation packages containing dry ice pellets. *Applied Thermal Engineering*, **2021**, 186, 116486	5.8	3
37	Systematic approach to determine the transient cooling power and heat leak of a commercial pulse tube cryocooler. *Cryogenics*, **2021**, 113, 103228	1.8	0
36	Cooldown of insulated metals in saturated and subcooled liquid nitrogen. *Cryogenics*, **2020**, 109, 103114	1.8	4
35	Heat-triggered two-phase flow maldistribution in a micromachined cryogenic cooler. *Cryogenics*, **2020**, 106, 103026	1.8	2
34	Impact dynamics and heat transfer characteristics of liquid nitrogen drops on a sapphire prism. *International Journal of Heat and Mass Transfer*, **2020**, 148, 118999	4.9	5
33	Cool-down time of a polypropylene vial quenched in liquid nitrogen. *International Communications in Heat and Mass Transfer*, **2020**, 118, 104821	5.8	2
32	Mechanics of Cooling Liquids by Forced Evaporation in Bubbles. *Physical Review Applied*, **2019**, 11,	4.3	1
31	Cooling of a vial in a snapfreezing device without using sacrificial cryogens. *Scientific Reports*, **2019**, 9, 3510	4.9	2
30	Heat transfer and pressure drop in microchannels with isotropically etched pillars at sub-ambient temperatures. *International Journal of Refrigeration*, **2019**, 98, 334-342	3.8	10
29	The Effect of a Magnetic Field on the Melting of Gallium in a Rectangular Cavity. *Heat Transfer Engineering*, **2019**, 40, 53-65	1.7	14
28	Advances on a cryogen-free Vuilleumier type pulse tube cryocooler. *Cryogenics*, **2017**, 82, 62-67	1.8	11
27	Numerical analysis of clogging dynamics in micromachined Joule□homson coolers. *International Journal of Refrigeration*, **2017**, 81, 60-68	3.8	8
26	An apparatus to measure the thermal conductivity of insulation panels at sub-ambient temperature. *International Journal of Refrigeration*, **2017**, 74, 644-650	3.8	2
25	Joule-Thomson microcooling developments at University of Twente. *IOP Conference Series: Materials Science and Engineering*, **2017**, 171, 012064	0.4	2
24	Does nanoparticles dispersed in a phase change material improve melting characteristics?. *International Communications in Heat and Mass Transfer*, **2017**, 89, 219-229	5.8	29
23	The scope of additive manufacturing in cryogenics, component design, and applications. *IOP Conference Series: Materials Science and Engineering*, **2017**, 278, 012134	0.4	4

22	A tissue snap-freezing apparatus without sacrificial cryogens. *IOP Conference Series: Materials Science and Engineering*, **2017**, 278, 012126	0.4	2
21	A micromachined Joule‐Thomson cryogenic cooler with parallel two-stage expansion. *International Journal of Refrigeration*, **2016**, 69, 223-231	3.8	12
20	Experimental study of the influence of cold heat exchanger geometry on the performance of a co-axial pulse tube cooler. *Cryogenics*, **2016**, 78, 78-82	1.8	2
19	Characterization of a thermoelectric/Joule‐Thomson hybrid microcooler. *Cryogenics*, **2016**, 77, 36-42	1.8	5
18	Cryogenic flat-panel gas-gap heat switch. *Cryogenics*, **2016**, 78, 83-88	1.8	17
17	Long-life micro vacuum chamber for a micromachined cryogenic cooler. *Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films*, **2015**, 33, 061601	2.9	2
16	A Passive, Adaptive and Autonomous Gas Gap heat Switch. *Physics Procedia*, **2015**, 67, 1206-1211		7
15	Compact flat-panel gas-gap heat switch operating at 295 K. *Review of Scientific Instruments*, **2015**, 86, 115116	1.7	6
14	Sensitivity of Micromachined Joule-Thomson Cooler to Clogging Due to Moisture. *Physics Procedia*, **2015**, 67, 417-422		5
13	Classical Behavior of Alumina (Al2O3) Nanofluids in Antifrogen N with Experimental Evidence. *Journal of Nanomaterials*, **2015**, 2015, 1-6	3.2	7
12	Assessment of thermal conductivity, viscosity and specific heat of nanofluids in single phase laminar internal forced convection. *International Journal of Heat and Mass Transfer*, **2013**, 64, 689-693	4.9	18
11	Clogging in micromachined Joule-Thomson coolers: Mechanism and preventive measures. *Applied Physics Letters*, **2013**, 103, 034107	3.4	12
10	Characterization of a two-stage 30 K Joule‐Thomson microcooler. *Journal of Micromechanics and Microengineering*, **2013**, 23, 065022	2	5
9	Micromachined cryogenic cooler for cooling electronic devices down to 30 K. *Journal of Micromechanics and Microengineering*, **2013**, 23, 025014	2	7
8	Cooling a low noise amplifier with a micromachined cryogenic cooler. *Review of Scientific Instruments*, **2013**, 84, 105102	1.7	6
7	Design and optimization of a two-stage 28K Joule‐Thomson microcooler. *Cryogenics*, **2012**, 52, 51-57	1.8	23
6	Thermoacoustic-Stirling Heat Pump for Domestic Applications **2010**,		1
5	Design of a Mechanical Resonator to Be Coupled to a Thermoacoustic Stirling-Engine **2010**,		3

4	High frequency pressure oscillator for microcryocoolers. *Review of Scientific Instruments*, **2008**, 79, 045103	1.7	5
3	MODELING AND EXPERIMENTS ON FAST COOLDOWN OF A 120 Hz PULSE TUBE CRYOCOOLER. *AIP Conference Proceedings*, **2008**,	0	8
2	120Hz pulse tube cryocooler for fast cooldown to 50K. *Applied Physics Letters*, **2007**, 90, 072504	3.4	25
1	Pressure drop of laminar gas flows in a microchannel containing various pillar matrices. *Journal of Micromechanics and Microengineering*, **2007**, 17, 1381-1386	2	33