

Srinivas Vanapalli

List of Publications by Citations

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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 | Pressure drop of laminar gas flows in a microchannel containing various pillar matrices. <i>Journal of Micromechanics and Microengineering</i> , 2007 , 17, 1381-1386 | 2 | 33 |
| 38 | Does nanoparticles dispersed in a phase change material improve melting characteristics?. <i>International Communications in Heat and Mass Transfer</i> , 2017 , 89, 219-229 | 5.8 | 29 |
| 37 | 120Hz pulse tube cryocooler for fast cooldown to 50K. <i>Applied Physics Letters</i> , 2007 , 90, 072504 | 3.4 | 25 |
| 36 | Design and optimization of a two-stage 28K Joule-Thomson microcooler. <i>Cryogenics</i> , 2012 , 52, 51-57 | 1.8 | 23 |
| 35 | Assessment of thermal conductivity, viscosity and specific heat of nanofluids in single phase laminar internal forced convection. <i>International Journal of Heat and Mass Transfer</i> , 2013 , 64, 689-693 | 4.9 | 18 |
| 34 | Cryogenic flat-panel gas-gap heat switch. <i>Cryogenics</i> , 2016 , 78, 83-88 | 1.8 | 17 |
| 33 | The Effect of a Magnetic Field on the Melting of Gallium in a Rectangular Cavity. <i>Heat Transfer Engineering</i> , 2019 , 40, 53-65 | 1.7 | 14 |
| 32 | A micromachined Joule-Thomson cryogenic cooler with parallel two-stage expansion. <i>International Journal of Refrigeration</i> , 2016 , 69, 223-231 | 3.8 | 12 |
| 31 | Clogging in micromachined Joule-Thomson coolers: Mechanism and preventive measures. <i>Applied Physics Letters</i> , 2013 , 103, 034107 | 3.4 | 12 |
| 30 | Advances on a cryogen-free Vuilleumier type pulse tube cryocooler. <i>Cryogenics</i> , 2017 , 82, 62-67 | 1.8 | 11 |
| 29 | Heat transfer and pressure drop in microchannels with isotropically etched pillars at sub-ambient temperatures. <i>International Journal of Refrigeration</i> , 2019 , 98, 334-342 | 3.8 | 10 |
| 28 | Numerical analysis of clogging dynamics in micromachined Joule-Thomson coolers. <i>International Journal of Refrigeration</i> , 2017 , 81, 60-68 | 3.8 | 8 |
| 27 | MODELING AND EXPERIMENTS ON FAST COOLDOWN OF A 120 Hz PULSE TUBE CRYOCOOLER. <i>AIP Conference Proceedings</i> , 2008 , | 0 | 8 |
| 26 | A Passive, Adaptive and Autonomous Gas Gap heat Switch. <i>Physics Procedia</i> , 2015 , 67, 1206-1211 | | 7 |
| 25 | Classical Behavior of Alumina (Al ₂ O ₃) Nanofluids in Antifrogen N with Experimental Evidence. <i>Journal of Nanomaterials</i> , 2015 , 2015, 1-6 | 3.2 | 7 |
| 24 | Micromachined cryogenic cooler for cooling electronic devices down to 30 K. <i>Journal of Micromechanics and Microengineering</i> , 2013 , 23, 025014 | 2 | 7 |
| 23 | Compact flat-panel gas-gap heat switch operating at 295 K. <i>Review of Scientific Instruments</i> , 2015 , 86, 115116 | 1.7 | 6 |

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| 22 | Cooling a low noise amplifier with a micromachined cryogenic cooler. <i>Review of Scientific Instruments</i> , 2013 , 84, 105102 | 1.7 | 6 |
| 21 | Sensitivity of Micromachined Joule-Thomson Cooler to Clogging Due to Moisture. <i>Physics Procedia</i> , 2015 , 67, 417-422 | | 5 |
| 20 | Characterization of a two-stage 30 K Joule-Thomson microcooler. <i>Journal of Micromechanics and Microengineering</i> , 2013 , 23, 065022 | 2 | 5 |
| 19 | High frequency pressure oscillator for microcryocoolers. <i>Review of Scientific Instruments</i> , 2008 , 79, 0451037 | 1.7 | 5 |
| 18 | Impact dynamics and heat transfer characteristics of liquid nitrogen drops on a sapphire prism. <i>International Journal of Heat and Mass Transfer</i> , 2020 , 148, 118999 | 4.9 | 5 |
| 17 | Characterization of a thermoelectric/Joule-Thomson hybrid microcooler. <i>Cryogenics</i> , 2016 , 77, 36-42 | 1.8 | 5 |
| 16 | Cooldown of insulated metals in saturated and subcooled liquid nitrogen. <i>Cryogenics</i> , 2020 , 109, 103114 | 1.8 | 4 |
| 15 | The scope of additive manufacturing in cryogenics, component design, and applications. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017 , 278, 012134 | 0.4 | 4 |
| 14 | Design of a Mechanical Resonator to Be Coupled to a Thermoacoustic Stirling-Engine 2010 , | | 3 |
| 13 | Experimental and numerical study of insulation packages containing dry ice pellets. <i>Applied Thermal Engineering</i> , 2021 , 186, 116486 | 5.8 | 3 |
| 12 | An apparatus to measure the thermal conductivity of insulation panels at sub-ambient temperature. <i>International Journal of Refrigeration</i> , 2017 , 74, 644-650 | 3.8 | 2 |
| 11 | Cooling of a vial in a snapfreezing device without using sacrificial cryogenes. <i>Scientific Reports</i> , 2019 , 9, 3510 | 4.9 | 2 |
| 10 | Long-life micro vacuum chamber for a micromachined cryogenic cooler. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2015 , 33, 061601 | 2.9 | 2 |
| 9 | Heat-triggered two-phase flow maldistribution in a micromachined cryogenic cooler. <i>Cryogenics</i> , 2020 , 106, 103026 | 1.8 | 2 |
| 8 | Experimental study of the influence of cold heat exchanger geometry on the performance of a co-axial pulse tube cooler. <i>Cryogenics</i> , 2016 , 78, 78-82 | 1.8 | 2 |
| 7 | Joule-Thomson microcooling developments at University of Twente. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017 , 171, 012064 | 0.4 | 2 |
| 6 | A tissue snap-freezing apparatus without sacrificial cryogenes. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017 , 278, 012126 | 0.4 | 2 |
| 5 | Cool-down time of a polypropylene vial quenched in liquid nitrogen. <i>International Communications in Heat and Mass Transfer</i> , 2020 , 118, 104821 | 5.8 | 2 |

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| 4 | Mechanics of Cooling Liquids by Forced Evaporation in Bubbles. <i>Physical Review Applied</i> , 2019 , 11, | 4.3 | 1 |
| 3 | Thermoacoustic-Stirling Heat Pump for Domestic Applications 2010 , | | 1 |
| 2 | Systematic approach to determine the transient cooling power and heat leak of a commercial pulse tube cryocooler. <i>Cryogenics</i> , 2021 , 113, 103228 | 1.8 | 0 |
| 1 | Performance improvement of a PCM cold box by two bilayers configuration. <i>International Communications in Heat and Mass Transfer</i> , 2022 , 134, 105978 | 5.8 | |