

Tomáš Králík

List of Publications by Year in descending order

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papers

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docs citations

28
times ranked

396
citing authors

#	ARTICLE	IF	CITATIONS
1	Strong Near-Field Enhancement of Radiative Heat Transfer between Metallic Surfaces. <i>Physical Review Letters</i> , 2012, 109, 224302.	7.8	151
2	Cryogenic apparatus for study of near-field heat transfer. <i>Review of Scientific Instruments</i> , 2011, 82, 055106.	1.3	48
3	Heat transfer in cryogenic helium gas by turbulent Rayleigh-Bénard convection in a cylindrical cell of aspect ratio 1. <i>New Journal of Physics</i> , 2014, 16, 053042.	2.9	38
4	Low temperature radiative properties of materials used in cryogenics. <i>Cryogenics</i> , 2005, 45, 529-536.	1.7	36
5	Effect of Boundary Layers Asymmetry on Heat Transfer Efficiency in Turbulent Rayleigh-Bénard Convection at Very High Rayleigh Numbers. <i>Physical Review Letters</i> , 2012, 109, 154301.	7.8	36
6	Method for measurement of emissivity and absorptivity of highly reflective surfaces from 20 K to room temperatures. <i>Metrologia</i> , 2016, 53, 743-753.	1.2	31
7	Helium cryostat for experimental study of natural turbulent convection. <i>Review of Scientific Instruments</i> , 2010, 81, 085103.	1.3	20
8	A database of metallic materials emissivities and absorptivities for cryogenics. <i>Cryogenics</i> , 2019, 97, 85-99.	1.7	17
9	Optical characterization of thin films non-uniform in thickness by a multiple-wavelength reflectance method. <i>Surface and Interface Analysis</i> , 2002, 34, 660-663.	1.8	15
10	Reynolds number scaling in cryogenic turbulent Rayleigh-Bénard convection in a cylindrical aspect ratio one cell. <i>Journal of Fluid Mechanics</i> , 2017, 832, 721-744.	3.4	14
11	Thermal conductivity of a CuCrZr alloy from 5K to room temperatures. <i>Cryogenics</i> , 2010, 50, 737-742.	1.7	12
12	Thermal radiative properties of a DLC coating. <i>Cryogenics</i> , 2008, 48, 455-457.	1.7	10
13	Effect of superconductivity on near-field radiative heat transfer. <i>Physical Review B</i> , 2017, 95, .	3.2	10
14	Elusive transition to the ultimate regime of turbulent Rayleigh-Bénard convection. <i>Physical Review E</i> , 2019, 99, 011101.	2.1	10
15	Strong suppression of near-field radiative heat transfer by superconductivity in NbN. <i>Physical Review B</i> , 2019, 99, .	3.2	9
16	Thermal Waves and Heat Transfer Efficiency Enhancement in Harmonically Modulated Turbulent Thermal Convection. <i>Physical Review Letters</i> , 2022, 128, 134502.	7.8	9
17	Effect of different treatments of copper surface on its total hemispherical absorptivity bellow 77K. <i>Cryogenics</i> , 2007, 47, 257-261.	1.7	8
18	Black surfaces for infrared, aerospace, and cryogenic applications. <i>Proceedings of SPIE</i> , 2009, , .	0.8	7

#	ARTICLE	IF	CITATIONS
19	Influence of condensed water on heat radiation absorptivity at cryogenic temperatures. <i>Cryogenics</i> , 2010, 50, 331-335.	1.7	5
20	Low temperature thermal radiative properties of gold coated metals. <i>International Journal of Refrigeration</i> , 2017, 82, 51-55.	3.4	5
21	Urban <i>et al.</i> Reply. <i>Physical Review Letters</i> , 2013, 110, 199402.	7.8	4
22	Thermal radiation in Rayleigh-Bénard convection experiments. <i>Physical Review E</i> , 2020, 101, 043106.	2.1	4
23	Low-emittance copper-coating system using atomic-layer-deposited aluminum oxide. <i>Thin Solid Films</i> , 2022, 749, 139179.	1.8	4
24	Near field radiative heat transfer between macro-scale metallic surfaces at cryogenic temperatures. <i>Cryogenics</i> , 2021, 113, 103156.	1.7	3
25	Comments on heat transfer efficiency in cryogenic helium turbulent Rayleigh-Bénard convection. <i>Journal of Physics: Conference Series</i> , 2011, 318, 082012.	0.4	2
26	Economical helium bath cryopump: design and testing. <i>Vacuum</i> , 2004, 74, 77-83.	3.5	1
27	Nanostructures for Achieving Selective Properties of a Thermophotovoltaic Emitter. <i>Nanomaterials</i> , 2021, 11, 2443.	4.1	1
28	Publisher's Note: Effect of Boundary Layers Asymmetry on Heat Transfer Efficiency in Turbulent Rayleigh-Bénard Convection at Very High Rayleigh Numbers [<i>Phys. Rev. Lett.</i> 109 , 154301 (2012)]. <i>Physical Review Letters</i> , 2012, 109, .	7.8	0