

# Vera Musilov

## 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.

28

papers

413

citations

10

h-index

20

g-index

29

ext. papers

475

ext. citations

3

avg, IF

3.24

L-index

#	Paper	IF	Citations
28	Strong near-field enhancement of radiative heat transfer between metallic surfaces. <i>Physical Review Letters</i> , <b>2012</b> , 109, 224302	7.4	124
27	Cryogenic apparatus for study of near-field heat transfer. <i>Review of Scientific Instruments</i> , <b>2011</b> , 82, 055106	1.06	42
26	Efficiency of heat transfer in turbulent Rayleigh-B̄ard convection. <i>Physical Review Letters</i> , <b>2011</b> , 107, 014302	7.4	42
25	Effect of boundary layers asymmetry on heat transfer efficiency in turbulent Rayleigh-B̄ard convection at very high Rayleigh numbers [corrected]. <i>Physical Review Letters</i> , <b>2012</b> , 109, 154301	7.4	30
24	Heat transfer in cryogenic helium gas by turbulent Rayleigh-B̄ard convection in a cylindrical cell of aspect ratio 1. <i>New Journal of Physics</i> , <b>2014</b> , 16, 053042	2.9	29
23	Low temperature radiative properties of materials used in cryogenics. <i>Cryogenics</i> , <b>2005</b> , 45, 529-536	1.8	28
22	Helium cryostat for experimental study of natural turbulent convection. <i>Review of Scientific Instruments</i> , <b>2010</b> , 81, 085103	1.7	16
21	Method for measurement of emissivity and absorptivity of highly reflective surfaces from 20 K to room temperatures. <i>Metrologia</i> , <b>2016</b> , 53, 743-753	2.1	15
20	Reynolds number scaling in cryogenic turbulent Rayleigh-B̄ard convection in a cylindrical aspect ratio one cell. <i>Journal of Fluid Mechanics</i> , <b>2017</b> , 832, 721-744	3.7	11
19	Thermal conductivity of a CuCrZr alloy from 5K to room temperatures. <i>Cryogenics</i> , <b>2010</b> , 50, 737-742	1.8	10
18	Effect of superconductivity on near-field radiative heat transfer. <i>Physical Review B</i> , <b>2017</b> , 95,	3.3	9
17	Strong suppression of near-field radiative heat transfer by superconductivity in NbN. <i>Physical Review B</i> , <b>2019</b> , 99,	3.3	7
16	Thermal radiative properties of a DLC coating. <i>Cryogenics</i> , <b>2008</b> , 48, 455-457	1.8	7
15	Elusive transition to the ultimate regime of turbulent Rayleigh-B̄ard convection. <i>Physical Review E</i> , <b>2019</b> , 99, 011101	2.4	6
14	A database of metallic materials emissivities and absorptivities for cryogenics. <i>Cryogenics</i> , <b>2019</b> , 97, 85-98	9.8	6
13	Effect of different treatments of copper surface on its total hemispherical absorptivity bellow 77 K. <i>Cryogenics</i> , <b>2007</b> , 47, 257-261	1.8	5
12	Influence of changes in atmospheric pressure on evaporation rates of low-loss helium cryostats. <i>Cryogenics</i> , <b>1995</b> , 35, 215-218	1.8	5

11	Urban et al. reply.. <i>Physical Review Letters</i> , <b>2013</b> , 110, 199402	7.4	4
10	Influence of condensed water on heat radiation absorptivity at cryogenic temperatures. <i>Cryogenics</i> , <b>2010</b> , 50, 331-335	1.8	4
9	1/f Noise in GaAs Schottky Diodes. <i>Physica Status Solidi A</i> , <b>1984</b> , 84, 693-696		4
8	Small helium bath cryopump for electron optical devices. <i>Cryogenics</i> , <b>2002</b> , 42, 39-44	1.8	3
7	Comments on heat transfer efficiency in cryogenic helium turbulent Rayleigh-BBard convection. <i>Journal of Physics: Conference Series</i> , <b>2011</b> , 318, 082012	0.3	2
6	Low conductive support for thermal insulation of a sample holder of a variable temperature scanning tunneling microscope. <i>Review of Scientific Instruments</i> , <b>2013</b> , 84, 085103	1.7	1
5	Economical helium bath cryopump: design and testing. <i>Vacuum</i> , <b>2004</b> , 74, 77-83	3.7	1
4	Near field radiative heat transfer between macro-scale metallic surfaces at cryogenic temperatures. <i>Cryogenics</i> , <b>2021</b> , 113, 103156	1.8	1
3	Temperature profiles measurements in turbulent Rayleigh-BBard convection by optical fibre system at the Barrel of Il-menau. <i>EPJ Web of Conferences</i> , <b>2018</b> , 180, 02020	0.3	1
2	Low-emittance copper-coating system using atomic-layer-deposited aluminum oxide. <i>Thin Solid Films</i> , <b>2022</b> , 749, 139179	2.2	0
1	Burst noise of GaP red light emitting diodes. <i>Physica Status Solidi A</i> , <b>1975</b> , 30, K77-K79		