Pavel Hanzelka

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/4081626/publications.pdf

Version: 2024-02-01

38	523	949033 11	759306 22
papers	citations	h-index	g-index

38	38	38	462
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Thermal Waves and Heat Transfer Efficiency Enhancement in Harmonically Modulated Turbulent Thermal Convection. Physical Review Letters, 2022, 128, 134502.	2.9	9
2	Near field radiative heat transfer between macro-scale metallic surfaces at cryogenic temperatures. Cryogenics, 2021, 113, 103156.	0.9	3
3	Effect of boundary conditions in turbulent thermal convection ^(a). Europhysics Letters, 2021, 134, 34003.	0.7	4
4	Low conductive thermal insulation pad with high mechanical stiffness. International Journal of Refrigeration, 2021, 132, 92-92.	1.8	1
5	Thermal radiation in Rayleigh-BÃ©nard convection experiments. Physical Review E, 2020, 101, 043106.	0.8	4
6	Elusive transition to the ultimate regime of turbulent Rayleigh-BÃ©nard convection. Physical Review E, 2019, 99, 011101.	0.8	10
7	A database of metallic materials emissivities and absorptivities for cryogenics. Cryogenics, 2019, 97, 85-99.	0.9	17
8	Temperature profiles measurements in turbulent Rayleigh-BÃ©nard convection by optical fibre system at the Barrel of Il-menau. EPJ Web of Conferences, 2018, 180, 02020.	0.1	1
9	Convective heat transport in two-phase superfluid/vapor 4He system. Low Temperature Physics, 2018, 44, 1001-1004.	0.2	2
10	Method for measurement of emissivity and absorptivity of highly reflective surfaces from 20â€‰K to room temperatures. Metrologia, 2016, 53, 743-753.	0.6	31
11	Cryogenic Design of the New High Field Magnet Test Facility at CERN. Physics Procedia, 2015, 67, 302-307.	1.2	3
12	Heat transfer in cryogenic helium gas by turbulent Rayleighâ€“BÃ©nard convection in a cylindrical cell of aspect ratio 1. New Journal of Physics, 2014, 16, 053042.	1.2	38
13	New vertical cryostat for the high field superconducting magnet test station at CERN. , 2014, , .		3
14	Low conductive support for thermal insulation of a sample holder of a variable temperature scanning tunneling microscope. Review of Scientific Instruments, 2013, 84, 085103.	0.6	1
15	Anomalous heat transport and condensation in convection of cryogenic helium. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 8036-8039.	3.3	11
16	UrbanetÂal.Reply:. Physical Review Letters, 2013, 110, 199402.	2.9	4
17	Effect of Boundary Layers Asymmetry on Heat Transfer Efficiency in Turbulent Rayleigh-BÃ©nard Convection at Very High Rayleigh Numbers. Physical Review Letters, 2012, 109, 154301.	2.9	36
18	Publisherâ€™s Note: Effect of Boundary Layers Asymmetry on Heat Transfer Efficiency in Turbulent Rayleigh-BÃ©nard Convection at Very High Rayleigh Numbers [Phys. Rev. Lett.109, 154301 (2012)]. Physical Review Letters, 2012, 109, .	2.9	0

#	Article	IF	Citations
19	Strong Near-Field Enhancement of Radiative Heat Transfer between Metallic Surfaces. Physical Review Letters, 2012, 109, 224302.	2.9	151
20	Cryogenic apparatus for study of near-field heat transfer. Review of Scientific Instruments, 2011, 82, 055106.	0.6	48
21	Influence of condensed water on heat radiation absorptivity at cryogenic temperatures. Cryogenics, 2010, 50, 331-335.	0.9	5
22	Thermal conductivity of a CuCrZr alloy from 5K to room temperatures. Cryogenics, 2010, 50, 737-742.	0.9	12
23	Helium cryostat for experimental study of natural turbulent convection. Review of Scientific Instruments, 2010, 81, 085103.	0.6	20
24	Thermal radiative properties of a DLC coating. Cryogenics, 2008, 48, 455-457.	0.9	10
25	Artificial Organs: Thoughts & Progress:Determination of Cardiac Output of the Artificial Heart from the Drive Air Flow. Artificial Organs, 2008, 3, 277-278.	1.0	4
26	Effect of different treatments of copper surface on its total hemispherical absorptivity bellow 77K. Cryogenics, 2007, 47, 257-261.	0.9	8
27	Low temperature radiative properties of materials used in cryogenics. Cryogenics, 2005, 45, 529-536.	0.9	36
28	Economical helium bath cryopump: design and testing. Vacuum, 2004, 74, 77-83.	1.6	1
29	Scanning vector Hall probe microscope. Review of Scientific Instruments, 2003, 74, 5105-5110.	0.6	6
30	Small helium bath cryopump for electron optical devices. Cryogenics, 2002, 42, 39-44.	0.9	3
31	Problems of measurement of the helium boil off rate of tomographic magnets. Cryogenics, 1999, 39, 647-649.	0.9	1
32	Current leads in vacuum space of cryogenic systems. Cryogenics, 1999, 39, 955-961.	0.9	4
33	Influence of changes in atmospheric pressure on evaporation rates of low-loss helium cryostats. Cryogenics, 1995, 35, 215-218.	0.9	5
34	Numerical modelling in cryostat design: methods and experimental verification. Cryogenics, 1993, 33, 454-458.	0.9	9
35	Mechanisms causing the death of 8 calves surviving with implanted artificial heart from 31 to 173 days. Experimental Pathology, 1984, 26, 221-225.	0.5	2
36	Adaptation of the Organism during Long-Lasting Survival with a Total Artificial Heart. , 1983, 4, 233-246.		0

#	Article	IF	Citations
37	150-Day Survival of a Calf with a Polymethylmethacrylate Total Artificial Heart: TNS-BRNO-II. Artificial Organs, 1981, 5, 388-400.	1.0	14
38	BRNO-I, An Implantable, Diaphragm-Type Total Artificial Heart: Technical Aspects of Design. Artificial Organs, 1980, 4, 65-67.	1.0	6