

Andrei Golov

List of Publications by Year in descending order

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53
times ranked

495
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantized Vortex Rings and Loop Solitons. Journal of Low Temperature Physics, 2020, 201, 11-17.	0.6	1
2	Shape fluctuations and optical transition of ${}^4\text{He}$ excimer tracers in superfluid ${}^4\text{He}$. Physical Review B, 2020, 101, .	1.1	4
3	Henry Edgar Hall. 28 September 1928–4 December 2015. Biographical Memoirs of Fellows of the Royal Society, 2018, 65, 115-132.	0.1	0
4	Coexistence of Quantum and Classical Flows in Quantum Turbulence in The $T=0$ Limit. Physical Review Letters, 2017, 118, 134501.	2.9	16
5	No Effect of Steady Rotation on Solid ${}^4\text{He}$ in a Torsional Oscillator. Journal of Low Temperature Physics, 2016, 183, 106-112.	0.6	5
6	Interactions between unidirectional quantized vortex rings. Physical Review Fluids, 2016, 1, .	1.0	10
7	Dissipation of Quasiclassical Turbulence in Superfluid ${}^4\text{He}$. Physical Review Letters, 2015, 115, 155303.	2.9	29
8	Nanotube-based source of charges for experiments with solid helium at low temperatures. Low Temperature Physics, 2015, 41, 567-570.	0.2	2
9	A field-emission source of charges based on nanotubes for low-temperature experiments. Instruments and Experimental Techniques, 2014, 57, 755-759.	0.1	4
10	Dynamics of quantum turbulence of different spectra. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 4691-4698.	3.3	39
11	Reconnections of Quantized Vortex Rings in Superfluid ${}^4\text{He}$ at Excimer Tracers of Quantum Turbulence in ${}^4\text{He}$. Physical Review Letters, 2012, 109, 215301.	2.9	18
12	Tracers of Quantum Turbulence in ${}^4\text{He}$. Physical Review Letters, 2012, 109, 215301.	2.9	52
13	Observation of Crossover from Ballistic to Diffusion Regime for Excimer Molecules in Superfluid ${}^4\text{He}$. Journal of Low Temperature Physics, 2013, 171, 207-213.	0.6	11
14	A compact rotating dilution refrigerator. Review of Scientific Instruments, 2013, 84, 103905.	0.6	3
15	Rotating quantum turbulence in superfluid ${}^4\text{He}$. Physical Review B, 2012, 86, .	1.1	10
16	Thermal conductivity and torsional oscillations of solid ${}^4\text{He}$. Low Temperature Physics, 2012, 38, 1049-1054.	0.2	1
17	Chirality of Superfluid ${}^4\text{He}$. Physical Review Letters, 2012, 109, 215301.	2.9	32
18	Measurements of Torsional Oscillations and Thermal Conductivity in Solid ${}^4\text{He}$. Journal of Low Temperature Physics, 2012, 169, 169-179.	0.6	2

#	ARTICLE	IF	CITATIONS
19	Simultaneous Measurements of the Torsional Oscillator Anomaly and Thermal Conductivity in Solid He-4. <i>Physical Review Letters</i> , 2011, 107, 065302.	2.9	16
20	Charged Tangles of Quantized Vortices in Superfluid He-4. <i>Journal of Low Temperature Physics</i> , 2010, 161, 509-525.	0.6	9
21	Turbulent Dynamics in Rotating Helium Superfluids. <i>Progress in Low Temperature Physics</i> , 2009, 16, 45-146.	0.2	18
22	Homogeneous Turbulence in Superfluid 4He in the Low-Temperature Limit: Experimental Progress. <i>Journal of Low Temperature Physics</i> , 2009, 156, 51-70.	0.6	24
23	Decay of Turbulence Generated by Spin-Down to Rest in Superfluid He-4. <i>Journal of Low Temperature Physics</i> , 2008, 153, 127-139.	0.6	17
24	Quantum and Quasiclassical Types of Superfluid Turbulence. <i>Physical Review Letters</i> , 2008, 100, 245301.	2.9	129
25	Quantum Turbulence in a Propagating Superfluid Vortex Front. <i>Physical Review Letters</i> , 2007, 99, 265301.	2.9	60
26	Dissipation of Quantum Turbulence in the Zero Temperature Limit. <i>Physical Review Letters</i> , 2007, 99, 265302.	2.9	145
27	Detection of Vortices in Superfluid 4He in the T=0 Limit Using Charged Vortex Rings. <i>Journal of Low Temperature Physics</i> , 2007, 146, 511-523.	0.6	12
28	Experiments on the Vortex Dynamics in Superfluid 4He with no Normal Component. <i>Journal of Low Temperature Physics</i> , 2007, 148, 317-321.	0.6	8
29	Low Temperature Dielectric Constant of Kapton Coated with a Layer of Vacuum Grease. <i>AIP Conference Proceedings</i> , 2006, , .	0.3	0
30	Tortuosity of 4He Films on Aerogel. <i>AIP Conference Proceedings</i> , 2006, , .	0.3	1
31	Experiments on the Dynamics of Vortices in Superfluid 4He with No Normal Component. <i>Journal of Low Temperature Physics</i> , 2006, 145, 143-154.	0.6	6
32	Nucleation and pinning of continuous vortices in superfluid 3He-A. <i>Journal of Physics and Chemistry of Solids</i> , 2005, 66, 1339-1343.	1.9	0
33	Tortuosity and Dissipation of Liquid 4He in Aerogel. <i>Journal of Low Temperature Physics</i> , 2005, 138, 183-188.	0.6	2
34	Trapping of Vorticity by π -textures in 3He-A. <i>Journal of Low Temperature Physics</i> , 2005, 138, 595-600.	0.6	1
35	Magnetocaloric effect in pyrochlore antiferromagnet Gd ₂ Ti ₂ O ₇ . <i>Physical Review B</i> , 2005, 71, .	1.1	77
36	Dissipation Mechanisms near the Superfluid He-3 Transition in Aerogel. <i>Physical Review Letters</i> , 2004, 92, 195301.	2.9	4

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37	Intrinsic Pinning of Vorticity by Domain Walls of ^3He in Superfluid ^3He . Physical Review Letters, 2004, 93, 195301.	2.9	14
38	Design of a Rotating Cryostat to Minimise Vibrational Heating. Journal of Low Temperature Physics, 2004, 134, 419-424.	0.6	3
39	Positive ion mobility in liquid under very high magnetic fields. Physica B: Condensed Matter, 2003, 329-333, 342-345.	1.3	31
40	Sound Propagation in Coexistent Bose and Fermi Superfluids in Aerogel. Physical Review Letters, 2003, 90, 195301.	2.9	6
41	Critical Velocity of Continuous Vortex Nucleation in a Slab of Superfluid ^3He . Physical Review Letters, 2003, 91, 225301.	2.9	16
42	Transverse Resonances in Aerogel with Liquid ^4He . Journal of Low Temperature Physics, 2002, 126, 667-672.	0.6	1
43	Scaling Properties of Superfluid ^3He in Aerogel. Journal of Low Temperature Physics, 2000, 121, 567-572.	0.6	2
44	Sharp and Stable Metal Tips for Helium Ionization at mK Temperatures. Journal of Low Temperature Physics, 1998, 113, 957-962.	0.6	24
45	Enhanced heat capacity of amorphous helium films. Physica B: Condensed Matter, 1996, 219-220, 650-652.	1.3	1
46	Heat capacity of thin films of ^3He adsorbed on a heterogeneous substrate. Physical Review B, 1996, 53, 12647-12650.	1.1	27
47	Thin ^3He films on a disordered substrate: A Metal-Insulator transition. Journal of Low Temperature Physics, 1995, 99, 191-193.	0.6	6
48	Specific heat of amorphous ^3He films and confined liquid ^3He . Journal of Low Temperature Physics, 1995, 101, 373-378.	0.6	8
49	Spectroscopic study of injected electrons in solid helium. European Physical Journal B, 1995, 98, 363-366.	0.6	41
50	Rydberg branch of electronic excitations of helium clusters. Physica B: Condensed Matter, 1994, 194-196, 555-556.	1.3	3
51	A new type of excimer atom: electron + ionized helium cluster. Zeitschrift für Physik D-Atoms Molecules and Clusters, 1993, 27, 349-355.	1.0	23
52	Characterization of Dislocations in hcp ^4He by Torsional Oscillator and Thermal Conductivity Measurements. Journal of Low Temperature Physics, 0, , 1.	0.6	1