

Richard Peter Haley

List of Publications by Year in descending order

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papers

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citing authors

#	ARTICLE	IF	CITATIONS
1	Emission of Discrete Vortex Rings by a Vibrating Grid In Superfluid $^3\text{He-B}$: A Precursor to Quantum Turbulence. <i>Physical Review Letters</i> , 2005, 95, 035302.	7.8	89
2	Thermodynamics of the $^3\text{He-B}$ Phase Transition and the Geometry of the A-Phase Gap Nodes in Superfluid ^3He at Low Temperatures. <i>Physical Review Letters</i> , 1999, 83, 3462-3465.	7.8	64
3	Transition to Turbulence for a Quartz Tuning Fork in Superfluid ^4He . <i>Journal of Low Temperature Physics</i> , 2009, 156, 116-131.	1.4	59
4	Crossover from hydrodynamic to acoustic drag on quartz tuning forks in normal and superfluid ^4He . <i>Physical Review B</i> , 2012, 85, .	3.2	57
5	The Damping of a Quartz Tuning Fork in Superfluid $^3\text{He-B}$ at Low Temperatures. <i>Journal of Low Temperature Physics</i> , 2009, 157, 476-501.	1.4	46
6	Direct measurement of the energy dissipated by quantum turbulence. <i>Nature Physics</i> , 2011, 7, 473-476.	16.7	44
7	An Advanced Dilution Refrigerator Designed for the New Lancaster Microkelvin Facility. <i>Journal of Low Temperature Physics</i> , 1999, 114, 547-570.	1.4	42
8	Gate-Defined Quantum Confinement in InSe-Based van der Waals Heterostructures. <i>Nano Letters</i> , 2018, 18, 3950-3955.	9.1	40
9	Relic topological defects from brane annihilation simulated in superfluid ^3He . <i>Nature Physics</i> , 2008, 4, 46-49.	16.7	38
10	Nanoelectronic primary thermometry below $4\ \mu\text{K}$. <i>Nature Communications</i> , 2016, 7, 10455.	12.8	35
11	Generation, evolution, and decay of pure quantum turbulence: A full Biot-Savart simulation. <i>Physical Review B</i> , 2010, 81, .	3.2	32
12	The Transition to Turbulent Drag for a Cylinder Oscillating in Superfluid ^4He : A Comparison of Quantum and Classical Behavior. <i>Journal of Low Temperature Physics</i> , 2009, 154, 97-116.	1.4	27
13	Breaking the superfluid speed limit in a fermionic condensate. <i>Nature Physics</i> , 2016, 12, 1017-1021.	16.7	24
14	Frequency-dependent drag from quantum turbulence produced by quartz tuning forks in superfluid ^3He . <i>Physical Review B</i> , 2014, 89, .	3.2	23
15	On-chip magnetic cooling of a nanoelectronic device. <i>Scientific Reports</i> , 2017, 7, 45566.	3.3	21
16	Progress in Cooling Nanoelectronic Devices to Ultra-Low Temperatures. <i>Journal of Low Temperature Physics</i> , 2020, 201, 772-802.	1.4	19
17	Operating Nanobeams in a Quantum Fluid. <i>Scientific Reports</i> , 2017, 7, 4876.	3.3	17
18	Microkelvin Thermometry with Bose-Einstein Condensates of Magnons and Applications to Studies of the AB Interface in Superfluid ^3He . <i>Journal of Low Temperature Physics</i> , 2014, 175, 681-705.	1.4	15

#	ARTICLE	IF	CITATIONS
19	Measuring the Prong Velocity of Quartz Tuning Forks Used to Probe Quantum Fluids. Journal of Low Temperature Physics, 2010, 161, 536-547.	1.4	14
20	Probing Bogoliubov Quasiparticles in Superfluid ^3He with a \sim Vibrating-Wire Like TM MEMS Device. Journal of Low Temperature Physics, 2016, 183, 284-291.	1.4	13
21	Probing superfluid ^4He with high-frequency nanomechanical resonators down to millikelvin temperatures. Physical Review B, 2019, 100, .	3.2	13
22	Thermometry in Normal Liquid ^3He Using a Quartz Tuning Fork Viscometer. Journal of Low Temperature Physics, 2013, 171, 750-756.	1.4	12
23	Graphene-based tunable SQUIDs. Applied Physics Letters, 2017, 110, .	3.3	12
24	Fundamental dissipation due to bound fermions in the zero-temperature limit. Nature Communications, 2020, 11, 4742.	12.8	12
25	Grid Turbulence in Superfluid $^3\text{He-B}$ at Low Temperatures. Journal of Low Temperature Physics, 2008, 150, 364-372.	1.4	11
26	A Quasiparticle Detector for Imaging Quantum Turbulence in Superfluid $^3\text{He-B}$. Journal of Low Temperature Physics, 2014, 175, 725-738.	1.4	11
27	Vortex Rings in Superfluid $^3\text{He-B}$ at Low Temperatures. Journal of Low Temperature Physics, 2007, 148, 235-243.	1.4	10
28	A New Device for Studying Low or Zero Frequency Mechanical Motion at Very Low Temperatures. Journal of Low Temperature Physics, 2011, 165, 114-131.	1.4	10
29	Detecting a phonon flux in superfluid ^4He by a nanomechanical resonator. Physical Review B, 2020, 101, .	3.2	9
30	History Dependence of Turbulence Generated by a Vibrating Wire in Superfluid ^4He at 1.5 K. Journal of Low Temperature Physics, 2011, 162, 375-382.	1.4	8
31	Response of a Mechanical Oscillator in Solid ^4He . Journal of Low Temperature Physics, 2014, 175, 140-146.	1.4	8
32	Probing Liquid ^4He with Quartz Tuning Forks Using a Novel Multifrequency Lock-in Technique. Journal of Low Temperature Physics, 2016, 184, 1080-1091.	1.4	8
33	The Onset of Vortex Production by a Vibrating Wire in Superfluid $^3\text{He-B}$. Journal of Low Temperature Physics, 2013, 171, 582-588.	1.4	7
34	Hysteresis, Switching and Anomalous Behaviour of a Quartz Tuning Fork in Superfluid ^4He . Journal of Low Temperature Physics, 2014, 175, 379-384.	1.4	7
35	Effect of the boundary condition on the Kapitza resistance between superfluid $^3\text{He-B}$ and sintered metal. Physical Review B, 2020, 102, .	3.2	6
36	The Unique Superfluid ^3He A-B Interface: Surface Tension and Contact Angle. Journal of Low Temperature Physics, 2002, 126, 533-538.	1.4	5

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37	Superfluid ^3He in the Zero-Temperature Limit. Journal of Low Temperature Physics, 2004, 135, 385-397.	1.4	5
38	Observation of quantum turbulence in superfluid ^3He -B using reflection and transmission of ballistic thermal excitations. Physical Review B, 2017, 95, .	3.2	5
39	Magnetic Distortion of the B-like Phase of Superfluid ^3He Confined in Aerogel. Journal of Low Temperature Physics, 2008, 150, 445-452.	1.4	4
40	Plastic Properties of Solid ^4He Probed by a Moving Wire: Viscoelastic and Stochastic Behavior Under High Stress. Journal of Low Temperature Physics, 2014, 175, 147-153.	1.4	4
41	Producing and imaging quantum turbulence via pair-breaking in superfluid ^3He . Physical Review B, 2022, 105, .	3.2	4
42	The Dynamic Texture of Superfluid ^3He -B at Very Low Temperatures and in High Magnetic Fields. Journal of Low Temperature Physics, 2005, 138, 583-588.	1.4	3
43	The Thermal Boundary Resistance of the Superfluid ^3He A-B Phase Interface in the Low Temperature Limit. AIP Conference Proceedings, 2006, , .	0.4	3
44	Thermal Transport by Ballistic Quasiparticles in Superfluid ^3He -B in the Low Temperature Limit. AIP Conference Proceedings, 2006, , .	0.4	3
45	The Annihilation of Two Phase Interfaces in Superfluid ^3He : Simulated Brane Annihilation in the Laboratory. Journal of the Physical Society of Japan, 2008, 77, 111005.	1.6	3
46	Orbitropic Effect in Superfluid ^3He B-phase Boundaries. Scientific Reports, 2018, 8, 13965.	3.3	3
47	Multimode probing of superfluid ^4He by tuning forks. Applied Physics Letters, 2019, 115, .	3.3	3
48	Measurements on a Dynamic A-B Phase Boundary in Superfluid ^3He at Very Low Temperatures. Journal of Low Temperature Physics, 1998, 113, 651-659.	1.4	2
49	The Stability of the Superfluid ^3He AB Interface Pinned in an Aperture. Journal of Low Temperature Physics, 2004, 134, 387-392.	1.4	2
50	The AB Interface in Superfluid ^3He as a Simulated Cosmological Brane. Journal of Low Temperature Physics, 2007, 148, 465-473.	1.4	2
51	Anomalous Damping of a Low Frequency Vibrating Wire in Superfluid ^3He -B due to Vortex Shielding. Journal of Low Temperature Physics, 2014, 175, 372-378.	1.4	2
52	Orbital Damping of the Oscillating Superfluid ^3He A-B Interface at Low Temperatures. Journal of Low Temperature Physics, 2014, 175, 706-717.	1.4	2
53	Acoustic damping of quartz tuning forks in normal and superfluid ^3He . Physical Review B, 2019, 100, .	3.2	2
54	The Response of a Mechanical Oscillator at the Superfluid ^3He AB Interface. Journal of Low Temperature Physics, 2004, 134, 345-350.	1.4	0

#	ARTICLE	IF	CITATIONS
55	The Generation Of Quantum Turbulence In 3He-B By A Vibrating Grid At Low Temperatures. AIP Conference Proceedings, 2006, , .	0.4	0
56	The Decay of Quantum Turbulence Generated by a Vibrating Grid at Low Temperatures in Superfluid 3He-B. AIP Conference Proceedings, 2006, , .	0.4	0
57	Non-linear Mechanical Response of the A-like Phase of Superfluid 3He in Aerogel. Journal of Low Temperature Physics, 2007, 148, 603-607.	1.4	0