

# R P Haley

## List of Publications by Year in descending order

Source: [//exaly.com/author-pdf/4656027/publications.pdf](https://exaly.com/author-pdf/4656027/publications.pdf)

Version: 2024-02-01

60  
papers

972  
citations

482844

16  
h-index

466759

29  
g-index

60  
all docs

60  
docs citations

60  
times ranked

765  
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermal Transport in Nanoelectronic Devices Cooled by On-Chip Magnetic Refrigeration. Physical Review Letters, 2023, 131, .	8.0	2
2	Transport of bound quasiparticle states in a two-dimensional boundary superfluid. Nature Communications, 2023, 14, .	13.2	5
3	Producing and imaging quantum turbulence via pair-breaking in superfluid $^3\text{He}$ . Physical Review B, 2022, 105, .	3.3	6
4	Microkelvin electronics on a pulse-tube cryostat with a gate Coulomb-blockade thermometer. Physical Review Research, 2022, 4, .	3.6	4
5	Fundamental dissipation due to bound fermions in the zero-temperature limit. Nature Communications, 2020, 11, 4742.	13.2	15
6	Effect of the boundary condition on the Kapitza resistance between superfluid $^3\text{He}$ and sintered metal. Physical Review B, 2020, 102, .	3.3	7
7	Progress in Cooling Nanoelectronic Devices to Ultra-Low Temperatures. Journal of Low Temperature Physics, 2020, 201, 772-802.	1.4	24
8	Detecting a phonon flux in superfluid $^4\text{He}$ by a nanomechanical resonator. Physical Review B, 2020, 101, .	3.3	10
9	Probing superfluid $^4\text{He}$ with high-frequency nanomechanical resonators down to millikelvin temperatures. Physical Review B, 2019, 100, .	3.3	14
10	Multimode probing of superfluid $^4\text{He}$ by tuning forks. Applied Physics Letters, 2019, 115, .	3.2	4
11	Acoustic damping of quartz tuning forks in normal and superfluid $^3\text{He}$ . Physical Review B, 2019, 100, .	3.3	2
12	Orbitropic Effect in Superfluid $^3\text{He}$ B-phase Boundaries. Scientific Reports, 2018, 8, 13965.	3.4	4
13	Gate-Defined Quantum Confinement in InSe-Based van der Waals Heterostructures. Nano Letters, 2018, 18, 3950-3955.	9.5	42
14	Graphene-based tunable SQUIDs. Applied Physics Letters, 2017, 110, .	3.2	12
15	On-chip magnetic cooling of a nanoelectronic device. Scientific Reports, 2017, 7, 45566.	3.4	21
16	Observation of quantum turbulence in superfluid $^3\text{He}$ -B using reflection and transmission of ballistic thermal excitations. Physical Review B, 2017, 95, .	3.3	5
17	Operating Nanobeams in a Quantum Fluid. Scientific Reports, 2017, 7, 4876.	3.4	19
18	Probing Bogoliubov Quasiparticles in Superfluid $^3\text{He}$ with a $\sim$ Vibrating-Wire Like <sup>TM</sup> MEMS Device. Journal of Low Temperature Physics, 2016, 183, 284-291.	1.4	15

#	ARTICLE	IF	CITATIONS
19	Probing Liquid $^4\text{He}$ with Quartz Tuning Forks Using a Novel Multifrequency Lock-in Technique. Journal of Low Temperature Physics, 2016, 184, 1080-1091.	1.4	8
20	Breaking the superfluid speed limit in a fermionic condensate. Nature Physics, 2016, 12, 1017-1021.	11.8	27
21	Nanoelectronic primary thermometry below $4\text{ }\mu\text{mK}$ . Nature Communications, 2016, 7, 10455.	13.2	36
22	Frequency-dependent drag from quantum turbulence produced by quartz tuning forks in superfluid $^4\text{He}$ . Physical Review B, 2014, 89, .	3.3	24
23	Hysteresis, Switching and Anomalous Behaviour of a Quartz Tuning Fork in Superfluid $^4\text{He}$ . Journal of Low Temperature Physics, 2014, 175, 379-384.	1.4	7
24	Anomalous Damping of a Low Frequency Vibrating Wire in Superfluid $^3\text{He-B}$ due to Vortex Shielding. Journal of Low Temperature Physics, 2014, 175, 372-378.	1.4	2
25	Plastic Properties of Solid $^4\text{He}$ Probed by a Moving Wire: Viscoelastic and Stochastic Behavior Under High Stress. Journal of Low Temperature Physics, 2014, 175, 147-153.	1.4	4
26	Response of a Mechanical Oscillator in Solid $^4\text{He}$ . Journal of Low Temperature Physics, 2014, 175, 140-146.	1.4	8
27	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
28	Orbital Damping of the Oscillating Superfluid $^3\text{He-B}$ Interface at Low Temperatures. Journal of Low Temperature Physics, 2014, 175, 706-717.	1.4	3
29	Microkelvin Thermometry with Bose-Einstein Condensates of Magnons and Applications to Studies of the AB Interface in Superfluid $^3\text{He}$ . Journal of Low Temperature Physics, 2014, 175, 681-705.	1.4	16
30	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
31	Thermometry in Normal Liquid $^3\text{He}$ Using a Quartz Tuning Fork Viscometer. Journal of Low Temperature Physics, 2013, 171, 750-756.	1.4	13
32	Crossover from hydrodynamic to acoustic drag on quartz tuning forks in normal and superfluid $^4\text{He}$ . Physical Review B, 2012, 85, .	3.3	57
33	Direct measurement of the energy dissipated by quantum turbulence. Nature Physics, 2011, 7, 473-476.	11.8	47
34	History Dependence of Turbulence Generated by a Vibrating Wire in Superfluid $^4\text{He}$ at $1.5\text{ K}$ . Journal of Low Temperature Physics, 2011, 162, 375-382.	1.4	8
35	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
36	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

#	ARTICLE	IF	CITATIONS
37	Generation, evolution, and decay of pure quantum turbulence: A full Biot-Savart simulation. Physical Review B, 2010, 81, .	3.3	32
38	The Transition to Turbulent Drag for a Cylinder Oscillating in Superfluid 4He: A Comparison of Quantum and Classical Behavior. Journal of Low Temperature Physics, 2009, 154, 97-116.	1.4	27
39	Transition to Turbulence for a Quartz Tuning Fork in Superfluid 4He. Journal of Low Temperature Physics, 2009, 156, 116-131.	1.4	60
40	The Damping of a Quartz Tuning Fork in Superfluid 3He-B at Low Temperatures. Journal of Low Temperature Physics, 2009, 157, 476-501.	1.4	46
41	Grid Turbulence in Superfluid 3He-B at Low Temperatures. Journal of Low Temperature Physics, 2008, 150, 364-372.	1.4	13
42	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
43	Relic topological defects from brane annihilation simulated in superfluid 3He. Nature Physics, 2008, 4, 46-49.	11.8	39
44	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
45	Vortex Rings in Superfluid 3He-B at Low Temperatures. Journal of Low Temperature Physics, 2007, 148, 235-243.	1.4	10
46	The AB Interface in Superfluid 3He as a Simulated Cosmological Brane. Journal of Low Temperature Physics, 2007, 148, 465-473.	1.4	3
47	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
48	The Thermal Boundary Resistance of the Superfluid 3He A-B Phase Interface in the Low Temperature Limit. AIP Conference Proceedings, 2006, , .	1.0	3
49	The Generation Of Quantum Turbulence In 3He-B By A Vibrating Grid At Low Temperatures. AIP Conference Proceedings, 2006, , .	1.0	0
50	The Decay of Quantum Turbulence Generated by a Vibrating Grid at Low Temperatures in Superfluid 3He-B. AIP Conference Proceedings, 2006, , .	1.0	0
51	Thermal Transport by Ballistic Quasiparticles in Superfluid 3He-B in the Low Temperature Limit. AIP Conference Proceedings, 2006, , .	1.0	3
52	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
53	Emission of Discrete Vortex Rings by a Vibrating Grid In Superfluid 3He-B: A Precursor to Quantum Turbulence. Physical Review Letters, 2005, 95, 035302.	8.0	89
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 Stability of the Superfluid $^3\text{He}$ A-B Interface Pinned in an Aperture. Journal of Low Temperature Physics, 2004, 134, 387-392.	1.4	2
56	Superfluid $^3\text{He}$ in the Zero-Temperature Limit. Journal of Low Temperature Physics, 2004, 135, 385-397.	1.4	5
57	The Unique Superfluid $^3\text{He}$ A-B Interface: Surface Tension and Contact Angle. Journal of Low Temperature Physics, 2002, 126, 533-538.	1.4	6
58	Thermodynamics of the $A \rightarrow B$ Phase Transition and the Geometry of the A-Phase Gap Nodes in Superfluid $^3\text{He}$ at Low Temperatures. Physical Review Letters, 1999, 83, 3462-3465.	8.0	64
59	An Advanced Dilution Refrigerator Designed for the New Lancaster Microkelvin Facility. Journal of Low Temperature Physics, 1999, 114, 547-570.	1.4	45
60	Measurements on a Dynamic A-B Phase Boundary in Superfluid $^3\text{He}$ at Very Low Temperatures. Journal of Low Temperature Physics, 1998, 113, 651-659.	1.4	2