

# Anthony Michael GuÃ©nault

## List of Publications by Year in descending order

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56  
papers

961  
citations

516710  
16  
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477307  
29  
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56  
all docs

56  
docs citations

56  
times ranked

316  
citing authors

#	ARTICLE	IF	CITATIONS
1	Detecting a phonon flux in superfluid He4 by a nanomechanical resonator. Physical Review B, 2020, 101, .	3.2	9
2	Probing superfluid $^4\text{He}$ with high-frequency nanomechanical resonators down to millikelvin temperatures. Physical Review B, 2019, 100, .	3.2	13
3	Acoustic damping of quartz tuning forks in normal and superfluid He3. Physical Review B, 2019, 100, .	3.2	2
4	On-chip magnetic cooling of a nanoelectronic device. Scientific Reports, 2017, 7, 45566.	3.3	21
5	Observation of quantum turbulence in superfluid He3-B using reflection and transmission of ballistic thermal excitations. Physical Review B, 2017, 95, .	3.2	5
6	Operating Nanobeams in a Quantum Fluid. Scientific Reports, 2017, 7, 4876.	3.3	17
7	Probing Bogoliubov Quasiparticles in Superfluid $^3\text{He}$ with a "Vibrating-Wire Like" MEMS Device. Journal of Low Temperature Physics, 2016, 183, 284-291.	1.4	13
8	Breaking the superfluid speed limit in a fermionic condensate. Nature Physics, 2016, 12, 1017-1021.	16.7	24
9	Frequency-dependent drag from quantum turbulence produced by quartz tuning forks in superfluid $^4\text{He}$ . Physical Review B, 2014, 89, .	3.2	23
10	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
11	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
12	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
13	Response of a Mechanical Oscillator in Solid $^4\text{He}$ . Journal of Low Temperature Physics, 2014, 175, 140-146.	1.4	8
14	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
15	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
16	Thermometry in Normal Liquid $^3\text{He}$ Using a Quartz Tuning Fork Viscometer. Journal of Low Temperature Physics, 2013, 171, 750-756.	1.4	12
17	Direct measurement of the energy dissipated by quantum turbulence. Nature Physics, 2011, 7, 473-476.	16.7	44
18	History Dependence of Turbulence Generated by a Vibrating Wire in Superfluid $^4\text{He}$ at 1.5 K. Journal of Low Temperature Physics, 2011, 162, 375-382.	1.4	8

#	ARTICLE	IF	CITATIONS
19	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
20	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
21	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
22	Transition to Turbulence for a Quartz Tuning Fork in Superfluid 4He. Journal of Low Temperature Physics, 2009, 156, 116-131.	1.4	59
23	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
24	Grid Turbulence in Superfluid 3He-B at Low Temperatures. Journal of Low Temperature Physics, 2008, 150, 364-372.	1.4	11
25	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
26	Relic topological defects from brane annihilation simulated in superfluid 3He. Nature Physics, 2008, 4, 46-49.	16.7	38
27	Vortex Rings in Superfluid 3He-B at Low Temperatures. Journal of Low Temperature Physics, 2007, 148, 235-243.	1.4	10
28	The A-B Interface in Superfluid 3He as a Simulated Cosmological Brane. Journal of Low Temperature Physics, 2007, 148, 465-473.	1.4	2
29	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
30	The Thermal Boundary Resistance of the Superfluid 3He A-B Phase Interface in the Low Temperature Limit. AIP Conference Proceedings, 2006, , .	0.4	3
31	The Generation Of Quantum Turbulence In 3He-B By A Vibrating Grid At Low Temperatures. AIP Conference Proceedings, 2006, , .	0.4	0
32	The Decay of Quantum Turbulence Generated by a Vibrating Grid at Low Temperatures in Superfluid 3He-B. AIP Conference Proceedings, 2006, , .	0.4	0
33	Thermal Transport by Ballistic Quasiparticles in Superfluid 3He-B in the Low Temperature Limit. AIP Conference Proceedings, 2006, , .	0.4	3
34	The Thermal Damping of an Aerogel Resonator in Superfluid 3He-B at Ultra Low Temperatures. Journal of Low Temperature Physics, 2005, 138, 123-128.	1.4	3
35	Turbulence generated by vibrating wire resonators in superfluid 4He at low temperatures. Journal of Low Temperature Physics, 2005, 138, 493-498.	1.4	39
36	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

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37	Coherent Spin Precession in Superfluid $^3\text{He-B}$ Excited in a Field Minimum at Low Temperatures. Journal of Low Temperature Physics, 2005, 138, 777-782.	1.4	2
38	Superfluid $^3\text{He}$ in the Zero-Temperature Limit. Journal of Low Temperature Physics, 2004, 135, 385-397.	1.4	5
39	The Thermal Conductivity of Superfluid $^3\text{He}$ in Aerogel: A Measurement of the Energy Gap. Journal of Low Temperature Physics, 2002, 126, 673-678.	1.4	13
40	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	5
41	Title is missing!. Journal of Low Temperature Physics, 2002, 126, 1457-1470.	1.4	1
42	Thermal Conductivity of Normal Liquid $^3\text{He}$ in Aerogel. Journal of Low Temperature Physics, 2002, 129, 185-193.	1.4	10
43	Preliminary Measurements of Andreev Reflection of Quasiparticles by Turbulence in Superfluid $^3\text{He}$ . Journal of Low Temperature Physics, 2001, 124, 113-122.	1.4	0
44	Thirty-Minute Coherence in Free Induction Decay Signals in Superfluid $^3\text{He-B}$ . Journal of Low Temperature Physics, 2000, 121, 303-308.	1.4	17
45	Novel Oscillating Aerogel Experiments in Superfluid $^3\text{He}$ at Ultralow Temperatures. Journal of Low Temperature Physics, 2000, 121, 555-560.	1.4	4
46	Andreev Reflection of Quasiparticles by a Vortex Tangle in Superfluid $^3\text{He-B}$ ?. Journal of Low Temperature Physics, 2000, 121, 393-398.	1.4	5
47	An Advanced Dilution Refrigerator Designed for the New Lancaster Microkelvin Facility. Journal of Low Temperature Physics, 1999, 114, 547-570.	1.4	42
48	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
49	Mesoscopic behaviour of the neutral Fermi gas $^3\text{He}$ confined in quantum wires. Nature, 1998, 395, 578-580.	27.8	10
50	Potential Dark Matter Detector? The Detection of Low Energy Neutrons by Superfluid $^3\text{He}$ . Physical Review Letters, 1995, 75, 1887-1890.	7.8	130
51	A compact dilution refrigerator with vertical heat exchangers for operation to 2 mK. Journal of Low Temperature Physics, 1991, 83, 257-272.	1.4	26
52	Cooling liquid $^3\text{He}$ to around $100 \text{ \AA}\mu\text{K}$ . Nature, 1983, 302, 695-696.	27.8	56
53	Low-temperature thermoelectric power of palladium-gold alloys. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1978, 38, 567-573.	0.6	8
54	Measurement of thermoelectric effects at low temperature. American Journal of Physics, 1978, 46, 399-401.	0.7	7

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55	Thermoelectric power of silver alloys at very low temperatures. Philosophical Magazine and Journal, 1967, 15, 17-25.	1.7	59
56	The low temperature transport properties of the palladium-silver alloy series. Philosophical Magazine and Journal, 1966, 13, 503-513.	1.7	57