

Anthony Michael GuÃ©nault

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5345428/publications.pdf>

Version: 2024-02-01

56
papers

961
citations

516710

16
h-index

477307

29
g-index

56
all docs

56
docs citations

56
times ranked

316
citing authors

#	ARTICLE	IF	CITATIONS
1	Potential Dark Matter Detector? The Detection of Low Energy Neutrons by Superfluid ³ He. Physical Review Letters, 1995, 75, 1887-1890.	7.8	130
2	Thermoelectric power of silver alloys at very low temperatures. Philosophical Magazine and Journal, 1967, 15, 17-25.	1.7	59
3	Transition to Turbulence for a Quartz Tuning Fork in Superfluid 4He. Journal of Low Temperature Physics, 2009, 156, 116-131.	1.4	59
4	The low temperature transport properties of the palladium-silver alloy series. Philosophical Magazine and Journal, 1966, 13, 503-513.	1.7	57
5	Cooling liquid ³ He to around 100 ÅµK. Nature, 1983, 302, 695-696.	27.8	56
6	The Damping of a Quartz Tuning Fork in Superfluid ³ He-B at Low Temperatures. Journal of Low Temperature Physics, 2009, 157, 476-501.	1.4	46
7	Direct measurement of the energy dissipated by quantum turbulence. Nature Physics, 2011, 7, 473-476.	16.7	44
8	An Advanced Dilution Refrigerator Designed for the New Lancaster Microkelvin Facility. Journal of Low Temperature Physics, 1999, 114, 547-570.	1.4	42
9	Turbulence generated by vibrating wire resonators in superfluid 4He at low temperatures. Journal of Low Temperature Physics, 2005, 138, 493-498.	1.4	39
10	Relic topological defects from brane annihilation simulated in superfluid ³ He. Nature Physics, 2008, 4, 46-49.	16.7	38
11	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
12	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
13	Breaking the superfluid speed limit in a fermionic condensate. Nature Physics, 2016, 12, 1017-1021.	16.7	24
14	Frequency-dependent drag from quantum turbulence produced by quartz tuning forks in superfluid ^4He . Physical Review B, 2014, 89, .	3.2	23
15	On-chip magnetic cooling of a nanoelectronic device. Scientific Reports, 2017, 7, 45566.	3.3	21
16	Thirty-Minute Coherence in Free Induction Decay Signals in Superfluid ³ He-B. Journal of Low Temperature Physics, 2000, 121, 303-308.	1.4	17
17	Operating Nanobeams in a Quantum Fluid. Scientific Reports, 2017, 7, 4876.	3.3	17
18	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
19	The Thermal Conductivity of Superfluid ^3He in Aerogel: A Measurement of the Energy Gap. Journal of Low Temperature Physics, 2002, 126, 673-678.	1.4	13
20	Probing Bogoliubov Quasiparticles in Superfluid ^3He with a "Vibrating-Wire Like"™ 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	Grid Turbulence in Superfluid $^3\text{He-B}$ at Low Temperatures. Journal of Low Temperature Physics, 2008, 150, 364-372.	1.4	11
24	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
25	Mesoscopic behaviour of the neutral Fermi gas ^3He confined in quantum wires. Nature, 1998, 395, 578-580.	27.8	10
26	Thermal Conductivity of Normal Liquid ^3He in Aerogel. Journal of Low Temperature Physics, 2002, 129, 185-193.	1.4	10
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 He_4 by a nanomechanical resonator. Physical Review B, 2020, 101, .	3.2	9
30	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
31	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
32	Response of a Mechanical Oscillator in Solid ^4He . Journal of Low Temperature Physics, 2014, 175, 140-146.	1.4	8
33	Measurement of thermoelectric effects at low temperature. American Journal of Physics, 1978, 46, 399-401.	0.7	7
34	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
35	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
36	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

#	ARTICLE	IF	CITATIONS
37	The Unique Superfluid 3He A-B Interface: Surface Tension and Contact Angle. Journal of Low Temperature Physics, 2002, 126, 533-538.	1.4	5
38	Superfluid 3He in the Zero-Temperature Limit. Journal of Low Temperature Physics, 2004, 135, 385-397.	1.4	5
39	Observation of quantum turbulence in superfluid He3 -B using reflection and transmission of ballistic thermal excitations. Physical Review B, 2017, 95, .	3.2	5
40	Novel Oscillating Aerogel Experiments in Superfluid 3He at Ultralow Temperatures. Journal of Low Temperature Physics, 2000, 121, 555-560.	1.4	4
41	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
42	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
43	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
44	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
45	The Thermal Boundary Resistance of the Superfluid 3He A-B Phase Interface in the Low Temperature Limit. AIP Conference Proceedings, 2006, , .	0.4	3
46	Thermal Transport by Ballistic Quasiparticles in Superfluid 3He-B in the Low Temperature Limit. AIP Conference Proceedings, 2006, , .	0.4	3
47	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
48	Coherent Spin Precession in Superfluid 3He-B Excited in a Field Minimum at Low Temperatures. Journal of Low Temperature Physics, 2005, 138, 777-782.	1.4	2
49	The AB Interface in Superfluid 3He as a Simulated Cosmological Brane. Journal of Low Temperature Physics, 2007, 148, 465-473.	1.4	2
50	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
51	Acoustic damping of quartz tuning forks in normal and superfluid He3. Physical Review B, 2019, 100, .	3.2	2
52	Title is missing!. Journal of Low Temperature Physics, 2002, 126, 1457-1470.	1.4	1
53	Preliminary Measurements of Andreev Reflection of Quasiparticles by Turbulence in Superfluid 3He. Journal of Low Temperature Physics, 2001, 124, 113-122.	1.4	0
54	The Generation Of Quantum Turbulence In 3He-B By A Vibrating Grid At Low Temperatures. AIP Conference Proceedings, 2006, , .	0.4	0

#	ARTICLE	IF	CITATIONS
55	The Decay of Quantum Turbulence Generated by a Vibrating Grid at Low Temperatures in Superfluid $^3\text{He-B}$. AIP Conference Proceedings, 2006, , .	0.4	0
56	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