

# Jeevak M Parpia

## List of Publications by Year in descending order

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89  
papers

8,199  
citations

186265  
28  
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54911  
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89  
all docs

89  
docs citations

89  
times ranked

9416  
citing authors

#	ARTICLE	IF	CITATIONS
1	Electromechanical Resonators from Graphene Sheets. <i>Science</i> , 2007, 315, 490-493.	12.6	2,604
2	Impermeable Atomic Membranes from Graphene Sheets. <i>Nano Letters</i> , 2008, 8, 2458-2462.	9.1	2,537
3	Large-Scale Arrays of Single-Layer Graphene Resonators. <i>Nano Letters</i> , 2010, 10, 4869-4873.	9.1	378
4	Superfluid <sup>3</sup> He in Aerogel. <i>Physical Review Letters</i> , 1995, 74, 4667-4670.	7.8	230
5	High, Size-Dependent Quality Factor in an Array of Graphene Mechanical Resonators. <i>Nano Letters</i> , 2011, 11, 1232-1236.	9.1	212
6	Photothermal Self-Oscillation and Laser Cooling of Graphene Optomechanical Systems. <i>Nano Letters</i> , 2012, 12, 4681-4686.	9.1	166
7	Stamp Transferred Suspended Graphene Mechanical Resonators for Radio Frequency Electrical Readout. <i>Nano Letters</i> , 2012, 12, 198-202.	9.1	132
8	Tunable phonon-cavity coupling in graphene membranes. <i>Nature Nanotechnology</i> , 2016, 11, 741-746.	31.5	128
9	Viscosity of Liquid <sup>3</sup> He near the Superfluid Transition. <i>Physical Review Letters</i> , 1978, 40, 565-568.	7.8	124
10	Quantum Phase Transition of <sup>3</sup> He in Aerogel at a Nonzero Pressure. <i>Physical Review Letters</i> , 1997, 79, 253-256.	7.8	115
11	Size and frequency dependent gas damping of nanomechanical resonators. <i>Applied Physics Letters</i> , 2008, 93, .	3.3	87
12	Phase Diagram of the Topological Superfluid <sup>3</sup> He Confined in a Nanoscale Slab Geometry. <i>Science</i> , 2013, 340, 841-844.	12.6	77
13	Finite-Size Effects and Shear Viscosity in Superfluid <sup>3</sup> He-B. <i>Physical Review Letters</i> , 1987, 58, 1937-1940.	7.8	76
14	Correlated disorder in ap-wave superfluid. <i>Physical Review B</i> , 1999, 59, 14583-14592.	3.2	75
15	Stress and Silicon Nitride: A Crack in the Universal Dissipation of Glasses. <i>Physical Review Letters</i> , 2009, 102, 225503.	7.8	74
16	Critical Velocities in Superfluid <sup>3</sup> He. <i>Physical Review Letters</i> , 1979, 43, 1332-1336.	7.8	71
17	Acoustic Spectroscopy of Superfluid <sup>3</sup> He in Aerogel. <i>Physical Review Letters</i> , 1999, 82, 3492-3495.	7.8	58
18	Capillary Condensation of Phase Separated Liquid <sup>3</sup> He- <sup>4</sup> He Mixtures in Aerogel. <i>Journal of Low Temperature Physics</i> , 1998, 110, 591-596.	1.4	53

#	ARTICLE	IF	CITATIONS
19	Slip in Quantum Fluids. Journal of Low Temperature Physics, 1997, 109, 1-105.	1.4	46
20	Strong Gate Coupling of High-Q Nanomechanical Resonators. Nano Letters, 2010, 10, 4884-4889.	9.1	44
21	Slip and the effect of He4 at the silicon interface. Physical Review Letters, 1991, 67, 334-337.	7.8	42
22	Intertwined superfluid and density wave order in two-dimensional 4He. Nature Physics, 2017, 13, 455-459.	16.7	42
23	Evanescent-Field Optical Readout of Graphene Mechanical Motion at Room Temperature. Physical Review Applied, 2015, 3, .	3.8	40
24	Surface-Induced Order Parameter Distortion in Superfluid $^3\text{He}$ Measured by Nonlinear NMR. <a href="http://www.w3.org/1998/Math/MathML">http://www.w3.org/1998/Math/MathML</a> $\frac{\partial \langle \mathbf{B} \rangle}{\partial \langle \mathbf{H} \rangle}$	7.8	34
25	Surface-Induced Order Parameter Distortion in Superfluid $^3\text{He}$ Measured by Nonlinear NMR. <a href="http://www.w3.org/1998/Math/MathML">http://www.w3.org/1998/Math/MathML</a> $\frac{\partial \langle \mathbf{H} \rangle}{\partial \langle \mathbf{B} \rangle}$	7.8	34
26	Detection of DNA and poly-L-lysine using CVD graphene-channel FET biosensors. Nanotechnology, 2015, 26, 125502.	2.6	33
27	Suppression of superfluidity of $^3\text{He}$ in cylindrical channels. Physical Review Letters, 1987, 58, 804-807.	7.8	32
28	Acoustic Properties of Amorphous Silica between 1 and 500 ÅmK. Physical Review Letters, 2008, 100, 195501.	7.8	32
29	Approaching intrinsic performance in ultra-thin silicon nitride drum resonators. Journal of Applied Physics, 2012, 112, .	2.5	27
30	Observation of a new superfluid phase for $^3\text{He}$ embedded in nematically ordered aerogel. Nature Communications, 2016, 7, 12975.	12.8	27
31	The A-B transition in superfluid helium-3 under confinement in a thin slab geometry. Nature Communications, 2017, 8, 15963.	12.8	27
32	Scaling of the Superfluid Fraction and $T_{\text{cof}}$ of $^3\text{He}$ in Aerogel. Physical Review Letters, 2000, 84, 4148-4151.	7.8	26
33	Low Temperature Acoustic Properties of Amorphous Silica and the Tunneling Model. Physical Review Letters, 2000, 84, 4601-4604.	7.8	25
34	Young's modulus and thermal expansion of tensioned graphene membranes. Physical Review B, 2018, 98, .	3.2	25
35	Liquid $^3\text{He}$ in Aerogel: Crossover from Drude's to Hagen-Poiseuille's Law. Physical Review Letters, 1998, 81, 3896-3899.	7.8	22
36	Transfer printing of CVD graphene FETs on patterned substrates. Nanoscale, 2015, 7, 14109-14113.	5.6	22

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37	Effect of He4 on the surface scattering of He3. Physical Review B, 1993, 47, 319-329.	3.2	20
38	Sound Spectroscopy of the Superfluid Phases of $^3\text{He}$ in Aerogel in Zero Magnetic Field. Journal of Low Temperature Physics, 2004, 134, 763-768.	1.4	20
39	Modal dependence of dissipation in silicon nitride drum resonators. Applied Physics Letters, 2011, 99, .	3.3	20
40	Superfluidity of $^3\text{He}$ in Aerogel Covered with a Thick $^4\text{He}$ Film. Physical Review Letters, 1998, 80, 4486-4489.	7.8	19
41	Measuring Frequency Fluctuations in Nonlinear Nanomechanical Resonators. ACS Nano, 2018, 12, 5753-5760.	14.6	19
42	Simultaneous electrical and optical readout of graphene-coated high Q silicon nitride resonators. Applied Physics Letters, 2013, 103, .	3.3	18
43	Fragility of surface states in topological superfluid $^3\text{He}$ . Nature Communications, 2021, 12, 1574.	12.8	18
44	Torsion Pendulum for the Study of Thin $^3\text{He}$ Films. Journal of Low Temperature Physics, 2002, 126, 557-562.	1.4	17
45	Anodically bonded submicron microfluidic chambers. Review of Scientific Instruments, 2010, 81, 013907.	1.3	16
46	Study of Superfluid $^3\text{He}$ Under Nanoscale Confinement. Journal of Low Temperature Physics, 2014, 175, 667-680.	1.4	15
47	Metastability and superfluid fraction of the A-like and B phases of $^3\text{He}$ in aerogel in zero magnetic field. JETP Letters, 2004, 79, 383-387.	1.4	14
48	Elastic properties of polycrystalline Al and Ag films down to 6 mK. Physical Review B, 2010, 82, .	3.2	13
49	The superfluid fraction of $^3\text{He}$ confined in pores of sintered silver. Journal of Low Temperature Physics, 1992, 89, 897-910.	1.4	12
50	High-Q oscillator torque magnetometer. Review of Scientific Instruments, 1998, 69, 3558-3562.	1.3	12
51	Modification of the $^3\text{He}$ Phase Diagram by Anisotropic Disorder. Physical Review Letters, 2011, 107, 235504.	7.8	12
52	Quantum Transport in Mesoscopic $^3\text{He}$ Films: Experimental Study of the Interference of Bulk and Boundary Scattering. Physical Review Letters, 2011, 107, 196805.	7.8	12
53	Effect of Low-Level Radiation on the Low Temperature Acoustic Behavior of $^3\text{SiO}_2$ . Physical Review Letters, 2004, 92, 245502.	7.8	11
54	Low-Power Photothermal Self-Oscillation of Bimetallic Nanowires. Nano Letters, 2017, 17, 3995-4002.	9.1	11

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55	Heat Capacity of $^3\text{He}$ in Aerogel. Physical Review Letters, 2002, 89, 115301.	7.8	10
56	Temperature-dependence of stress and elasticity in wet-transferred graphene membranes. Journal of Applied Physics, 2018, 123, .	2.5	10
57	Fabrication of microfluidic cavities using Si-to-glass anodic bonding. Review of Scientific Instruments, 2018, 89, 073902.	1.3	10
58	Reduction of vibrational noise from continuously filled 1 K pots. Review of Scientific Instruments, 1998, 69, 4176-4178.	1.3	9
59	Measurement of the acoustic properties of amorphous silica above 4.5 mK. Physical Review B, 2005, 71, .	3.2	9
60	Thermal transport of helium-3 in a strongly confining channel. Nature Communications, 2020, 11, 4843.	12.8	9
61	Aerogel: Impurities in superfluid $^3\text{He}$ ?. European Physical Journal D, 1996, 46, 2981-2988.	0.4	7
62	Superfluid density of $^3\text{He}$ in 98% aerogel in small magnetic fields. Physical Review B, 2005, 71, .	3.2	7
63	Decoupling of Confined Normal $^3\text{He}$ . Journal of Low Temperature Physics, 2010, 158, 155-158.	1.4	6
64	Estimate of the gap parameter for superfluid $^3\text{He}$ in aerogel. Physical Review B, 2002, 65, .	3.2	5
65	Scaling Results for Superfluid $^3\text{He}$ in 98% Open Aerogel. Journal of Low Temperature Physics, 2008, 150, 482-486.	1.4	5
66	Path-Dependent Supercooling of the $^3\text{He}$ in Aerogel. Journal of Low Temperature Physics, 2008, 150, 487-496.	7.8	5
67	Superconducting-normal metal interfaces produced by reactive ion etching. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 1991, 9, 3511.	1.6	4
68	Superfluidity of Pure $^3\text{He}$ and Mixtures of $^3\text{He}$ and $^4\text{He}$ in Aerogel. Journal of Low Temperature Physics, 1998, 110, 515-523.	1.4	4
69	Acoustical Experiments on Superfluid $^3\text{He}$ - $^4\text{He}$ Mixtures in Aerogel. Journal of Low Temperature Physics, 2002, 126, 691-696.	1.4	4
70	Acoustic Properties of an Amorphous Silica Oscillator at mK Temperatures. Journal of Low Temperature Physics, 2004, 134, 407-412.	1.4	4
71	Heat Inputs to Sub-mK Temperature Cryostats and Experiments from $\gamma$ -Radiation and Cosmic Ray Muons. Journal of Low Temperature Physics, 2004, 137, 609-623.	1.4	4
72	Dissipation signatures of the normal and superfluid phases in torsion pendulum experiments with $^3\text{He}$ in aerogel. Physical Review B, 2014, 89, .	3.2	4

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73	Modification of aluminum thin films. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1995, 13, 127-131.	2.1	3
74	$^3\text{He}$ in Aerogel – an Inhomogeneously Disordered Unconventional Superfluid. Journal of Low Temperature Physics, 1998, 113, 329-338.	1.4	3
75	An Electronic Demagnetization Stage for the 0.5K to 1.8K Temperature Range. Journal of Low Temperature Physics, 2000, 121, 809-814.	1.4	3
76	Slip in quantum fluids. Journal of Low Temperature Physics, 1997, 109, 1-105.	1.4	3
77	Scaling Properties of Superfluid $^3\text{He}$ in Aerogel. Journal of Low Temperature Physics, 2000, 121, 567-572.	1.4	2
78	Acoustic Spectroscopy of Superfluid $^3\text{He}$ in Aerogel in the Presence of a Magnetic Field. Journal of Low Temperature Physics, 2002, 126, 685-690.	1.4	2
79	Logarithmic Temperature Dependence of the Sound Speed in Amorphous Silica at Low Temperatures. Journal of Low Temperature Physics, 2007, 148, 875-879.	1.4	2
80	Mass Coupling and $Q^{-1}$ of Impurity-Limited Normal $^3\text{He}$ in a Torsion Pendulum. Journal of Low Temperature Physics, 2011, 162, 174-181.	1.4	2
81	Comment on Accessibilized Pair Density Wave via Nanoscale Confinement of Superfluid $^3\text{He}$ . Physical Review Letters, 2020, 125, 059601.	7.8	2
82	Experiments on $^3\text{He}$ - $^4\text{He}$ Mixtures in Aerogel. Journal of Low Temperature Physics, 2000, 121, 579-584.	1.4	1
83	Transport in unconventional superconductors: Application to liquid $^3\text{He}$ in aerogel. Physical Review B, 2005, 72, .	3.2	1
84	Effect of Rough Walls on Transport in Mesoscopic $^3\text{He}$ Films. Journal of Low Temperature Physics, 2013, 171, 725-730.	1.4	1
85	Anomalous Inferred Viscosity and Normal Density Near the $^3\text{He}$ $T_{\text{c}}$ in a Torsion Pendulum. Journal of Low Temperature Physics, 0, , 1.	1.4	1
86	Conversion Between $^3\text{He}$ Melting Curve Scales Below 100ÅmK. Journal of Low Temperature Physics, 0, , .	1.4	1
87	The effect of surface $^4\text{He}$ on superfluid $^3\text{He}$ in aerogel. European Physical Journal D, 1996, 46, 123-124.	0.4	0
88	An experiment to measure the effect of magnetic fields on the superfluid fraction and transition temperature of $^3\text{He}$ in aerogel. European Physical Journal D, 1996, 46, 125-126.	0.4	0
89	An all-optical actuation and detection scheme for studying dissipation and materials properties of NEMS resonators. Conference Proceedings - Lasers and Electro-Optics Society Annual Meeting-LEOS, 2007, , .	0.0	0