

Jeevak M Parpia

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

87
papers

6,664
citations

25
h-index

81
g-index

89
ext. papers

7,580
ext. citations

6.4
avg, IF

5.29
L-index

#	Paper	IF	Citations
87	Electromechanical resonators from graphene sheets. <i>Science</i> , 2007 , 315, 490-3	33.3	2320
86	Impermeable atomic membranes from graphene sheets. <i>Nano Letters</i> , 2008 , 8, 2458-62	11.5	2140
85	Large-scale arrays of single-layer graphene resonators. <i>Nano Letters</i> , 2010 , 10, 4869-73	11.5	304
84	High, size-dependent quality factor in an array of graphene mechanical resonators. <i>Nano Letters</i> , 2011 , 11, 1232-6	11.5	161
83	Superfluid ³ He in aerogel. <i>Physical Review Letters</i> , 1995 , 74, 4667-4670	7.4	161
82	Photothermal self-oscillation and laser cooling of graphene optomechanical systems. <i>Nano Letters</i> , 2012 , 12, 4681-6	11.5	125
81	Stamp transferred suspended graphene mechanical resonators for radio frequency electrical readout. <i>Nano Letters</i> , 2012 , 12, 198-202	11.5	99
80	Tunable phonon-cavity coupling in graphene membranes. <i>Nature Nanotechnology</i> , 2016 , 11, 741-6	28.7	84
79	Viscosity of Liquid He ³ -B near the Superfluid Transition. <i>Physical Review Letters</i> , 1978 , 40, 565-568	7.4	74
78	Size and frequency dependent gas damping of nanomechanical resonators. <i>Applied Physics Letters</i> , 2008 , 93, 013101	3.4	70
77	Stress and silicon nitride: a crack in the universal dissipation of glasses. <i>Physical Review Letters</i> , 2009 , 102, 225503	7.4	61
76	Quantum Phase Transition of ³ He in Aerogel at a Nonzero Pressure. <i>Physical Review Letters</i> , 1997 , 79, 253-256	7.4	61
75	Phase diagram of the topological superfluid ³ He confined in a nanoscale slab geometry. <i>Science</i> , 2013 , 340, 841-4	33.3	59
74	Correlated disorder in a p-wave superfluid. <i>Physical Review B</i> , 1999 , 59, 14583-14592	3.3	56
73	Acoustic Spectroscopy of Superfluid H ³ e in Aerogel. <i>Physical Review Letters</i> , 1999 , 82, 3492-3495	7.4	45
72	Slip in Quantum Fluids. <i>Journal of Low Temperature Physics</i> , 1997 , 109, 1-105	1.3	39
71	Strong gate coupling of high-Q nanomechanical resonators. <i>Nano Letters</i> , 2010 , 10, 4884-9	11.5	37

70	Slip and the effect of 4He at the 3He-silicon interface. <i>Physical Review Letters</i> , 1991 , 67, 334-337	7.4	36
69	Finite-size effects and shear viscosity in superfluid 3He-B. <i>Physical Review Letters</i> , 1987 , 58, 1937-1940	7.4	31
68	Suppression of superfluidity of 3He in cylindrical channels. <i>Physical Review Letters</i> , 1987 , 58, 804-807	7.4	31
67	Detection of DNA and poly-l-lysine using CVD graphene-channel FET biosensors. <i>Nanotechnology</i> , 2015 , 26, 125502	3.4	30
66	Evanescent-Field Optical Readout of Graphene Mechanical Motion at Room Temperature. <i>Physical Review Applied</i> , 2015 , 3,	4.3	29
65	Critical Velocities in Superfluid He3. <i>Physical Review Letters</i> , 1979 , 43, 1332-1336	7.4	29
64	Surface-induced order parameter distortion in superfluid $^3\text{He-B}$ measured by nonlinear NMR. <i>Physical Review Letters</i> , 2013 , 111, 235304	7.4	27
63	Acoustic properties of amorphous silica between 1 and 500 mK. <i>Physical Review Letters</i> , 2008 , 100, 195501	7.4	26
62	Intertwined superfluid and density wave order in two-dimensional 4He. <i>Nature Physics</i> , 2017 , 13, 455-459	6.2	24
61	Approaching intrinsic performance in ultra-thin silicon nitride drum resonators. <i>Journal of Applied Physics</i> , 2012 , 112, 064323	2.5	23
60	Observation of a new superfluid phase for He embedded in nematically ordered aerogel. <i>Nature Communications</i> , 2016 , 7, 12975	17.4	22
59	Scaling of the superfluid fraction and $T(c)$ of 3He in aerogel. <i>Physical Review Letters</i> , 2000 , 84, 4148-51	7.4	21
58	Low temperature acoustic properties of amorphous silica and the tunneling model. <i>Physical Review Letters</i> , 2000 , 84, 4601-4	7.4	20
57	Evidence for a Spatially Modulated Superfluid Phase of ^3He under Confinement. <i>Physical Review Letters</i> , 2019 , 122, 085301	7.4	20
56	Effect of 4He on the surface scattering of 3He. <i>Physical Review B</i> , 1993 , 47, 319-329	3.3	19
55	Modal dependence of dissipation in silicon nitride drum resonators. <i>Applied Physics Letters</i> , 2011 , 99, 253103	3.4	17
54	Liquid ^3He in Aerogel: Crossover from Drude's to Hagen-Poiseuille's Law. <i>Physical Review Letters</i> , 1998 , 81, 3896-3899	7.4	17
53	Young's modulus and thermal expansion of tensioned graphene membranes. <i>Physical Review B</i> , 2018 , 98,	3.3	16

52	The A-B transition in superfluid helium-3 under confinement in a thin slab geometry. <i>Nature Communications</i> , 2017 , 8, 15963	17.4	16
51	Superfluidity of H ₃ e in Aerogel Covered with a Thick H ₄ e Film. <i>Physical Review Letters</i> , 1998 , 80, 4486-4489	7.4	16
50	Simultaneous electrical and optical readout of graphene-coated high Q silicon nitride resonators. <i>Applied Physics Letters</i> , 2013 , 103, 143103	3.4	15
49	Transfer printing of CVD graphene FETs on patterned substrates. <i>Nanoscale</i> , 2015 , 7, 14109-13	7.7	14
48	Metastability and superfluid fraction of the A-like and B phases of ³ He in aerogel in zero magnetic field. <i>JETP Letters</i> , 2004 , 79, 383-387	1.2	14
47	Study of Superfluid (³ He) Under Nanoscale Confinement. <i>Journal of Low Temperature Physics</i> , 2014 , 175, 667-680	1.3	13
46	Anodically bonded submicron microfluidic chambers. <i>Review of Scientific Instruments</i> , 2010 , 81, 013907	1.7	13
45	Modification of the ³ He phase diagram by anisotropic disorder. <i>Physical Review Letters</i> , 2011 , 107, 235504	7.4	12
44	Torsion Pendulum for the Study of Thin ³ He Films. <i>Journal of Low Temperature Physics</i> , 2002 , 126, 557-562	5.6	12
43	High-Q oscillator torque magnetometer. <i>Review of Scientific Instruments</i> , 1998 , 69, 3558-3562	1.7	12
42	Elastic properties of polycrystalline Al and Ag films down to 6 mK. <i>Physical Review B</i> , 2010 , 82,	3.3	11
41	Quantum transport in mesoscopic ³ He films: experimental study of the interference of bulk and boundary scattering. <i>Physical Review Letters</i> , 2011 , 107, 196805	7.4	11
40	The superfluid fraction of ³ He confined in pores of sintered silver. <i>Journal of Low Temperature Physics</i> , 1992 , 89, 897-910	1.3	11
39	Low-Power Photothermal Self-Oscillation of Bimetallic Nanowires. <i>Nano Letters</i> , 2017 , 17, 3995-4002	11.5	10
38	Measuring Frequency Fluctuations in Nonlinear Nanomechanical Resonators. <i>ACS Nano</i> , 2018 , 12, 5753-5760	5.7	10
37	Effect of low-level radiation on the low temperature acoustic behavior of a-SiO ₂ . <i>Physical Review Letters</i> , 2004 , 92, 245502	7.4	10
36	Heat capacity of ³ He in aerogel. <i>Physical Review Letters</i> , 2002 , 89, 115301	7.4	10
35	Capillary Condensation of Phase Separated Liquid ³ He- ⁴ He Mixtures in Aerogel. <i>Journal of Low Temperature Physics</i> , 1998 , 110, 591-596	1.3	8

34	Measurement of the acoustic properties of amorphous silica above 4.5mK. <i>Physical Review B</i> , 2005 , 71,	3.3	8
33	Reduction of vibrational noise from continuously filled 1 K pots. <i>Review of Scientific Instruments</i> , 1998 , 69, 4176-4178	1.7	8
32	Fabrication of microfluidic cavities using Si-to-glass anodic bonding. <i>Review of Scientific Instruments</i> , 2018 , 89, 073902	1.7	7
31	Sound Spectroscopy of the Superfluid Phases of ³ He in Aerogel in Zero Magnetic Field. <i>Journal of Low Temperature Physics</i> , 2004 , 134, 763-768	1.3	7
30	Superfluid density of He3 in 98% aerogel in small magnetic fields. <i>Physical Review B</i> , 2005 , 71,	3.3	7
29	Temperature-dependence of stress and elasticity in wet-transferred graphene membranes. <i>Journal of Applied Physics</i> , 2018 , 123, 095109	2.5	6
28	Decoupling of Confined Normal ³ He. <i>Journal of Low Temperature Physics</i> , 2010 , 158, 155-158	1.3	6
27	Aerogel: Impurities in superfluid ³ He?. <i>European Physical Journal D</i> , 1996 , 46, 2981-2988		5
26	Scaling Results for Superfluid ³ He in 98% Open Aerogel. <i>Journal of Low Temperature Physics</i> , 2008 , 150, 482-486	1.3	4
25	Acoustic Properties of an Amorphous Silica Oscillator at mK Temperatures. <i>Journal of Low Temperature Physics</i> , 2004 , 134, 407-412	1.3	4
24	Heat Inputs to Sub-mK Temperature Cryostats and Experiments from γ -Radiation and Cosmic Ray Muons. <i>Journal of Low Temperature Physics</i> , 2004 , 137, 609-623	1.3	4
23	Acoustical Experiments on Superfluid ³ He- ⁴ He Mixtures in Aerogel. <i>Journal of Low Temperature Physics</i> , 2002 , 126, 691-696	1.3	4
22	Estimate of the gap parameter for superfluid ³ He in aerogel. <i>Physical Review B</i> , 2002 , 65,	3.3	4
21	Superconducting-normal metal interfaces produced by reactive ion etching. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 1991 , 9, 3511		4
20	Dissipation signatures of the normal and superfluid phases in torsion pendulum experiments with He3 in aerogel. <i>Physical Review B</i> , 2014 , 89,	3.3	3
19	An Electronic Demagnetization Stage for the 0.5K to 1.8K Temperature Range. <i>Journal of Low Temperature Physics</i> , 2000 , 121, 809-814	1.3	3
18	Modification of aluminum thin films. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1995 , 13, 127-131	2.9	3
17	Thermal transport of helium-3 in a strongly confining channel. <i>Nature Communications</i> , 2020 , 11, 4843	17.4	3

16	Mass Coupling and Q of Impurity-Limited Normal ^3He in a Torsion Pendulum. <i>Journal of Low Temperature Physics</i> , 2011 , 162, 174-181	1.3	2
15	Superfluidity of Pure ^3He and Mixtures of ^3He and ^4He in Aerogel. <i>Journal of Low Temperature Physics</i> , 1998 , 110, 515-523	1.3	2
14	^3He in Aerogel: An Inhomogeneously Disordered Unconventional Superfluid. <i>Journal of Low Temperature Physics</i> , 1998 , 113, 329-338	1.3	2
13	Logarithmic Temperature Dependence of the Sound Speed in Amorphous Silica at Low Temperatures. <i>Journal of Low Temperature Physics</i> , 2007 , 148, 875-879	1.3	2
12	Acoustic Spectroscopy of Superfluid ^3He in Aerogel in the Presence of a Magnetic Field. <i>Journal of Low Temperature Physics</i> , 2002 , 126, 685-690	1.3	2
11	Scaling Properties of Superfluid ^3He in Aerogel. <i>Journal of Low Temperature Physics</i> , 2000 , 121, 567-572	1.3	2
10	Slip in quantum fluids 1997 , 109, 1		2
9	Fragility of surface states in topological superfluid He. <i>Nature Communications</i> , 2021 , 12, 1574	17.4	2
8	Path-Dependent Supercooling of the ^3He Superfluid A-B Transition. <i>Physical Review Letters</i> , 2021 , 126, 215301	7.4	2
7	Effect of Rough Walls on Transport in Mesoscopic ^3He Films. <i>Journal of Low Temperature Physics</i> , 2013 , 171, 725-730	1.3	1
6	Transport in unconventional superconductors: Application to liquid ^3He in aerogel. <i>Physical Review B</i> , 2005 , 72,	3.3	1
5	Experiments on ^3He - ^4He Mixtures in Aerogel. <i>Journal of Low Temperature Physics</i> , 2000 , 121, 579-584	1.3	1
4	Comment on "Stabilized Pair Density Wave via Nanoscale Confinement of Superfluid ^3He ". <i>Physical Review Letters</i> , 2020 , 125, 059601	7.4	1
3	The effect of surface ^4He on superfluid ^3He in aerogel. <i>European Physical Journal D</i> , 1996 , 46, 123-124		
2	An experiment to measure the effect of magnetic fields on the superfluid fraction and transition temperature of ^3He in aerogel. <i>European Physical Journal D</i> , 1996 , 46, 125-126		
1	Anomalous Inferred Viscosity and Normal Density Near the $(^3\text{He}) (T_{\text{c}})$ in a Torsion Pendulum. <i>Journal of Low Temperature Physics</i> , 1997 , 109, 1	1.3	1