Jeevak M Parpia

List of Publications by Year
in descending order

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89 papers	8,199 citations	186265 28 h-index	54911 84 g-index
89 all docs	89 docs citations	89 times ranked	9416 citing authors

#	Article	IF	Citations
1	Fragility of surface states in topological superfluid 3He. Nature Communications, 2021, 12, 1574.	12.8	18
2	Path-Dependent Supercooling of the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mmultiscripts><mml:mrow><mml:mi>He</mml:mi></mml:mrow><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>3</mml:mn></mml:mrow></mml:mmultiscripts></mml:mrow></mml:math> Superfluid <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mstyle mathvariant="italic"><mml:mrow><mml:mi>A</mml:mi></m	7.8	5
3	Thermal transport of helium-3 in a strongly confining channel. Nature Communications, 2020, 11, 4843.	12.8	9
4	Comment on â€œStabilized Pair Density Wave via Nanoscale Confinement of Superfluid <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mmultiscripts><mml:mrow><mml:mi>He</mml:mi></mml:mrow><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>3</mml:mn></mml:mrow></mml:mmultiscripts></mml:mrow></mml:math> â€• Physical Review [illegible] 2020, 1[illegible]	7.8	2
5	Evidence for a Spatially Modulated Superfluid Phase of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mmultiscripts><mml:mrow><mml:mi>He</mml:mi></mml:mrow><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>3</mml:mn></mml:mrow></mml:mmultiscripts></mml:mrow></mml:math> under Confinement. Physical Review Letters, 2019, 122, 085301.	7.8	34
6	Temperature-dependence of stress and elasticity in wet-transferred graphene membranes. Journal of Applied Physics, 2018, 123, .	2.5	10
7	Fabrication of microfluidic cavities using Si-to-glass anodic bonding. Review of Scientific Instruments, 2018, 89, 073902.	1.3	10
8	Measuring Frequency Fluctuations in Nonlinear Nanomechanical Resonators. ACS Nano, 2018, 12, 5753-5760.	14.6	19
9	Young's modulus and thermal expansion of tensioned graphene membranes. Physical Review B, 2018, 98, .	3.2	25
10	Intertwined superfluid and density wave order in two-dimensional 4He. Nature Physics, 2017, 13, 455-459.	16.7	42
11	Low-Power Photothermal Self-Oscillation of Bimetallic Nanowires. Nano Letters, 2017, 17, 3995-4002.	9.1	11
12	The A-B transition in superfluid helium-3 under confinement in a thin slab geometry. Nature Communications, 2017, 8, 15963.	12.8	27
13	Observation of a new superfluid phase for 3He embedded in nematically ordered aerogel. Nature Communications, 2016, 7, 12975.	12.8	27
14	Tunable phonon-cavity coupling in graphene membranes. Nature Nanotechnology, 2016, 11, 741-746.	31.5	128
15	Detection of DNA and poly-l-lysine using CVD graphene-channel FET biosensors. Nanotechnology, 2015, 26, 125502.	2.6	33
16	Transfer printing of CVD graphene FETs on patterned substrates. Nanoscale, 2015, 7, 14109-14113.	5.6	22
17	Evanescent-Field Optical Readout of Graphene Mechanical Motion at Room Temperature. Physical Review Applied, 2015, 3, .	3.8	40
18	Dissipation signatures of the normal and superfluid phases in torsion pendulum experiments withHe3in aerogel. Physical Review B, 2014, 89, .	3.2	4

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19	Study of Superfluid ^{3} 3 He Under Nanoscale Confinement. Journal of Low Temperature Physics, 2014, 175, 667-680.	1.4	15
20	Effect of Rough Walls on Transport in Mesoscopic 3He Films. Journal of Low Temperature Physics, 2013, 171, 725-730.	1.4	1
21	Phase Diagram of the Topological Superfluid ³ He Confined in a Nanoscale Slab Geometry. Science, 2013, 340, 841-844.	12.6	77
22	Simultaneous electrical and optical readout of graphene-coated high Q silicon nitride resonators. Applied Physics Letters, 2013, 103, .	3.3	18
23	Surface Induced Order Parameter Distortion in Superfluid <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mmultiscripts><mml:mi>He</mml:mi><mml:mprescripts /><mml:none /><mml:mn>3</mml:mn></mml:mmultiscripts><mml:mtext mathvariant="normal">â^'</mml:mtext><mml:mi>B</mml:mi></mml:math>Measured by Nonlinear NMR. Physical Review Letters, 2013, 111, 235304.	7.8	34
24	Approaching intrinsic performance in ultra-thin silicon nitride drum resonators. Journal of Applied Physics, 2012, 112, .	2.5	27
25	Stamp Transferred Suspended Graphene Mechanical Resonators for Radio Frequency Electrical Readout. Nano Letters, 2012, 12, 198-202.	9.1	132
26	Photothermal Self-Oscillation and Laser Cooling of Graphene Optomechanical Systems. Nano Letters, 2012, 12, 4681-4686.	9.1	166
27	Modal dependence of dissipation in silicon nitride drum resonators. Applied Physics Letters, 2011, 99, .	3.3	20
28	High, Size-Dependent Quality Factor in an Array of Graphene Mechanical Resonators. Nano Letters, 2011, 11, 1232-1236.	9.1	212
29	Modification of theHe3Phase Diagram by Anisotropic Disorder. Physical Review Letters, 2011, 107, 235504.	7.8	12
30	Mass Coupling and Q â^'1 of Impurity-Limited Normal 3He inÂaÂTorsion Pendulum. Journal of Low Temperature Physics, 2011, 162, 174-181.	1.4	2
31	Quantum Transport in Mesoscopic<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mmultiscripts><mml:mi>He</mml:mi><mml:mprescripts /><mml:none /><mml:mn>3</mml:mn></mml:mmultiscripts></mml:math>Films: Experimental Study of the Interference of Bulk and Boundary Scattering. Physical Review Letters, 2011, 107, 196805.	7.8	12
32	Decoupling of Confined Normal 3He. Journal of Low Temperature Physics, 2010, 158, 155-158.	1.4	6
33	Anodically bonded submicron microfluidic chambers. Review of Scientific Instruments, 2010, 81, 013907.	1.3	16
34	Elastic properties of polycrystalline Al and Ag films down to 6 mK. Physical Review B, 2010, 82, .	3.2	13
35	Large-Scale Arrays of Single-Layer Graphene Resonators. Nano Letters, 2010, 10, 4869-4873.	9.1	378
36	Strong Gate Coupling of High-Q Nanomechanical Resonators. Nano Letters, 2010, 10, 4884-4889.	9.1	44

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37	Stress and Silicon Nitride: A Crack in the Universal Dissipation of Glasses. Physical Review Letters, 2009, 102, 225503.	7.8	74
38	Scaling Results for Superfluid 3He in 98% Open Aerogel. Journal of Low Temperature Physics, 2008, 150, 482-486.	1.4	5
39	Impermeable Atomic Membranes from Graphene Sheets. Nano Letters, 2008, 8, 2458-2462.	9.1	2,537
40	Size and frequency dependent gas damping of nanomechanical resonators. Applied Physics Letters, 2008, 93, .	3.3	87
41	Acoustic Properties of Amorphous Silica between 1 and 500ÂmK. Physical Review Letters, 2008, 100, 195501.	7.8	32
42	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
43	Electromechanical Resonators from Graphene Sheets. Science, 2007, 315, 490-493.	12.6	2,604
44	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
45	Measurement of the acoustic properties of amorphous silica above4.5mK. Physical Review B, 2005, 71, .	3.2	9
46	Superfluid density ofHe3in 98% aerogel in small magnetic fields. Physical Review B, 2005, 71, .	3.2	7
47	Transport in unconventional superconductors: Application to liquidHe3in aerogel. Physical Review B, 2005, 72, .	3.2	1
48	Effect of Low-Level Radiation on the Low Temperature Acoustic Behavior ofaâ^'SiO2. Physical Review Letters, 2004, 92, 245502.	7.8	11
49	Metastability and superfluid fraction of the A-like and B phases of 3He in aerogel in zero magnetic field. JETP Letters, 2004, 79, 383-387.	1.4	14
50	Acoustic Properties of an Amorphous Silica Oscillator at mK Temperatures. Journal of Low Temperature Physics, 2004, 134, 407-412.	1.4	4
51	Sound Spectroscopy of the Superfluid Phases of3He in Aerogel in Zero Magnetic Field. Journal of Low Temperature Physics, 2004, 134, 763-768.	1.4	20
52	Heat Inputs to Sub-mK Temperature Cryostats and Experiments from ?-Radiation and Cosmic Ray Muons. Journal of Low Temperature Physics, 2004, 137, 609-623.	1.4	4
53	Heat Capacity ofH3ein Aerogel. Physical Review Letters, 2002, 89, 115301.	7.8	10
54	Estimate of the gap parameter for superfluid3Hein aerogel. Physical Review B, 2002, 65, .	3.2	5

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55	Acoustical Experiments on Superfluid 3He-4He Mixtures in Aerogel. Journal of Low Temperature Physics, 2002, 126, 691-696.	1.4	4
56	Acoustic Spectroscopy of Superfluid 3He in Aerogel in the Presence of a Magnetic Field. Journal of Low Temperature Physics, 2002, 126, 685-690.	1.4	2
57	Torsion Pendulum for the Study of Thin 3He Films. Journal of Low Temperature Physics, 2002, 126, 557-562.	1.4	17
58	Scaling Properties of Superfluid 3He in Aerogel. Journal of Low Temperature Physics, 2000, 121, 567-572.	1.4	2
59	Experiments on 3Heâ€“4He Mixtures in Aerogel. Journal of Low Temperature Physics, 2000, 121, 579-584.	1.4	1
60	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
61	Scaling of the Superfluid Fraction andTcof3Hein Aerogel. Physical Review Letters, 2000, 84, 4148-4151.	7.8	26
62	Low Temperature Acoustic Properties of Amorphous Silica and the Tunneling Model. Physical Review Letters, 2000, 84, 4601-4604.	7.8	25
63	Acoustic Spectroscopy of SuperfluidH3ein Aerogel. Physical Review Letters, 1999, 82, 3492-3495.	7.8	58
64	Correlated disorder in ap-wave superfluid. Physical Review B, 1999, 59, 14583-14592.	3.2	75
65	Superfluidity of Pure 3He and Mixtures of 3He and 4He in Aerogel. Journal of Low Temperature Physics, 1998, 110, 515-523.	1.4	4
66	3He in Aerogel â€“ an Inhomogeneously Disordered Unconventional Superfluid. Journal of Low Temperature Physics, 1998, 113, 329-338.	1.4	3
67	Capillary Condensation of Phase Separated Liquid 3He-4He Mixtures in Aerogel. Journal of Low Temperature Physics, 1998, 110, 591-596.	1.4	53
68	Superfluidity ofH3ein Aerogel Covered with a ThickH4eFilm. Physical Review Letters, 1998, 80, 4486-4489.	7.8	19
69	High-Q oscillator torque magnetometer. Review of Scientific Instruments, 1998, 69, 3558-3562.	1.3	12
70	Reduction of vibrational noise from continuously filled 1 K pots. Review of Scientific Instruments, 1998, 69, 4176-4178.	1.3	9
71	LiquidH3ein Aerogel: Crossover from Drude's to Hagen-Poiseuille's Law. Physical Review Letters, 1998, 81, 3896-3899.	7.8	22
72	Quantum Phase Transition of3Hein Aerogel at a Nonzero Pressure. Physical Review Letters, 1997, 79, 253-256.	7.8	115

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73	Slip in Quantum Fluids. Journal of Low Temperature Physics, 1997, 109, 1-105.	1.4	46
74	Slip in quantum fluids. Journal of Low Temperature Physics, 1997, 109, 1-105.	1.4	3
75	Aerogel: Impurities in superfluid3He?. European Physical Journal D, 1996, 46, 2981-2988.	0.4	7
76	The effect of surface4He on superfluid3He in aerogel. European Physical Journal D, 1996, 46, 123-124.	0.4	0
77	An experiment to measure the effect of magnetic fields on the superfluid fraction and transition temperature of3He in aerogel. European Physical Journal D, 1996, 46, 125-126.	0.4	0
78	Modification of aluminum thin films. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1995, 13, 127-131.	2.1	3
79	Superfluid3He in Aerogel. Physical Review Letters, 1995, 74, 4667-4670.	7.8	230
80	Effect ofHe4on the surface scattering ofHe3. Physical Review B, 1993, 47, 319-329.	3.2	20
81	The superfluid fraction of3He confined in pores of sintered silver. Journal of Low Temperature Physics, 1992, 89, 897-910.	1.4	12
82	Slip and the effect ofHe4at thesilicon3interface. Physical Review Letters, 1991, 67, 334-337.	7.8	42
83	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
84	Finite-Size Effects and Shear Viscosity in SuperfluidHe3-B. Physical Review Letters, 1987, 58, 1937-1940.	7.8	76
85	Suppression of superfluidity ofHe3in cylindrical channels. Physical Review Letters, 1987, 58, 804-807.	7.8	32
86	Critical Velocities in SuperfluidHe3. Physical Review Letters, 1979, 43, 1332-1336.	7.8	71
87	Viscosity of LiquidHe3-Bnear the Superfluid Transition. Physical Review Letters, 1978, 40, 565-568.	7.8	124
88	Anomalous Inferred Viscosity and Normal Density Near the ^{3}He $$T_{mathrm{c}}$$ in a Torsion Pendulum. Journal of Low Temperature Physics, 0, , 1.	1.4	1
89	Conversion Between ^{3}He Melting Curve Scales Below 100ÂmK. Journal of Low Temperature Physics, 0, , .	1.4	1