

Jeevak M Parpia

List of Publications by Year in Descending Order

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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 | Fragility of surface states in topological superfluid He. <i>Nature Communications</i> , 2021 , 12, 1574 | 17.4 | 2 |
| 86 | Path-Dependent Supercooling of the ^3He Superfluid A-B Transition. <i>Physical Review Letters</i> , 2021 , 126, 215301 | 7.4 | 2 |
| 85 | Thermal transport of helium-3 in a strongly confining channel. <i>Nature Communications</i> , 2020 , 11, 4843 | 17.4 | 3 |
| 84 | Comment on "Stabilized Pair Density Wave via Nanoscale Confinement of Superfluid ^3He ". <i>Physical Review Letters</i> , 2020 , 125, 059601 | 7.4 | 1 |
| 83 | Evidence for a Spatially Modulated Superfluid Phase of ^3He under Confinement. <i>Physical Review Letters</i> , 2019 , 122, 085301 | 7.4 | 20 |
| 82 | Temperature-dependence of stress and elasticity in wet-transferred graphene membranes. <i>Journal of Applied Physics</i> , 2018 , 123, 095109 | 2.5 | 6 |
| 81 | Fabrication of microfluidic cavities using Si-to-glass anodic bonding. <i>Review of Scientific Instruments</i> , 2018 , 89, 073902 | 1.7 | 7 |
| 80 | Measuring Frequency Fluctuations in Nonlinear Nanomechanical Resonators. <i>ACS Nano</i> , 2018 , 12, 5753-5760 | 11.5 | 10 |
| 79 | Young's modulus and thermal expansion of tensioned graphene membranes. <i>Physical Review B</i> , 2018 , 98, | 3.3 | 16 |
| 78 | Intertwined superfluid and density wave order in two-dimensional ^4He . <i>Nature Physics</i> , 2017 , 13, 455-459 | 16.2 | 24 |
| 77 | Low-Power Photothermal Self-Oscillation of Bimetallic Nanowires. <i>Nano Letters</i> , 2017 , 17, 3995-4002 | 11.5 | 10 |
| 76 | 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 |
| 75 | Observation of a new superfluid phase for He embedded in nematically ordered aerogel. <i>Nature Communications</i> , 2016 , 7, 12975 | 17.4 | 22 |
| 74 | Tunable phonon-cavity coupling in graphene membranes. <i>Nature Nanotechnology</i> , 2016 , 11, 741-6 | 28.7 | 84 |
| 73 | Transfer printing of CVD graphene FETs on patterned substrates. <i>Nanoscale</i> , 2015 , 7, 14109-13 | 7.7 | 14 |
| 72 | Evanescent-Field Optical Readout of Graphene Mechanical Motion at Room Temperature. <i>Physical Review Applied</i> , 2015 , 3, | 4.3 | 29 |
| 71 | Detection of DNA and poly-l-lysine using CVD graphene-channel FET biosensors. <i>Nanotechnology</i> , 2015 , 26, 125502 | 3.4 | 30 |

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|----|---|------|-----|
| 70 | Study of Superfluid (³ He) Under Nanoscale Confinement. <i>Journal of Low Temperature Physics</i> , 2014 , 175, 667-680 | 1.3 | 13 |
| 69 | 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 |
| 68 | Effect of Rough Walls on Transport in Mesoscopic 3He Films. <i>Journal of Low Temperature Physics</i> , 2013 , 171, 725-730 | 1.3 | 1 |
| 67 | Phase diagram of the topological superfluid 3He confined in a nanoscale slab geometry. <i>Science</i> , 2013 , 340, 841-4 | 33.3 | 59 |
| 66 | Simultaneous electrical and optical readout of graphene-coated high Q silicon nitride resonators. <i>Applied Physics Letters</i> , 2013 , 103, 143103 | 3.4 | 15 |
| 65 | Surface-induced order parameter distortion in superfluid ³ He-B measured by nonlinear NMR. <i>Physical Review Letters</i> , 2013 , 111, 235304 | 7.4 | 27 |
| 64 | Stamp transferred suspended graphene mechanical resonators for radio frequency electrical readout. <i>Nano Letters</i> , 2012 , 12, 198-202 | 11.5 | 99 |
| 63 | Photothermal self-oscillation and laser cooling of graphene optomechanical systems. <i>Nano Letters</i> , 2012 , 12, 4681-6 | 11.5 | 125 |
| 62 | Approaching intrinsic performance in ultra-thin silicon nitride drum resonators. <i>Journal of Applied Physics</i> , 2012 , 112, 064323 | 2.5 | 23 |
| 61 | Modification of the 3He phase diagram by anisotropic disorder. <i>Physical Review Letters</i> , 2011 , 107, 235504 | 7.4 | 12 |
| 60 | 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 |
| 59 | Modal dependence of dissipation in silicon nitride drum resonators. <i>Applied Physics Letters</i> , 2011 , 99, 253103 | 3.4 | 17 |
| 58 | High, size-dependent quality factor in an array of graphene mechanical resonators. <i>Nano Letters</i> , 2011 , 11, 1232-6 | 11.5 | 161 |
| 57 | Quantum transport in mesoscopic 3He films: experimental study of the interference of bulk and boundary scattering. <i>Physical Review Letters</i> , 2011 , 107, 196805 | 7.4 | 11 |
| 56 | Anodically bonded submicron microfluidic chambers. <i>Review of Scientific Instruments</i> , 2010 , 81, 013907 | 1.7 | 13 |
| 55 | Elastic properties of polycrystalline Al and Ag films down to 6 mK. <i>Physical Review B</i> , 2010 , 82, | 3.3 | 11 |
| 54 | Large-scale arrays of single-layer graphene resonators. <i>Nano Letters</i> , 2010 , 10, 4869-73 | 11.5 | 304 |
| 53 | Strong gate coupling of high-Q nanomechanical resonators. <i>Nano Letters</i> , 2010 , 10, 4884-9 | 11.5 | 37 |

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|----|---|------|------|
| 52 | Decoupling of Confined Normal ^3He . <i>Journal of Low Temperature Physics</i> , 2010 , 158, 155-158 | 1.3 | 6 |
| 51 | Stress and silicon nitride: a crack in the universal dissipation of glasses. <i>Physical Review Letters</i> , 2009 , 102, 225503 | 7.4 | 61 |
| 50 | Impermeable atomic membranes from graphene sheets. <i>Nano Letters</i> , 2008 , 8, 2458-62 | 11.5 | 2140 |
| 49 | Size and frequency dependent gas damping of nanomechanical resonators. <i>Applied Physics Letters</i> , 2008 , 93, 013101 | 3.4 | 70 |
| 48 | Acoustic properties of amorphous silica between 1 and 500 mK. <i>Physical Review Letters</i> , 2008 , 100, 195501 | 1.3 | 26 |
| 47 | Scaling Results for Superfluid ^3He in 98% Open Aerogel. <i>Journal of Low Temperature Physics</i> , 2008 , 150, 482-486 | 1.3 | 4 |
| 46 | 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 |
| 45 | Electromechanical resonators from graphene sheets. <i>Science</i> , 2007 , 315, 490-3 | 33.3 | 2320 |
| 44 | Measurement of the acoustic properties of amorphous silica above 4.5mK. <i>Physical Review B</i> , 2005 , 71, | 3.3 | 8 |
| 43 | Superfluid density of He_3 in 98% aerogel in small magnetic fields. <i>Physical Review B</i> , 2005 , 71, | 3.3 | 7 |
| 42 | Transport in unconventional superconductors: Application to liquid He_3 in aerogel. <i>Physical Review B</i> , 2005 , 72, | 3.3 | 1 |
| 41 | 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 |
| 40 | Metastability and superfluid fraction of the A-like and B phases of ^3He in aerogel in zero magnetic field. <i>JETP Letters</i> , 2004 , 79, 383-387 | 1.2 | 14 |
| 39 | Acoustic Properties of an Amorphous Silica Oscillator at mK Temperatures. <i>Journal of Low Temperature Physics</i> , 2004 , 134, 407-412 | 1.3 | 4 |
| 38 | Sound Spectroscopy of the Superfluid Phases of ^3He in Aerogel in Zero Magnetic Field. <i>Journal of Low Temperature Physics</i> , 2004 , 134, 763-768 | 1.3 | 7 |
| 37 | 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 |
| 36 | Acoustical Experiments on Superfluid ^3He - ^4He Mixtures in Aerogel. <i>Journal of Low Temperature Physics</i> , 2002 , 126, 691-696 | 1.3 | 4 |
| 35 | 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 |

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|----|--|-----|----|
| 34 | Torsion Pendulum for the Study of Thin ^3He Films. <i>Journal of Low Temperature Physics</i> , 2002 , 126, 557-562 | 7.4 | 12 |
| 33 | Heat capacity of ^3He in aerogel. <i>Physical Review Letters</i> , 2002 , 89, 115301 | 7.4 | 10 |
| 32 | Estimate of the gap parameter for superfluid ^3He in aerogel. <i>Physical Review B</i> , 2002 , 65, | 3.3 | 4 |
| 31 | Scaling Properties of Superfluid ^3He in Aerogel. <i>Journal of Low Temperature Physics</i> , 2000 , 121, 567-572 | 1.3 | 2 |
| 30 | Experiments on ^3He - ^4He Mixtures in Aerogel. <i>Journal of Low Temperature Physics</i> , 2000 , 121, 579-584 | 1.3 | 1 |
| 29 | 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 |
| 28 | Scaling of the superfluid fraction and $T(c)$ of ^3He in aerogel. <i>Physical Review Letters</i> , 2000 , 84, 4148-51 | 7.4 | 21 |
| 27 | Low temperature acoustic properties of amorphous silica and the tunneling model. <i>Physical Review Letters</i> , 2000 , 84, 4601-4 | 7.4 | 20 |
| 26 | Acoustic Spectroscopy of Superfluid ^3He in Aerogel. <i>Physical Review Letters</i> , 1999 , 82, 3492-3495 | 7.4 | 45 |
| 25 | Correlated disorder in a p-wave superfluid. <i>Physical Review B</i> , 1999 , 59, 14583-14592 | 3.3 | 56 |
| 24 | 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 |
| 23 | ^3He in Aerogel: An Inhomogeneously Disordered Unconventional Superfluid. <i>Journal of Low Temperature Physics</i> , 1998 , 113, 329-338 | 1.3 | 2 |
| 22 | Capillary Condensation of Phase Separated Liquid ^3He - ^4He Mixtures in Aerogel. <i>Journal of Low Temperature Physics</i> , 1998 , 110, 591-596 | 1.3 | 8 |
| 21 | Superfluidity of ^3He in Aerogel Covered with a Thick ^4He Film. <i>Physical Review Letters</i> , 1998 , 80, 4486-4489 | 7.4 | 16 |
| 20 | High-Q oscillator torque magnetometer. <i>Review of Scientific Instruments</i> , 1998 , 69, 3558-3562 | 1.7 | 12 |
| 19 | Reduction of vibrational noise from continuously filled 1 K pots. <i>Review of Scientific Instruments</i> , 1998 , 69, 4176-4178 | 1.7 | 8 |
| 18 | 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 |
| 17 | Quantum Phase Transition of ^3He in Aerogel at a Nonzero Pressure. <i>Physical Review Letters</i> , 1997 , 79, 253-256 | 7.4 | 61 |

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|----|---|-----|-----|
| 16 | Slip in Quantum Fluids. <i>Journal of Low Temperature Physics</i> , 1997 , 109, 1-105 | 1.3 | 39 |
| 15 | Slip in quantum fluids 1997 , 109, 1 | | 2 |
| 14 | Aerogel: Impurities in superfluid ³ He?. <i>European Physical Journal D</i> , 1996 , 46, 2981-2988 | | 5 |
| 13 | The effect of surface ⁴ He on superfluid ³ He in aerogel. <i>European Physical Journal D</i> , 1996 , 46, 123-124 | | |
| 12 | An experiment to measure the effect of magnetic fields on the superfluid fraction and transition temperature of ³ He in aerogel. <i>European Physical Journal D</i> , 1996 , 46, 125-126 | | |
| 11 | 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 |
| 10 | Superfluid ³ He in aerogel. <i>Physical Review Letters</i> , 1995 , 74, 4667-4670 | 7.4 | 161 |
| 9 | Effect of ⁴ He on the surface scattering of ³ He. <i>Physical Review B</i> , 1993 , 47, 319-329 | 3.3 | 19 |
| 8 | 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 |
| 7 | Slip and the effect of ⁴ He at the ³ He-silicon interface. <i>Physical Review Letters</i> , 1991 , 67, 334-337 | 7.4 | 36 |
| 6 | 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 |
| 5 | Finite-size effects and shear viscosity in superfluid ³ He-B. <i>Physical Review Letters</i> , 1987 , 58, 1937-1940 | 7.4 | 31 |
| 4 | Suppression of superfluidity of ³ He in cylindrical channels. <i>Physical Review Letters</i> , 1987 , 58, 804-807 | 7.4 | 31 |
| 3 | Critical Velocities in Superfluid He ³ . <i>Physical Review Letters</i> , 1979 , 43, 1332-1336 | 7.4 | 29 |
| 2 | Viscosity of Liquid He ³ -B near the Superfluid Transition. <i>Physical Review Letters</i> , 1978 , 40, 565-568 | 7.4 | 74 |
| 1 | Anomalous Inferred Viscosity and Normal Density Near the (³ He) (T_{c}) in a Torsion Pendulum. <i>Journal of Low Temperature Physics</i> , 1 | 1.3 | |