

Mandar M Deshmukh

List of Publications by Year in descending order

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60
papers

2,727
citations

218677

26
h-index

175258

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60
all docs

60
docs citations

60
times ranked

4083
citing authors

#	ARTICLE	IF	CITATIONS
1	Superconducting Vortex-Charge Measurement Using Cavity Electromechanics. Nano Letters, 2022, 22, 1665-1671.	9.1	8
2	Dynamics of Interfacial Bubble Controls Adhesion Mechanics in Van der Waals Heterostructure. Nano Letters, 2022, 22, 3612-3619.	9.1	4
3	Berry curvature dipole senses topological transition in a moiré superlattice. Nature Physics, 2022, 18, 765-770.	16.7	51
4	Observation of Standing Spin Waves in a van der Waals Magnetic Material. Advanced Materials, 2021, 33, e2005105.	21.0	17
5	Nanoscale devices with superconducting electrodes to locally channel current in 3D Weyl semimetals. Applied Physics Letters, 2021, 119, 133501.	3.3	2
6	On-Demand Local Modification of High-T _c Superconductivity in Few Unit-Cell Thick Bi ₂ Sr ₂ CaCuO _{8+δ} . Advanced Materials, 2020, 32, e2002220.	21.0	11
7	Bulk valley transport and Berry curvature spreading at the edge of flat bands. Nature Communications, 2020, 11, 5548.	12.8	21
8	Facile deterministic cutting of 2D materials for twistrionics using a tapered fibre scalpel. Nanotechnology, 2020, 31, 32LT02.	2.6	5
9	Tunable bandwidths and gaps in twisted double bilayer graphene on the verge of correlations. Physical Review B, 2020, 101, .	3.2	31
10	Coplanar cavity for strong coupling between photons and magnons in van der Waals antiferromagnet. Applied Physics Letters, 2020, 117, .	3.3	15
11	Nontrivial quantum oscillation geometric phase shift in a trivial band. Science Advances, 2019, 5, eaax6550.	10.3	7
12	Elastic properties of few unit cell thick superconducting crystals of Bi ₂ Sr ₂ CaCuO _{8+δ} . Applied Physics Letters, 2019, 115, .	3.3	3
13	Nanoelectromechanical resonators from high-T _c superconducting crystals of Bi ₂ Sr ₂ Ca ₁ Cu ₂ O _{8+δ} . 2D Materials, 2019, 6, 025027.	4.4	4
14	Landau Level Diagram and the Continuous Rotational Symmetry Breaking in Trilayer Graphene. Physical Review Letters, 2018, 121, 056801.	7.8	10
15	Tension mediated nonlinear coupling between orthogonal mechanical modes of nanowire resonators. Solid State Communications, 2018, 282, 17-20.	1.9	4
16	Strong electronic interaction and multiple quantum Hall ferromagnetic phases in trilayer graphene. Nature Communications, 2017, 8, 14518.	12.8	22
17	Growth of high-quality Bi ₂ Sr ₂ CaCuO _{8+δ} whiskers and electrical properties of resulting exfoliated flakes. Scientific Reports, 2017, 7, 3295.	3.3	8
18	Abrupt p-n junction using ionic gating at zero-bias in bilayer graphene. Scientific Reports, 2017, 7, 3336.	3.3	9

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19	Tuning equilibration of quantum Hall edge states in graphene – Role of crossed electric and magnetic fields. Solid State Communications, 2016, 237-238, 59-63.	1.9	3
20	Dynamical strong coupling and parametric amplification of mechanical modes of graphene drums. Nature Nanotechnology, 2016, 11, 747-751.	31.5	139
21	Low tension graphene drums for electromechanical pressure sensing. 2D Materials, 2016, 3, 011003.	4.4	18
22	Fabrication and characterization of GaN nanowire doubly clamped resonators. Journal of Applied Physics, 2015, 118, .	2.5	9
23	Carrier Transport in High Mobility InAs Nanowire Junctionless Transistors. Nano Letters, 2015, 15, 1684-1690.	9.1	44
24	Limits on the bolometric response of graphene due to flicker noise. Applied Physics Letters, 2015, 106, 051113.	3.3	10
25	Nanoscale Electromechanics To Measure Thermal Conductivity, Expansion, and Interfacial Losses. Nano Letters, 2015, 15, 7621-7626.	9.1	17
26	Light matter interaction in WS ₂ nanotube-graphene hybrid devices. Applied Physics Letters, 2014, 105, 223502.	3.3	12
27	Schottky barrier heights for Au and Pd contacts to MoS ₂ . Applied Physics Letters, 2014, 105, .	3.3	224
28	A facile process for soak-and-peel delamination of CVD graphene from substrates using water. Scientific Reports, 2014, 4, 3882.	3.3	76
29	Tunable Superlattice in Graphene To Control the Number of Dirac Points. Nano Letters, 2013, 13, 3990-3995.	9.1	76
30	Dynamically Tracking the Strain Across the Metal–Insulator Transition in VO ₂ Measured Using Electromechanical Resonators. Nano Letters, 2013, 13, 4685-4689.	9.1	16
31	Plasmon Mode Modifies the Elastic Response of a Nanoscale Charge Density Wave System. Physical Review Letters, 2013, 110, 166403.	7.8	6
32	MOVPE growth of semipolar III-nitride semiconductors on CVD graphene. Journal of Crystal Growth, 2013, 372, 105-108.	1.5	76
33	Free-standing semipolar III-nitride quantum well structures grown on chemical vapor deposited graphene layers. Applied Physics Letters, 2013, 103, 181108.	3.3	25
34	Wide Bandwidth Nanowire Electromechanics on Insulating Substrates at Room Temperature. Nano Letters, 2012, 12, 6432-6435.	9.1	16
35	Compact, inexpensive coaxial terminations and wiring for low temperature RF applications. Cryogenics, 2012, 52, 461-464.	1.7	5
36	Dense Electron System from Gate-Controlled Surface Metal–Insulator Transition. Nano Letters, 2012, 12, 6272-6277.	9.1	57

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37	Suspended Graphene Devices for Nanoelectromechanics and for the Study of Quantum Hall Effect. , 2012, , 197-209.		0
38	Coupling between quantum Hall state and electromechanics in suspended graphene resonator. Applied Physics Letters, 2012, 100, 233103.	3.3	29
39	Dual top gated graphene transistor in the quantum Hall regime. Solid State Communications, 2012, 152, 545-548.	1.9	6
40	Field-effect modulation of conductance in VO ₂ nanobeam transistors with HfO ₂ as the gate dielectric. Applied Physics Letters, 2011, 99, .	3.3	70
41	Facile fabrication of lateral nanowire wrap-gate devices with improved performance. Applied Physics Letters, 2011, 99, .	3.3	18
42	Graphene " An exciting two-dimensional material for science and technology. Resonance, 2011, 16, 238-253.	0.3	9
43	Tunable thermal conductivity in defect engineered nanowires at low temperatures. Physical Review B, 2011, 84, .	3.2	31
44	High Q electromechanics with InAs nanowire quantum dots. Applied Physics Letters, 2011, 99, .	3.3	9
45	Tuning mechanical modes and influence of charge screening in nanowire resonators. Physical Review B, 2010, 81, .	3.2	39
46	Probing thermal expansion of graphene and modal dispersion at low-temperature using graphene nanoelectromechanical systems resonators. Nanotechnology, 2010, 21, 165204.	2.6	201
47	Electromechanical resonators as probes of the charge density wave transition at the nanoscale in NbSe_2 . Physical Review B, 2010, 82, .	3.2	34
48	Nonequilibrium breakdown of quantum Hall state in graphene. Physical Review B, 2009, 80, .	3.2	29
49	Magnetotransport properties of individual InAs nanowires. Physical Review B, 2009, 79, .	3.2	75
50	Magnetic switching of phase-slip dissipation in NbSe ₂ nanoribbons. Physical Review B, 2007, 75, .	3.2	20
51	Signatures of Molecular Magnetism in Single-Molecule Transport Spectroscopy. Nano Letters, 2006, 6, 2014-2020.	9.1	329
52	Vapor-Phase Synthesis and Characterization of $\mu\text{-FeSi}$ Nanowires. Advanced Materials, 2006, 18, 1437-1440.	21.0	87
53	Fabrication of Asymmetric Electrode Pairs with Nanometer Separation Made of Two Distinct Metals. Nano Letters, 2003, 3, 1383-1385.	9.1	56
54	Using Single Quantum States as Spin Filters to Study Spin Polarization in Ferromagnets. Physical Review Letters, 2002, 89, 266803.	7.8	74

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55	Equilibrium and nonequilibrium electron tunneling via discrete quantum states. Physical Review B, 2002, 65, .	3.2	24
56	Solving rate equations for electron tunneling via discrete quantum states. Physical Review B, 2002, 65, .	3.2	135
57	Magnetic Anisotropy Variations and Nonequilibrium Tunneling in a Cobalt Nanoparticle. Physical Review Letters, 2001, 87, 226801.	7.8	57
58	Model for ferromagnetic nanograins with discrete electronic states. Physical Review B, 2001, 64, .	3.2	37
59	Tunneling via Individual Electronic States in Ferromagnetic Nanoparticles. Physical Review Letters, 1999, 83, 4148-4151.	7.8	117
60	Nanofabrication using a stencil mask. Applied Physics Letters, 1999, 75, 1631-1633.	3.3	180