

# Vikram V Deshpande

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1283764/publications.pdf>

Version: 2024-02-01

23  
papers

1,278  
citations

623734

14  
h-index

677142

22  
g-index

26  
all docs

26  
docs citations

26  
times ranked

1976  
citing authors

#	ARTICLE	IF	CITATIONS
1	Spin-optoelectronic devices based on hybrid organic-inorganic trihalide perovskites. Nature Communications, 2019, 10, 129.	12.8	214
2	Electron liquids and solids in one dimension. Nature, 2010, 464, 209-216.	27.8	204
3	The one-dimensional Wigner crystal in carbon nanotubes. Nature Physics, 2008, 4, 314-318.	16.7	203
4	Mott Insulating State in Ultraclean Carbon Nanotubes. Science, 2009, 323, 106-110.	12.6	151
5	Radio frequency electrical transduction of graphene mechanical resonators. Applied Physics Letters, 2010, 97, .	3.3	112
6	Spatially Resolved Temperature Measurements of Electrically Heated Carbon Nanotubes. Physical Review Letters, 2009, 102, 105501.	7.8	89
7	Electrically integrated SU-8 clamped graphene drum resonators for strain engineering. Applied Physics Letters, 2013, 102, 153101.	3.3	67
8	Modulation of mechanical resonance by chemical potential oscillation in graphene. Nature Physics, 2016, 12, 240-244.	16.7	47
9	Tunable Coupling between Surface States of a Three-Dimensional Topological Insulator in the Quantum Hall Regime. Physical Review Letters, 2019, 123, 036804.	7.8	26
10	Topological Insulator-Based van der Waals Heterostructures for Effective Control of Massless and Massive Dirac Fermions. Nano Letters, 2018, 18, 8047-8053.	9.1	25
11	Manifestation of Kinetic Inductance in Terahertz Plasmon Resonances in Thin-Film Cd <sub>3</sub> As <sub>2</sub> . ACS Nano, 2019, 13, 4091-4100.	14.6	24
12	Enhancement in surface mobility and quantum transport of Bi <sub>2</sub> <sup>x</sup> Sb <sub>3</sub> Te <sub>3</sub> <sup>y</sup> Se <sub>y</sub> topological insulator by controlling the crystal growth conditions. Scientific Reports, 2018, 8, 17290.	3.3	17
13	Spin Wave Excitation, Detection, and Utilization in the Organic-Based Magnet, V(TCNE) <sub>x</sub> (TCNE = Tetracyanoethylene). Advanced Materials, 2020, 32, e2002663.	21.0	17
14	Unique Thermoelectric Properties Induced by Intrinsic Nanostructuring in a Polycrystalline Thin-Film Two-Dimensional Metal-Organic Framework, Copper Benzenehexathiol. Physica Status Solidi (A) Applications and Materials Science, 2020, 217, 2000437.	1.8	16
15	Landau Levels of Topologically-Protected Surface States Probed by Dual-Gated Quantum Capacitance. ACS Nano, 2020, 14, 1158-1165.	14.6	14
16	Tunable electronic correlation effects in nanotube-light interactions. Physical Review B, 2015, 92, .	3.2	13
17	All-Optical structure assignment of individual single-walled carbon nanotubes from Rayleigh and Raman scattering measurements. Physica Status Solidi (B): Basic Research, 2012, 249, 2436-2441.	1.5	10
18	Universal interaction-driven gap in metallic carbon nanotubes. Physical Review B, 2018, 97, .	3.2	9

#	ARTICLE	IF	CITATIONS
19	Circular electromechanical resonators based on hexagonal-boron nitride-graphene heterostructures. Applied Physics Letters, 2020, 117, .	3.3	8
20	Band-Gap-Dependent Electronic Compressibility of Carbon Nanotubes in the Wigner Crystal Regime. Physical Review Letters, 2019, 123, 197701.	7.8	5
21	Quantum Interferences in Ultraclean Carbon Nanotubes. Physical Review Letters, 2021, 126, 216802.	7.8	3
22	Strong terahertz plasmonic resonances in thin-film Cd <sub>3</sub> As <sub>2</sub> : a three-dimensional Dirac semimetal. , 2018, , .		0
23	Van der Waals heterostructures based on three-dimensional topological insulators. Current Opinion in Solid State and Materials Science, 2021, 25, 100939.	11.5	0