Jyoti Katoch

List of Publications by Year in descending order

34 papers	2,481 citations	471509 17 h-index	434195 31 g-index
34 all docs	34 docs citations	34 times ranked	4832 citing authors

#	Article	IF	Citations
1	Hofstadterâ€™s butterfly and the fractal quantum Hall effect in moirÃ© superlattices. Nature, 2013, 497, 598-602.	27.8	1,404
2	Effects of Layer Stacking on the Combination Raman Modes in Graphene. ACS Nano, 2011, 5, 1594-1599.	14.6	189
3	Structure of a Peptide Adsorbed on Graphene and Graphite. Nano Letters, 2012, 12, 2342-2346.	9.1	134
4	Giant spin-splitting and gap renormalization driven by trions in single-layer WS2/h-BN heterostructures. Nature Physics, 2018, 14, 355-359.	16.7	83
5	Strong Modulation of Spin Currents in Bilayer Graphene by Static and Fluctuating Proximity Exchange Fields. Physical Review Letters, 2017, 118, 187201.	7.8	66
6	Spin inversion in graphene spin valves by gate-tunable magnetic proximity effect at one-dimensional contacts. Nature Communications, 2018, 9, 2869.	12.8	65
7	Spectroscopic evaluation of charge-transfer doping and strain in graphene/ <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>MoS</mml:mi><mml:mn>2</mml:mn></mml:msub></ heterostructures. Physical Review B, 2019, 99, .	3.2	63
8	Uncovering the dominant scatterer in graphene sheets on<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>SiO</mml:mtext></mml:mrow><mml:mn>2</mml:mn></mml:msu Physical Review B, 2010, 82, .	3.2	47
9	Large area epitaxial germanane for electronic devices. 2D Materials, 2015, 2, 035012.	4.4	47
10	Nanosecond spin relaxation times in single layer graphene spin valves with hexagonal boron nitride tunnel barriers. Applied Physics Letters, 2016, 109, 122411.	3.3	41
11	NaSn₂As₂: An Exfoliatable Layered van der Waals Zintl Phase. ACS Nano, 2016, 10, 9500-9508.	14.6	39
12	Direct observation of minibands in a twisted graphene/WS ₂ bilayer. Science Advances, 2020, 6, eaay6104.	10.3	39
13	Spatially Resolved Electronic Properties of Single-Layer WS₂ on Transition Metal Oxides. ACS Nano, 2016, 10, 10058-10067.	14.6	31
14	Multiphonon Raman scattering in graphene. Physical Review B, 2011, 84, .	3.2	29
15	Observation of Electrically Tunable van Hove Singularities in Twisted Bilayer Graphene from NanoARPES. Advanced Materials, 2020, 32, 2001656.	21.0	25
16	Strontium Oxide Tunnel Barriers for High Quality Spin Transport and Large Spin Accumulation in Graphene. Nano Letters, 2017, 17, 7578-7585.	9.1	20
17	Electronic structure of exfoliated and epitaxial hexagonal boron nitride. Physical Review Materials, 2018, 2, .	2.4	19
18	Low Bias Electron Scattering in Structure-Identified Single Wall Carbon Nanotubes: Role of Substrate Polar Phonons. Physical Review Letters, 2011, 107, 146601.	7.8	16

#	Article	IF	Citations
19	Imaging microscopic electronic contrasts at the interface of single-layer WS2 with oxide and boron nitride substrates. Applied Physics Letters, 2019, 114, 151601.	3.3	14
20	Momentum-resolved view of highly tunable many-body effects in a graphene/hBN field-effect device. Physical Review B, 2020, 101, .	3.2	13
21	Accessing the Spectral Function in a Current-Carrying Device. Physical Review Letters, 2020, 125, 236403.	7.8	12
22	Transport Spectroscopy of Sublattice-Resolved Resonant Scattering in Hydrogen-Doped Bilayer Graphene. Physical Review Letters, 2018, 121, 136801.	7.8	11
23	Impact of charge impurities on transport properties of graphene nanoribbons. Applied Physics Letters, 2013, 102, .	3.3	10
24	Growth of uniform CaGe 2 films by alternating layer molecular beam epitaxy. Journal of Crystal Growth, 2017, 460, 134-138.	1.5	10
25	Adatom-induced phenomena in graphene. Synthetic Metals, 2015, 210, 68-79.	3.9	9
26	Probing tunneling spin injection into graphene via bias dependence. Physical Review B, 2018, 98, .	3.2	9
27	Visualizing band structure hybridization and superlattice effects in twisted MoS₂/WS₂ heterobilayers. 2D Materials, 2022, 9, 015032.	4.4	9
28	Impact of calcium on transport property of graphene. Solid State Communications, 2012, 152, 60-63.	1.9	8
29	Uniform large-area growth of nanotemplated high-quality monolayer MoS2. Applied Physics Letters, 2017, 110, 263103.	3.3	8
30	In Operando Angleâ€Resolved Photoemission Spectroscopy with Nanoscale Spatial Resolution: Spatial Mapping of the Electronic Structure of Twisted Bilayer Graphene. Small Science, 2021, 1, 2000075.	9.9	8
31	Scattering strength of the scatterer inducing variability in graphene on silicon oxide. Journal of Physics Condensed Matter, 2016, 28, 115301.	1.8	3
32	Ultrahigh vacuum-compatible sockets for pin grid arrays used in nanoscale and atomic physics. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2013, 31, .	1.2	0
33	Focused Ion Beam Prepared Cross-Sectional Transmission Electron Microscopy Preparation On CaGe2 On Ge(111) Grown By Molecular Beam Epitaxy. Microscopy and Microanalysis, 2017, 23, 290-291.	0.4	0
34	Van Hove Singularities: Observation of Electrically Tunable van Hove Singularities in Twisted Bilayer Graphene from NanoARPES (Adv. Mater. 31/2020). Advanced Materials, 2020, 32, 2070230.	21.0	0