Marcin Mucha-Kruczynski

List of Publications by Year
in descending order

44 papers	2,711 citations	361413 20 h-index	289244 40 g-index
46 all docs	46 docs citations	46 times ranked	3561 citing authors

#	Article	IF	Citations
1	MoirÃ© Superlattice Effects and Band Structure Evolution in Near-30-Degree Twisted Bilayer Graphene. ACS Nano, 2022, 16, 1954-1962.	14.6	6
2	Using in-plane anisotropy to engineer Janus monolayers of rhenium dichalcogenides. Physical Review Materials, 2022, 6, .	2.4	0
3	Enhanced excitonic features in an anisotropic ReS₂/WSe₂ heterostructure. Nanoscale, 2022, 14, 10851-10861.	5.6	9
4	Interplay of crystal thickness and in-plane anisotropy and evolution of quasi-one-dimensional electronic character in ReSe2. Physical Review B, 2021, 104, .	3.2	5
5	Asymmetric excitation of left- and right-tail extreme events probed using a Hawkes model: Application to financial returns. Physical Review E, 2021, 104, 024112.	2.1	2
6	Determination of interatomic coupling between two-dimensional crystals using angle-resolved photoemission spectroscopy. Nature Communications, 2020, 11, 3582.	12.8	10
7	Electronic Raman Scattering in Twistronic Few-Layer Graphene. Physical Review Letters, 2020, 125, 197401.	7.8	10
8	Visualizing Orbital Content of Electronic Bands in Anisotropic 2D Semiconducting ReSe₂. ACS Nano, 2020, 14, 7880-7891.	14.6	19
9	Spectroscopic Signatures of Electronic Excitations in Raman Scattering in Thin Films of Rhombohedral Graphite. Nano Letters, 2019, 19, 6152-6156.	9.1	11
10	Valley-polarized tunneling currents in bilayer graphene tunneling transistors. Physical Review B, 2019, 99, .	3.2	8
11	Superconductivity-induced features in the electronic Raman spectrum of monolayer graphene. Physical Review B, 2018, 97, .	3.2	5
12	Large local lattice expansion in graphene adlayers grown on copper. Nature Materials, 2018, 17, 450-455.	27.5	13
13	Emergence of Interfacial Polarons from Electronâ€“Phonon Coupling in Graphene/h-BN van der Waals Heterostructures. Nano Letters, 2018, 18, 1082-1087.	9.1	55
14	Electronic Band Structure of Rhenium Dichalcogenides. Journal of Electronic Materials, 2018, 47, 4314-4320.	2.2	14
15	Negative Differential Resistance in van der Waals Heterostructures Due to MoirÃ©-Induced Spectral Reconstruction. Physical Review Applied, 2018, 10, .	3.8	4
16	MoirÃ© band model and band gaps of graphene on hexagonal boron nitride. Physical Review B, 2017, 96, .	3.2	68
17	Electronic bandstructure and van der Waals coupling of ReSe2 revealed by high-resolution angle-resolved photoemission spectroscopy. Scientific Reports, 2017, 7, 5145.	3.3	32
18	MoirÃ© miniband features in the angle-resolved photoemission spectra of graphene/hBNheterostructures. Physical Review B, 2016, 93, .	3.2	18

#	Article	IF	Citations
19	Controlled formation of isolated miniband in bilayer graphene on almost commensurate 3Ã—3 substrate. Physical Review B, 2016, 94, .	3.2	1
20	Zero-energy modes and valley asymmetry in the Hofstadter spectrum of bilayer graphene van der Waals heterostructures with hBN. Physical Review B, 2016, 94, .	3.2	6
21	MoirÃ© superlattice effects in graphene/boronâ€nitride van der Waals heterostructures. Annalen Der Physik, 2015, 527, 359-376.	2.4	73
22	Infrared absorption of closely aligned heterostructures of monolayer and bilayer graphene with hexagonal boron nitride. Physical Review B, 2015, 92, .	3.2	14
23	Tunable Fermi surface topology and Lifshitz transition in bilayer graphene. Synthetic Metals, 2015, 210, 19-31.	3.9	27
24	Dirac edges of fractal magnetic minibands in graphene with hexagonal moirÃ© superlattices. Physical Review B, 2014, 89, .	3.2	42
25	Strain-induced modifications of transport in gated graphene nanoribbons. Physical Review B, 2014, 90, .	3.2	13
26	Anomalous Sequence of Quantum Hall Liquids Revealing a Tunable Lifshitz Transition in Bilayer Graphene. Physical Review Letters, 2014, 113, 116602.	7.8	69
27	Heterostructures of bilayer graphene and<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>h</mml:mi></mml:math>-BN: Interplay between misalignment, interlayer asymmetry, and trigonal warping. Physical Review B, 2013, 88, .	3.2	47
28	MoirÃ© minibands in graphene heterostructures with almost commensurate3Ã—3hexagonal crystals. Physical Review B, 2013, 88, .	3.2	30
29	Generic miniband structure of graphene on a hexagonal substrate. Physical Review B, 2013, 87, .	3.2	259
30	Infrared absorption by grapheneâ€“hBN heterostructures. New Journal of Physics, 2013, 15, 123009.	2.9	32
31	Transport Signatures of Pseudomagnetic Landau Levels in Strained Graphene Ribbons. Physical Review Letters, 2013, 110, 266801.	7.8	32
32	Cloning of Dirac fermions in graphene superlattices. Nature, 2013, 497, 594-597.	27.8	1,107
33	The Tight-Binding Approach and the Resulting Electronic Structure. Springer Theses, 2013, , 9-21.	0.1	0
34	Angle-Resolved Photoemission Spectroscopy. Springer Theses, 2013, , 23-38.	0.1	0
35	Electronic Raman Spectroscopy. Springer Theses, 2013, , 63-75.	0.1	0
36	Pseudo-magnetic field distribution and pseudo-Landau levels in suspended graphene flakes. Solid State Communications, 2012, 152, 1442-1445.	1.9	16

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37	Interaction-Driven Spectrum Reconstruction in Bilayer Graphene. Science, 2011, 333, 860-863.	12.6	262
38	Strained bilayer graphene: Band structure topology and Landau level spectrum. Physical Review B, 2011, 84, .	3.2	99
39	Landau levels in deformed bilayer graphene at low magnetic fields. Solid State Communications, 2011, 151, 1088-1093.	1.9	13
40	Electronâ€"hole asymmetry and energy gaps in bilayer graphene. Semiconductor Science and Technology, 2010, 25, 033001.	2.0	61
41	Spectral features due to inter-Landau-level transitions in the Raman spectrum of bilayer graphene. Physical Review B, 2010, 82, .	3.2	28
42	On spectral properties of bilayer graphene: the effect of an SiC substrate and infrared magneto-spectroscopy. Journal of Physics Condensed Matter, 2009, 21, 344206.	1.8	24
43	The influence of interlayer asymmetry on the magnetospectroscopy of bilayer graphene. Solid State Communications, 2009, 149, 1111-1116.	1.9	28
44	Characterization of graphene through anisotropy of constant-energy maps in angle-resolved photoemission. Physical Review B, 2008, 77, .	3.2	139