Marcin Mucha-Kruczynski

List of Publications by Year
in descending order

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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	Cloning of Dirac fermions in graphene superlattices. Nature, 2013, 497, 594-597.	27.8	1,107
2	Interaction-Driven Spectrum Reconstruction in Bilayer Graphene. Science, 2011, 333, 860-863.	12.6	262
3	Generic miniband structure of graphene on a hexagonal substrate. Physical Review B, 2013, 87, .	3.2	259
4	Characterization of graphene through anisotropy of constant-energy maps in angle-resolved photoemission. Physical Review B, 2008, 77, .	3.2	139
5	Strained bilayer graphene: Band structure topology and Landau level spectrum. Physical Review B, 2011, 84, .	3.2	99
6	MoirÃ© superlattice effects in graphene/boronâ€•nitride van der Waals heterostructures. Annalen Der Physik, 2015, 527, 359-376.	2.4	73
7	Anomalous Sequence of Quantum Hall Liquids Revealing a Tunable Lifshitz Transition in Bilayer Graphene. Physical Review Letters, 2014, 113, 116602.	7.8	69
8	MoirÃ© band model and band gaps of graphene on hexagonal boron nitride. Physical Review B, 2017, 96, .	3.2	68
9	Electronâ€“hole asymmetry and energy gaps in bilayer graphene. Semiconductor Science and Technology, 2010, 25, 033001.	2.0	61
10	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
11	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
12	Dirac edges of fractal magnetic minibands in graphene with hexagonal moirÃ© superlattices. Physical Review B, 2014, 89, .	3.2	42
13	Infrared absorption by grapheneâ€“hBN heterostructures. New Journal of Physics, 2013, 15, 123009.	2.9	32
14	Transport Signatures of Pseudomagnetic Landau Levels in Strained Graphene Ribbons. Physical Review Letters, 2013, 110, 266801.	7.8	32
15	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
16	MoirÃ© minibands in graphene heterostructures with almost commensurate3Ã—3hexagonal crystals. Physical Review B, 2013, 88, .	3.2	30
17	The influence of interlayer asymmetry on the magnetospectroscopy of bilayer graphene. Solid State Communications, 2009, 149, 1111-1116.	1.9	28
18	Spectral features due to inter-Landau-level transitions in the Raman spectrum of bilayer graphene. Physical Review B, 2010, 82, .	3.2	28

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19	Tunable Fermi surface topology and Lifshitz transition in bilayer graphene. Synthetic Metals, 2015, 210, 19-31.	3.9	27
20	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
21	Visualizing Orbital Content of Electronic Bands in Anisotropic 2D Semiconducting ReSe₂. ACS Nano, 2020, 14, 7880-7891.	14.6	19
22	MoirÃ© miniband features in the angle-resolved photoemission spectra of graphene/hBNheterostructures. Physical Review B, 2016, 93, .	3.2	18
23	Pseudo-magnetic field distribution and pseudo-Landau levels in suspended graphene flakes. Solid State Communications, 2012, 152, 1442-1445.	1.9	16
24	Infrared absorption of closely aligned heterostructures of monolayer and bilayer graphene with hexagonal boron nitride. Physical Review B, 2015, 92, .	3.2	14
25	Electronic Band Structure of Rhenium Dichalcogenides. Journal of Electronic Materials, 2018, 47, 4314-4320.	2.2	14
26	Landau levels in deformed bilayer graphene at low magnetic fields. Solid State Communications, 2011, 151, 1088-1093.	1.9	13
27	Strain-induced modifications of transport in gated graphene nanoribbons. Physical Review B, 2014, 90, .	3.2	13
28	Large local lattice expansion in graphene adlayers grown on copper. Nature Materials, 2018, 17, 450-455.	27.5	13
29	Spectroscopic Signatures of Electronic Excitations in Raman Scattering in Thin Films of Rhombohedral Graphite. Nano Letters, 2019, 19, 6152-6156.	9.1	11
30	Determination of interatomic coupling between two-dimensional crystals using angle-resolved photoemission spectroscopy. Nature Communications, 2020, 11, 3582.	12.8	10
31	Electronic Raman Scattering in Twistronic Few-Layer Graphene. Physical Review Letters, 2020, 125, 197401.	7.8	10
32	Enhanced excitonic features in an anisotropic ReS₂/WSe₂ heterostructure. Nanoscale, 2022, 14, 10851-10861.	5.6	9
33	Valley-polarized tunneling currents in bilayer graphene tunneling transistors. Physical Review B, 2019, 99, .	3.2	8
34	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
35	MoirÃ© Superlattice Effects and Band Structure Evolution in Near-30-Degree Twisted Bilayer Graphene. ACS Nano, 2022, 16, 1954-1962.	14.6	6
36	Superconductivity-induced features in the electronic Raman spectrum of monolayer graphene. Physical Review B, 2018, 97, .	3.2	5

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37	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
38	Negative Differential Resistance in van der Waals Heterostructures Due to MoirÃ©-Induced Spectral Reconstruction. Physical Review Applied, 2018, 10, .	3.8	4
39	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
40	Controlled formation of isolated miniband in bilayer graphene on almost commensurate 3Ã—3 substrate. Physical Review B, 2016, 94, .	3.2	1
41	The Tight-Binding Approach and the Resulting Electronic Structure. Springer Theses, 2013, , 9-21.	0.1	0
42	Angle-Resolved Photoemission Spectroscopy. Springer Theses, 2013, , 23-38.	0.1	0
43	Electronic Raman Spectroscopy. Springer Theses, 2013, , 63-75.	0.1	0
44	Using in-plane anisotropy to engineer Janus monolayers of rhenium dichalcogenides. Physical Review Materials, 2022, 6, .	2.4	0