Peter Rickhaus

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/9014022/publications.pdf

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34 papers	1,508 citations	331259 21 h-index	377514 34 g-index
34 all docs	34 docs citations	34 times ranked	1724 citing authors

#	Article	IF	Citations
1	Ballistic interferences in suspended graphene. Nature Communications, 2013, 4, 2342.	5.8	185
2	Transport Through a Network of Topological Channels in Twisted Bilayer Graphene. Nano Letters, 2018, 18, 6725-6730.	4.5	109
3	Quantum Hall Effect in Graphene with Superconducting Electrodes. Nano Letters, 2012, 12, 1942-1945.	4.5	99
4	Snake trajectories in ultraclean graphene pâ€“n junctions. Nature Communications, 2015, 6, 6470.	5.8	93
5	Electrostatically Induced Quantum Point Contacts in Bilayer Graphene. Nano Letters, 2018, 18, 553-559.	4.5	83
6	Spin and Valley States in Gate-Defined Bilayer Graphene Quantum Dots. Physical Review X, 2018, 8, .	2.8	83
7	Interactions and Magnetotransport through Spin-Valley Coupled Landau Levels in Monolayer <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>MoS</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math>. Physical Review Letters, 2018, 121, 247701.	2.9	80
8	Scalable Tight-Binding Model for Graphene. Physical Review Letters, 2015, 114, 036601.	2.9	74
9	Guiding of Electrons in a Few-Mode Ballistic Graphene Channel. Nano Letters, 2015, 15, 5819-5825.	4.5	64
10	Coupled Quantum Dots in Bilayer Graphene. Nano Letters, 2018, 18, 5042-5048.	4.5	64
11	Gate-defined Josephson junctions in magic-angle twisted bilayer graphene. Nature Nanotechnology, 2021, 16, 760-763.	15.6	51
12	Tunable Valley Splitting due to Topological Orbital Magnetic Moment in Bilayer Graphene Quantum Point Contacts. Physical Review Letters, 2020, 124, 126802.	2.9	46
13	Charge Detection in Gate-Defined Bilayer Graphene Quantum Dots. Nano Letters, 2019, 19, 5216-5221.	4.5	45
14	Gate tuneable beamsplitter in ballistic graphene. Applied Physics Letters, 2015, 107, .	1.5	44
15	Correlated electron-hole state in twisted double-bilayer graphene. Science, 2021, 373, 1257-1260.	6.0	41
16	Topologically Nontrivial Valley States in Bilayer Graphene Quantum Point Contacts. Physical Review Letters, 2018, 121, 257702.	2.9	39
17	Gap Opening in Twisted Double Bilayer Graphene by Crystal Fields. Nano Letters, 2019, 19, 8821-8828.	4.5	39
18	The electronic thickness of graphene. Science Advances, 2020, 6, eaay8409.	4.7	35

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19	GHz nanomechanical resonator in an ultraclean suspended graphene pâ€“n junction. Nanoscale, 2019, 11, 4355-4361.	2.8	34
20	Fabry-PÃ©rot Resonances in a Graphene/hBN MoirÃ© Superlattice. Nano Letters, 2017, 17, 328-333.	4.5	32
21	Microwave Photodetection in an Ultraclean Suspended Bilayer Graphene pâ€“n Junction. Nano Letters, 2016, 16, 6988-6993.	4.5	26
22	Fabrication of ballistic suspended graphene with local-gating. Carbon, 2014, 79, 486-492.	5.4	21
23	Giant Valley-Isospin Conductance Oscillations in Ballistic Graphene. Nano Letters, 2017, 17, 5389-5393.	4.5	20
24	Tailoring the Band Structure of Twisted Double Bilayer Graphene with Pressure. Nano Letters, 2021, 21, 8777-8784.	4.5	19
25	Fully Automated Identification of Two-Dimensional Material Samples. Physical Review Applied, 2020, 13, .	1.5	16
26	Combined Minivalley and Layer Control in Twisted Double Bilayer Graphene. Physical Review Letters, 2020, 125, 176801.	2.9	15
27	Scattering between Minivalleys in Twisted Double Bilayer Graphene. Physical Review Letters, 2022, 128, 057702.	2.9	11
28	Signatures of single quantum dots in graphene nanoribbons within the quantum Hall regime. Nanoscale, 2016, 8, 11480-11486.	2.8	10
29	Gate-controlled conductance enhancement from quantum Hall channels along graphene pâ€“n junctions. Nanoscale, 2016, 8, 19910-19916.	2.8	10
30	Electron transport in dual-gated three-layer <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Mo</mml:mi><mml:msub><mml:mi mathvariant="normal">S</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review Research, 2021, 3, .	1.3	7
31	Coulomb dominated cavities in bilayer graphene. Physical Review Research, 2020, 2, .	1.3	5
32	Edge channel confinement in a bilayer graphenenâ€“pâ€“nquantum dot. New Journal of Physics, 2018, 20, 013013.	1.2	4
33	Fabryâ€“PÃ©rot cavities and quantum dot formation at gate-defined interfaces in twisted double bilayer graphene. 2D Materials, 2022, 9, 014003.	2.0	2
34	Quantum capacitive coupling between large-angle twisted graphene layers. 2D Materials, 2022, 9, 025013.	2.0	2