

Ming-Hao Liu

List of Publications by Year in descending order

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54
papers

1,704
citations

361413
20
h-index

276875
41
g-index

54
all docs

54
docs citations

54
times ranked

1866
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantum capacitive coupling between large-angle twisted graphene layers. 2D Materials, 2022, 9, 025013.	4.4	2
2	Manipulating electron waves in graphene using carbon nanotube gating. Physical Review B, 2022, 105, .	3.2	4
3	Dirac fermion optics and directed emission from single- and bilayer graphene cavities. Physical Review B, 2021, 104, .	3.2	9
4	Gate-Tunable Two-Dimensional Superlattices in Graphene. Nano Letters, 2020, 20, 8046-8052.	9.1	27
5	Unconventional ferroelectricity in moiré heterostructures. Nature, 2020, 588, 71-76.	27.8	165
6	Anomalous Cyclotron Motion in Graphene Superlattice Cavities. Physical Review Letters, 2020, 125, 217701.	7.8	11
7	Cloning of zero modes in one-dimensional graphene superlattices. Physical Review B, 2020, 102, .	3.2	5
8	Electrostatic superlattices on scaled graphene lattices. Communications Physics, 2020, 3, .	5.3	18
9	The electronic thickness of graphene. Science Advances, 2020, 6, eaay8409.	10.3	35
10	Valley splitter and transverse valley focusing in twisted bilayer graphene. Physical Review Research, 2020, 2, .	3.6	6
11	Characterization of hydrogen plasma defined graphene edges. Carbon, 2019, 150, 417-424.	10.3	7
12	New Generation of Moiré Superlattices in Doubly Aligned hBN/Graphene/hBN Heterostructures. Nano Letters, 2019, 19, 2371-2376.	9.1	85
13	Tuning Anti-Klein to Klein Tunneling in Bilayer Graphene. Physical Review Letters, 2018, 121, 127706.	7.8	39
14	Transport Through a Network of Topological Channels in Twisted Bilayer Graphene. Nano Letters, 2018, 18, 6725-6730.	9.1	109
15	Coexistence of classical snake states and Aharonov-Bohm oscillations along graphene μ junctions. Physical Review B, 2018, 98, .		
16	Commensurability Oscillations in One-Dimensional Graphene Superlattices. Physical Review Letters, 2018, 121, 026806.	7.8	24
17	Creating and Steering Highly Directional Electron Beams in Graphene. Physical Review Letters, 2017, 118, 066801.	7.8	54
18	Oscillating Magnetoresistance in Graphene μ Junctions at Intermediate Magnetic Fields. Nano Letters, 2017, 17, 2852-2857.	9.1	9

#	ARTICLE	IF	CITATIONS
19	Fabry-Pérot Resonances in a Graphene/hBN Moiré Superlattice. Nano Letters, 2017, 17, 328-333.	9.1	32
20	Giant Valley-Isospin Conductance Oscillations in Ballistic Graphene. Nano Letters, 2017, 17, 5389-5393.	9.1	20
21	Band gap and broken chirality in single-layer and bilayer graphene. Physica Status Solidi - Rapid Research Letters, 2016, 10, 46-57.	2.4	19
22	Terahertz ratchet effects in graphene with a lateral superlattice. Physical Review B, 2016, 93, .	3.2	77
23	Gate-controlled conductance enhancement from quantum Hall channels along graphene p-n junctions. Nanoscale, 2016, 8, 19910-19916.	5.6	10
24	Gate tuneable beamsplitter in ballistic graphene. Applied Physics Letters, 2015, 107, .	3.3	44
25	Scalable Tight-Binding Model for Graphene. Physical Review Letters, 2015, 114, 036601.	7.8	74
26	Snake trajectories in ultraclean graphene p-n junctions. Nature Communications, 2015, 6, 6470.	12.8	93
27	Guiding of Electrons in a Few-Mode Ballistic Graphene Channel. Nano Letters, 2015, 15, 5819-5825.	9.1	64
28	Towards superlattices: Lateral bipolar multibarriers in graphene. Physical Review B, 2014, 89, .	3.2	26
29	Fabry-Pérot Interference in Gapped Bilayer Graphene with Broken Anti-Klein Tunneling. Physical Review Letters, 2014, 113, 116601.	7.8	81
30	Gate-induced carrier density modulation in bulk graphene: theories and electrostatic simulation using Matlab pdeTool. Journal of Computational Electronics, 2013, 12, 188-202.	2.5	4
31	Ballistic interferences in suspended graphene. Nature Communications, 2013, 4, 2342.	12.8	185
32	Spin conductance of diffusive graphene nanoribbons: A probe of zigzag edge magnetization. Physical Review B, 2013, 88, .	3.2	11
33	Theory of carrier density in multigated doped graphene sheets with quantum correction. Physical Review B, 2013, 87, .	3.2	21
34	Edge state effects in junctions with graphene electrodes. Physical Review B, 2012, 86, .	3.2	20
35	Spin-dependent Klein tunneling in graphene: Role of Rashba spin-orbit coupling. Physical Review B, 2012, 85, .	3.2	64
36	Efficient quantum transport simulation for bulk graphene heterojunctions. Physical Review B, 2012, 86, .	3.2	20

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37	Spin and charge transport in U-shaped one-dimensional channels with spin-orbit couplings. <i>Physical Review B</i> , 2011, 84, .	3.2	13
38	Mirror symmetry and exchange of magnetic impurities mediated by electrons of Rashba spin-orbit interaction in a four-terminal Landauer setup. <i>Journal Physics D: Applied Physics</i> , 2010, 43, 015003.	2.8	6
39	Spin transport in a tubular two-dimensional electron gas with Rashba spin-orbit coupling. <i>Journal of Applied Physics</i> , 2010, 108, 033715.	2.5	6
40	Anomalous spin Hall effects in Dresselhaus (110) quantum wells. <i>Physical Review B</i> , 2010, 82, .	3.2	11
41	Upstanding Rashba spin in honeycomb lattices: Electrically reversible surface spin polarization. <i>Physical Review B</i> , 2009, 80, .	3.2	17
42	Nonequilibrium spin transport on Au(111) surfaces. <i>Physical Review B</i> , 2008, 78, .	3.2	11
43	Current-induced spin polarization in spin-orbit-coupled electron systems. <i>Physical Review B</i> , 2008, 78, .	3.2	19
44	Spin accumulation oscillation and current vortex in the Landauer setup with locally applied biases. <i>Journal of Applied Physics</i> , 2008, 103, 07B721.	2.5	4
45	Broken spin-Hall accumulation symmetry by magnetic field and coexisted Rashba and Dresselhaus interactions. <i>Journal of Applied Physics</i> , 2007, 101, 09D513.	2.5	2
46	Intrinsic spin-Hall accumulation in honeycomb lattices: Band structure effects. <i>Physical Review B</i> , 2007, 76, .	3.2	14
47	Local spin density in a two-dimensional electron gas with a hexagonal boundary. <i>Physical Review B</i> , 2007, 76, .	3.2	4
48	Bipolar Spin Switch Using Aharonov-Bohm Ring With Embedded Double Quantum Dots. <i>IEEE Transactions on Magnetics</i> , 2007, 43, 2866-2868.	2.1	1
49	Rashba Spin Interferometer. <i>IEEE Transactions on Magnetics</i> , 2007, 43, 2869-2871.	2.1	3
50	Datta-Das transistor: Significance of channel direction, size dependence of source contacts, and boundary effects. <i>Physical Review B</i> , 2006, 73, .	3.2	13
51	Nonuniform Rashba-Dresselhaus spin precession along arbitrary paths. <i>Physical Review B</i> , 2006, 74, .	3.2	16
52	Precessionless spin transport wire confined in quasi-two-dimensional electron systems. <i>Journal of Applied Physics</i> , 2006, 99, 08H707.	2.5	1
53	Persistent spin helix in Rashba-Dresselhaus two-dimensional electron systems. <i>Physical Review B</i> , 2006, 74, .	3.2	49
54	Spin precession due to spin-orbit coupling in a two-dimensional electron gas with spin injection via ideal quantum point contact. <i>Physical Review B</i> , 2005, 71, .	3.2	20