Yafei Ren

List of Publications by Year
in descending order

30 papers	1,378 citations	516215 16 h-index	454577 30 g-index
30 all docs	30 docs citations	30 times ranked	1939 citing authors

#	Article	IF	Citations
1	Topological phases in two-dimensional materials: a review. Reports on Progress in Physics, 2016, 79, 066501.	8.1	385
2	Three-dimensional quantum Hall effect and metalâ€“insulator transition in ZrTe5. Nature, 2019, 569, 537-541.	13.7	205
3	Gate-controlled topological conducting channels in bilayer graphene. Nature Nanotechnology, 2016, 11, 1060-1065.	15.6	188
4	Engineering Corner States from Two-Dimensional Topological Insulators. Physical Review Letters, 2020, 124, 166804.	2.9	90
5	Current Partition at Topological Channel Intersections. Physical Review Letters, 2014, 112, .	2.9	66
6	Single-valley engineering in graphene superlattices. Physical Review B, 2015, 91, .	1.1	57
7	The positive piezoconductive effect in graphene. Nature Communications, 2015, 6, 8119.	5.8	43
8	Quantum anomalous Hall effect in atomic crystal layers from in-plane magnetization. Physical Review B, 2016, 94, .	1.1	40
9	Approaching three-dimensional quantum Hall effect in bulk <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>HfT</mml:mi><mml:msub><mml:mi mathvariant="normal">e</mml:mi><mml:mn>5</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2020, 101, .	1.1	29
10	Adiabatically induced orbital magnetization. Physical Review B, 2021, 103, .	1.1	28
11	In-plane magnetization-induced quantum anomalous Hall effect in atomic crystals of group-V elements. Physical Review B, 2017, 96, .	1.1	25
12	Phonon Magnetic Moment from Electronic Topological Magnetization. Physical Review Letters, 2021, 127, 186403.	2.9	25
13	Gate-tunable current partition in graphene-based topological zero lines. Physical Review B, 2017, 95, .	1.1	21
14	Tunable current partition at zero-line intersection of quantum anomalous Hall topologies. Physical Review B, 2017, 96, .	1.1	20
15	Van der Waals heterostructure <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow><mml:mi>Pt</mml:mi></mml:mrow><mml:mn>2</mml:mn> for topological valleytronics. Physical Review B, 2021, 104, .	1.1	20
16	WKB Estimate of Bilayer Grapheneâ€™s Magic Twist Angles. Physical Review Letters, 2021, 126, 016404.	2.9	20
17	Transmission spectra and valley processing of graphene and carbon nanotube superlattices with inter-valley coupling. New Journal of Physics, 2016, 18, 113011.	1.2	18
18	Metallic network of topological domain walls. Physical Review B, 2020, 101, .	1.1	16

#	Article	IF	Citations
19	Valley current splitter in minimally twisted bilayer graphene. Physical Review B, 2020, 102, .	1.1	14
20	Spin-pairing correlations and spin polarization of Majorana bound states in two-dimensional topological-insulator systems. Physical Review B, 2017, 96, .	1.1	11
21	Enhanced robustness of zero-line modes in graphene via magnetic field. Frontiers of Physics, 2019, 14, 1.	2.4	11
22	Lattice dynamics with molecular Berry curvature: Chiral optical phonons. Physical Review B, 2022, 105, .	1.1	10
23	Quantum anomalous Hall phase stabilized via realistic interactions on a kagome lattice. Physical Review B, 2018, 98, .	1.1	9
24	Transport induced dimer state from topological corner states. Science China: Physics, Mechanics and Astronomy, 2021, 64, 1.	2.0	7
25	Mesoscopic electronic transport in twisted bilayer graphene. Physical Review B, 2020, 101, .	1.1	5
26	Orbital Chern Insulator and Quantum Phase Diagram of a Kagome Electron System with Half-Filled Flat Bands. Physical Review Letters, 2021, 126, 117602.	2.9	4
27	Topological phase transition from trigonal warping in van der Waals multilayers. Physical Review B, 2017, 95, .	1.1	4
28	Energy spectra of three electrons in SiGe/Si/SiGe laterally coupled triple quantum dots. Physica E: Low-Dimensional Systems and Nanostructures, 2014, 63, 329-336.	1.3	3
29	In-plane magnetization and electronic structures in BiFeO3/graphene superlattice. Applied Physics Letters, 2022, 120, .	1.5	3
30	DC current generation and power feature in strongly driven Floquet-Bloch systems. Physical Review Research, 2022, 4, .	1.3	1