

Yafei Ren

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

1,378
citations

516215

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454577

30
g-index

30
all docs

30
docs citations

30
times ranked

1939
citing authors

#	ARTICLE	IF	CITATIONS
1	Lattice dynamics with molecular Berry curvature: Chiral optical phonons. Physical Review B, 2022, 105, .	1.1	10
2	In-plane magnetization and electronic structures in BiFeO ₃ /graphene superlattice. Applied Physics Letters, 2022, 120, .	1.5	3
3	DC current generation and power feature in strongly driven Floquet-Bloch systems. Physical Review Research, 2022, 4, .	1.3	1
4	Adiabatically induced orbital magnetization. Physical Review B, 2021, 103, .	1.1	28
5	Transport induced dimer state from topological corner states. Science China: Physics, Mechanics and Astronomy, 2021, 64, 1.	2.0	7
6	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
7	Van der Waals heterostructure $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \text{Pt} \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle$ for topological valleytronics. Physical Review B, 2021, 104, .	1.1	20
8	WKB Estimate of Bilayer Graphene's Magic Twist Angles. Physical Review Letters, 2021, 126, 016404.	2.9	20
9	Phonon Magnetic Moment from Electronic Topological Magnetization. Physical Review Letters, 2021, 127, 186403.	2.9	25
10	Valley current splitter in minimally twisted bilayer graphene. Physical Review B, 2020, 102, .	1.1	14
11	Metallic network of topological domain walls. Physical Review B, 2020, 101, .	1.1	16
12	Mesoscopic electronic transport in twisted bilayer graphene. Physical Review B, 2020, 101, .	1.1	5
13	Engineering Corner States from Two-Dimensional Topological Insulators. Physical Review Letters, 2020, 124, 166804.	2.9	90
14	Approaching three-dimensional quantum Hall effect in bulk $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \text{HfT} \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:mathvariant="normal"} \rangle \text{e} \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 5 \langle \text{mml:mn} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$. Physical Review B, 2020, 101, .	1.1	29
15	Three-dimensional quantum Hall effect and metal-insulator transition in ZrTe ₅ . Nature, 2019, 569, 537-541.	13.7	205
16	Enhanced robustness of zero-line modes in graphene via magnetic field. Frontiers of Physics, 2019, 14, 1.	2.4	11
17	Quantum anomalous Hall phase stabilized via realistic interactions on a kagome lattice. Physical Review B, 2018, 98, .	1.1	9
18	Gate-tunable current partition in graphene-based topological zero lines. Physical Review B, 2017, 95, .	1.1	21

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19	Spin-pairing correlations and spin polarization of Majorana bound states in two-dimensional topological-insulator systems. <i>Physical Review B</i> , 2017, 96, .	1.1	11
20	In-plane magnetization-induced quantum anomalous Hall effect in atomic crystals of group-V elements. <i>Physical Review B</i> , 2017, 96, .	1.1	25
21	Tunable current partition at zero-line intersection of quantum anomalous Hall topologies. <i>Physical Review B</i> , 2017, 96, .	1.1	20
22	Topological phase transition from trigonal warping in van der Waals multilayers. <i>Physical Review B</i> , 2017, 95, .	1.1	4
23	Transmission spectra and valley processing of graphene and carbon nanotube superlattices with inter-valley coupling. <i>New Journal of Physics</i> , 2016, 18, 113011.	1.2	18
24	Topological phases in two-dimensional materials: a review. <i>Reports on Progress in Physics</i> , 2016, 79, 066501.	8.1	385
25	Gate-controlled topological conducting channels in bilayer graphene. <i>Nature Nanotechnology</i> , 2016, 11, 1060-1065.	15.6	188
26	Quantum anomalous Hall effect in atomic crystal layers from in-plane magnetization. <i>Physical Review B</i> , 2016, 94, .	1.1	40
27	Single-valley engineering in graphene superlattices. <i>Physical Review B</i> , 2015, 91, .	1.1	57
28	The positive piezoconductive effect in graphene. <i>Nature Communications</i> , 2015, 6, 8119.	5.8	43
29	Energy spectra of three electrons in SiGe/Si/SiGe laterally coupled triple quantum dots. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2014, 63, 329-336.	1.3	3
30	Current Partition at Topological Channel Intersections. <i>Physical Review Letters</i> , 2014, 112, .	2.9	66