Wei Chen

List of Publications by Year
in descending order

35 papers	550 citations	840776 11 h-index	642732 23 g-index
35 all docs	35 docs citations	35 times ranked	662 citing authors

#	Article	IF	Citations
1	Topological semimetals with a double-helix nodal link. Physical Review B, 2017, 96, .	3.2	157
2	Specular Andreev reflection in inversion-symmetric Weyl semimetals. Europhysics Letters, 2013, 103, 27006.	2.0	52
3	Weak Localization and Antilocalization in Nodal-Line Semimetals: Dimensionality and Topological Effects. Physical Review Letters, 2019, 122, 196603.	7.8	48
4	Proposal for Detecting Nodal-Line Semimetal Surface States with Resonant Spin-Flipped Reflection. Physical Review Letters, 2018, 121, 166802.	7.8	37
5	Resonant nonlocal Andreev reflection in a narrow quantum spin Hall system. Physical Review B, 2011, 84, .	3.2	30
6	Electron Entanglement Detected by Quantum Spin Hall Systems. Physical Review Letters, 2012, 109, 036802.	7.8	30
7	Interaction-Driven Surface Chern Insulator in Nodal Line Semimetals. Physical Review Letters, 2019, 122, 016803.	7.8	21
8	Hidden symmetry and protection of Dirac points on the honeycomb lattice. Scientific Reports, 2015, 5, 17571.	3.3	15
9	Long-range Cooper pair splitter with high entanglement production rate. Scientific Reports, 2015, 5, 7607.	3.3	14
10	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>Ï€</mml:mi></mml:mrow></mml:math>Spin Berry Phase in a Quantum-Spin-Hall-Insulator-Based Interferometer: Evidence for the Helical Spin Texture of the Edge States. Physical Review Letters, 2016, 117, 076802.	7.8	13
11	Weyl semimetals in optical lattices: moving and merging of Weyl points, and hidden symmetry at Weyl points. Scientific Reports, 2016, 6, 33512.	3.3	11
12	Hidden antiunitary symmetry behind â€œaccidentalâ€•degeneracy and its protection of degeneracy. Frontiers of Physics, 2018, 13, 1.	5.0	10
13	Electron-Hole Interference in an Inverted-Band Semiconductor Bilayer. Physical Review X, 2020, 10, .	8.9	10
14	Probing the valley filtering effect by Andreev reflection in a zigzag graphene nanoribbon with a ballistic point contact. Physical Review B, 2017, 96, .	3.2	9
15	Anomalous Andreev reflection on a torus-shaped Fermi surface. Science China: Physics, Mechanics and Astronomy, 2021, 64, 1.	5.1	8
16	Quantitatively probing two-electron entanglement with a spintronic quantum eraser. Physical Review B, 2013, 87, .	3.2	7
17	Detection of Fermi arcs in Weyl semimetals through surface negative refraction. Physical Review B, 2020, 101, .	3.2	7
18	Andreev reflection in Fermi-arc surface states of Weyl semimetals. Physical Review B, 2021, 104, .	3.2	7

#	Article	IF	Citations
19	Aharonov-Bohm effect in three-dimensional higher-order topological insulators. Physical Review B, 2021, 104, .	3.2	7
20	Engineering chiral edge states in two-dimensional topological insulator/ferromagnetic insulator heterostructures. Physical Review B, 2019, 99, .	3.2	6
21	Field-effect transistor based on surface negative refraction in Weyl nanowire. APL Materials, 2020, 8, .	5.1	6
22	Detecting Fuldeâ€“Ferrell superconductors by an Andreev interferometer. New Journal of Physics, 2014, 16, 083024.	2.9	5
23	All-electrically reading out and initializing topological qubits with quantum dots. Chinese Physics B, 2014, 23, 030309.	1.4	5
24	Impurity-induced resonant states in topological nodal-line semimetals. Physical Review B, 2019, 100, .	3.2	5
25	Quantum transport in topological nodal-line semimetals. Advances in Physics: X, 2022, 7, .	4.1	5
26	Hidden-symmetry-protected quantum pseudoâ€“spin Hall effect in optical lattices. Physical Review A, 2016, 93, .	2.5	4
27	Hidden symmetry-protected Z2 topological insulator in a cubic lattice. Physical Review B, 2017, 96, .	3.2	4
28	Sign reversal of magnetoresistivity in massive nodal-line semimetals due to the Lifshitz transition of the Fermi surface. Physical Review B, 2021, 104, .	3.2	4
29	Probing spin entanglement by gate-voltage-controlled interference of current correlation in quantum spin Hall insulators. Physics Letters, Section A: General, Atomic and Solid State Physics, 2014, 378, 1893-1896.	2.1	3
30	Theoretical study of the three-dimensional quantum Hall effect in a periodic electron system. Physical Review B, 2021, 104, .	3.2	3
31	Quantum computing through electron propagation in edge states of quantum spin Hall systems. European Physical Journal B, 2014, 87, 1.	1.5	2
32	Conductance oscillation in surface junctions of Weyl semimetals. Physical Review B, 2021, 104, .	3.2	2
33	Random-Gate-Voltage Induced Alâ€™tshulerâ€“Aronovâ€“Spivak Effect in Topological Edge States. Chinese Physics Letters, 2021, 38, 110302.	3.3	2
34	Universal anyons at the irradiated surface of topological insulator. Scientific Reports, 2016, 6, 20075.	3.3	1
35	Fractional fermions induced by spatially varying Zeeman fields. Physics Letters, Section A: General, Atomic and Solid State Physics, 2016, 380, 783-788.	2.1	0