

QuanSheng Wu

List of Publications by Year in descending order

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Version: 2024-02-01

60
papers

8,317
citations

159585

30
h-index

133252

59
g-index

61
all docs

61
docs citations

61
times ranked

6995
citing authors

#	ARTICLE	IF	CITATIONS
1	Giant Chern number of a Weyl nodal surface without upper limit. Physical Review B, 2022, 105, .	3.2	4
2	Phase transition of layer-stacked borophene under pressure. Physical Review B, 2022, 105, .	3.2	5
3	Irvsp: To obtain irreducible representations of electronic states in the VASP. Computer Physics Communications, 2021, 261, 107760.	7.5	151
4	Landau Levels as a Probe for Band Topology in Graphene Moiré Superlattices. Physical Review Letters, 2021, 126, 056401.	7.8	18
5	Crystal Field Effect and Electric Field Screening in Multilayer Graphene with and without Twist. Nano Letters, 2021, 21, 4636-4642.	9.1	5
6	Observation of a singular Weyl point surrounded by charged nodal walls in PtGa. Nature Communications, 2021, 12, 3994.	12.8	15
7	Extremely large magnetoresistance in the "ordinary" metal ReO_3 . Physical Review B, 2021, 104, .	3.2	16
8	Transport signatures of temperature-induced chemical potential shift and Lifshitz transition in layered type-II Weyl semimetal TaIrTe_4 . 2D Materials, 2021, 8, 015020.	4.4	8
9	Temperature dependence of quantum oscillations from non-parabolic dispersions. Nature Communications, 2021, 12, 6213.	12.8	14
10	Large magnetoresistance and nonzero Berry phase in the nodal-line semimetal MoO_2 . Physical Review B, 2020, 102, .	3.2	16
11	Non-Abelian reciprocal braiding of Weyl points and its manifestation in ZrTe_5 . Nature Physics, 2020, 16, 1137-1143.	16.7	87
12	Linear and quadratic magnetoresistance in the semimetal SiP_2 . Physical Review B, 2020, 102, .	3.2	14
13	Correlated states in twisted double bilayer graphene. Nature Physics, 2020, 16, 520-525.	16.7	374
14	Artificial Neural Network Approach to the Analytic Continuation Problem. Physical Review Letters, 2020, 124, 056401.	7.8	58
15	Moiré Flat Bands in Twisted Double Bilayer Graphene. Nano Letters, 2020, 20, 2410-2415.	9.1	107
16	The 2021 quantum materials roadmap. JPhys Materials, 2020, 3, 042006.	4.2	111
17	Non-Abelian band topology in noninteracting metals. Science, 2019, 365, 1273-1277.	12.6	141
18	Highly anisotropic interlayer magnetoresistance in ZrSiS nodal-line Dirac semimetal. Physical Review B, 2019, 100, .	3.2	23

#	ARTICLE	IF	CITATIONS
19	Magnetoresistance from Fermi surface topology. Physical Review B, 2019, 99, .	3.2	60
20	Observation of Weyl Nodes in Robust Type-II Weyl Semimetal $WP_{2\text{CaAg}}$ Physical Review Letters, 2019, 122, 176402. Topological nodal-line transition in $WP_{2\text{CaAg}}$	7.8	42
21	Physical Review B, 2018, 97, .	3.2	25
22	Predicting the ground-state structure of sodium boride. Physical Review B, 2018, 97, .	3.2	26
23	WannierTools: An open-source software package for novel topological materials. Computer Physics Communications, 2018, 224, 405-416.	7.5	1,557
24	Monoclinic C16: sp-sp hybridized nodal-line semimetal protected by PT-symmetry. Carbon, 2018, 127, 527-532.	10.3	32
25	Topological phase transitions driven by strain in monolayer tellurium. Physical Review B, 2018, 98, .	3.2	34
26	Observation of a nodal chain with Dirac surface states in TiB_2 Physical Review B, 2018, 97, .	3.2	44
27	Observation of topologically protected states at crystalline phase boundaries in single-layer WSe ₂ . Nature Communications, 2018, 9, 3401.	12.8	107
28	$MgTaN_3$: A reference Dirac semimetal. Physical Review B, 2018, 98, .	3.2	16
29	Extremely large magnetoresistance in the topologically trivial semimetal Li_2O_3 Physical Review B, 2018, 97, .	3.2	2
30	Coexistence of tunable Weyl points and topological nodal lines in ternary transition-metal telluride TaIrTe ₄ . Physical Review B, 2018, 97, .	3.2	26
31	Topological Dirac nodal-net fermions in AlB_2-type TiB_2 and ZrB_2	2.4	103
32	Automated construction of symmetrized Wannier-like tight-binding models from <i>ab initio</i> calculations. Physical Review Materials, 2018, 2, .	2.4	32
33	Topological phonons and thermoelectricity in triple-point metals. Physical Review Materials, 2018, 2, .	2.4	76
34	Hidden Weyl points in centrosymmetric paramagnetic metals. New Journal of Physics, 2017, 19, 035001.	2.9	36
35	Impact of strain on the electronic properties of InAs/GaSb quantum well systems. Physical Review B, 2017, 95, .	3.2	6
36	Quasiparticle interference of surface states in the type-II Weyl semimetal WTe_2 Physical Review B, 2017, 96, .	3.2	22

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37	From Nodal Chain Semimetal to Weyl Semimetal in HfC. Physical Review Letters, 2017, 119, 036401.	7.8	128
38	Manipulation of type-I and type-II Dirac points in PdTe_2 superconductor by external pressure. Physical Review B, 2017, 96, .	3.2	18
39	Phonon-induced topological transition to a type-II Weyl semimetal. Physical Review B, 2017, 95, .	3.2	33
40	Experimental signatures of the inverted phase in InAs/GaSb coupled quantum wells. Physical Review B, 2016, 94, .	3.2	33
41	Topological Phases in InAs From Novel Topological Semimetal to Majorana Wire. Physical Review Letters, 2016, 117, 076403.	8.9	154
42	Nodal-chain metals. Nature, 2016, 538, 75-78.	27.8	451
43	Triple Point Topological Metals. Physical Review X, 2016, 6, .	8.9	273
44	Fermi Arcs and Their Topological Character in the Candidate Type-II Weyl Semimetal MoTe_2 . Physical Review X, 2016, 6, .	8.9	154
45	Observation of large topologically trivial Fermi arcs in the candidate type-II Weyl semimetal WT_2e . Physical Review B, 2016, 94, .	3.2	174
46	Quantum interference effects in topological nanowires in a longitudinal magnetic field. Physical Review B, 2016, 94, .	3.2	8
47	Topological phases in $\text{InAs}_x\text{Sb}_{1-x}$: from novel topological semimetal to Majorana wire (Conference) Tj ETQq1 1 0.784314 rgBT /Overlo		
48	Type-II Weyl semimetals. Nature, 2015, 527, 495-498.	27.8	1,977
49	Bulk effects on topological conduction in three-dimensional topological insulators. Physical Review B, 2014, 90, .	3.2	5
50	Three-dimensional Dirac semimetal and quantum transport in $\text{Cd}_3\text{Ru}_2\text{O}_{10}$. Physical Review B, 2013, 88, .	3.2	1,357
51	Acceleration of the Stochastic Analytic Continuation Method via an Orthogonal Polynomial Representation of the Spectral Function. Chinese Physics Letters, 2013, 30, 090201.	3.3	6
52	Robust topological insulator conduction under strong boundary disorder. Physical Review B, 2013, 88, .	3.2	17
53	Fermi surface sheet-dependent band splitting in Sr_2RuO_4 . Continuous magnetic phase transition in half-frustrated Ca_2RuO_4 revealed by high-resolution angle-resolved photoemission spectroscopy. Physical Review B, 2013, 88, .	3.2	8
54	Topological phases in OsO_2 . Physical Review B, 2013, 88, .	3.2	6

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55	Spin conduction in anisotropic three-dimensional topological insulators. <i>Physical Review B</i> , 2012, 85, .	3.2	10
56	Photogalvanic in ultrathin film of topological insulator. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2012, 44, 895-899.	2.7	14
57	Giant vortex and skyrmion in a rotating two-species Bose-Einstein condensate. <i>Physical Review A</i> , 2008, 77, .	2.5	30
58	Solitons and vortices in an evolving Bose-Einstein condensate. <i>Physical Review A</i> , 2008, 77, .	2.5	11
59	Transport of the graphene electrons through a magnetic superlattice. <i>Journal of Physics Condensed Matter</i> , 2008, 20, 485210.	1.8	27
60	Generating ring dark solitons in an evolving Bose-Einstein condensate. <i>Physical Review A</i> , 2007, 76, .	2.5	20