

QuanSheng Wu

List of Publications by Year in descending order

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Version: 2024-02-01

60
papers

8,317
citations

159585

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133252

59
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61
all docs

61
docs citations

61
times ranked

6995
citing authors

#	ARTICLE	IF	CITATIONS
1	Type-II Weyl semimetals. Nature, 2015, 527, 495-498.	27.8	1,977
2	WannierTools: An open-source software package for novel topological materials. Computer Physics Communications, 2018, 224, 405-416.	7.5	1,557
3	Three-dimensional Dirac semimetal and quantum transport in Cd As_2 . Physical Review B, 2013, 88, .	3.2	1,357
4	Nodal-chain metals. Nature, 2016, 538, 75-78.	27.8	451
5	Correlated states in twisted double bilayer graphene. Nature Physics, 2020, 16, 520-525.	16.7	374
6	Triple Point Topological Metals. Physical Review X, 2016, 6, .	8.9	273
7	Observation of large topologically trivial Fermi arcs in the candidate type-II Weyl semimetal WTe_2 . Physical Review B, 2016, 94, .	3.2	174
8	Fermi Arcs and Their Topological Character in the Candidate Type-II Weyl Semimetal MoTe_2 . Physical Review X, 2016, 6, .	8.9	154
9	Irvsp: To obtain irreducible representations of electronic states in the VASP. Computer Physics Communications, 2021, 261, 107760.	7.5	151
10	Non-Abelian band topology in noninteracting metals. Science, 2019, 365, 1273-1277.	12.6	141
11	From Nodal Chain Semimetal to Weyl Semimetal in HfC. Physical Review Letters, 2017, 119, 036401.	7.8	128
12	The 2021 quantum materials roadmap. JPhys Materials, 2020, 3, 042006.	4.2	111
13	Observation of topologically protected states at crystalline phase boundaries in single-layer WSe ₂ . Nature Communications, 2018, 9, 3401.	12.8	107
14	Moiré Flat Bands in Twisted Double Bilayer Graphene. Nano Letters, 2020, 20, 2410-2415.	9.1	107
15	Topological Dirac nodal-net fermions in AIB_2 . Physical Review B, 2020, 103, 041115.	2.4	103
16	Topological Phases in InAs . Physical Review Letters, 2016, 117, 076403.	7.8	89
17	Non-Abelian reciprocal braiding of Weyl points and its manifestation in ZrTe. Nature Physics, 2020, 16, 1137-1143.	16.7	87
18	Topological phonons and thermoelectricity in triple-point metals. Physical Review Materials, 2018, 2, .	2.4	76

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19	Manipulation of type-I and type-II Dirac points in PdTe_2 superconductor by external pressure. <i>Physical Review B</i> , 2017, 96, .	3.2	62
20	Magnetoresistance from Fermi surface topology. <i>Physical Review B</i> , 2019, 99, .	3.2	60
21	Artificial Neural Network Approach to the Analytic Continuation Problem. <i>Physical Review Letters</i> , 2020, 124, 056401.	7.8	58
22	Observation of a nodal chain with Dirac surface states in TiB_2 . <i>Physical Review B</i> , 2018, 97, .	3.2	44
23	Observation of Weyl Nodes in Robust Type-II Weyl Semimetal WP_2 . <i>Physical Review Letters</i> , 2019, 122, 176402.	7.8	42
24	Extremely large magnetoresistance in the topologically trivial semimetal TaTe_2 . <i>Physical Review B</i> , 2018, 97, .	3.2	32
25	Hidden Weyl points in centrosymmetric paramagnetic metals. <i>New Journal of Physics</i> , 2017, 19, 035001.	2.9	36
26	Topological phase transitions driven by strain in monolayer tellurium. <i>Physical Review B</i> , 2018, 98, .	3.2	34
27	Experimental signatures of the inverted phase in InAs/GaSb coupled quantum wells. <i>Physical Review B</i> , 2016, 94, .	3.2	33
28	Monoclinic C16: sp-sp hybridized nodal-line semimetal protected by PT-symmetry. <i>Carbon</i> , 2018, 127, 527-532.	10.3	32
29	Automated construction of symmetrized Wannier-like tight-binding models from <i>ab initio</i> calculations. <i>Physical Review Materials</i> , 2018, 2, .	2.4	32
30	Giant vortex and skyrmion in a rotating two-species Bose-Einstein condensate. <i>Physical Review A</i> , 2008, 77, .	2.5	30
31	Transport of the graphene electrons through a magnetic superlattice. <i>Journal of Physics Condensed Matter</i> , 2008, 20, 485210.	1.8	27
32	Predicting the ground-state structure of sodium boride. <i>Physical Review B</i> , 2018, 97, .	3.2	26
33	Coexistence of tunable Weyl points and topological nodal lines in ternary transition-metal telluride TaIrTe_4 . <i>Physical Review B</i> , 2018, 97, .	3.2	26
34	Trivial topological phase of CaAgP and the topological nodal-line transition in CaAgMo_2 . <i>Physical Review B</i> , 2018, 97, .	3.2	25
35	Highly anisotropic interlayer magnetoresistance in ZrSiS nodal-line Dirac semimetal. <i>Physical Review B</i> , 2019, 100, .	3.2	23
36	Quasiparticle interference of surface states in the type-II Weyl semimetal WTe_2 . <i>Physical Review B</i> , 2017, 96, .	3.2	22

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37	Generating ring dark solitons in an evolving Bose-Einstein condensate. Physical Review A, 2007, 76, .	2.5	20
38	Phonon-induced topological transition to a type-II Weyl semimetal. Physical Review B, 2017, 95, .	3.2	18
39	Landau Levels as a Probe for Band Topology in Graphene Moiré Superlattices. Physical Review Letters, 2021, 126, 056401.	7.8	18
40	Robust topological insulator conduction under strong boundary disorder. Physical Review B, 2013, 88, .	3.2	17
41	$\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \langle \text{mml:msub} \langle \text{mml:mi} \rangle \text{MgTa} \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:math} \text{mathvariant="normal"} \rangle \text{N} \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 3 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$: A reference Dirac semimetal. Physical Review B, 2018, 98, .	3.2	16
42	Large magnetoresistance and nonzero Berry phase in the nodal-line semimetal $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \langle \text{mml:mi} \rangle \text{Mo} \langle \text{mml:mi} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \text{mathvariant="normal"} \rangle \text{O} \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$. Physical Review B, 2020, 102, .	3.2	16
43	Observation of a singular Weyl point surrounded by charged nodal walls in PtGa. Nature Communications, 2021, 12, 3994.	12.8	15
44	Photogalvanic in ultrathin film of topological insulator. Physica E: Low-Dimensional Systems and Nanostructures, 2012, 44, 895-899.	2.7	14
45	Linear and quadratic magnetoresistance in the semimetal $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \langle \text{mml:mi} \rangle \text{Si} \langle \text{mml:mi} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \text{mathvariant="normal"} \rangle \text{P} \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$. Physical Review B, 2020, 102, .	3.2	14
46	Temperature dependence of quantum oscillations from non-parabolic dispersions. Nature Communications, 2021, 12, 6213.	12.8	14
47	Solitons and vortices in an evolving Bose-Einstein condensate. Physical Review A, 2008, 77, .	2.5	11
48	Spin conduction in anisotropic three-dimensional topological insulators. Physical Review B, 2012, 85, .	3.2	10
49	Fermi surface sheet-dependent band splitting in Sr $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \text{ display="inline"} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:math} \rangle$ RuO $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \text{ display="inline"} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 4 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:math} \rangle$ revealed by high-resolution angle-resolved photoemission spectroscopy. Physical Review B, 2012, 86, .	3.2	8
50	Quantum interference effects in topological nanowires in a longitudinal magnetic field. Physical Review B, 2016, 94, .	3.2	8
51	Transport signatures of temperature-induced chemical potential shift and Lifshitz transition in layered type-II Weyl semimetal Ta ₂ Te ₄ . 2D Materials, 2021, 8, 015020.	4.4	8
52	Continuous magnetic phase transition in half-frustrated Ca $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \text{ display="inline"} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:math} \rangle$ Os $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \text{ display="inline"} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:math} \rangle$ O $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \text{ display="inline"} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:math} \rangle$.	3.2	6
53	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
54	Impact of strain on the electronic properties of InAs/GaSb quantum well systems. Physical Review B, 2017, 95, .	3.2	6

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55	Bulk effects on topological conduction in three-dimensional topological insulators. Physical Review B, 2014, 90, .	3.2	5
56	Crystal Field Effect and Electric Field Screening in Multilayer Graphene with and without Twist. Nano Letters, 2021, 21, 4636-4642.	9.1	5
57	Phase transition of layer-stacked borophene under pressure. Physical Review B, 2022, 105, .	3.2	5
58	Giant Chern number of a Weyl nodal surface without upper limit. Physical Review B, 2022, 105, .	3.2	4
59	Extremely large magnetoresistance in the "ordinary" metal ReO_3 . Physical Review B, 2021, 104, .		
60	Topological phases in $\text{InAs}_x\text{Sb}_{1-x}$: from novel topological semimetal to Majorana wire (Conference) Tj ETQq0 0 0 rgBT /Overlock 10 Tf		