

Zhi-Ming Yu

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5834768/publications.pdf>

Version: 2024-02-01

77
papers

5,045
citations

117625

34
h-index

88630

70
g-index

77
all docs

77
docs citations

77
times ranked

4147
citing authors

#	ARTICLE	IF	CITATIONS
1	Rise of silicene: A competitive 2D material. <i>Progress in Materials Science</i> , 2016, 83, 24-151.	32.8	713
2	Evidence for topological type-II Weyl semimetal WTe ₂ . <i>Nature Communications</i> , 2017, 8, 2150.	12.8	263
3	Theoretical prediction of MoN ₂ monolayer as a high capacity electrode material for metal ion batteries. <i>Journal of Materials Chemistry A</i> , 2016, 4, 15224-15231.	10.3	259
4	Nodal surface semimetals: Theory and material realization. <i>Physical Review B</i> , 2018, 97, .	3.2	248
5	Predicted Unusual Magnetoresponse in Type-II Weyl Semimetals. <i>Physical Review Letters</i> , 2016, 117, 077202.	7.8	211
6	Two-Dimensional Second-Order Topological Insulator in Graphdiyne. <i>Physical Review Letters</i> , 2019, 123, 256402.	7.8	193
7	Type-II nodal loops: Theory and material realization. <i>Physical Review B</i> , 2017, 96, .	3.2	158
8	Type-II Symmetry-Protected Topological Dirac Semimetals. <i>Physical Review Letters</i> , 2017, 119, 026404.	7.8	145
9	Coexistence of four-band nodal rings and triply degenerate nodal points in centrosymmetric metal diborides. <i>Physical Review B</i> , 2017, 95, .	3.2	138
10	Encyclopedia of emergent particles in three-dimensional crystals. <i>Science Bulletin</i> , 2022, 67, 375-380.	9.0	123
11	Artificial gravity field, astrophysical analogues, and topological phase transitions in strained topological semimetals. <i>Npj Quantum Materials</i> , 2017, 2, .	5.2	116
12	Nexus fermions in topological symmorphic crystalline metals. <i>Scientific Reports</i> , 2017, 7, 1688.	3.3	116
13	Hourglass Dirac chain metal in rhenium dioxide. <i>Nature Communications</i> , 2017, 8, 1844.	12.8	116
14	Nonsymmorphic-symmetry-protected hourglass Dirac loop, nodal line, and Dirac point in bulk and monolayer X ($X = \text{Te, Sn, Bi, Sb, As, P, Bi}_2\text{Te}_3, \text{Bi}_2\text{Se}_3, \text{Bi}_2\text{Te}_2\text{Se}, \text{Bi}_2\text{Te}_2\text{S}_2, \text{Bi}_2\text{Te}_2\text{S}_2, \text{Bi}_2\text{Te}_2\text{S}_2$)	3.2	115
15	Nodal loop and nodal surface states in the Ti family of materials. <i>Physical Review B</i> , 2018, 97, .	3.2	115
16	Spin-momentum locking and spin-orbit torques in magnetic nano-heterojunctions composed of Weyl semimetal WTe ₂ . <i>Nature Communications</i> , 2018, 9, 3990.	12.8	105
17	Three-dimensional Pentagon Carbon with a genesis of emergent fermions. <i>Nature Communications</i> , 2017, 8, 15641.	12.8	104
18	Universal Approach to Magnetic Second-Order Topological Insulator. <i>Physical Review Letters</i> , 2020, 125, 056402.	7.8	91

#	ARTICLE	IF	CITATIONS
19	Quadratic and cubic nodal lines stabilized by crystalline symmetry. <i>Physical Review B</i> , 2019, 99, .	3.2	89
20	Hybrid nodal loop metal: Unconventional magnetoresistance and material realization. <i>Physical Review B</i> , 2018, 97, .	3.2	75
21	Ferromagnetic hybrid nodal loop and switchable type-I and type-II Weyl fermions in two dimensions. <i>Physical Review B</i> , 2020, 102, .	3.2	75
22	Two-dimensional spin-orbit Dirac point in monolayer HfGeTe. <i>Physical Review Materials</i> , 2017, 1, .	2.4	70
23	Valley-Layer Coupling: A New Design Principle for Valleytronics. <i>Physical Review Letters</i> , 2020, 124, 037701.	7.8	69
24	d Orbital Topological Insulator and Semimetal in the Antifluorite Cu_2S Family: Contrasting Spin Helicities, Nodal Box, and Hybrid Surface States. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 3506-3511.	4.6	65
25	From Type-II Triply Degenerate Nodal Points and Three-Band Nodal Rings to Type-II Dirac Points in Centrosymmetric Zirconium Oxide. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 5792-5797.	4.6	61
26	Weyl-loop half-metal in Li_2Pt . <i>Physical Review B</i> , 2019, 99, .	3.2	61
27	Ternary wurtzite CaAgBi materials family: A playground for essential and accidental, type-I and type-II Dirac fermions. <i>Physical Review Materials</i> , 2017, 1, .	2.4	59
28	Quadratic contact point semimetal: Theory and material realization. <i>Physical Review B</i> , 2018, 98, .	3.2	57
29	Higher-order Dirac fermions in three dimensions. <i>Physical Review B</i> , 2020, 101, .	3.2	56
30	Two-dimensional nodal-loop half-metal in monolayer MnN. <i>Physical Review Materials</i> , 2019, 3, .	2.4	55
31	Circumventing the no-go theorem: A single Weyl point without surface Fermi arcs. <i>Physical Review B</i> , 2019, 100, .	3.2	50
32	Charge-two Weyl phonons with type-III dispersion. <i>Physical Review B</i> , 2022, 105, .	3.2	47
33	Hourglass Weyl loops in two dimensions: Theory and material realization in monolayer GaTe family. <i>Physical Review Materials</i> , 2019, 3, .	2.4	44
34	Electric field controlled spin- and valley-polarized edge states in silicene with extrinsic Rashba effect. <i>Physical Review B</i> , 2015, 92, .	3.2	39
35	Symmetry-enforced ideal lanternlike phonons in the ternary nitride $\text{Li}_2\text{Mg}_2\text{N}_3$. <i>Physical Review B</i> , 2021, 104, .	3.2	38
36	Monolayer Mg_2C : Negative Poisson's ratio and unconventional two-dimensional emergent fermions. <i>Physical Review Materials</i> , 2018, 2, .	2.4	36

#	ARTICLE	IF	CITATIONS
37	Charge-four Weyl point: Minimum lattice model and chirality-dependent properties. Physical Review B, 2021, 104, .	3.2	35
38	Magnetic higher-order nodal lines. Physical Review B, 2021, 103, .	3.2	32
39	MagneticTB: A package for tight-binding model of magnetic and non-magnetic materials. Computer Physics Communications, 2022, 270, 108153.	7.5	32
40	Almost ideal nodal-loop semimetal in monoclinic CuTeO_3 material. Physical Review B, 2018, 97, .	3.2	30
41	Quantized Circulation of Anomalous Shift in Interface Reflection. Physical Review Letters, 2020, 125, 076801.	7.8	30
42	SpaceGrouprep: A package for irreducible representations of space group. Computer Physics Communications, 2021, 265, 107993.	7.5	30
43	Graphyne as a second-order and real Chern topological insulator in two dimensions. Physical Review B, 2021, 104, .	3.2	30
44	Coexistence of zero-, one-, and two-dimensional degeneracy in tetragonal SnO_2 phonons. Physical Review B, 2021, 104, .	3.2	28
45	Coexistence of symmetry-enforced phononic Dirac nodal-line net and three-nodal surfaces phonons in solid-state materials: Theory and materials realization. Physical Review Materials, 2021, 5, .	2.4	27
46	Systematic investigation of emergent particles in type-III magnetic space groups. Physical Review B, 2022, 105, .	3.2	25
47	Encyclopedia of emergent particles in type-IV magnetic space groups. Physical Review B, 2022, 105, .	3.2	25
48	Mirror protected multiple nodal line semimetals and material realization. Physical Review B, 2018, 98, .	3.2	24
49	Transverse shift in Andreev reflection. Physical Review B, 2017, 96, .	3.2	22
50	Two-dimensional antiferromagnetic Dirac fermions in monolayer TaCoTe_2 . Physical Review B, 2019, 100, .	3.2	22
51	Double Dirac nodal line semimetal with a torus surface state. Physical Review B, 2021, 103, .	3.2	21
52	Realistic cesium fluorgermanate: An ideal platform to realize the topologically nodal-box and nodal-chain phonons. Physical Review B, 2021, 104, .	3.2	21
53	Perovskite-type YRhB_3 with multiple types of nodal point and nodal line states. Physical Review B, 2021, 103, .	3.2	20
54	Room temperature ferromagnetism and antiferromagnetism in two-dimensional iron arsenides. Nanoscale, 2019, 11, 16508-16514.	5.6	18

#	ARTICLE	IF	CITATIONS
55	Type-II topological metals. <i>Frontiers of Physics</i> , 2020, 15, 1.	5.0	18
56	Pure spin current and perfect valley filter by designed separation of the chiral states in two-dimensional honeycomb lattices. <i>Physical Review B</i> , 2016, 94, .	3.2	17
57	Weyl Monoloop Semi-Half-Metal and Tunable Anomalous Hall Effect. <i>Nano Letters</i> , 2021, 21, 8749-8755.	9.1	16
58	Super-Andreev reflection and longitudinal shift of pseudospin-1 fermions. <i>Physical Review B</i> , 2020, 101, .	3.2	15
59	Composite Dirac semimetals. <i>Physical Review B</i> , 2019, 100, .	3.2	14
60	Anomalous spatial shifts in interface electronic scattering. <i>Frontiers of Physics</i> , 2019, 14, 1.	5.0	13
61	Unconventional Pairing Induced Anomalous Transverse Shift in Andreev Reflection. <i>Physical Review Letters</i> , 2018, 121, 176602.	7.8	12
62	Valley current and spin-valley filter in topological domain wall. <i>Journal of Applied Physics</i> , 2019, 125, 123904.	2.5	12
63	Multiple magnetism-controlled topological states in EuAgAs. <i>Physical Review B</i> , 2021, 104, .	3.2	12
64	Transverse shift in crossed Andreev reflection. <i>Physical Review B</i> , 2018, 98, .	3.2	11
65	Goos-Hänchen-like shifts at a metal/superconductor interface. <i>Physical Review B</i> , 2018, 98, .	3.2	9
66	Trigonal warping induced unusual spin texture and strong spin polarization in graphene with the Rashba effect. <i>Physical Review B</i> , 2018, 97, .	3.2	7
67	Triply degenerate point in three-dimensional spinless systems. <i>Physical Review B</i> , 2021, 104, .	3.2	7
68	Double reflection and tunneling resonance in a topological insulator: Towards the quantification of warping strength by transport. <i>Physical Review B</i> , 2017, 96, .	3.2	6
69	Topological hybrid nanocavity for coupling phase transition. <i>Journal of Optics (United Kingdom)</i> , 2021, 23, 124002.	2.2	6
70	From atomic semimetal to topological nontrivial insulator. <i>Physical Review B</i> , 2022, 105, .	3.2	5
71	First-principles study of bulk and two-dimensional structures of the MnBi family of materials		

#	ARTICLE	IF	CITATIONS
73	Two-dimensional Dirac semiconductor and its material realization. Physical Review B, 2022, 105, .	3.2	4
74	THE ELECTRONIC CORRELATION EFFECT FROM WEAK TO STRONG IN THE THREE DIMENSIONAL ELECTRON GAS. International Journal of Modern Physics B, 2012, 26, 1250065.	2.0	2
75	The anisotropic effect of hexagonal warping on the transport. Physics Letters, Section A: General, Atomic and Solid State Physics, 2019, 383, 237-242.	2.1	2
76	New Method to Deal with Three-Dimensional Electron Gas with a Strong Correlation Effect. Chinese Physics Letters, 2012, 29, 127101.	3.3	1
77	A New Perspective to Study the Correlation Effect of the Three-Dimensional Electron Gas. Chinese Physics Letters, 2014, 31, 017103.	3.3	1