Zhi-Ming Yu

List of Publications by Year
in descending order

77	5,045	117625	88630
papers	citations	34 h-index	70 g-index

77	77	77	4147
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	MagneticTB: A package for tight-binding model of magnetic and non-magnetic materials. Computer Physics Communications, 2022, 270, 108153.	7.5	32
2	Encyclopedia of emergent particles in three-dimensional crystals. Science Bulletin, 2022, 67, 375-380.	9.0	123
3	Two-dimensional Dirac semiconductor and its material realization. Physical Review B, 2022, 105, .	3.2	4
4	Systematic investigation of emergent particles in type-III magnetic space groups. Physical Review B, 2022, 105, .	3.2	25
5	Encyclopedia of emergent particles in type-IV magnetic space groups. Physical Review B, 2022, 105, .	3.2	25
6	From atomic semimetal to topological nontrivial insulator. Physical Review B, 2022, 105, .	3.2	5
7	Charge-two Weyl phonons with type-III dispersion. Physical Review B, 2022, 105, .	3.2	47
8	Magnetic higher-order nodal lines. Physical Review B, 2021, 103, .	3.2	32
9	Double Dirac nodal line semimetal with a torus surface state. Physical Review B, 2021, 103, .	3.2	21
10	Perovskite-type <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow><mml:mi>YRh</mml:mi></mml:mrow><mml:mn>3</m mathvariant="normal">B</mml:mi></mml:math> with multiple types of nodal point and nodal line states. Physical Review B, 2021, 103, .	3.2	20
11	Symmetry-enforced ideal lanternlike phonons in the ternary nitride <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Li</mml:mi><mml:mn>6</mml:mn></mml:msub></mml:mrow></mml:math> Physical Review B, 2021, 104, .	3.2	38
12	Coexistence of zero-, one-, and two-dimensional degeneracy in tetragonal <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>SnO</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math> phonons. Physical Review B, 2021, 104, .	3.2	28
13	SpaceGroupIrep: A package for irreducible representations of space group. Computer Physics Communications, 2021, 265, 107993.	7.5	30
14	Graphyne as a second-order and real Chern topological insulator in two dimensions. Physical Review B, 2021, 104, .	3.2	30
15	Charge-four Weyl point: Minimum lattice model and chirality-dependent properties. Physical Review B, 2021, 104, .	3.2	35
16	Triply degenerate point in three-dimensional spinless systems. Physical Review B, 2021, 104, .	3.2	7
17	Topological hybrid nanocavity for coupling phase transition. Journal of Optics (United Kingdom), 2021, 23, 124002.	2.2	6
18	Weyl Monoloop Semi-Half-Metal and Tunable Anomalous Hall Effect. Nano Letters, 2021, 21, 8749-8755.	9.1	16

#	ARTICLE	IF	CITATIONS
19	Multiple magnetism-controlled topological states in EuAgAs. Physical Review B, 2021, 104, .	3.2	12
20	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
21	Realistic cesium fluogermanate: An ideal platform to realize the topologically nodal-box and nodal-chain phonons. Physical Review B, 2021, 104, .	3.2	21
22	Quantized Circulation of Anomalous Shift in Interface Reflection. Physical Review Letters, 2020, 125, 076801.	7.8	30
23	First-principles study of bulk and two-dimensional structures of the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>A</mml:mi><mml:mi mathvariant="normal">MnBi</mml:mi></mml:math> family of materials <mml:math		

#	ARTICLE	IF	CITATIONS
37	Anomalous spatial shifts in interface electronic scattering. Frontiers of Physics, 2019, 14, 1.	5.0	13
38	Weyl-loop half-metal in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mrow><mml:mi>Li</mml:mi></mml:mrow><mml:mn>2</mml:mn></mml:msub></mml:mrow><mm Physical Review B, 2019, 99, .	3.2	61
39	Two-Dimensional Second-Order Topological Insulator in Graphdiyne. Physical Review Letters, 2019, 123, 256402.	7.8	193
40	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
41	Hourglass Weyl loops in two dimensions: Theory and material realization in monolayer GaTeI family. Physical Review Materials, 2019, 3, .	2.4	44
42	Two-dimensional nodal-loop half-metal in monolayer MnN. Physical Review Materials, 2019, 3, .	2.4	55
43	Nonsymmorphic-symmetry-protected hourglass Dirac loop, nodal line, and Dirac point in bulk and monolayer <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>X</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:m (<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>X</mml:mi></mml:math> =) Tj ETQq1 1 0.784314 rgB	3.2	115
44	Trigonal warping induced unusual spin texture and strong spin polarization in graphene with the Rashba effect. Physical Review B, 2018, 97, .	3.2	7
45	Hybrid nodal loop metal: Unconventional magnetoresponse and material realization. Physical Review B, 2018, 97, .	3.2	75
46	Nodal surface semimetals: Theory and material realization. Physical Review B, 2018, 97, .	3.2	248
47	Mirror protected multiple nodal line semimetals and material realization. Physical Review B, 2018, 98, .	3.2	24
48	Transverse shift in crossed Andreev reflection. Physical Review B, 2018, 98, .	3.2	11
49	Spin-momentum locking and spin-orbit torques in magnetic nano-heterojunctions composed of Weyl semimetal WTe2. Nature Communications, 2018, 9, 3990.	12.8	105
50	Unconventional Pairing Induced Anomalous Transverse Shift in Andreev Reflection. Physical Review Letters, 2018, 121, 176602.	7.8	12
51	Quadratic contact point semimetal: Theory and material realization. Physical Review B, 2018, 98, .	3.2	57
52	Nodal loop and nodal surface states in the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Ti</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:m family of materials. Physical Review B, 2018, 97, .	3.2	115
53	Almost ideal nodal-loop semimetal in monoclinic <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="bold">CuTeO</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:math> material. Physical Review B, 2018, 97, .	3.2	30
54	Goos-HÃnchen-like shifts at a metal/superconductor interface. Physical Review B, 2018, 98, .	3.2	9

#	ARTICLE	IF	CITATIONS
55	Monolayer <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Mg</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mi mathvariant="normal">C</mml:mi></mml:mrow></mml:math> : Negative Poisson's ratio and unconventional two-dimensional emergent fermions. Physical Review Materials, 2018, 2, .	2.4	36
56	Artificial gravity field, astrophysical analogues, and topological phase transitions in strained topological semimetals. Npj Quantum Materials, 2017, 2, .	5.2	116
57	Three-dimensional Pentagon Carbon with a genesis of emergent fermions. Nature Communications, 2017, 8, 15641.	12.8	104
58	Double reflection and tunneling resonance in a topological insulator: Towards the quantification of warping strength by transport. Physical Review B, 2017, 96, .	3.2	6
59	Transverse shift in Andreev reflection. Physical Review B, 2017, 96, .	3.2	22
60	Nexus fermions in topological symmorphic crystalline metals. Scientific Reports, 2017, 7, 1688.	3.3	116
61	Type-II nodal loops: Theory and material realization. Physical Review B, 2017, 96, .	3.2	158
62	Hourglass Dirac chain metal in rhenium dioxide. Nature Communications, 2017, 8, 1844.	12.8	116
63	From Type-II Triply Degenerate Nodal Points and Three-Band Nodal Rings to Type-II Dirac Points in Centrosymmetric Zirconium Oxide. Journal of Physical Chemistry Letters, 2017, 8, 5792-5797.	4.6	61
64	d Orbital Topological Insulator and Semimetal in the Antifluorite Cu₂S Family: Contrasting Spin Helicities, Nodal Box, and Hybrid Surface States. Journal of Physical Chemistry Letters, 2017, 8, 3506-3511.	4.6	65
65	Type-II Symmetry-Protected Topological Dirac Semimetals. Physical Review Letters, 2017, 119, 026404.	7.8	145
66	Coexistence of four-band nodal rings and triply degenerate nodal points in centrosymmetric metal diborides. Physical Review B, 2017, 95, .	3.2	138
67	Evidence for topological type-II Weyl semimetal WTe2. Nature Communications, 2017, 8, 2150.	12.8	263
68	Ternary wurtzite CaAgBi materials family: A playground for essential and accidental, type-I and type-II Dirac fermions. Physical Review Materials, 2017, 1, .	2.4	59
69	Two-dimensional spin-orbit Dirac point in monolayer HfGeTe. Physical Review Materials, 2017, 1, .	2.4	70
70	Rise of silicene: A competitive 2D material. Progress in Materials Science, 2016, 83, 24-151.	32.8	713
71	Pure spin current and perfect valley filter by designed separation of the chiral states in two-dimensional honeycomb lattices. Physical Review B, 2016, 94, .	3.2	17
72	Predicted Unusual Magnetoresponse in Type-II Weyl Semimetals. Physical Review Letters, 2016, 117, 077202.	7.8	211

#	Article	IF	Citations
73	Theoretical prediction of MoN₂ monolayer as a high capacity electrode material for metal ion batteries. Journal of Materials Chemistry A, 2016, 4, 15224-15231.	10.3	259
74	Electric field controlled spin- and valley-polarized edge states in silicene with extrinsic Rashba effect. Physical Review B, 2015, 92, .	3.2	39
75	A New Perspective to Study the Correlation Effect of the Three-Dimensional Electron Gas. Chinese Physics Letters, 2014, 31, 017103.	3.3	1
76	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
77	New Method to Deal with Three-Dimensional Electron Gas with a Strong Correlation Effect. Chinese Physics Letters, 2012, 29, 127101.	3.3	1