

Xiaoming

List of Publications by Year in descending order

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201674

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times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	Borophene as an extremely high capacity electrode material for Li-ion and Na-ion batteries. <i>Nanoscale</i> , 2016, 8, 15340-15347.	5.6	396
2	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
3	Type-II nodal loops: Theory and material realization. <i>Physical Review B</i> , 2017, 96, .	3.2	158
4	Topological Type-II Nodal Line Semimetal and Dirac Semimetal State in Stable Kagome Compound Mg_3Bi_2 . <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 4814-4819.	4.6	157
5	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
6	Nodal loop and nodal surface states in the TiMn_3Ni_5 family of materials. <i>Physical Review B</i> , 2018, 97, .	3.2	115
7	Two-Dimensional GaN: An Excellent Electrode Material Providing Fast Ion Diffusion and High Storage Capacity for Li-Ion and Na-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 38978-38984.	8.0	97
8	Large Linear Magnetoresistance and Shubnikov-de Hass Oscillations in Single Crystals of YPdBi Heusler Topological Insulators. <i>Scientific Reports</i> , 2013, 3, 2181.	3.3	90
9	Hybrid nodal loop metal: Unconventional magnetoresistance and material realization. <i>Physical Review B</i> , 2018, 97, .	3.2	75
10	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
11	Two-dimensional Weyl nodal-line semimetal in a ferromagnetic KN_2 monolayer with a high Curie temperature. <i>Physical Review B</i> , 2020, 102, .	3.2	73
12	Centrosymmetric Li_2NaN : a superior topological electronic material with critical-type triply degenerate nodal points. <i>Journal of Materials Chemistry C</i> , 2019, 7, 1316-1320.	5.5	63
13	Ternary compound HfCuP : An excellent Weyl semimetal with the coexistence of type-I and type-II Weyl nodes. <i>Journal of Advanced Research</i> , 2020, 24, 523-528.	9.5	62
14	Topological nodal line state in superconducting NaAlSi compound. <i>Journal of Materials Chemistry C</i> , 2019, 7, 10694-10699.	5.5	60
15	A record-high ion storage capacity of T-graphene as two-dimensional anode material for Li-ion and Na-ion batteries. <i>Applied Surface Science</i> , 2020, 527, 146849.	6.1	59
16	Anomalous magnetoresistance in the spinel superconductor LiTi_2O_4 . <i>Nature Communications</i> , 2015, 6, 7183.	12.8	54
17	Mn_2C monolayer: A superior anode material offering good conductivity, high storage capacity and ultrafast ion diffusion for Li-ion and Na-ion batteries. <i>Applied Surface Science</i> , 2020, 503, 144091.	6.1	51
18	Topological nodal lines and nodal points in the antiferromagnetic material $\hat{\Gamma}_2\text{-Fe}_2\text{PO}_5$. <i>Journal of Materials Chemistry C</i> , 2019, 7, 12657-12663.	5.5	50

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19	Ideal Inner Nodal Chain Semimetals in Li_2XY (X = Ca, Ba; Y = Si, Ge) Materials. Journal of Physical Chemistry Letters, 2018, 9, 5358-5363.	4.6	44
20	Spin-polarized type-II nodal loop and nodal surface states in hexagonal compounds Tj_2O_3 ($\text{Tj} = \text{Bi, Sb, As, P, N, V, Nb, Ta}$)	4.0	17
21	NMR Evidence for the Topologically Nontrivial Nature in a Family of Half-Heusler Compounds. Scientific Reports, 2016, 6, 23172.	3.3	41
22	Intermetallic Ca_3Pb : a topological zero-dimensional electrider material. Journal of Materials Chemistry C, 2018, 6, 575-581.	5.5	36
23	Topological phase with a critical-type nodal line state in intermetallic CaPd. Physical Review B, 2018, 98, .	3.2	35
24	Ferromagnetic two-dimensional metal-chlorides MCl (M = Sc, Y, and La): Candidates for Weyl nodal line semimetals with small spin-orbit coupling gaps. Applied Surface Science, 2020, 520, 146376.	6.1	35
25	Transition from semiconducting to metallic-like conducting and weak antilocalization effect in single crystals of LuPtSb. Applied Physics Letters, 2015, 106, 102102.	3.3	34
26	Ideal fully spin-polarized type-II nodal line state in half-metals X_2YZ_4 (X=K, Cs, Rb, Y Cr, Cu, Z=Cl, F). Materials Today Physics, 2021, 17, 100360.	6.0	34
27	Antiferromagnetism caused by excess electrons and multiple topological electronic states in the electrider $\text{Ba}_2\text{Mn}_3\text{Sb}_3$ Physical Review B, 2021, 104, .	3.2	33
28	Topological Nodal Line Electrides: Realization of an Ideal Nodal Line State Nearly Immune from Spin-Orbit Coupling. Journal of Physical Chemistry C, 2019, 123, 25871-25876.	3.1	31
29	Three-dimensional Weyl hourglass networks in the nonsymmorphic half-metal Mg_2Sb Physical Review B, 2020, 102, .	3.1	31
30	Highly anisotropic type-II nodal line state in pure titanium metal. Applied Physics Letters, 2018, 112, .	3.3	30
31	Pentagonal B_2C monolayer with extremely high theoretical capacity for Li/Na-ion batteries. Physical Chemistry Chemical Physics, 2021, 23, 6278-6285.	2.8	30
32	A topological quantum catalyst: the case of two-dimensional traversing nodal line states associated with high catalytic performance for the hydrogen evolution reaction. Journal of Materials Chemistry A, 2021, 9, 22453-22461.	10.3	30
33	Superconducting properties in a candidate topological nodal line semimetal SnTaS_2 with a centrosymmetric crystal structure. Physical Review B, 2019, 100, 100101.	3.2	29
34	Fully spin-polarized double-Weyl fermions with type-III dispersion in the quasi-one-dimensional materials Tj_2O_3 ($\text{Tj} = \text{Bi, Sb, As, P, N, V, Nb, Ta}$)	4.0	17
35	Possibility of fully spin-polarized nodal chain state in several spinel half metals. Physical Review B, 2020, 102, .	3.2	24
36	Theoretical realization of hybrid Weyl state and associated high catalytic performance for hydrogen evolution in NiSi. IScience, 2022, 25, 103543.	4.1	24

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37	Nearly flat nodal surface states in pseudo-one-dimensional molybdenum monochalcogenides $X(\text{MoS})_3$ ($X = \text{K}, \text{Rb}, \text{and Cs}$). <i>Journal of Materials Chemistry C</i> , 2020, 8, 9046-9054.	5.5	23
38	Two-dimensional Weyl semimetal with coexisting fully spin-polarized type-I and type-II Weyl points. <i>Applied Surface Science</i> , 2021, 540, 148318.	6.1	22
39	Fully spin-polarized Weyl fermions and in/out-of-plane quantum anomalous Hall effects in a two-dimensional d^0 ferromagnet. <i>Nanoscale</i> , 2021, 13, 5901-5909.	5.6	22
40	From Multiple Nodal Chain to Dirac/Weyl Semimetal and Topological Insulator in Ternary Hexagonal Materials. <i>Journal of Physical Chemistry C</i> , 2017, 121, 28587-28593.	3.1	21
41	Phononic higher-order nodal point in two dimensions. <i>Physical Review B</i> , 2022, 105, .	3.2	20
42	Electronic structure, doping effect and topological signature in realistic intermetallics $\text{Li}_{3\tilde{x}}\text{Na}_x\text{M}$ ($x = 3, 2, 1, 0$; $M = \text{N}, \text{P}, \text{As}, \text{Sb}, \text{Bi}$). <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 5847-5854.	2.8	19
43	Spin-Orbit Coupling-Determined Topological Phase: Topological Insulator and Quadratic Dirac Semimetals. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 10340-10347.	4.6	17
44	Two-dimensional metallic carbon allotrope with multiple rings for ion batteries. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 18770-18776.	2.8	17
45	Multiple Weyl fermions and tunable quantum anomalous Hall effect in 2D half-metal with huge spin-related energy gap. <i>Applied Surface Science</i> , 2021, 551, 149390.	6.1	17
46	Crystal Structures, Electronic Structures, and Topological Signatures in Equiatomic TX Compounds ($T = \text{Sc}, \text{Zr}, \text{Hf}$; $\text{X} = \text{Co}, \text{Pt}, \text{Pd}, \text{Ir}, \text{Rh}$; $X = \text{Al}, \text{Ga}, \text{Sn}$). <i>Journal of Physical Chemistry C</i> , 2020, 124, 7378-7385.	3.1	16
47	Coexistence of fully spin-polarized Weyl nodal loop, nodal surface, and Dirac point in a family of quasi-one-dimensional half-metals. <i>Physical Review B</i> , 2021, 103, .	3.2	16
48	Potential antiferromagnetic Weyl nodal line state in LiTi_2O_4 material. <i>Physical Review B</i> , 2021, 104, .	3.2	14
49	Mn_2C Monolayer: Hydrogenation/Oxygenation-Induced Strong Ferromagnetism and Potential Applications. <i>Journal of Physical Chemistry C</i> , 2019, 123, 16388-16392.	3.1	13
50	Theoretical realization of two-dimensional Dirac/Weyl line-node and traversing edge states in penta- X_2Y monolayers. <i>Applied Materials Today</i> , 2021, 23, 101057.	4.3	13
51	Prediction of two-dimensional CP_3 as a promising electrode material with a record-high capacity for Na ions. <i>Nanoscale Advances</i> , 2020, 2, 5271-5279.	4.6	12
52	Lorentz-violating type-II Dirac fermions in full-Heusler compounds XMg_2Ag ($X = \text{Pr}, \text{Nd}$). <i>npj Quantum Materials</i> , 2021, 6, 1000000.	2.9	12
53	Sixfold, fourfold, and threefold excitations in the rare-earth metal carbide R_2C_3 . <i>Physical Review B</i> , 2021, 104, .	3.2	12
54	Investigation of nodal line spin-gapless semiconductors using first-principles calculations. <i>Journal of Materials Chemistry C</i> , 2022, 10, 6530-6545.	5.5	12

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55	Ti ₂ P monolayer as a high performance 2-D electrode material for ion batteries. Physical Chemistry Chemical Physics, 2020, 22, 18480-18487.	2.8	11
56	A nonsymmorphic-symmetry-protected hourglass Weyl node, hybrid Weyl node, nodal surface, and Dirac nodal line in Pd ₄ X (X = S, Se) compounds. Physical Chemistry Chemical Physics, 2020, 22, 22399-22407.	2.8	11
57	Centrosymmetric TiS as a novel topological electronic material with coexisting type-I, type-II and hybrid nodal line states. Journal of Materials Chemistry C, 2020, 8, 14109-14116.	5.5	10
58	Weyl Fermions in V ₁₃ Monolayer. Frontiers in Chemistry, 2020, 8, 722.	3.6	10
59	Novel topological states of nodal points and nodal rings in 2D planar octagon TiB ₄ . Nanoscale, 2021, 13, 3194-3200.	5.6	10
60	Theoretical realization of two-dimensional half-metallicity and fully spin-polarized multiple nodal-line fermions in monolayer PrOBr. Physical Review B, 2022, 105, .	3.2	10
61	A theoretical prediction of NP monolayer as a promising electrode material for Li-/Na-ion batteries. Applied Surface Science, 2021, 547, 149209.	6.1	9
62	Two-dimensional [CaCl] ⁺ with its strippable feasibility as an applicable electride with room-temperature ferromagnetism and extremely low work function. Journal of Materials Chemistry C, 2021, 9, 15477-15487.	5.5	9
63	Multiple fermionic states with clear nontrivial surface signature in CsCl-type compound ErAs. Computational Materials Science, 2020, 183, 109815.	3.0	8
64	Intermetallic $\hat{1}\pm$ -FeSi ₂ : Realization of Type-I, Type-II, and Hybrid Nodal Line States in a Single Material via Tunable Valleys. Journal of Physical Chemistry C, 2020, 124, 12311-12317.	3.1	8
65	Triple degenerate point in three dimensions: Theory and realization. Physical Review B, 2021, 104, .	3.2	8
66	Structure, phase stability, half-metallicity, and fully spin-polarized Weyl states in compound NaV ₂ O ₄ : An example for topological spintronic material. Physical Review Materials, 2021, 5, .	2.4	7
67	Phononic linear and quadratic nodal points in monolayer XH (X=Si, Ge, Sn). Journal of Physics Condensed Matter, 2022, 34, 155703.	1.8	6
68	Type-II Weyl fermion induced hydrogen adsorption in two-dimensional electride [Ca ₂ N] ⁺ . Journal of Materials Chemistry A, 0, , .	10.3	5
69	IrSi as a Superior Electronic Material with Novel Topological Properties and Nice Compatibility with Semiconductor Si. Physica Status Solidi - Rapid Research Letters, 2020, 14, 2000178.	2.4	4
70	Spin-polarized sextuple excitations in ferromagnetic materials. Physical Review B, 2022, 105, .	3.2	3
71	Palladium oxide: an excellent topological electronic material with 0-D and 1-D band crossings and definite nontrivial surface states. Physical Chemistry Chemical Physics, 2020, 22, 18447-18453.	2.8	2
72	Symmetry-protected multiple-type nodal lines in intermetallic XY (X=Ca, Rare earth; Y=Ni, PGE, Ag, Cu). Journal of Alloys and Compounds, 2021, 873, 159773.	5.5	1

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73	High-order one-dimensional (1D) fermion in ferromagnetic RbFeF ₃ . Computational Materials Science, 2022, 201, 110944.	3.0	1
74	Theoretical study of compounds XSb (X=La, Pr, Nd): Realization of inner nodal chains, nodal line frame, and Dirac points. Computational Materials Science, 2022, 206, 111231.	3.0	1