

Xiaoming

List of Publications by Year in descending order

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74
papers

3,051
citations

201674

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168389

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74
all docs

74
docs citations

74
times ranked

2037
citing authors

#	ARTICLE	IF	CITATIONS
19	Potential antiferromagnetic Weyl nodal line state in LiTiO_4 material. Physical Review B, 2021, 104, .	3.2	14
20	Sixfold, fourfold, and threefold excitations in the rare-earth metal carbide R_2C_3 . Physical Review B, 2021, 104, .	3.2	12
21	Triple degenerate point in three dimensions: Theory and realization. Physical Review B, 2021, 104, .	3.2	8
22	Symmetry-protected multiple-type nodal lines in intermetallic XY ($\text{X}=\text{Ca}$, Rare earth; $\text{Y}=\text{Ni}$, PGE, Ag, Cu). Journal of Alloys and Compounds, 2021, 873, 159773.	5.5	1
23	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
24	Novel topological states of nodal points and nodal rings in 2D planar octagon TiB_4 . Nanoscale, 2021, 13, 3194-3200.	5.6	10
25	Fully spin-polarized Weyl fermions and in/out-of-plane quantum anomalous Hall effects in a two-dimensional $d > 0$ ferromagnet. Nanoscale, 2021, 13, 5901-5909.	5.6	22
26	Two-dimensional $[\text{CaCl}]^+ \hat{e}^{\hat{a}}$ 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
27	Antiferromagnetism caused by excess electrons and multiple topological electronic states in the electride Ba_4Mn_3 . Physical Review B, 2021, 104, .	3.2	33
28	Mn_2C monolayer: A superior anode material offering good conductivity, high storage capacity and ultrafast ion diffusion for Li-ion and Na-ion batteries. Applied Surface Science, 2020, 503, 144091.	6.1	51
29	Three-dimensional Weyl hourglass networks in the nonsymmorphic half-metal Mg_2Sb . Physical Review B, 2020, 102, .	3.1	1
30	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
31	Spin-Orbit Coupling-Determined Topological Phase: Topological Insulator and Quadratic Dirac Semimetals. Journal of Physical Chemistry Letters, 2020, 11, 10340-10347.	4.6	17
32	Ti_2P monolayer as a high performance 2-D electrode material for ion batteries. Physical Chemistry Chemical Physics, 2020, 22, 18480-18487.	2.8	11
33	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
34	Fully spin-polarized double-Weyl fermions with type-III dispersion in the quasi-one-dimensional materials $\text{X}_2\text{TjETQqO}_0\text{rgBT}$. Overlock 10 Tf 50 132 Td. Physical Chemistry Letters, 2021, 12, 10340-10347.	3.1	1
35	Prediction of two-dimensional CP_3 as a promising electrode material with a record-high capacity for Na ions. Nanoscale Advances, 2020, 2, 5271-5279.	4.6	12
36	Two-dimensional Weyl nodal-line semimetal in a ferromagnetic K_2N monolayer with a high Curie temperature. Physical Review B, 2020, 102, .	3.2	73

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37	Weyl Fermions in VI3 Monolayer. <i>Frontiers in Chemistry</i> , 2020, 8, 722.	3.6	10
38	A nonsymmorphic-symmetry-protected hourglass Weyl node, hybrid Weyl node, nodal surface, and Dirac nodal line in Pd4X (X = S, Se) compounds. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 22399-22407.	2.8	11
39	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
40	Possibility of fully spin-polarized nodal chain state in several spinel half metals. <i>Physical Review B</i> , 2020, 102, .	3.2	24
41	Nearly flat nodal surface states in pseudo-one-dimensional molybdenum monochalcogenides X(MoS)3 (X = K, Rb, and Cs). <i>Journal of Materials Chemistry C</i> , 2020, 8, 9046-9054.	5.5	23
42	Multiple fermionic states with clear nontrivial surface signature in CsCl-type compound ErAs. <i>Computational Materials Science</i> , 2020, 183, 109815.	3.0	8
43	Intermetallic $\hat{\Gamma}_\pm$ -FeSi ₂ : Realization of Type-I, Type-II, and Hybrid Nodal Line States in a Single Material via Tunable Valleys. <i>Journal of Physical Chemistry C</i> , 2020, 124, 12311-12317.	3.1	8
44	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
45	IrSi as a Superior Electronic Material with Novel Topological Properties and Nice Compatibility with Semiconductor Si. <i>Physica Status Solidi - Rapid Research Letters</i> , 2020, 14, 2000178.	2.4	4
46	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
47	Lorentz-violating type-II Dirac fermions in full-Heusler compounds XMg ₂ Ag (X = Pr, Nd). <i>Tj ETQq1 1 0.784314 rgBT /Overlo</i>	2.9	12
48	Crystal Structures, Electronic Structures, and Topological Signatures in Equiatomic T $\hat{\Gamma}_\pm$ X Compounds (T = Sc, Zr, Hf; T $\hat{\Gamma}_\pm$ = Co, Pt, Pd, Ir, Rh; X = Al, Ga, Sn). <i>Journal of Physical Chemistry C</i> , 2020, 124, 7378-7385.	3.1	16
49	Electronic structure, doping effect and topological signature in realistic intermetallics Li _{3-x} Na _x M (x = 3, 2, 1, 0; M = N, P, As, Sb, Bi). <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 5847-5854.	2.8	19
50	Ferromagnetic two-dimensional metal-chlorides MCl (M = Sc, Y, and La): Candidates for Weyl nodal line semimetals with small spin-orbit coupling gaps. <i>Applied Surface Science</i> , 2020, 520, 146376.	6.1	35
51	Superconducting properties in a candidate topological nodal line semimetal $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle \text{SnTaS} \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 2 \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle$ with a centrosymmetric crystal structure. <i>Physical Review B</i> , 2019, 100, .	3.2	19
52	Topological nodal line state in superconducting NaAlSi compound. <i>Journal of Materials Chemistry C</i> , 2019, 7, 10694-10699.	5.5	60
53	Topological Nodal Line Electrides: Realization of an Ideal Nodal Line State Nearly Immune from Spin-Orbit Coupling. <i>Journal of Physical Chemistry C</i> , 2019, 123, 25871-25876.	3.1	31
54	Centrosymmetric Li ₂ NaN: 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

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55	Mn ₂ C Monolayer: Hydrogenation/Oxygenation-Induced Strong Ferromagnetism and Potential Applications. <i>Journal of Physical Chemistry C</i> , 2019, 123, 16388-16392.	3.1	13
56	Topological nodal lines and nodal points in the antiferromagnetic material $\text{Ir}_2\text{Fe}_2\text{PO}_5$. <i>Journal of Materials Chemistry C</i> , 2019, 7, 12657-12663.	5.5	50
57	Intermetallic Ca_3Pb : a topological zero-dimensional electride material. <i>Journal of Materials Chemistry C</i> , 2018, 6, 575-581.	5.5	36
58	Hybrid nodal loop metal: Unconventional magnetoresponse and material realization. <i>Physical Review B</i> , 2018, 97, .	3.2	75
59	Highly anisotropic type-II nodal line state in pure titanium metal. <i>Applied Physics Letters</i> , 2018, 112, .	3.3	30
60	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
61	Ideal Inner Nodal Chain Semimetals in Li_2XY (X = Ca, Ba; Y = Si, Ge) Materials. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 5358-5363.	4.6	44
62	Topological phase with a critical-type nodal line state in intermetallic CaPd. <i>Physical Review B</i> , 2018, 98, .	3.2	35
63	Nodal loop and nodal surface states in the $\text{Ti}_3\text{Mn}_5\text{Sb}_{15}$ family of materials. <i>Physical Review B</i> , 2018, 97, .	3.2	115
64	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
65	Type-II nodal loops: Theory and material realization. <i>Physical Review B</i> , 2017, 96, .	3.2	158
66	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
67	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
68	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
69	NMR Evidence for the Topologically Nontrivial Nature in a Family of Half-Heusler Compounds. <i>Scientific Reports</i> , 2016, 6, 23172.	3.3	41
70	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
71	Anomalous magnetoresistance in the spinel superconductor LiTi_2O_4 . <i>Nature Communications</i> , 2015, 6, 7183.	12.8	54
72	Transition from semiconducting to metallic-like conducting and weak antilocalization effect in single crystals of LuPtSb . <i>Applied Physics Letters</i> , 2015, 106, 102102.	3.3	34

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73	Large Linear Magnetoresistance and Shubnikov-de Hass Oscillations in Single Crystals of YPdBi Heusler Topological Insulators. Scientific Reports, 2013, 3, 2181.	3.3	90
74	Type-II Weyl fermion induced hydrogen adsorption in two-dimensional electride $[\text{Ca}_{2\text{N}}]_{\text{e}}$. Journal of Materials Chemistry A, 0, , .	10.3	5