Guodong Liu

List of Publications by Year
in descending order

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122	3,703	136885	155592
papers	citations	32 h-index	55 g-index

123	123	123	2296
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	High-order one-dimensional (1D) fermion in ferromagnetic RbFeF3. Computational Materials Science, 2022, 201, 110944.	1.4	1
2	Theoretical realization of hybrid Weyl state and associated high catalytic performance for hydrogen evolution in NiSi. IScience, 2022, 25, 103543.	1.9	24
3	Binary pentagonal auxetic materials for photocatalysis and energy storage with outstanding performances. Nanoscale, 2022, 14, 2041-2051.	2.8	20
4	Phononic higher-order nodal point in two dimensions. Physical Review B, 2022, 105, .	1.1	20
5	Theoretical study of compounds XSb (XÂ=ÂLa, Pr, Nd): Realization of inner nodal chains, nodal line frame, and Dirac points. Computational Materials Science, 2022, 206, 111231.	1.4	1
6	Theoretical realization of two-dimensional half-metallicity and fully spin-polarized multiple nodal-line fermions in monolayer PrOBr. Physical Review B, 2022, 105, .	1.1	10
7	Two-dimensional auxetic pentagonal materials as water splitting photocatalysts with excellent performances. Journal of Materials Science, 2022, 57, 7667-7679.	1.7	3
8	Spectroscopic evidence for Dirac nodal surfaces and nodal rings in the superconductor NaAlSi. Physical Review B, 2022, 105, .	1.1	9
9	Synthesis of Weyl Semi-Metal Co3Sn2S2 by Hydrothermal Method and Its Physical Properties. Metals, 2022, 12, 830.	1.0	0
10	Spin-polarized sextuple excitations in ferromagnetic materials. Physical Review B, 2022, 105, .	1.1	3
11	Two-dimensional Weyl semimetal with coexisting fully spin-polarized type-I and type-II Weyl points. Applied Surface Science, 2021, 540, 148318.	3.1	22
12	Pentagonal B₂C monolayer with extremely high theoretical capacity for Li-/Na-ion batteries. Physical Chemistry Chemical Physics, 2021, 23, 6278-6285.	1.3	30
13	Two-dimensional metallic carbon allotrope with multiple rings for ion batteries. Physical Chemistry Chemical Physics, 2021, 23, 18770-18776.	1.3	17
14	Coexistence of fully spin-polarized Weyl nodal loop, nodal surface, and Dirac point in a family of quasi-one-dimensional half-metals. Physical Review B, 2021, 103, .	1.1	16
15	A theoretical prediction of NP monolayer as a promising electrode material for Li-/Na-ion batteries. Applied Surface Science, 2021, 547, 149209.	3.1	9
16	Multiple Weyl fermions and tunable quantum anomalous Hall effect in 2D half-metal with huge spin-related energy gap. Applied Surface Science, 2021, 551, 149390.	3.1	17
17	Theoretical realization of two-dimensional Dirac/Weyl line-node and traversing edge states in penta-X2Y monolayers. Applied Materials Today, 2021, 23, 101057.	2.3	13
18	Potential antiferromagnetic Weyl nodal line state in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow><mml:mi>LiTi</mml:mi></mml:mrow><mml:mn>2</m mathvariant="normal">O</mml:mi></mml:mrow><mml:mn>4</mml:mn></mml:msub></mml:math> material. Physical Review B, 2021, 104, .	1.1	14

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19	Sixfold, fourfold, and threefold excitations in the rare-earth metal carbide <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>R</mml:mi><mml:mn>2</mml:mn></mml:msub><mml mathvariant="normal">C</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:math>. Physical Review B, 2021, 104, .	1.1	12
20	Triple degenerate point in three dimensions: Theory and realization. Physical Review B, 2021, 104, .	1.1	8
21	Surface Magnetism in Pristine Î± Rhombohedral Boron and Intersurface Exchange Coupling Mechanism of Boron Icosahedra. Journal of Physical Chemistry Letters, 2021, 12, 6812-6817.	2.1	5
22	Investigations of the photoelectrochemical properties of different contents In of InxGa1-xN in CO2 reduction. Research on Chemical Intermediates, 2021, 47, 4825-4835.	1.3	3
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.	5.2	30
24	Novel topological states of nodal points and nodal rings in 2D planar octagon TiB4. Nanoscale, 2021, 13, 3194-3200.	2.8	10
25	Fully spin-polarized Weyl fermions and in/out-of-plane quantum anomalous Hall effects in a two-dimensional d⁰ ferromagnet. Nanoscale, 2021, 13, 5901-5909.	2.8	22
26	Two-dimensional [CaCl]⁺Â·e^{â^'} 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.	2.7	9
27	Influence of nitrogen flow ratio on properties of c-axis oriented AlN films grown by RF magnetron sputtering. Applied Physics A: Materials Science and Processing, 2021, 127, 1.	1.1	5
28	Antiferromagnetism caused by excess electrons and multiple topological electronic states in the electride <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Ba</mml:mi><mml:mn>4</mml:mn></mml:m Physical Review B, 2021, 104, .	1.1	33
29	Mn2C 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.	3.1	51
30	Three-dimensional Weyl hourglass networks in the nonsymmorphic half-metal <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:m Physical Review B, 2020, 102, .	1.1	31
31	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.	2.7	10
32	Spinâ€“Orbit Coupling-Determined Topological Phase: Topological Insulator and Quadratic Dirac Semimetals. Journal of Physical Chemistry Letters, 2020, 11, 10340-10347.	2.1	17
33	Ti₂P monolayer as a high performance 2-D electrode material for ion batteries. Physical Chemistry Chemical Physics, 2020, 22, 18480-18487.	1.3	11
34	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.	1.3	2
35	Magnetism, half-metallicity, and topological signatures in Fe_{2â^'x}V_xPO₅ (x = 0, 0.5, 1, 1.5, 2) materials: a potential class of advanced spintronic materials. Physical Chemistry Chemical Physics, 2020, 22, 20027-20036.	1.3	0
36	Fully spin-polarized double-Weyl fermions with type-III dispersion in the quasi-one-dimensional materials <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>X</mml:mi><mml:mn>2</mml:mn></mml:m (<mml:math) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 52 Td (xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:m	1.1	24

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37	Prediction of two-dimensional CP₃ as a promising electrode material with a record-high capacity for Na ions. Nanoscale Advances, 2020, 2, 5271-5279.	2.2	12
38	Two-dimensional Weyl nodal-line semimetal in a <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msup><mml:mi>d</mml:mi><mml:mn>0</mml:mn></mml:msup></mml:m ferromagnetic <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">K</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mi mathvariant="normal">N</mml:mi></mml:math> monolayer with a high Curie temperature. Physical Review B, 2020, 102, .	1.1	73
39	Weyl Fermions in VI3 Monolayer. Frontiers in Chemistry, 2020, 8, 722.	1.8	10
40	A nonsymmorphic-symmetry-protected hourglass Weyl node, hybrid Weyl node, nodal surface, and Dirac nodal line in Pd4X (X = S, Se) compounds. Physical Chemistry Chemical Physics, 2020, 22, 22399-22407.	1.3	11
41	Ferromagnetic hybrid nodal loop and switchable type-I and type-II Weyl fermions in two dimensions. Physical Review B, 2020, 102, .	1.1	75
42	Possibility of fully spin-polarized nodal chain state in several spinel half metals. Physical Review B, 2020, 102, .	1.1	24
43	Multiple fermionic states with clear nontrivial surface signature in CsCl-type compound ErAs. Computational Materials Science, 2020, 183, 109815.	1.4	8
44	Intermetallic Î±-FeSi₂: 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.	1.5	8
45	A record-high ion storage capacity of T-graphene as two-dimensional anode material for Li-ion and Na-ion batteries. Applied Surface Science, 2020, 527, 146849.	3.1	59
46	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.	1.2	4
47	Ternary compound HfCuP: An excellent Weyl semimetal with the coexistence of type-I and type-II Weyl nodes. Journal of Advanced Research, 2020, 24, 523-528.	4.4	62
48	Lorentz-violating type-II Dirac fermions in full-Heusler compounds XMg₂Ag (X = Pr, Nd,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	1.2	12
49	Crystal Structures, Electronic Structures, and Topological Signatures in Equiatomic TTâ€²X Compounds (T = Sc, Zr, Hf; Tâ€² = Co, Pt, Pd, Ir, Rh; X = Al, Ga, Sn). Journal of Physical Chemistry C, 2020, 124, 7378-7385.	1.5	16
50	Electronic structure, doping effect and topological signature in realistic intermetallics Li_{3â^'x}Na_xM (x = 3, 2, 1, 0; M = N, P, As, Sb, Bi). Physical Chemistry Chemical Physics, 2020, 22, 5847-5854.	1.3	19
51	Ferromagnetic two-dimensional metal-chlorides MCl (MÂ=ÂSc, Y, and La): Candidates for Weyl nodal line semimetals with small spin-orbit coupling gaps. Applied Surface Science, 2020, 520, 146376.	3.1	35
52	Topological nodal line state in superconducting NaAlSi compound. Journal of Materials Chemistry C, 2019, 7, 10694-10699.	2.7	60
53	Topological Nodal Line Electrides: Realization of an Ideal Nodal Line State Nearly Immune from Spinâ€“Orbit Coupling. Journal of Physical Chemistry C, 2019, 123, 25871-25876.	1.5	31
54	A Two Time Scale Relaxation Model and Its Application to Enthalpy Relaxation of Glassy Polystyrene. Polymer Science - Series A, 2019, 61, 701-709.	0.4	1

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55	Centrosymmetric Li₂NaN: a superior topological electronic material with critical-type triply degenerate nodal points. Journal of Materials Chemistry C, 2019, 7, 1316-1320.	2.7	63
56	Mn2C Monolayer: Hydrogenation/Oxygenation-Induced Strong Ferromagnetism and Potential Applications. Journal of Physical Chemistry C, 2019, 123, 16388-16392.	1.5	13
57	Theoretical Investigations on the Mechanical, Magneto-Electronic Properties and Half-Metallic Characteristics of ZrRhTiZ (Z = Al, Ga) Quaternary Heusler Compounds. Applied Sciences (Switzerland), 2019, 9, 883.	1.3	17
58	Topological nodal lines and nodal points in the antiferromagnetic material Î²-Fe₂PO₅. Journal of Materials Chemistry C, 2019, 7, 12657-12663.	2.7	50
59	The Magnetocaloric Properties Around the Second-Order Magnetic Transition in $$hbox {Ni}_{2}hbox {Mn}_{1.4}hbox {In}_{mathrm{0.6-x}}hbox {R}_{mathrm{x}} (hbox {R}= hbox {Si, Ge,) Tj ETQq1 1 0.784314 rgBT /Ov		
60	Preparation and physical properties of a Cr₃Al film with a DO₃ structure. IUCrJ, 2019, 6, 552-557.	1.0	19
61	Screening topological materials with a CsCl-type structure in crystallographic databases. IUCrJ, 2019, 6, 688-694.	1.0	42
62	Electronic Structures, Magnetic Properties and Half-Metallicity of Heusler Compounds Hf2VZ (Z = Ga,) Tj ETQq0 0 0 rgBT /Overlock 10 T Magnetism, 2018, 31, 3063-3074.	0.8	3
63	Enhancement of UV-aging resistance of UV-curable polyurethane acrylate coatings via incorporation of hindered amine light stabilizers-functionalized TiO2-SiO2 nanoparticles. Journal of Polymer Research, 2018, 25, 1.	1.2	22
64	Intermetallic Ca₃Pb: a topological zero-dimensional electride material. Journal of Materials Chemistry C, 2018, 6, 575-581.	2.7	36
65	Highly anisotropic type-II nodal line state in pure titanium metal. Applied Physics Letters, 2018, 112, .	1.5	30
66	Tailoring structural and magnetic properties of Mn_{3âˆ’x}Fe_xGa alloys towards multifunctional applications. IUCrJ, 2018, 5, 794-800.	1.0	25
67	Two-Dimensional GaN: An Excellent Electrode Material Providing Fast Ion Diffusion and High Storage Capacity for Li-Ion and Na-Ion Batteries. ACS Applied Materials & Interfaces, 2018, 10, 38978-38984.	4.0	97
68	Ideal Inner Nodal Chain Semimetals in Li₂XY (X = Ca, Ba; Y = Si, Ge) Materials. Journal of Physical Chemistry Letters, 2018, 9, 5358-5363.	2.1	44
69	Topological phase with a critical-type nodal line state in intermetallic CaPd. Physical Review B, 2018, 98, .	1.1	35
70	Identification of a New Form of Electron Coupling in the Bi2Sr2CaCu2O8 Superconductor by Laser-Based Angle-Resolved Photoemission Spectroscopy. Peking University-World Scientific Advanced Physics Series, 2018, , 239-248.	0.0	0
71	Anti-site-induced diverse diluted magnetism in LiMgPdSb-type CoMnTiSi alloy. Scientific Reports, 2017, 7, 42034.	1.6	15
72	Transition from Anomalous Hall Effect to Topological Hall Effect in Hexagonal Non-Collinear Magnet Mn3Ga. Scientific Reports, 2017, 7, 515.	1.6	70

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73	TiO2â€“SiO2 composite nanoparticles containing hindered amine light stabilizers encapsulated by MMAâ€“PMPM copolymers. Iranian Polymer Journal (English Edition), 2017, 26, 785-795.	1.3	4
74	Topological Type-II Nodal Line Semimetal and Dirac Semimetal State in Stable Kagome Compound Mg₃Bi₂. Journal of Physical Chemistry Letters, 2017, 8, 4814-4819.	2.1	157
75	Half-metallicity of the bulk and (001) surface of NbFeCrAl and NbFeVGe Heusler compounds: a first-principles prediction. RSC Advances, 2017, 7, 31707-31713.	1.7	12
76	Structural, electronic, magnetic, half-metallic, mechanical, and thermodynamic properties of the quaternary Heusler compound FeCrRuSi: A first-principles study. Scientific Reports, 2017, 7, 16183.	1.6	59
77	Rare earth-based quaternary Heusler compoundsMCoVZ(M= Lu, Y;Z= Si, Ge) with tunable band characteristics for potential spintronic applications. IUCrJ, 2017, 4, 758-768.	1.0	91
78	New Half-Metallic Materials: FeRuCrP and FeRhCrP Quaternary Heusler Compounds. Materials, 2017, 10, 1367.	1.3	17
79	Windows open for highly tunable magnetostructural phase transitions. APL Materials, 2016, 4, .	2.2	18
80	A full spectrum of spintronic properties demonstrated by a C1_b-type Heusler compound Mn₂Sn subjected to strain engineering. Journal of Materials Chemistry C, 2016, 4, 8535-8544.	2.7	59
81	First-principles study on quaternary Heusler compounds ZrFeVZ (Z = Al, Ga, In) with large spin-flip gap. RSC Advances, 2016, 6, 109394-109400.	1.7	46
82	Origin of the half-metallic band-gap in newly designed quaternary Heusler compounds ZrVTiZ (Z = Al,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	1.7	68
83	Recent advances in the Heusler based spin-gapless semiconductors. Journal of Materials Chemistry C, 2016, 4, 7176-7192.	2.7	146
84	The Synthesis and Martensitic Transformation of the Co2TiSb1â^'x Sn x (x = 0, 0.25, 0.5) Heusler Alloys. Journal of Superconductivity and Novel Magnetism, 2016, 29, 995-1000.	0.8	1
85	The Magnetic Properties of Closely Spaced Three-Dimensional Nanomagnet Array. Journal of Nanomaterials, 2015, 2015, 1-6.	1.5	1
86	Coupled Magnetic and Structural Transitions in Fe-Doped MnNiSi Compounds. IEEE Transactions on Magnetics, 2015, 51, 1-4.	1.2	3
87	Electronic structure and half-metallicity of the Heusler alloy Co2ZrGe. Journal of the Korean Physical Society, 2014, 65, 1059-1062.	0.3	7
88	Electronic structure and possible martensitic transformation in Ni2FeIn alloy. Materials Science-Poland, 2014, 32, 396-401.	0.4	1
89	Ti2MnZ (Z=Al, Ga, In) compounds: Nearly spin gapless semiconductors. AIP Advances, 2014, 4, .	0.6	46
90	Study on enthalpy relaxation of glassy polystyrene using a structure-dependent Kohlrausch stretch exponent combined with coupling model. European Physical Journal E, 2014, 37, 20.	0.7	7

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91	Electronic structure and possible martensitic transformation in Mn2NiGe andÂNi2MnGe. Intermetallics, 2013, 38, 139-143.	1.8	42
92	Glass transition temperatures of copolymers from methyl methacrylate, styrene, and acrylonitrile: binary copolymers. Polymer Bulletin, 2011, 67, 1311-1323.	1.7	7
93	New quarternary half metallic material CoFeMnSi. Journal of Applied Physics, 2009, 105, .	1.1	197
94	Studies on binary copolymerization and glass transition temperatures of methyl methacrylate with ethyl methacrylate and nâ€butyl methacrylate. Journal of Applied Polymer Science, 2009, 114, 3939-3944.	1.3	11
95	Effect of the chainâ€transferâ€agent content on the emulsion polymerization process and adhesive properties of poly(nâ€butyl acrylateâ€coâ€acrylic acid) latexes. Journal of Applied Polymer Science, 2008, 107, 1793-1802.	1.3	29
96	The surface modification of nanosilica, preparation of nanosilica/acrylic coreâ€shell composite latex, and its application in toughening PVC matrix. Journal of Applied Polymer Science, 2008, 107, 2671-2680.	1.3	75
97	Morphology and thermal properties of liquid crystal pâ€PAEB/nâ€propyl methacrylate copolymers. Journal of Applied Polymer Science, 2008, 108, 1223-1228.	1.3	1
98	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mi mathvariant="normal">Mn</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mi mathvariant="normal">Co</mml:mi><mml:mi>Z</mml:mi></mml:mrow></mml:math><mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"		

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109	Large negative magnetoresistance in quaternary Heusler alloy Ni50Mn8Fe17Ga25 melt-spun ribbons. Applied Physics Letters, 2005, 86, 182507.	1.5	44
110	The effect of steel fiber orientation on frictional properties of asbestos-free friction materials. Polymer Composites, 2004, 25, 94-101.	2.3	35
111	Effect of the addition of acrylonitrile/ethylene-propylene-diene monomer (EPDM)/styrene graft copolymer on the morphology-properties relationships in poly(styrene-co-acrylonitrile)/EPDM rubber blends. Journal of Applied Polymer Science, 2004, 91, 1685-1697.	1.3	11
112	Large magnetostriction in Fe100â^'xAlx(15â©½xâ©½30) melt-spun ribbons. Applied Physics Letters, 2004, 85, 1751-1753.	1.5	25
113	Magnetic field-controlled two-way shape memory in CoNiGa single crystals. Applied Physics Letters, 2004, 84, 3594-3596.	1.5	68
114	Properties of poly(vinyl chloride) blended with an emulsion copolymer ofN-cyclohexylmaleimide and methyl methacrylate. Journal of Applied Polymer Science, 2003, 88, 201-205.	1.3	19
115	Glass-transition temperatures and rheological behavior of methyl methacrylateâ€“styrene random copolymers. Journal of Applied Polymer Science, 2003, 88, 2891-2896.	1.3	16
116	Synthesis and thermoanalysis of suspension copolymer of N-cyclohexylmaleimide and methyl methacrylate. International Journal of Polymeric Materials and Polymeric Biomaterials, 2003, 52, 611-621.	1.8	8
117	Thermal analysis of solution copolymers of styrene withN-phenylmaleimide. Journal of Applied Polymer Science, 2002, 83, 417-422.	1.3	24
118	Synthesis and characterization of emulsion copolymer ofN-cyclohexylmaleimide and methyl methacrylate. Journal of Applied Polymer Science, 2002, 84, 1070-1075.	1.3	7
119	Graft copolymerization of styrene and acrylonitrile onto EPDM. Journal of Applied Polymer Science, 2002, 86, 428-432.	1.3	21
120	Metal-insulator transition and possible superconductivity in Pb2.2Cu0.8Sr3.1La1.5Cu1.5Oy with hexagonal structure. Materials Research Innovations, 2000, 3, 212-217.	1.0	1
121	Type-II Weyl fermion induced hydrogen adsorption in two-dimensional electride [Ca₂N]⁺Â·e⁻. Journal of Materials Chemistry A, 0, , .	5.2	5
122	Structure and Optical Properties of AlN Crystals Grown by Metal Nitride Vapor Phase Epitaxy with Different V/III Ratios. ACS Omega, 0, , .	1.6	8