

Guodong Liu

List of Publications by Year in descending order

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122
papers

3,703
citations

136740

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155451

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123
all docs

123
docs citations

123
times ranked

2296
citing authors

#	ARTICLE	IF	CITATIONS
1	http://www.w3.org/1998/Math/MathML Mn^2CoZ		

#	ARTICLE	IF	CITATIONS
19	Structural, electronic, magnetic, half-metallic, mechanical, and thermodynamic properties of the quaternary Heusler compound FeCrRuSi: A first-principles study. <i>Scientific Reports</i> , 2017, 7, 16183.	1.6	59
20	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.	3.1	59
21	Mn ₂ C 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.	3.1	51
22	Topological nodal lines and nodal points in the antiferromagnetic material Fe_2PO_5 . <i>Journal of Materials Chemistry C</i> , 2019, 7, 12657-12663.	2.7	50
23	Ti ₂ Mn _Z (Z = Al, Ga, In) compounds: Nearly spin gapless semiconductors. <i>AIP Advances</i> , 2014, 4, .	0.6	46
24	First-principles study on quaternary Heusler compounds ZrFeVZ (Z = Al, Ga, In) with large spin-flip gap. <i>RSC Advances</i> , 2016, 6, 109394-109400.	1.7	46
25	Large negative magnetoresistance in quaternary Heusler alloy Ni ₅₀ Mn ₈ Fe ₁₇ Ga ₂₅ melt-spun ribbons. <i>Applied Physics Letters</i> , 2005, 86, 182507.	1.5	44
26	Ideal Inner Nodal Chain Semimetals in Li ₂ XY (X = Ca, Ba; Y = Si, Ge) Materials. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 5358-5363.	2.1	44
27	Electronic structure and possible martensitic transformation in Mn ₂ NiGe and Ni_2MnGe . <i>Intermetallics</i> , 2013, 38, 139-143.	1.8	42
28	Screening topological materials with a CsCl-type structure in crystallographic databases. <i>IUCr</i> , 2019, 6, 688-694.	1.0	42
29	Intermetallic Ca ₃ Pb: a topological zero-dimensional electride material. <i>Journal of Materials Chemistry C</i> , 2018, 6, 575-581.	2.7	36
30	The effect of steel fiber orientation on frictional properties of asbestos-free friction materials. <i>Polymer Composites</i> , 2004, 25, 94-101.	2.3	35
31	Topological phase with a critical-type nodal line state in intermetallic CaPd. <i>Physical Review B</i> , 2018, 98, .	1.1	35
32	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.	3.1	35
33	Antiferromagnetism caused by excess electrons and multiple topological electronic states in the electride BaMn_4 . <i>Physical Review B</i> , 2021, 104, .	1.1	33
34	Topological Nodal Line Electrdes: Realization of an Ideal Nodal Line State Nearly Immune from Spin-Orbit Coupling. <i>Journal of Physical Chemistry C</i> , 2019, 123, 25871-25876.	1.5	31
35	Three-dimensional Weyl hourglass networks in the nonsymmorphic half-metal MgMn_2 . <i>Physical Review B</i> , 2020, 102, .	3.1	31
36	Highly anisotropic type-II nodal line state in pure titanium metal. <i>Applied Physics Letters</i> , 2018, 112, .	1.5	30

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37	Pentagonal B ₂ C monolayer with extremely high theoretical capacity for Li-/Na-ion batteries. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 6278-6285.	1.3	30
38	A topological quantum catalyst: the case of two-dimensional traversing nodal line states associated with high catalytic performance for the hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2021, 9, 22453-22461.	5.2	30
39	Effect of the chain transfer agent content on the emulsion polymerization process and adhesive properties of poly(<i>n</i> -butyl acrylate-co-acrylic acid) latexes. <i>Journal of Applied Polymer Science</i> , 2008, 107, 1793-1802.	1.3	29
40	Bulk polymerization of styrene in the presence of organomodified montmorillonite. <i>Journal of Applied Polymer Science</i> , 2005, 96, 1146-1152.	1.3	26
41	Large magnetostriction in Fe _{100-x} Al _x (15 ^{1/2} 30) melt-spun ribbons. <i>Applied Physics Letters</i> , 2004, 85, 1751-1753.	1.5	25
42	Tailoring structural and magnetic properties of Mn _{3-x} Fe _x Ga alloys towards multifunctional applications. <i>IUCr</i> , 2018, 5, 794-800.	1.0	25
43	Thermal analysis of solution copolymers of styrene with <i>N</i> -phenylmaleimide. <i>Journal of Applied Polymer Science</i> , 2002, 83, 417-422.	1.3	24
44	Fully spin-polarized double-Weyl fermions with type-III dispersion in the quasi-one-dimensional materials	1.1	24
45	Possibility of fully spin-polarized nodal chain state in several spinel half metals. <i>Physical Review B</i> , 2020, 102, .	1.1	24
46	Theoretical realization of hybrid Weyl state and associated high catalytic performance for hydrogen evolution in NiSi. <i>IScience</i> , 2022, 25, 103543.	1.9	24
47	Synthesis and Curing of Liquid-Crystalline Epoxy Resins Containing a Biphenyl Mesogen. <i>Macromolecular Chemistry and Physics</i> , 2006, 207, 2222-2231.	1.1	23
48	Enhancement of UV-aging resistance of UV-curable polyurethane acrylate coatings via incorporation of hindered amine light stabilizers-functionalized TiO ₂ -SiO ₂ nanoparticles. <i>Journal of Polymer Research</i> , 2018, 25, 1.	1.2	22
49	Two-dimensional Weyl semimetal with coexisting fully spin-polarized type-I and type-II Weyl points. <i>Applied Surface Science</i> , 2021, 540, 148318.	3.1	22
50	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.	2.8	22
51	Graft copolymerization of styrene and acrylonitrile onto EPDM. <i>Journal of Applied Polymer Science</i> , 2002, 86, 428-432.	1.3	21
52	The Magnetocaloric Properties Around the Second-Order Magnetic Transition in Ni ₂ Mn _{1.4} In _{0.6-x} R _x (R = Si, Ge)	1.0	20
53	Binary pentagonal auxetic materials for photocatalysis and energy storage with outstanding performances. <i>Nanoscale</i> , 2022, 14, 2041-2051.	2.8	20
54	Phononic higher-order nodal point in two dimensions. <i>Physical Review B</i> , 2022, 105, .	1.1	20

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55	Properties of poly(vinyl chloride) blended with an emulsion copolymer of N-cyclohexylmaleimide and methyl methacrylate. <i>Journal of Applied Polymer Science</i> , 2003, 88, 201-205.	1.3	19
56	Electronic structure, doping effect and topological signature in realistic intermetallics $\text{Li}_{3-x}\text{Na}_x\text{M}$ ($x = 3, 2, 1, 0$; $M = \text{N, P, As, Sb, Bi}$). <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 5847-5854.	1.3	19
57	Preparation and physical properties of a Cr_3Al film with a DO_3 structure. <i>IUCr</i> , 2019, 6, 552-557.	1.0	19
58	Magnetically controlled high damping in ferromagnetic $\text{Ni}_{52}\text{Mn}_{24}\text{Ga}_{24}$ single crystal. <i>Applied Physics Letters</i> , 2006, 89, 101911.	1.5	18
59	Windows open for highly tunable magnetostructural phase transitions. <i>APL Materials</i> , 2016, 4, .	2.2	18
60	New Half-Metallic Materials: FeRuCrP and FeRhCrP Quaternary Heusler Compounds. <i>Materials</i> , 2017, 10, 1367.	1.3	17
61	Theoretical Investigations on the Mechanical, Magneto-Electronic Properties and Half-Metallic Characteristics of ZrRhTiZ ($Z = \text{Al, Ga}$) Quaternary Heusler Compounds. <i>Applied Sciences</i> (Switzerland), 2019, 9, 883.	1.3	17
62	Spin-Orbit Coupling-Determined Topological Phase: Topological Insulator and Quadratic Dirac Semimetals. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 10340-10347.	2.1	17
63	Two-dimensional metallic carbon allotrope with multiple rings for ion batteries. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 18770-18776.	1.3	17
64	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.	3.1	17
65	Glass-transition temperatures and rheological behavior of methyl methacrylate-styrene random copolymers. <i>Journal of Applied Polymer Science</i> , 2003, 88, 2891-2896.	1.3	16
66	Sequence Distribution Effects on Glass Transition Temperatures of Copolymers: An Extended Gibbs-DiMarzio Equation in View of Bond Rotation Flexibility. <i>Journal of Physical Chemistry B</i> , 2008, 112, 93-99.	1.2	16
67	Crystal Structures, Electronic Structures, and Topological Signatures in Equiatomic TT_2X Compounds ($T = \text{Sc, Zr, Hf}$; $\text{T} = \text{Co, Pt, Pd, Ir, Rh}$; $X = \text{Al, Ga, Sn}$). <i>Journal of Physical Chemistry C</i> , 2020, 124, 7378-7385.	1.5	16
68	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, .	1.1	16
69	Anti-site-induced diverse diluted magnetism in LiMgPdSb -type CoMnTiSi alloy. <i>Scientific Reports</i> , 2017, 7, 42034.	1.6	15
70	Potential antiferromagnetic Weyl nodal line state in LiTiO_2 material. <i>Physical Review B</i> , 2021, 104, .	1.1	14
71	Mn_2C Monolayer: Hydrogenation/Oxygenation-Induced Strong Ferromagnetism and Potential Applications. <i>Journal of Physical Chemistry C</i> , 2019, 123, 16388-16392.	1.5	13
72	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.	2.3	13

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73	Structure, magnetostriction, and magnetic properties of melt-spun Fe ²⁺ Ga alloys. Journal of Applied Physics, 2006, 99, 093904.	1.1	12
74	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
75	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.	2.2	12
76	Lorentz-violating type-II Dirac fermions in full-Heusler compounds XMg ₂ Ag (X = Pr, Nd). Physical Review B, 2021, 104, .	1.2	12
77	Sixfold, fourfold, and threefold excitations in the rare-earth metal carbide R_2C_3 . Physical Review B, 2021, 104, .	1.1	12
78	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
79	Studies on binary copolymerization and glass transition temperatures of methyl methacrylate with ethyl methacrylate and <i>n</i> -butyl methacrylate. Journal of Applied Polymer Science, 2009, 114, 3939-3944.	1.3	11
80	Ti ₂ P monolayer as a high performance 2-D electrode material for ion batteries. Physical Chemistry Chemical Physics, 2020, 22, 18480-18487.	1.3	11
81	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.	1.3	11
82	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
83	Weyl Fermions in V ₁₃ Monolayer. Frontiers in Chemistry, 2020, 8, 722.	1.8	10
84	Novel topological states of nodal points and nodal rings in 2D planar octagon TiB ₄ . Nanoscale, 2021, 13, 3194-3200.	2.8	10
85	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
86	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
87	Two-dimensional [CaCl] ⁺ e ⁻ 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
88	Spectroscopic evidence for Dirac nodal surfaces and nodal rings in the superconductor NaAlSi. Physical Review B, 2022, 105, .	1.1	9
89	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
90	Multiple fermionic states with clear nontrivial surface signature in CsCl-type compound ErAs. Computational Materials Science, 2020, 183, 109815.	1.4	8

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91	Intermetallic 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.	1.5	8
92	Triple degenerate point in three dimensions: Theory and realization. <i>Physical Review B</i> , 2021, 104, .	1.1	8
93	Structure and Optical Properties of AlN Crystals Grown by Metal Nitride Vapor Phase Epitaxy with Different V/III Ratios. <i>ACS Omega</i> , 0, , .	1.6	8
94	Synthesis and characterization of emulsion copolymer of N-cyclohexylmaleimide and methyl methacrylate. <i>Journal of Applied Polymer Science</i> , 2002, 84, 1070-1075.	1.3	7
95	Glass transition temperatures of copolymers from methyl methacrylate, styrene, and acrylonitrile: binary copolymers. <i>Polymer Bulletin</i> , 2011, 67, 1311-1323.	1.7	7
96	Electronic structure and half-metallicity of the Heusler alloy Co_2ZrGe . <i>Journal of the Korean Physical Society</i> , 2014, 65, 1059-1062.	0.3	7
97	Study on enthalpy relaxation of glassy polystyrene using a structure-dependent Kohlrausch stretch exponent combined with coupling model. <i>European Physical Journal E</i> , 2014, 37, 20.	0.7	7
98	Surface Magnetism in Pristine $\sqrt{3}\times\sqrt{3}$ Rhombohedral Boron and Intersurface Exchange Coupling Mechanism of Boron Icosahedra. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 6812-6817.	2.1	5
99	Influence of nitrogen flow ratio on properties of c-axis oriented AlN films grown by RF magnetron sputtering. <i>Applied Physics A: Materials Science and Processing</i> , 2021, 127, 1.	1.1	5
100	Type-II Weyl fermion induced hydrogen adsorption in two-dimensional electride $[\text{Ca}_{2\text{N}}]^{+}\text{Ae}^{-}$. <i>Journal of Materials Chemistry A</i> , 0, , .	5.2	5
101	Copolymerization of styrene with N-phenyl maleimide in the presence of montmorillonite. <i>Journal of Applied Polymer Science</i> , 2005, 98, 1932-1937.	1.3	4
102	$\text{TiO}_2/\text{SiO}_2$ composite nanoparticles containing hindered amine light stabilizers encapsulated by MMA/PMPM copolymers. <i>Iranian Polymer Journal (English Edition)</i> , 2017, 26, 785-795.	1.3	4
103	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.	1.2	4
104	Synthesis of LC p-Biphenyl di{4-[2-(2,3-epoxypropyl)ethoxy] benzoate} and Curing Kinetics with Succinic Anhydride. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2007, 57, 154-164.	1.8	3
105	Coupled Magnetic and Structural Transitions in Fe-Doped MnNiSi Compounds. <i>IEEE Transactions on Magnetics</i> , 2015, 51, 1-4.	1.2	3
106	Electronic Structures, Magnetic Properties and Half-Metallicity of Heusler Compounds Hf_2VZ (Z = Ga, Tj). <i>ETQq0 0 0 rgBT /Overlock 10 T Magnetism</i> , 2018, 31, 3063-3074.	0.8	3
107	Investigations of the photoelectrochemical properties of different contents In of $\text{In}_x\text{Ga}_{1-x}\text{N}$ in CO_2 reduction. <i>Research on Chemical Intermediates</i> , 2021, 47, 4825-4835.	1.3	3
108	Two-dimensional auxetic pentagonal materials as water splitting photocatalysts with excellent performances. <i>Journal of Materials Science</i> , 2022, 57, 7667-7679.	1.7	3

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109	Spin-polarized sextuple excitations in ferromagnetic materials. <i>Physical Review B</i> , 2022, 105, .	1.1	3
110	Synthesize and characterization of styrene-N-phenyl maleimide/montmorillonite nanocomposites prepared through emulsion polymerization. <i>Journal of Applied Polymer Science</i> , 2005, 98, 1010-1015.	1.3	2
111	Palladium oxide: an excellent topological electronic material with 0-D and 1-D band crossings and definite nontrivial surface states. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 18447-18453.	1.3	2
112	Metal-insulator transition and possible superconductivity in $\text{Pb}_{2.2}\text{Cu}_{0.8}\text{Sr}_{3.1}\text{La}_{1.5}\text{Cu}_{1.5}\text{O}_y$ with hexagonal structure. <i>Materials Research Innovations</i> , 2000, 3, 212-217.	1.0	1
113	Morphology and thermal properties of liquid crystal pPAEB/n propyl methacrylate copolymers. <i>Journal of Applied Polymer Science</i> , 2008, 108, 1223-1228.	1.3	1
114	Electronic structure and possible martensitic transformation in Ni_2FeIn alloy. <i>Materials Science-Poland</i> , 2014, 32, 396-401.	0.4	1
115	The Magnetic Properties of Closely Spaced Three-Dimensional Nanomagnet Array. <i>Journal of Nanomaterials</i> , 2015, 2015, 1-6.	1.5	1
116	The Synthesis and Martensitic Transformation of the $\text{Co}_2\text{TiSb}_{1-x}\text{Sn}_x$ ($x = 0, 0.25, 0.5$) Heusler Alloys. <i>Journal of Superconductivity and Novel Magnetism</i> , 2016, 29, 995-1000.	0.8	1
117	A Two Time Scale Relaxation Model and Its Application to Enthalpy Relaxation of Glassy Polystyrene. <i>Polymer Science - Series A</i> , 2019, 61, 701-709.	0.4	1
118	High-order one-dimensional (1D) fermion in ferromagnetic RbFeF_3 . <i>Computational Materials Science</i> , 2022, 201, 110944.	1.4	1
119	Theoretical study of compounds XSb ($X = \text{La, Pr, Nd}$): Realization of inner nodal chains, nodal line frame, and Dirac points. <i>Computational Materials Science</i> , 2022, 206, 111231.	1.4	1
120	Magnetism, half-metallicity, and topological signatures in $\text{Fe}_{2-x}\text{V}_x\text{PO}_5$ ($x = 0, 0.5, 1, 1.5, 2$) materials: a potential class of advanced spintronic materials. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 20027-20036.	1.3	0
121	Identification of a New Form of Electron Coupling in the $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_8$ Superconductor by Laser-Based Angle-Resolved Photoemission Spectroscopy. <i>Peking University-World Scientific Advanced Physics Series</i> , 2018, , 239-248.	0.0	0
122	Synthesis of Weyl Semi-Metal $\text{Co}_3\text{Sn}_2\text{S}_2$ by Hydrothermal Method and Its Physical Properties. <i>Metals</i> , 2022, 12, 830.	1.0	0