

Weiwei Xie

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

110
papers

1,965
citations

21
h-index

42
g-index

133
ext. papers

2,660
ext. citations

7.5
avg. IF

5.08
L-index

#	Paper	IF	Citations
110	Crystal Defect Doping on Antiferromagnetic Topological Insulator Candidate EuMg ₂ Bi ₂ . <i>Journal of Physical Chemistry C</i> , 2022 , 126, 737-742	3.8	1
109	Spin Reorientation in Antiferromagnetic MnPdSe with an Anti-CeCoIn Structure Type.. <i>Inorganic Chemistry</i> , 2022 , 61, 3981-3988	5.1	0
108	Chemical Bonding Governs Complex Magnetism in MnPtP. <i>Inorganic Chemistry</i> , 2021 , 60, 87-96	5.1	3
107	Surface charge induced Dirac band splitting in a charge density wave material (TaSe ₄) ₂ I. <i>Physical Review Research</i> , 2021 , 3,	3.9	4
106	Superconductivity in the Endohedral Ga Cluster Compound PdGa ₅ . <i>Journal of Physical Chemistry C</i> , 2021 , 125, 11294-11299	3.8	1
105	The crystal structures and magnetic properties of TiFeSi coexisting in hexagonal and orthorhombic symmetries. <i>Journal of Alloys and Compounds</i> , 2021 , 864, 158617	5.7	1
104	Anomalous Hall effect in the distorted kagome magnets (Nd,Sm)Mn ₆ Sn ₆ . <i>Physical Review B</i> , 2021 , 103,	3.3	2
103	Decoding defect ordering from ADF-STEM images of van der Waals CrGa ₂ Te ₇ ferromagnetic crystals using the unsupervised machine learning algorithm. <i>Microscopy and Microanalysis</i> , 2021 , 27, 710-711	9.5	1
102	NbIr ₂ B ₂ and TaIr ₂ B ₂ [New Low Symmetry Noncentrosymmetric Superconductors with Strong Spin-Orbit Coupling. <i>Advanced Functional Materials</i> , 2021 , 31, 2007960	15.6	10
101	Mn-induced spin glass behavior in metallic IrSnMn. <i>Journal of Physics Condensed Matter</i> , 2021 ,	1.8	1
100	Annihilation and Control of Chiral Domain Walls with Magnetic Fields. <i>Nano Letters</i> , 2021 , 21, 1205-1212	11.5	5
99	Topological Hall effect and magnetic states in the Nowotny chimney ladder compound Cr ₁₁ Ge ₁₉ . <i>Physical Review B</i> , 2021 , 103,	3.3	1
98	Chemistry in Superconductors. <i>Chemical Reviews</i> , 2021 , 121, 2966-2991	68.1	7
97	Spin Reorientation in Antiferromagnetic Layered FePt ₅ P. <i>ACS Applied Electronic Materials</i> , 2021 , 3, 3501-3508	3.5	2
96	Magnetic and electronic structures of antiferromagnetic topological material candidate EuMg ₂ Bi ₂ . <i>Journal of Applied Physics</i> , 2021 , 129, 035106	2.5	4
95	Crystal structure and physical properties of AePd _{1-x} P _{1+x} (Ae = Ca, Sr). <i>Materials Today Communications</i> , 2020 , 25, 101284	2.5	
94	Bond-breaking induced Lifshitz transition in robust Dirac semimetal VAl. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 15517-15523	11.5	3

93	Canted Eu magnetic structure in EuMnSb ₂ . <i>Physical Review B</i> , 2020 , 101,	3.3	7
92	Superconductivity on a Bi Square Net in LiBi. <i>Chemistry of Materials</i> , 2020 , 32, 3150-3159	9.6	3
91	Enhanced anomalous Hall effect in the magnetic topological semimetal Co ₃ Sn ₂ In _x S ₂ . <i>Physical Review B</i> , 2020 , 101,	3.3	13
90	A Novel Magnetic Material by Design: Observation of Yb with Spin-1/2 in Yb PtP. <i>ACS Central Science</i> , 2020 , 6, 2023-2030	16.8	5
89	Phase-Pure Copper Vanadate (ECuV ₂ O ₆): Solution Combustion Synthesis and Characterization. <i>Chemistry of Materials</i> , 2020 , 32, 6247-6255	9.6	15
88	Evidence from transport measurements for YRh ₆ Ge ₄ being a triply degenerate nodal semimetal. <i>Physical Review B</i> , 2020 , 101,	3.3	1
87	Crystal Structure, Magnetism, and Electronic Properties of a Rare-Earth-Free Ferromagnet: MnPt ₅ As. <i>Chemistry of Materials</i> , 2020 , 32, 3922-3929	9.6	9
86	RuAl ₆ An Endohedral Aluminide Superconductor. <i>Chemistry of Materials</i> , 2020 , 32, 3805-3812	9.6	3
85	Structural distortion and incommensurate noncollinear magnetism in EuAg ₄ As ₂ . <i>Physical Review Materials</i> , 2020 , 4,	3.2	4
84	Pd-P antibonding interactions in APd ₂ P ₂ (A=Ca and Sr) superconductors. <i>Physical Review Materials</i> , 2020 , 4,	3.2	1
83	Crystal Structures, Superconducting Properties, and the Coloring Problem in ReAlSi and ReGaSi. <i>Inorganic Chemistry</i> , 2020 , 59, 17310-17319	5.1	2
82	A stretchable solid-state zinc ion battery based on a cellulose nanofiber/polyacrylamide hydrogel electrolyte and a Mg _{0.23} V ₂ O ₅ ·1.0H ₂ O cathode. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 18327-18337	13	22
81	Evidence for topological semimetallicity in a chain-compound TaSe ₃ . <i>Npj Quantum Materials</i> , 2020 , 5,	5	7
80	LiRuOCl ₂ ·10H ₂ O: crystal structure, magnetic properties and bonding interactions in ruthenium-oxo complexes. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2020 , 76, 884-891	1.8	1
79	Superconductivity in Metal-Rich Chalcogenide TaSe. <i>Inorganic Chemistry</i> , 2020 , 59, 5798-5802	5.1	2
78	Antiferromagnetic semiconductor Eu ₃ Sn ₂ P ₄ with Sn ₂ dimer and crown-wrapped Eu. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 12650-12656	7.1	1
77	Crystal structure, chemical bonding, and physical properties of layered AlrSn ₂ (A = Sr and Ba). <i>Journal of Materials Science</i> , 2019 , 54, 11127-11133	4.3	2
76	Pt-rich intermetallic APt ₈ P ₂ (A = Ca and La). <i>Journal of Alloys and Compounds</i> , 2019 , 798, 53-58	5.7	0

75	A New Magnetic Topological Quantum Material Candidate by Design. <i>ACS Central Science</i> , 2019 , 5, 900-910	10.8	32
74	Topological chiral crystals with helicoid-arc quantum states. <i>Nature</i> , 2019 , 567, 500-505	50.4	126
73	Synthesis and physical properties of the 10.6 K ferromagnet NdIr ₃ . <i>Physical Review B</i> , 2019 , 99,	3.3	3
72	Enhanced N β I temperature in EuSnP under pressure. <i>Dalton Transactions</i> , 2019 , 48, 5327-5334	4.3	3
71	Crystal growth and quantum oscillations in the topological chiral semimetal CoSi. <i>Physical Review B</i> , 2019 , 100,	3.3	21
70	Crystal structure and physical properties of a novel ternary compound La ₁₅ MoxGe ₉ . <i>Chemical Physics Letters</i> , 2019 , 730, 612-616	2.5	1
69	Pressure-Induced Large Volume Collapse, Plane-to-Chain, Insulator to Metal Transition in CaMnBi. <i>Inorganic Chemistry</i> , 2019 , 58, 8933-8937	5.1	2
68	Highly mobile carriers in a candidate of quasi-two-dimensional topological semimetal AuTe ₂ Br. <i>APL Materials</i> , 2019 , 7, 101110	5.7	4
67	Low-Dimensional Magnetic Semimetal CrAlSe. <i>Inorganic Chemistry</i> , 2019 , 58, 13960-13968	5.1	
66	Consequences of magnetic ordering in chiral Mn _{1/3} NbS ₂ . <i>Physical Review B</i> , 2019 , 100,	3.3	10
65	Structure, chromium vacancies, and magnetism in a Cr ₁₂ Te ₁₆ compound. <i>Physical Review Materials</i> , 2019 , 3,	3.2	1
64	Importance of Specific Heat Characterization when Reporting New Superconductors: An Example of Superconductivity in LiGa ₂ Rh. <i>Chemistry of Materials</i> , 2019 , 31, 2164-2173	9.6	12
63	Triangular Rare-Earth Lattice Materials RbBa R(BO) (R = Y, Gd-Yb) and Comparison to the KBa R(BO) Analogs. <i>Inorganic Chemistry</i> , 2019 , 58, 3308-3315	5.1	15
62	New Tetragonal ReGa ₅ (M) (M = Sn, Pb, Bi) Single Crystals Grown from Delicate Electrons Changing. <i>Crystals</i> , 2019 , 9, 527	2.3	0
61	Geometric and Magnetic Structures of K ₂ ReI ₆ as an Antiferromagnetic Insulator with Ferromagnetic Spin-Canting Originated from Spin-Orbit Coupling. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 1645-1652	3.8	0
60	Realization of a Type-II Nodal-Line Semimetal in MgBi. <i>Advanced Science</i> , 2019 , 6, 1800897	13.6	44
59	Ternary Bismuthide SrPtBi ₂ : Computation and Experiment in Synergism to Explore Solid-State Materials. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 5057-5063	3.8	2
58	Quantum oscillation evidence for a topological semimetal phase in ZrSnTe. <i>Physical Review B</i> , 2018 , 97,	3.3	12

57	Electron counts, structural stability, and magnetism in BaCuSn ₂ -CeNi _{1-x} Si ₂ -type YTxGe ₂ (T= Cr, Mn, Fe, Co, and Ni). <i>Journal of Alloys and Compounds</i> , 2018 , 741, 840-846	5.7	1
56	Pt-Bi Antibonding Interaction: The Key Factor for Superconductivity in Monoclinic BaPtBi. <i>Inorganic Chemistry</i> , 2018 , 57, 1698-1701	5.1	4
55	TaRhB and NbRhB: Superconductors with a chiral noncentrosymmetric crystal structure. <i>Science Advances</i> , 2018 , 4, eaar7969	14.3	46
54	A novel dual phase membrane 40 wt% Nd _{0.6} Sr _{0.4} CoO ₃ ∅0 wt% Ce _{0.9} Nd _{0.1} O ₂ ∅design, synthesis and properties. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 84-92	13	24
53	Evidence for a conducting surface ground state in high-quality single crystalline FeSi. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 8558-8562	11.5	10
52	Superconducting SrSnP with Strong SnP Antibonding Interaction: Is the Sn Atom Single or Mixed Valent?. <i>Chemistry of Materials</i> , 2018 , 30, 6005-6013	9.6	8
51	Multiple topological electronic phases in superconductor MoC. <i>Physical Review Materials</i> , 2018 , 2,	3.2	6
50	Geometrically frustrated trimer-based Mott insulator. <i>Physical Review Materials</i> , 2018 , 2,	3.2	11
49	Topological phases in the TaSe ₃ compound. <i>Physical Review B</i> , 2018 , 98,	3.3	27
48	Mn-induced Ferromagnetic Semiconducting Behavior with Linear Negative Magnetoresistance in Sr(RuMn)O Single Crystals. <i>Scientific Reports</i> , 2018 , 8, 13330	4.9	3
47	CrGaSe: A Quasi-Two-Dimensional Magnetic Semiconductor. <i>Inorganic Chemistry</i> , 2018 , 57, 14298-14303	5.1	2
46	La ₁₅ NbxGe ₉ : a superstructure of the Mn ₅ Si ₃ structure type with interstitial Nb atoms. <i>Journal of Solid State Chemistry</i> , 2018 , 265, 50-54	3.3	1
45	Electrical anisotropy and coexistence of structural transitions and superconductivity in IrTe ₂ . <i>Physical Review B</i> , 2017 , 95,	3.3	5
44	111-Type Semiconductor ReGaSi Follows 14e Rules. <i>Inorganic Chemistry</i> , 2017 , 56, 5165-5172	5.1	7
43	A tetragonal polymorph of SrMnP made under high pressure - theory and experiment in harmony. <i>Dalton Transactions</i> , 2017 , 46, 6835-6838	4.3	5
42	Direct optical detection of Weyl fermion chirality in a topological semimetal. <i>Nature Physics</i> , 2017 , 13, 842-847	16.2	184
41	Growth, Crystal Structure and Magnetic Characterization of Zn-Stabilized CePtIn ₄ . <i>Journal of the Physical Society of Japan</i> , 2017 , 86, 084710	1.5	2
40	New ∅phases in the Nb-X-Ga and Nb-X-Al systems (X = Ru, Rh, Pd, Ir, Pt, and Au). <i>Dalton Transactions</i> , 2017 , 46, 14158-14163	4.3	1

- 39 Interfacial Ring-Opening Polymerization of Amino-Acid-Derived N-Thiocarboxyanhydrides Toward Well-Defined Polypeptides. *ACS Macro Letters*, **2017**, 6, 836-840 6.6 29
- 38 CoO-Carbon@FeCoO Heterostructural Hollow Polyhedrons for the Oxygen Evolution Reaction. *ACS Applied Materials & Interfaces*, **2017**, 9, 28642-28649 9.5 51
- 37 Packing of Russian doll clusters to form a nanometer-scale CsCl-type compound in a Cr₂Nb₃N complex metallic alloy. *Journal of Materials Chemistry C*, **2017**, 5, 7215-7221 7.1 4
- 36 Superconductivity in a new intermetallic structure type based on endohedral Ta@Ir₇Ge₄ clusters. *Physical Review B*, **2017**, 95, 3.3 12
- 35 Magnetic order induces symmetry breaking in the single-crystalline orthorhombic CuMnAs semimetal. *Physical Review B*, **2017**, 96, 3.3 14
- 34 Monoclinic 122-Type BaIrTe₂ with a Channel Framework: A Structural Connection between Clathrate and Layered Compounds. *Materials*, **2017**, 10, 3.5 3
- 33 Prediction of nontrivial band topology and superconductivity in Mg₂Pb. *Physical Review Materials*, **2017**, 1, 3.2 7
- 32 Superconductivity in the Nb-Ru-Ge γ phase. *Physical Review Materials*, **2017**, 1, 3.2 2
- 31 Composite Icosahedron/Cube Endohedral Clusters in Rh₂Cd₁₅. *Inorganic Chemistry*, **2016**, 55, 7605-9 5.1 3
- 30 Crystal structure and physical properties of new Ca₂TGe₃ (T = Pd and Pt) germanides. *Journal of Solid State Chemistry*, **2016**, 243, 95-100 3.3 3
- 29 Superconductivity in a Misfit Phase That Combines the Topological Crystalline Insulator Pb_{1-x}Sn_xSe with the CDW-Bearing Transition Metal Dichalcogenide TiSe₂. *Journal of the Physical Society of Japan*, **2016**, 85, 064705 1.5 6
- 28 Superconducting properties of Rh₉In₄Sn₄ single crystals. *Physical Review B*, **2016**, 93, 3.3 4
- 27 Synthesis and Oxidation Catalysis of [Tris(oxazolonyl)borato]cobalt(II) Scorpionates. *European Journal of Inorganic Chemistry*, **2016**, 2016, 2486-2494 2.3 15
- 26 Ternary rare earth silicides RE₂M₃Si₄ (RE = Sc, Y, Lu; M = Mo, W): crystal structure, coloring and electronic properties. *Dalton Transactions*, **2016**, 45, 3771-7 4.3
- 25 The New Superconductor tP-SrPd₂Bi₂: Structural Polymorphism and Superconductivity in Intermetallics. *Inorganic Chemistry*, **2016**, 55, 3203-5 5.1 9
- 24 Influence of structural distortions on the Ir magnetism in Ba_{2-x}Sr_xYIrO₆ double perovskites. *Solid State Communications*, **2016**, 236, 37-40 1.6 19
- 23 Synthesis, Structure, and Basic Magnetic and Thermoelectric Properties of the Light Lanthanide Aurobismuthides. *Inorganic Chemistry*, **2016**, 55, 3583-8 5.1 3
- 22 Differences in Chemical Doping Matter: Superconductivity in Ti_{1-x}TaxSe₂ but Not in Ti_{1-x}NbxSe₂. *Chemistry of Materials*, **2016**, 28, 1927-1935 9.6 28

21	MoTe ₂ : A Type-II Weyl Topological Metal. <i>Physical Review Letters</i> , 2016 , 117, 056805	7.4	286
20	Structure and magnetic properties of the REAuBi ₂ (RE=La-Nd, Sm) phases. <i>Journal of Solid State Chemistry</i> , 2015 , 230, 318-324	3.3	9
19	Zr ₅ Sb ₃ Ru _x , a new superconductor in the W ₅ Si ₃ structure type. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 8235-8240	7.1	11
18	Superconductivity in Hf ₅ Sb ₃ Ru _x : Are Ru and Sb a Critical Charge-Transfer Pair for Superconductivity?. <i>Chemistry of Materials</i> , 2015 , 27, 4511-4514	9.6	11
17	Stabilization of the Ti ₃ Co ₅ B ₂ -type structure for Ti ₃ Bi _{1-x} Ru ₅ B ₂ through Si _{1-x} substitution. <i>Journal of Solid State Chemistry</i> , 2015 , 227, 92-97	3.3	1
16	New material for probing spin-orbit coupling in iridates. <i>Physical Review B</i> , 2015 , 91,	3.3	17
15	Polytypism, polymorphism, and superconductivity in TaSe _(2-x) Te _(x) . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, E1174-80	11.5	69
14	A large family of filled skutterudites stabilized by electron count. <i>Nature Communications</i> , 2015 , 6, 6489	17.4	38
13	Superconductivity in 3R-Ta _(1-x) M _(x) Se ₂ (M = W, Mo). <i>Journal of Physics Condensed Matter</i> , 2015 , 27, 365708	10.8	3
12	A new form of Ca ₃ P ₂ with a ring of Dirac nodes. <i>APL Materials</i> , 2015 , 3, 083602	5.7	244
11	Cr-Doped TiSe ₂ : A Layered Dichalcogenide Spin Glass. <i>Chemistry of Materials</i> , 2015 , 27, 6810-6817	9.6	20
10	Superconductivity versus structural phase transition in the closely related Bi ₂ Rh _{3.5} S ₂ and Bi ₂ Rh ₃ S ₂ . <i>Physical Review B</i> , 2015 , 91,	3.3	9
9	Brasses with Spontaneous Magnetization: Atom Site Preferences and Magnetism in the Fe-Zn and Fe-Pd-Zn Phase Spaces. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2015 , 641, 270-278	1.3	12
8	Endohedral gallide cluster superconductors and superconductivity in ReGa ₅ . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, E7048-54	11.5	41
7	Gold-gold bonding: the key to stabilizing the 19-electron ternary phases LnAuSb (Ln = La-Nd and Sm). <i>Journal of the American Chemical Society</i> , 2015 , 137, 1282-9	16.4	19
6	Fragment-Based Design of NbRuB as a New Metal-Rich Boride Superconductor. <i>Chemistry of Materials</i> , 2015 , 27, 1149-1152	9.6	23
5	High-Temperature Thermoelectric Properties of the Solid Solution Zintl Phase Eu ₁₁ Cd ₆ Sb ₁₂ As _x (x Chemistry of Materials, 2014 , 26, 1393-1403	9.6	30
4	New CoPd _{1-x} Brasses with Dilute Ferrimagnetism and Co ₂ Zn ₁₁ Revisited: Establishing the Synergism between Theory and Experiment. <i>Chemistry of Materials</i> , 2014 , 26, 2624-2634	9.6	15

- 3 EMn-type $\text{Co}(8+x)\text{Zn}(12-x)$ as a defect cubic Laves phase: site preferences, magnetism, and electronic structure. *Inorganic Chemistry*, **2013**, 52, 9399-408 5.1 24
- 2 Glassy magnetic ground state in layered compound MnSb_2Te_4 . *Science China Materials*, 1 7.1 2
- 1 Unusual Electrical and Magnetic Properties in Layered EuZn_2As_2 . *Advanced Quantum Technologies*, 2012 4.1 0