

Weiwei Xie

List of Publications by Year in descending order

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papers

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citations

218677

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#	ARTICLE	IF	CITATIONS
19	High-Temperature Thermoelectric Properties of the Solid Solution Zintl Phase $\text{Eu}_{1-x}\text{Cd}_x\text{Sb}_{12}$. <i>Chemistry of Materials</i> , 2019, 31, 2777-2784.	6.7	32
20	A novel dual phase membrane $40 \text{ wt}\% \text{Nd}_{0.6}\text{Sr}_{0.4}\text{CoO}_{3-\delta}$ / $60 \text{ wt}\% \text{Ce}_{0.9}\text{Nd}_{0.1}\text{O}_{2-\delta}$: design, synthesis and properties. <i>Journal of Materials Chemistry A</i> , 2018, 6, 84-92.	10.3	32
21	Introduction: Quantum Materials. <i>Chemical Reviews</i> , 2021, 121, 2777-2779.	47.7	32
22	Enhanced anomalous Hall effect in the magnetic topological semimetal $\text{Co}_3\text{Sn}_2\text{S}_5$. <i>Physical Review B</i> , 2020, 101, .	3.2	31
23	Gold-Gold Bonding: The Key to Stabilizing the 19-Electron Ternary Phases LnAuSb ($\text{Ln} = \text{Y}$). <i>Chemistry of Materials</i> , 2020, 32, 6247-6255.	13.7	30
24	Influence of structural distortions on the Ir magnetism in $\text{Ba}_{2-x}\text{Sr}_x\text{YrO}_6$ double perovskites. <i>Solid State Communications</i> , 2016, 236, 37-40.	1.9	29
25	Fragment-Based Design of NbRuB as a New Metal-Rich Boride Superconductor. <i>Chemistry of Materials</i> , 2015, 27, 1149-1152.	6.7	27
26	Phase-Pure Copper Vanadate ($\text{Cu}_2\text{V}_6\text{O}_{20}$): Solution Combustion Synthesis and Characterization. <i>Chemistry of Materials</i> , 2020, 32, 6247-6255.	6.7	27
27	Chemistry in Superconductors. <i>Chemical Reviews</i> , 2021, 121, 2966-2991.	47.7	27
28	Triangular Rare-Earth Lattice Materials $\text{RbBa}_2\text{R}(\text{BO}_3)_2$ ($\text{R} = \text{Y}$). <i>Chemistry of Materials</i> , 2019, 31, 3308-3315.	4.0	25
29	Cr-Doped TiSe_2 : A Layered Dichalcogenide Spin Glass. <i>Chemistry of Materials</i> , 2015, 27, 6810-6817.	6.7	24
30	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.	7.1	24
31	Canted Eu magnetic structure in EuMnSb . <i>Physical Review B</i> , 2020, 101, .	3.2	24
32	New CoPdZn -Brasses with Dilute Ferrimagnetism and $\text{Co}_2\text{Zn}_{11}$ Revisited: Establishing the Synergism between Theory and Experiment. <i>Chemistry of Materials</i> , 2014, 26, 2624-2634.	6.7	23
33	Magnetic order induces symmetry breaking in the single-crystalline orthorhombic CuMnAs semimetal. <i>Physical Review B</i> , 2017, 96, .	3.2	22
34	Quantum oscillation evidence for a topological semimetal phase in ZrSnTe . <i>Physical Review B</i> , 2018, 97, .	3.2	22
35	Evidence for topological semimetallicity in a chain-compound TaSe_3 . <i>Npj Quantum Materials</i> , 2020, 5, .	5.2	20
36	PdZn -Brasses with Spontaneous Magnetization: Atom Site Preferences and Magnetism in the FeZn and FePdZn Phase Spaces. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2015, 641, 270-278.	1.2	19

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37	New material for probing spin-orbit coupling in iridates. <i>Physical Review B</i> , 2015, 91, .	3.2	19
38	Magnetic and electronic structures of antiferromagnetic topological material candidate EuMg ₂ Bi ₂ . <i>Journal of Applied Physics</i> , 2021, 129, .	2.5	19
39	Structure and magnetic properties of the REAuBi ₂ (RE=La, Nd, Sm) phases. <i>Journal of Solid State Chemistry</i> , 2015, 230, 318-324.	2.9	18
40	Synthesis and Oxidation Catalysis of [Tris(oxazolonyl)borato]cobalt(II) Scorpionates. <i>European Journal of Inorganic Chemistry</i> , 2016, 2016, 2486-2494.	2.0	18
41	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.	6.7	18
42	Nb _{1-x} Bi _{2x} and Ta _{1-x} Bi _{2x} New Low Symmetry Noncentrosymmetric Superconductors with Strong Spin-Orbit Coupling. <i>Advanced Functional Materials</i> , 2021, 31, 2007960.	14.9	18
43	Superconductivity in Hf ₅ Sb ₃ Ru: Are Ru and Sb a Critical Charge-Transfer Pair for Superconductivity?. <i>Chemistry of Materials</i> , 2015, 27, 4511-4514.	6.7	17
44	Anomalous Hall effect in the distorted kagome magnets (Nd,Sm)Mn ₆ Sn ₆ . <i>Physical Review B</i> , 2021, 103, 040401.	3.2	17
45	Superconductivity versus structural phase transition in the closely related Bi ₂ S ₂ and Bi ₂ S ₃ . <i>Chemistry of Materials</i> , 2019, 31, 2164-2173.	3.2	16
46	Superconductivity in a new 3d intermetallic structure type based on endohedrals: Ta ₇ Ir ₄ Mo ₂ . <i>Chemistry of Materials</i> , 2020, 32, 3922-3929.	3.2	16
47	Crystal Structure, Magnetism, and Electronic Properties of a Rare-Earth-Free Ferromagnet: MnPt ₅ As. <i>Chemistry of Materials</i> , 2020, 32, 3922-3929.	6.7	15
48	Annihilation and Control of Chiral Domain Walls with Magnetic Fields. <i>Nano Letters</i> , 2021, 21, 1205-1212.	9.1	15
49	Geometrically frustrated trimer-based Mott insulator. <i>Physical Review Materials</i> , 2018, 2, .	2.4	15
50	Unusual Electrical and Magnetic Properties in Layered EuZn ₂ As ₂ . <i>Advanced Quantum Technologies</i> , 2022, 5, .	3.9	15
51	LiYbSe ₂ : Frustrated Magnetism in the Pyrochlore Lattice. <i>Journal of the American Chemical Society</i> , 2022, 144, 11933-11937.	13.7	15
52	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.	5.5	13
53	Surface charge induced Dirac band splitting in a charge density wave material Ir ₃ Te ₂ . <i>Physical Review Research</i> , 2021, 3, .	3.6	13
54	Electrical anisotropy and coexistence of structural transitions and superconductivity in Ir ₂ Te ₂ . <i>Physical Review B</i> , 2017, 95, .	3.2	12

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55	Glassy magnetic ground state in layered compound MnSb ₂ Te ₄ . Science China Materials, 2022, 65, 477-485.	6.3	12
56	Evidence of magnetism-induced topological protection in the axion insulator candidate EuSn ₂ P ₂ . Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	12
57	The New Superconductor $\text{Pt}_{1-x}\text{SrPd}_2\text{Bi}_2$: Structural Polymorphism and Superconductivity in Intermetallics. Inorganic Chemistry, 2016, 55, 3203-3205.	4.0	11
58	Superconducting SrSnP with Strong Sn \hat{c} P Antibonding Interaction: Is the Sn Atom Single or Mixed Valent?. Chemistry of Materials, 2018, 30, 6005-6013.	6.7	11
59	Superconductivity on a Bi Square Net in LiBi. Chemistry of Materials, 2020, 32, 3150-3159.	6.7	11
60	111-Type Semiconductor ReGaSi Follows 14 \hat{c} Rules. Inorganic Chemistry, 2017, 56, 5165-5172.	4.0	10
61	RuAl ₆ \hat{c} An Endohedral Aluminide Superconductor. Chemistry of Materials, 2020, 32, 3805-3812.	6.7	10
62	Multiple topological electronic phases in superconductor MoC. Physical Review Materials, 2018, 2, .	2.4	10
63	Structural distortion and incommensurate noncollinear magnetism in EuAg_4Mn_4 . Physical Review Materials, 2020, 4, .	10.0	10
64	Superconductivity in a Misfit Phase That Combines the Topological Crystalline Insulator Pb $1\hat{c}$ SnxSe with the CDW-Bearing Transition Metal Dichalcogenide TiSe ₂ . Journal of the Physical Society of Japan, 2016, 85, 064705.	1.6	9
65	Chemical Bonding Governs Complex Magnetism in MnPt ₅ P. Inorganic Chemistry, 2021, 60, 87-96.	4.0	9
66	Drastic enhancement of magnetic critical temperature and amorphization in topological magnet EuSn ₂ P ₂ under pressure. Npj Quantum Materials, 2022, 7, .	5.2	9
67	Pressure-Induced Large Volume Collapse, Plane-to-Chain, Insulator to Metal Transition in CaMn ₂ Bi ₂ . Inorganic Chemistry, 2019, 58, 8933-8937.	4.0	8
68	Bond-breaking induced Lifshitz transition in robust Dirac semimetal VAl ₃ . Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 15517-15523.	7.1	8
69	A Novel Magnetic Material by Design: Observation of Yb ³⁺ with Spin-1/2 in Yb ₃ Pt ₅ P. ACS Central Science, 2020, 6, 2023-2030.	11.3	8
70	Superconductivity in Metal-Rich Chalcogenide Ta ₂ Se. Inorganic Chemistry, 2020, 59, 5798-5802.	4.0	8
71	Spin Reorientation in Antiferromagnetic Layered FePt ₅ P. ACS Applied Electronic Materials, 2021, 3, 3501-3508.	4.3	8
72	Prediction of nontrivial band topology and superconductivity in Mg_2Pb . Physical Review Materials, 2017, 1, .	2.4	8

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73	Multiple mobile excitons manifested as sidebands in quasi-one-dimensional metallic TaSe ₃ . <i>Nature Materials</i> , 2022, 21, 423-429.	27.5	8
74	Superconducting properties of RhS_4 single crystals. <i>Physical Review B</i> , 2016, 93, 100501.	3.2	7
75	$A_2Pd_2P_2$ (Tj ETQq1 1 0.784314 rgBT /OV)	2.4	7
76	Composite Icosahedron/Cube Endohedral Clusters in Rh ₂ Cd ₁₅ . <i>Inorganic Chemistry</i> , 2016, 55, 7605-7609.	4.0	6
77	Crystal structure and physical properties of new Ca ₂ TGe ₃ (T = Pd and Pt) germanides. <i>Journal of Solid State Chemistry</i> , 2016, 243, 95-100.	2.9	6
78	A tetragonal polymorph of SrMn ₂ P ₂ made under high pressure – theory and experiment in harmony. <i>Dalton Transactions</i> , 2017, 46, 6835-6838.	3.3	6
79	Packing of Russian doll clusters to form a nanometer-scale CsCl-type compound in a CrZnSn complex metallic alloy. <i>Journal of Materials Chemistry C</i> , 2017, 5, 7215-7221.	5.5	6
80	PtBi Antibonding Interaction: The Key Factor for Superconductivity in Monoclinic BaPt ₂ Bi ₂ . <i>Inorganic Chemistry</i> , 2018, 57, 1698-1701.	4.0	6
81	Highly mobile carriers in a candidate of quasi-two-dimensional topological semimetal AuTe ₂ Br. <i>APL Materials</i> , 2019, 7, 101110.	5.1	6
82	Structure, chromium vacancies, and magnetism in a Cr_2 compound	2.1	6
83	Crystal Defect Doping on Antiferromagnetic Topological Insulator Candidate EuMg ₂ Bi ₂ . <i>Journal of Physical Chemistry C</i> , 2022, 126, 737-742.	3.1	6
84	Synthesis, Structure, and Basic Magnetic and Thermoelectric Properties of the Light Lanthanide Aurobismuthides. <i>Inorganic Chemistry</i> , 2016, 55, 3583-3588.	4.0	5
85	Antiferromagnetic semiconductor Eu ₃ Sn ₂ P ₄ with Sn-Sn dimer and crown-wrapped Eu. <i>Journal of Materials Chemistry C</i> , 2019, 7, 12650-12656.	5.5	5
86	Superconductivity in the Endohedral Ga Cluster Compound PdGa ₅ . <i>Journal of Physical Chemistry C</i> , 2021, 125, 11294-11299.	3.1	5
87	Crystal Structures, Superconducting Properties, and the Coloring Problem in ReAlSi and ReGaSi. <i>Inorganic Chemistry</i> , 2020, 59, 17310-17319.	4.0	5
88	Stabilization of the Ti ₃ Co ₅ B ₂ -type structure for Ti ₃ Si Ru ₅ B ₂ through Si-Ti substitution. <i>Journal of Solid State Chemistry</i> , 2015, 227, 92-97.	2.9	4
89	Superconductivity in 3R-Ta _{1-x} M _x Se ₂ (M = Ru, Rh, Ir)	1.8	4
90	Monoclinic 122-Type Ba ₂ Ge ₂ with a Channel Framework: A Structural Connection between Clathrate and Layered Compounds. <i>Materials</i> , 2017, 10, 818.	2.9	4

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91	Ternary Bismuthide SrPtBi ₂ : Computation and Experiment in Synergism to Explore Solid-State Materials. Journal of Physical Chemistry C, 2018, 122, 5057-5063.	3.1	4
92	Electron counts, structural stability, and magnetism in BaCuSn ₂ -CeNi ₁ -Si ₂ -type YT Ge ₂ (T= Cr, Mn, Fe,) Tj ETQq0 0,0 rgBT /Overlock 10	3.5	4
93	Multiple topologically nontrivial bands in noncentrosymmetric YSn ₂ . Physical Review B, 2018, 98, .	3.2	4
94	Synthesis and physical properties of the 10.6 K ferromagnet $\text{Nd}_{1-x}\text{Mn}_x\text{Ge}_2$. Physical Review B, 2019, 99, .	3.2	4
95	Evidence from transport measurements for YRh ₆ Ge ₄ being a triply degenerate nodal semimetal. Physical Review B, 2020, 101, .	3.2	4
96	The crystal structures and magnetic properties of TiFeSi coexisting in hexagonal and orthorhombic symmetries. Journal of Alloys and Compounds, 2021, 864, 158617.	5.5	4
97	Antiferromagnetic to Ferromagnetic Coupling Crossover in Hybrid Nickel Chain Perovskites. Inorganic Chemistry, 2022, 61, 10486-10492.	4.0	4
98	Mn-induced Ferromagnetic Semiconducting Behavior with Linear Negative Magnetoresistance in Sr ₄ (Ru _{1-x} Mnx) ₃ O ₁₀ Single Crystals. Scientific Reports, 2018, 8, 13330.	3.3	3
99	Cr _{2.37} Ga ₃ Se ₈ : A Quasi-Two-Dimensional Magnetic Semiconductor. Inorganic Chemistry, 2018, 57, 14298-14303.	4.0	3
100	Crystal structure, chemical bonding, and physical properties of layered AlR ₂ Sn ₂ (R= Sr and Ba). Journal of Materials Science, 2019, 54, 11127-11133.	3.7	3
101	Enhanced Néel temperature in EuSnP under pressure. Dalton Transactions, 2019, 48, 5327-5334.	3.3	3
102	Topological Hall effect and magnetic states in the Nowotny chimney ladder compound Cr ₁₁ Ge ₁₉ . Physical Review B, 2021, 103, .	3.2	3
103	Growth, Crystal Structure and Magnetic Characterization of Zn-Stabilized CePtIn ₄ . Journal of the Physical Society of Japan, 2017, 86, 084710.	1.6	2
104	La ₁₅ NbxGe ₉ : a superstructure of the Mn ₅ Si ₃ structure type with interstitial Nb atoms. Journal of Solid State Chemistry, 2018, 265, 50-54.	2.9	2
105	Pt-rich intermetallic APt ₈ P ₂ (A= Ca and La). Journal of Alloys and Compounds, 2019, 798, 53-58.	5.5	2
106	Quasi-two-dimensional relativistic fermions probed by de Haas-van Alphen quantum oscillations in LuSn ₂ . Physical Review B, 2021, 103, .	3.2	2
107	Superconductivity in the Nb-Ru-Ge f phase. Physical Review Materials, 2017, 1, .	2.4	2
108	Spin Reorientation in Antiferromagnetic MnPd ₅ Se with an Anti-CeCoIn ₅ Structure Type. Inorganic Chemistry, 2022, 61, 3981-3988.	4.0	2

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109	Fe ₃ X ₂ InSn ₂ O ₆ (X = O, 0.25, or 0.5): A Family of Corundum Derivatives with Sn-Induced Polarization and Above Room Temperature Antiferromagnetic Ordering. <i>Chemistry of Materials</i> , 2022, 34, 5020-5029.	6.7	2
110	New Jf-phases in the NbX ₂ Ga and NbX ₂ Al systems (X = Ru, Rh, Pd, Ir, Pt, and Au). <i>Dalton Transactions</i> , 2017, 46, 14158-14163.	3.3	1
111	Structure-Property Correlations and Superconductivity in Spinel. , 2017, , .		1
112	Crystal structure and physical properties of a novel ternary compound La ₁₅ Mo Ge ₉ . <i>Chemical Physics Letters</i> , 2019, 730, 612-616.	2.6	1
113	New Tetragonal ReGa ₅ (M) (M = Sn, Pb, Bi) Single Crystals Grown from Delicate Electrons Changing. <i>Crystals</i> , 2019, 9, 527.	2.2	1
114	Geometric and Magnetic Structures of K ₂ Re 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.	3.1	1
115	Li ₄ Ru ₂ OCl ₁₀ ·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.	1.1	1
116	Mn-induced spin glass behavior in metallic Ir ₃ Sn ₇ xMnx. <i>Journal of Physics Condensed Matter</i> , 2021, 33, 135701.	1.8	1
117	High-pressure insulating phase of Mo ₄ O ₁₁ with collapsed volume. <i>Physical Review B</i> , 2021, 104, .	3.2	1
118	The non-centrosymmetric layered compounds IrTe ₂ I and RhTe ₂ I. <i>Dalton Transactions</i> , 2022, 51, 8688-8694.	3.3	1
119	Ternary rare earth silicides RE ₂ M ₃ Si ₄ (RE = Sc, Y, Lu; M = Mo, W): crystal structure, coloring and electronic properties. <i>Dalton Transactions</i> , 2016, 45, 3771-3777.	3.3	0
120	Low-Dimensional Magnetic Semimetal Cr _{0.65} Al _{1.35} Se ₃ . <i>Inorganic Chemistry</i> , 2019, 58, 13960-13968.	4.0	0
121	Crystal structure and physical properties of AePd ₁₋₁ P ₁₊ (Ae = Ca, Sr). <i>Materials Today Communications</i> , 2020, 25, 101284.	1.9	0
122	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.	0.4	0
123	Theoretical investigations of hydrogen absorption in the A15 intermetallics Ti ₃ Sb and Ti ₃ Ir. <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , 2021, 76, 819-826.	0.7	0
124	Eu ₂ Mg ₃ Bi ₄ : Competing Magnetic Orders on a Buckled Honeycomb Lattice. <i>Chemistry of Materials</i> , 2022, 34, 3902-3909.	6.7	0
125	Eu ₅ Al ₃ Sb ₆ : Al ₄ Tetrahedra Embedded in a Rock-Salt-Like Structure. <i>Chemistry of Materials</i> , 2022, 34, 5009-5019.	6.7	0