

# Weiwei Xie

## List of Publications by Year in descending order

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125  
papers

3,062  
citations

218381

26  
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182168

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g-index

133  
all docs

133  
docs citations

133  
times ranked

4328  
citing authors



#	ARTICLE	IF	CITATIONS
19	High-Temperature Thermoelectric Properties of the Solid Solution Zintl Phase $\text{Eu}_{1-x}\text{Cd}_x\text{Sb}_{12}$ ( $x < 1$ ). <i>Journal of Applied Physics</i> , 2018, 124, 174301.	3.2	32
20	A novel dual phase membrane $40 \text{ wt\% Nd}_{0.6}\text{Sr}_{0.4}\text{CoO}_{3-\delta}$ / $60 \text{ wt\% Ce}_{0.9}\text{Nd}_{0.1}\text{O}_{2-\delta}$ : design, synthesis and properties. <i>Journal of Materials Chemistry A</i> , 2018, 6, 84-92.	5.2	32
21	Introduction: Quantum Materials. <i>Chemical Reviews</i> , 2021, 121, 2777-2779.	23.0	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 $\text{LnAuSb}$ ( $\text{Ln} = \text{Y}$ ). <i>Journal of Applied Physics</i> , 2018, 124, 174301.	6.6	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.	0.9	29
25	Fragment-Based Design of $\text{NbRuB}$ as a New Metal-Rich Boride Superconductor. <i>Chemistry of Materials</i> , 2015, 27, 1149-1152.	3.2	27
26	Phase-Pure Copper Vanadate ( $\text{Cu}_2\text{O}_6$ ): Solution Combustion Synthesis and Characterization. <i>Chemistry of Materials</i> , 2020, 32, 6247-6255.	3.2	27
27	Chemistry in Superconductors. <i>Chemical Reviews</i> , 2021, 121, 2966-2991.	23.0	27
28	Triangular Rare-Earth Lattice Materials $\text{RbBa}_2\text{R}(\text{BO}_3)_2$ ( $\text{R} = \text{Y}$ ). <i>Journal of Applied Physics</i> , 2019, 125, 174301.	1.9	25
29	Cr-Doped $\text{TiSe}_2$ : A Layered Dichalcogenide Spin Glass. <i>Chemistry of Materials</i> , 2015, 27, 6810-6817.	3.2	24
30	Evidence for a conducting surface ground state in high-quality single crystalline $\text{FeSi}$ . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 8558-8562.	3.3	24
31	Canted Eu magnetic structure in $\text{EuMnSb}$ . <i>Physical Review B</i> , 2020, 101, .	1.1	24
32	New $\text{CoPdZn}$ -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.	3.2	23
33	Magnetic order induces symmetry breaking in the single-crystalline orthorhombic $\text{CuMnAs}$ semimetal. <i>Physical Review B</i> , 2017, 96, .	1.1	22
34	Quantum oscillation evidence for a topological semimetal phase in $\text{ZrSnTe}$ . <i>Physical Review B</i> , 2018, 97, .	1.1	22
35	Evidence for topological semimetallicity in a chain-compound $\text{TaSe}_3$ . <i>Npj Quantum Materials</i> , 2020, 5, .	1.8	20
36	$\text{PdZn}$ -Brasses with Spontaneous Magnetization: Atom Site Preferences and Magnetism in the $\text{FeZn}$ and $\text{FePdZn}$ Phase Spaces. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2015, 641, 270-278.	0.6	19

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37	New material for probing spin-orbit coupling in iridates. <i>Physical Review B</i> , 2015, 91, .	1.1	19
38	Magnetic and electronic structures of antiferromagnetic topological material candidate EuMg <sub>2</sub> Bi <sub>2</sub> . <i>Journal of Applied Physics</i> , 2021, 129, .	1.1	19
39	Structure and magnetic properties of the REAuBi <sub>2</sub> (RE=La, Nd, Sm) phases. <i>Journal of Solid State Chemistry</i> , 2015, 230, 318-324.	1.4	18
40	Synthesis and Oxidation Catalysis of [Tris(oxazolonyl)borato]cobalt(II) Scorpionates. <i>European Journal of Inorganic Chemistry</i> , 2016, 2016, 2486-2494.	1.0	18
41	Importance of Specific Heat Characterization when Reporting New Superconductors: An Example of Superconductivity in LiGa <sub>2</sub> Rh. <i>Chemistry of Materials</i> , 2019, 31, 2164-2173.	3.2	18
42	Nb <sub>1-x</sub> Bi <sub>2x</sub> and Ta <sub>1-x</sub> Bi <sub>2x</sub> New Low Symmetry Noncentrosymmetric Superconductors with Strong Spin-Orbit Coupling. <i>Advanced Functional Materials</i> , 2021, 31, 2007960.	7.8	18
43	Superconductivity in Hf <sub>5</sub> Sb <sub>3</sub> Ru: Are Ru and Sb a Critical Charge-Transfer Pair for Superconductivity?. <i>Chemistry of Materials</i> , 2015, 27, 4511-4514.	3.2	17
44	Anomalous Hall effect in the distorted kagome magnets (Nd,Sm)Mn <sub>6</sub> Sn <sub>6</sub> . <i>Physical Review B</i> , 2021, 103, 040401.	1.1	17
45	Superconductivity versus structural phase transition in the closely related Bi <sub>2</sub> S <sub>2</sub> and Bi <sub>2</sub> S <sub>3</sub> . <i>Chemistry of Materials</i> , 2019, 31, 2164-2173.	1.1	16
46	Superconductivity in a new 3d intermetallic structure type based on endohedrals, Ta <sub>7</sub> Ir <sub>4</sub> . <i>Chemistry of Materials</i> , 2020, 32, 3922-3929.	1.1	16
47	Crystal Structure, Magnetism, and Electronic Properties of a Rare-Earth-Free Ferromagnet: MnPt <sub>5</sub> As. <i>Chemistry of Materials</i> , 2020, 32, 3922-3929.	3.2	15
48	Annihilation and Control of Chiral Domain Walls with Magnetic Fields. <i>Nano Letters</i> , 2021, 21, 1205-1212.	4.5	15
49	Geometrically frustrated trimer-based Mott insulator. <i>Physical Review Materials</i> , 2018, 2, .	0.9	15
50	Unusual Electrical and Magnetic Properties in Layered EuZn <sub>2</sub> As <sub>2</sub> . <i>Advanced Quantum Technologies</i> , 2022, 5, .	1.8	15
51	LiYbSe <sub>2</sub> : Frustrated Magnetism in the Pyrochlore Lattice. <i>Journal of the American Chemical Society</i> , 2022, 144, 11933-11937.	6.6	15
52	Zr <sub>5</sub> Sb <sub>3</sub> Ru <sub>x</sub> , a new superconductor in the W <sub>5</sub> Si <sub>3</sub> structure type. <i>Journal of Materials Chemistry C</i> , 2015, 3, 8235-8240.	2.7	13
53	Surface charge induced Dirac band splitting in a charge density wave material Ir <sub>3</sub> Te <sub>2</sub> . <i>Physical Review Research</i> , 2021, 3, .	1.1	13
54	Electrical anisotropy and coexistence of structural transitions and superconductivity in Ir <sub>2</sub> Te <sub>2</sub> . <i>Physical Review B</i> , 2017, 95, .	1.1	12

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55	Glassy magnetic ground state in layered compound MnSb <sub>2</sub> Te <sub>4</sub> . Science China Materials, 2022, 65, 477-485.	3.5	12
56	Evidence of magnetism-induced topological protection in the axion insulator candidate EuSn <sub>2</sub> P <sub>2</sub> . Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	3.3	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.	1.9	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.	3.2	11
59	Superconductivity on a Bi Square Net in LiBi. Chemistry of Materials, 2020, 32, 3150-3159.	3.2	11
60	111-Type Semiconductor ReGaSi Follows 14 $\hat{c}$ Rules. Inorganic Chemistry, 2017, 56, 5165-5172.	1.9	10
61	RuAl <sub>6</sub> $\hat{c}$ An Endohedral Aluminide Superconductor. Chemistry of Materials, 2020, 32, 3805-3812.	3.2	10
62	Multiple topological electronic phases in superconductor MoC. Physical Review Materials, 2018, 2, .	0.9	10
63	Structural distortion and incommensurate noncollinear magnetism in $\text{EuAg}_4\text{Mn}_4$ . Physical Review Materials, 2020, 4, .	0.9	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 <sub>2</sub> . Journal of the Physical Society of Japan, 2016, 85, 064705.	0.7	9
65	Chemical Bonding Governs Complex Magnetism in MnPt <sub>5</sub> P. Inorganic Chemistry, 2021, 60, 87-96.	1.9	9
66	Drastic enhancement of magnetic critical temperature and amorphization in topological magnet EuSn <sub>2</sub> P <sub>2</sub> under pressure. Npj Quantum Materials, 2022, 7, .	1.8	9
67	Pressure-Induced Large Volume Collapse, Plane-to-Chain, Insulator to Metal Transition in CaMn <sub>2</sub> Bi <sub>2</sub> . Inorganic Chemistry, 2019, 58, 8933-8937.	1.9	8
68	Bond-breaking induced Lifshitz transition in robust Dirac semimetal VAl <sub>3</sub> . Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 15517-15523.	3.3	8
69	A Novel Magnetic Material by Design: Observation of Yb <sup>3+</sup> with Spin-1/2 in Yb <sub>3</sub> Pt <sub>5</sub> P. ACS Central Science, 2020, 6, 2023-2030.	5.3	8
70	Superconductivity in Metal-Rich Chalcogenide Ta <sub>2</sub> Se. Inorganic Chemistry, 2020, 59, 5798-5802.	1.9	8
71	Spin Reorientation in Antiferromagnetic Layered FePt <sub>5</sub> P. ACS Applied Electronic Materials, 2021, 3, 3501-3508.	2.0	8
72	Prediction of nontrivial band topology and superconductivity in $\text{Mg}_2\text{Pb}$ . Physical Review Materials, 2017, 1, .	0.9	8

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73	Multiple mobile excitons manifested as sidebands in quasi-one-dimensional metallic TaSe <sub>3</sub> . Nature Materials, 2022, 21, 423-429.	13.3	8
74	Superconducting properties of $S_{\text{Rh}}\text{P}_4$ crystals. Physical Review B, 2016, 93, 080501.	1.1	7
75	$A_{\text{Pd}}\text{P}_2$ () Tj ETQq1 1 0.784314 rgBT /O	0.9	7
76	Composite Icosahedron/Cube Endohedral Clusters in Rh <sub>2</sub> Cd <sub>15</sub> . Inorganic Chemistry, 2016, 55, 7605-7609.	1.9	6
77	Crystal structure and physical properties of new Ca <sub>2</sub> TGe <sub>3</sub> (T = Pd and Pt) germanides. Journal of Solid State Chemistry, 2016, 243, 95-100.	1.4	6
78	A tetragonal polymorph of SrMn <sub>2</sub> P <sub>2</sub> made under high pressure – theory and experiment in harmony. Dalton Transactions, 2017, 46, 6835-6838.	1.6	6
79	Packing of Russian doll clusters to form a nanometer-scale CsCl-type compound in a CrZnSn complex metallic alloy. Journal of Materials Chemistry C, 2017, 5, 7215-7221.	2.7	6
80	PtBi Antibonding Interaction: The Key Factor for Superconductivity in Monoclinic BaPt <sub>2</sub> Bi <sub>2</sub> . Inorganic Chemistry, 2018, 57, 1698-1701.	1.9	6
81	Highly mobile carriers in a candidate of quasi-two-dimensional topological semimetal AuTe <sub>2</sub> Br. APL Materials, 2019, 7, 101110.	2.2	6
82	Structure, chromium vacancies, and magnetism in a $C_{\text{r}}\text{Mg}_{12}\text{M}_2\text{O}_{16}$ compound	0.9	6
83	Crystal Defect Doping on Antiferromagnetic Topological Insulator Candidate EuMg <sub>2</sub> Bi <sub>2</sub> . Journal of Physical Chemistry C, 2022, 126, 737-742.	1.5	6
84	Synthesis, Structure, and Basic Magnetic and Thermoelectric Properties of the Light Lanthanide Aurobismuthides. Inorganic Chemistry, 2016, 55, 3583-3588.	1.9	5
85	Antiferromagnetic semiconductor Eu <sub>3</sub> Sn <sub>2</sub> P <sub>4</sub> with SnSn dimer and crown-wrapped Eu. Journal of Materials Chemistry C, 2019, 7, 12650-12656.	2.7	5
86	Superconductivity in the Endohedral Ga Cluster Compound PdGa <sub>5</sub> . Journal of Physical Chemistry C, 2021, 125, 11294-11299.	1.5	5
87	Crystal Structures, Superconducting Properties, and the Coloring Problem in ReAlSi and ReGaSi. Inorganic Chemistry, 2020, 59, 17310-17319.	1.9	5
88	Stabilization of the Ti <sub>3</sub> Co <sub>5</sub> B <sub>2</sub> -type structure for Ti <sub>3</sub> Si Ru <sub>5</sub> B <sub>2</sub> through SiTi substitution. Journal of Solid State Chemistry, 2015, 227, 92-97.	1.4	4
89	Superconductivity in 3R-TaM <sub>2</sub> Se <sub>2</sub> (M = Ru, Rh) Tj ETQq1 1 0.784314 rgBT /O	0.7	4
90	Monoclinic 122-Type Ba <sub>2</sub> Ge <sub>2</sub> with a Channel Framework: A Structural Connection between Clathrate and Layered Compounds. Materials, 2017, 10, 818.	1.3	4

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91	Ternary Bismuthide SrPtBi <sub>2</sub> : Computation and Experiment in Synergism to Explore Solid-State Materials. <i>Journal of Physical Chemistry C</i> , 2018, 122, 5057-5063.	1.5	4
92	Electron counts, structural stability, and magnetism in BaCuSn <sub>2</sub> -CeNi <sub>1</sub> -Si <sub>2</sub> -type YT Ge <sub>2</sub> (T= Cr, Mn, Fe,) Tj ETQq0 0,0 rgBT /Overlock 10	2.8	4
93	Multiple topologically nontrivial bands in noncentrosymmetric YSn <sub>2</sub> . <i>Physical Review B</i> , 2018, 98, .	1.1	4
94	Synthesis and physical properties of the 10.6 K ferromagnet $\text{Nd}_{1-x}\text{Ni}_x$ . <i>Physical Review B</i> , 2019, 99, .	1.1	4
95	Evidence from transport measurements for YRh <sub>6</sub> Ge <sub>4</sub> being a triply degenerate nodal semimetal. <i>Physical Review B</i> , 2020, 101, .	1.1	4
96	The crystal structures and magnetic properties of TiFeSi coexisting in hexagonal and orthorhombic symmetries. <i>Journal of Alloys and Compounds</i> , 2021, 864, 158617.	2.8	4
97	Antiferromagnetic to Ferromagnetic Coupling Crossover in Hybrid Nickel Chain Perovskites. <i>Inorganic Chemistry</i> , 2022, 61, 10486-10492.	1.9	4
98	Mn-induced Ferromagnetic Semiconducting Behavior with Linear Negative Magnetoresistance in Sr <sub>4</sub> (Ru <sub>1-x</sub> Mnx) <sub>3</sub> O <sub>10</sub> Single Crystals. <i>Scientific Reports</i> , 2018, 8, 13330.	1.6	3
99	Cr <sub>2.37</sub> Ga <sub>3</sub> Se <sub>8</sub> : A Quasi-Two-Dimensional Magnetic Semiconductor. <i>Inorganic Chemistry</i> , 2018, 57, 14298-14303.	1.9	3
100	Crystal structure, chemical bonding, and physical properties of layered AlR <sub>2</sub> Sn <sub>2</sub> (R= Sr and Ba). <i>Journal of Materials Science</i> , 2019, 54, 11127-11133.	1.7	3
101	Enhanced Néel temperature in EuSnP under pressure. <i>Dalton Transactions</i> , 2019, 48, 5327-5334.	1.6	3
102	Topological Hall effect and magnetic states in the Nowotny chimney ladder compound Cr <sub>11</sub> Ge <sub>19</sub> . <i>Physical Review B</i> , 2021, 103, .	1.1	3
103	Growth, Crystal Structure and Magnetic Characterization of Zn-Stabilized CePtIn <sub>4</sub> . <i>Journal of the Physical Society of Japan</i> , 2017, 86, 084710.	0.7	2
104	La <sub>15</sub> NbxGe <sub>9</sub> : a superstructure of the Mn <sub>5</sub> Si <sub>3</sub> structure type with interstitial Nb atoms. <i>Journal of Solid State Chemistry</i> , 2018, 265, 50-54.	1.4	2
105	Pt-rich intermetallic APt <sub>8</sub> P <sub>2</sub> (A= Ca and La). <i>Journal of Alloys and Compounds</i> , 2019, 798, 53-58.	2.8	2
106	Quasi-two-dimensional relativistic fermions probed by de Haas-van Alphen quantum oscillations in LuSn <sub>2</sub> . <i>Physical Review B</i> , 2021, 103, .	1.1	2
107	Superconductivity in the Nb-Ru-Ge $\text{f}$ phase. <i>Physical Review Materials</i> , 2017, 1, .	0.9	2
108	Spin Reorientation in Antiferromagnetic MnPd <sub>5</sub> Se with an Anti-CeCoIn <sub>5</sub> Structure Type. <i>Inorganic Chemistry</i> , 2022, 61, 3981-3988.	1.9	2

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109	Fe <sub>3</sub> X <sub>2</sub> InSn <sub>2</sub> O <sub>6</sub> (X = 0, 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.	3.2	2
110	New Jf-phases in the NbX <sub>2</sub> Ga and NbX <sub>2</sub> Al systems (X = Ru, Rh, Pd, Ir, Pt, and Au). <i>Dalton Transactions</i> , 2017, 46, 14158-14163.	1.6	1
111	Structure-Property Correlations and Superconductivity in Spinel. , 2017, , .		1
112	Crystal structure and physical properties of a novel ternary compound La <sub>15</sub> Mo Ge <sub>9</sub> . <i>Chemical Physics Letters</i> , 2019, 730, 612-616.	1.2	1
113	New Tetragonal ReGa <sub>5</sub> (M) (M = Sn, Pb, Bi) Single Crystals Grown from Delicate Electrons Changing. <i>Crystals</i> , 2019, 9, 527.	1.0	1
114	Geometric and Magnetic Structures of K <sub>2</sub> Re <sub>6</sub> as an Antiferromagnetic Insulator with Ferromagnetic Spin-Canting Originated from Spin-Orbit Coupling. <i>Journal of Physical Chemistry C</i> , 2019, 123, 1645-1652.	1.5	1
115	Li <sub>4</sub> Ru <sub>2</sub> OCl <sub>10</sub> ·10H <sub>2</sub> 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.	0.5	1
116	Mn-induced spin glass behavior in metallic Ir <sub>3</sub> Sn <sub>7</sub> xMnx. <i>Journal of Physics Condensed Matter</i> , 2021, 33, 135701.	0.7	1
117	High-pressure insulating phase of Mo <sub>4</sub> O <sub>11</sub> with collapsed volume. <i>Physical Review B</i> , 2021, 104, .	1.1	1
118	The non-centrosymmetric layered compounds IrTe <sub>2</sub> I and RhTe <sub>2</sub> I. <i>Dalton Transactions</i> , 2022, 51, 8688-8694.	1.6	1
119	Ternary rare earth silicides RE <sub>2</sub> M <sub>3</sub> Si <sub>4</sub> (RE = Sc, Y, Lu; M = Mo, W): crystal structure, coloring and electronic properties. <i>Dalton Transactions</i> , 2016, 45, 3771-3777.	1.6	0
120	Low-Dimensional Magnetic Semimetal Cr <sub>0.65</sub> Al <sub>1.35</sub> Se <sub>3</sub> . <i>Inorganic Chemistry</i> , 2019, 58, 13960-13968.	1.9	0
121	Crystal structure and physical properties of AePd <sub>1-1</sub> P <sub>1+</sub> (Ae = Ca, Sr). <i>Materials Today Communications</i> , 2020, 25, 101284.	0.9	0
122	Decoding defect ordering from ADF-STEM images of van der Waals CrGa <sub>2</sub> Te <sub>7</sub> ferromagnetic crystals using the unsupervised machine learning algorithm. <i>Microscopy and Microanalysis</i> , 2021, 27, 710-711.	0.2	0
123	Theoretical investigations of hydrogen absorption in the A15 intermetallics Ti <sub>3</sub> Sb and Ti <sub>3</sub> Ir. <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , 2021, 76, 819-826.	0.3	0
124	Eu <sub>2</sub> Mg <sub>3</sub> Bi <sub>4</sub> : Competing Magnetic Orders on a Buckled Honeycomb Lattice. <i>Chemistry of Materials</i> , 2022, 34, 3902-3909.	3.2	0
125	Eu <sub>5</sub> Al <sub>3</sub> Sb <sub>6</sub> : Al <sub>4</sub> Tetrahedra Embedded in a Rock-Salt-Like Structure. <i>Chemistry of Materials</i> , 2022, 34, 5009-5019.	3.2	0