Weiwei Xie

List of Publications by Citations

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	MoTe_{2}: A Type-II Weyl Topological Metal. *Physical Review Letters*, **2016**, 117, 056805	7.4	286
109	A new form of Ca3P2 with a ring of Dirac nodes. *APL Materials*, **2015**, 3, 083602	5.7	244
108	Direct optical detection of Weyl fermion chirality in a topological semimetal. *Nature Physics*, **2017**, 13, 842-847	16.2	184
107	Topological chiral crystals with helicoid-arc quantum states. *Nature*, **2019**, 567, 500-505	50.4	126
106	Polytypism, polymorphism, and superconductivity in TaSe(2-x)Te(x). *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, E1174-80	11.5	69
105	CoO-Carbon@FeCoO Heterostructural Hollow Polyhedrons for the Oxygen Evolution Reaction. *ACS Applied Materials & Interfaces*, **2017**, 9, 28642-28649	9.5	51
104	TaRhB and NbRhB: Superconductors with a chiral noncentrosymmetric crystal structure. *Science Advances*, **2018**, 4, eaar7969	14.3	46
103	Realization of a Type-II Nodal-Line Semimetal in MgBi. *Advanced Science*, **2019**, 6, 1800897	13.6	44
102	Endohedral gallide cluster superconductors and superconductivity in ReGa5. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, E7048-54	11.5	41
101	A large family of filled skutterudites stabilized by electron count. *Nature Communications*, **2015**, 6, 6489	17.4	38
100	A New Magnetic Topological Quantum Material Candidate by Design. *ACS Central Science*, **2019**, 5, 900-910	10.8	32
99	High-Temperature Thermoelectric Properties of the Solid□Solution Zintl Phase Eu11Cd6Sb12□Asx (x Chemistry of Materials, **2014**, 26, 1393-1403	9.6	30
98	Interfacial Ring-Opening Polymerization of Amino-Acid-Derived N-Thiocarboxyanhydrides Toward Well-Defined Polypeptides. *ACS Macro Letters*, **2017**, 6, 836-840	6.6	29
97	Differences in Chemical Doping Matter: Superconductivity in Ti1□TaxSe2 but Not in Ti1□NbxSe2. *Chemistry of Materials*, **2016**, 28, 1927-1935	9.6	28
96	Topological phases in the TaSe3 compound. *Physical Review B*, **2018**, 98,	3.3	27
95	A novel dual phase membrane 40 wt% Nd0.6Sr0.4CoO3□60 wt% Ce0.9Nd0.1O2□design, synthesis and properties. *Journal of Materials Chemistry A*, **2018**, 6, 84-92	13	24
94	□Mn-type Co(8+x)Zn(12-x) as a defect cubic Laves phase: site preferences, magnetism, and electronic structure. *Inorganic Chemistry*, **2013**, 52, 9399-408	5.1	24

93	Fragment-Based Design of NbRuB as a New Metal-Rich Boride Superconductor. *Chemistry of Materials*, **2015**, 27, 1149-1152	9.6	23
92	A stretchable solid-state zinc ion battery based on a cellulose nanofiber□polyacrylamide hydrogel electrolyte and a Mg0.23V2O5□1.0H2O cathode. *Journal of Materials Chemistry A*, **2020**, 8, 18327-18337	13	22
91	Crystal growth and quantum oscillations in the topological chiral semimetal CoSi. *Physical Review B*, **2019**, 100,	3.3	21
90	Cr-Doped TiSe2 □A Layered Dichalcogenide Spin Glass. *Chemistry of Materials*, **2015**, 27, 6810-6817	9.6	20
89	Influence of structural distortions on the Ir magnetism in Ba2□SrxYIrO6 double perovskites. *Solid State Communications*, **2016**, 236, 37-40	1.6	19
88	Gold-gold bonding: the key to stabilizing the 19-electron ternary phases LnAuSb (Ln = La-Nd and Sm). *Journal of the American Chemical Society*, **2015**, 137, 1282-9	16.4	19
87	New material for probing spin-orbit coupling in iridates. *Physical Review B*, **2015**, 91,	3.3	17
86	Phase-Pure Copper Vanadate (□CuV2O6): Solution Combustion Synthesis and Characterization. *Chemistry of Materials*, **2020**, 32, 6247-6255	9.6	15
85	Synthesis and Oxidation Catalysis of [Tris(oxazolinyl)borato]cobalt(II) Scorpionates. *European Journal of Inorganic Chemistry*, **2016**, 2016, 2486-2494	2.3	15
84	New Co□Pd□Zn □Brasses with Dilute Ferrimagnetism and Co2Zn11 Revisited: Establishing the Synergism between Theory and Experiment. *Chemistry of Materials*, **2014**, 26, 2624-2634	9.6	15
83	Triangular Rare-Earth Lattice Materials RbBa R(BO) (R = Y, Gd-Yb) and Comparison to the KBa R(BO) Analogs. *Inorganic Chemistry*, **2019**, 58, 3308-3315	5.1	15
82	Magnetic order induces symmetry breaking in the single-crystalline orthorhombic CuMnAs semimetal. *Physical Review B*, **2017**, 96,	3.3	14
81	Enhanced anomalous Hall effect in the magnetic topological semimetal Co3Sn2□InxS2. *Physical Review B*, **2020**, 101,	3.3	13
80	Quantum oscillation evidence for a topological semimetal phase in ZrSnTe. *Physical Review B*, **2018**, 97,	3.3	12
79	Superconductivity in a new intermetallic structure type based on endohedral Ta@Ir7Ge4 clusters. *Physical Review B*, **2017**, 95,	3.3	12
78	□Brasses with Spontaneous Magnetization: Atom Site Preferences and Magnetism in the Fe-Zn and Fe-Pd-Zn Phase Spaces. *Zeitschrift Fur Anorganische Und Allgemeine Chemie*, **2015**, 641, 270-278	1.3	12
77	Importance of Specific Heat Characterization when Reporting New Superconductors: An Example of Superconductivity in LiGa2Rh. *Chemistry of Materials*, **2019**, 31, 2164-2173	9.6	12
76	Zr5Sb3□Rux, a new superconductor in the W5Si3 structure type. *Journal of Materials Chemistry C*, **2015**, 3, 8235-8240	7.1	11

75	Superconductivity in Hf5Sb3□Rux: Are Ru and Sb a Critical Charge-Transfer Pair for Superconductivity?. *Chemistry of Materials*, **2015**, 27, 4511-4514	9.6	11
74	Geometrically frustrated trimer-based Mott insulator. *Physical Review Materials*, **2018**, 2,	3.2	11
73	Evidence for a conducting surface ground state in high-quality single crystalline FeSi. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, 8558-8562	11.5	10
72	Consequences of magnetic ordering in chiral Mn1/3NbS2. *Physical Review B*, **2019**, 100,	3.3	10
71	NbIr2B2 and TaIr2B2 □New Low Symmetry Noncentrosymmetric Superconductors with Strong Spin□Orbit Coupling. *Advanced Functional Materials*, **2021**, 31, 2007960	15.6	10
70	Structure and magnetic properties of the REAuBi2 (RE=La□Nd, Sm) phases. *Journal of Solid State Chemistry*, **2015**, 230, 318-324	3.3	9
69	Crystal Structure, Magnetism, and Electronic Properties of a Rare-Earth-Free Ferromagnet: MnPt5As. *Chemistry of Materials*, **2020**, 32, 3922-3929	9.6	9
68	The New Superconductor tP-SrPd2Bi2: Structural Polymorphism and Superconductivity in Intermetallics. *Inorganic Chemistry*, **2016**, 55, 3203-5	5.1	9
67	Superconductivity versus structural phase transition in the closely related Bi2Rh3.5S2 and Bi2Rh3S2. *Physical Review B*, **2015**, 91,	3.3	9
66	Superconducting SrSnP with Strong Sn□P Antibonding Interaction: Is the Sn Atom Single or Mixed Valent?. *Chemistry of Materials*, **2018**, 30, 6005-6013	9.6	8
65	111-Type Semiconductor ReGaSi Follows 14e Rules. *Inorganic Chemistry*, **2017**, 56, 5165-5172	5.1	7
64	Canted Eu magnetic structure in EuMnSb2. *Physical Review B*, **2020**, 101,	3.3	7
63	Prediction of nontrivial band topology and superconductivity in Mg2Pb. *Physical Review Materials*, **2017**, 1,	3.2	7
62	Evidence for topological semimetallicity in a chain-compound TaSe3. *Npj Quantum Materials*, **2020**, 5,	5	7
61	Chemistry in Superconductors. *Chemical Reviews*, **2021**, 121, 2966-2991	68.1	7
60	Superconductivity in a Misfit Phase That Combines the Topological Crystalline Insulator Pb1□SnxSe with the CDW-Bearing Transition Metal Dichalcogenide TiSe2. *Journal of the Physical Society of Japan*, **2016**, 85, 064705	1.5	6
59	Multiple topological electronic phases in superconductor MoC. *Physical Review Materials*, **2018**, 2,	3.2	6
58	Electrical anisotropy and coexistence of structural transitions and superconductivity in IrTe2. *Physical Review B*, **2017**, 95,	3.3	5

57	A tetragonal polymorph of SrMnP made under high pressure - theory and experiment in harmony. *Dalton Transactions*, **2017**, 46, 6835-6838	4.3	5
56	A Novel Magnetic Material by Design: Observation of Yb with Spin-1/2 in Yb PtP. *ACS Central Science*, **2020**, 6, 2023-2030	16.8	5
55	Annihilation and Control of Chiral Domain Walls with Magnetic Fields. *Nano Letters*, **2021**, 21, 1205-1212	11.5	5
54	Pt-Bi Antibonding Interaction: The Key Factor for Superconductivity in Monoclinic BaPtBi. *Inorganic Chemistry*, **2018**, 57, 1698-1701	5.1	4
53	Superconducting properties of Rh9In4S4 single crystals. *Physical Review B*, **2016**, 93,	3.3	4
52	Highly mobile carriers in a candidate of quasi-two-dimensional topological semimetal AuTe2Br. *APL Materials*, **2019**, 7, 101110	5.7	4
51	Packing of Russian doll clusters to form a nanometer-scale CsCl-type compound in a Cr□nSn complex metallic alloy. *Journal of Materials Chemistry C*, **2017**, 5, 7215-7221	7.1	4
50	Structural distortion and incommensurate noncollinear magnetism in EuAg4As2. *Physical Review Materials*, **2020**, 4,	3.2	4
49	Surface charge induced Dirac band splitting in a charge density wave material (TaSe4)2I. *Physical Review Research*, **2021**, 3,	3.9	4
48	Magnetic and electronic structures of antiferromagnetic topological material candidate EuMg2Bi2. *Journal of Applied Physics*, **2021**, 129, 035106	2.5	4
47	Synthesis and physical properties of the 10.6 K ferromagnet NdIr3. *Physical Review B*, **2019**, 99,	3.3	3
46	Enhanced Néel temperature in EuSnP under pressure. *Dalton Transactions*, **2019**, 48, 5327-5334	4.3	3
45	Superconductivity in 3R-Ta(1-x)M(x)Se2 (M = W, Mo). *Journal of Physics Condensed Matter*, **2015**, 27, 365701	2.1	3
44	Bond-breaking induced Lifshitz transition in robust Dirac semimetal VAl. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 15517-15523	11.5	3
43	Superconductivity on a Bi Square Net in LiBi. *Chemistry of Materials*, **2020**, 32, 3150-3159	9.6	3
42	RuAl6□ An Endohedral Aluminide Superconductor. *Chemistry of Materials*, **2020**, 32, 3805-3812	9.6	3
41	Composite Icosahedron/Cube Endohedral Clusters in Rh2Cd15. *Inorganic Chemistry*, **2016**, 55, 7605-9	5.1	3
40	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

39	Synthesis, Structure, and Basic Magnetic and Thermoelectric Properties of the Light Lanthanide Aurobismuthides. *Inorganic Chemistry*, **2016**, 55, 3583-8	5.1	3
38	Monoclinic 122-Type BaIrGe with a Channel Framework: A Structural Connection between Clathrate and Layered Compounds. *Materials*, **2017**, 10,	3.5	3
37	Chemical Bonding Governs Complex Magnetism in MnPtP. *Inorganic Chemistry*, **2021**, 60, 87-96	5.1	3
36	Mn-induced Ferromagnetic Semiconducting Behavior with Linear Negative Magnetoresistance in Sr(RuMn)O Single Crystals. *Scientific Reports*, **2018**, 8, 13330	4.9	3
35	Growth, Crystal Structure and Magnetic Characterization of Zn-Stabilized CePtIn4. *Journal of the Physical Society of Japan*, **2017**, 86, 084710	1.5	2
34	Crystal structure, chemical bonding, and physical properties of layered AIrSn2 (A = Sr and Ba). *Journal of Materials Science*, **2019**, 54, 11127-11133	4.3	2
33	Ternary Bismuthide SrPtBi2: Computation and Experiment in Synergism to Explore Solid-State Materials. *Journal of Physical Chemistry C*, **2018**, 122, 5057-5063	3.8	2
32	Pressure-Induced Large Volume Collapse, Plane-to-Chain, Insulator to Metal Transition in CaMnBi. *Inorganic Chemistry*, **2019**, 58, 8933-8937	5.1	2
31	Superconductivity in the Nb-Ru-Ge phase. *Physical Review Materials*, **2017**, 1,	3.2	2
30	Crystal Structures, Superconducting Properties, and the Coloring Problem in ReAlSi and ReGaSi. *Inorganic Chemistry*, **2020**, 59, 17310-17319	5.1	2
29	Anomalous Hall effect in the distorted kagome magnets (Nd,Sm)Mn6Sn6. *Physical Review B*, **2021**, 103,	3.3	2
28	Superconductivity in Metal-Rich Chalcogenide TaSe. *Inorganic Chemistry*, **2020**, 59, 5798-5802	5.1	2
27	CrGaSe: A Quasi-Two-Dimensional Magnetic Semiconductor. *Inorganic Chemistry*, **2018**, 57, 14298-14303	5.1	2
26	Spin Reorientation in Antiferromagnetic Layered FePt5P. *ACS Applied Electronic Materials*, **2021**, 3, 3501-3508	4	2
25	Glassy magnetic ground state in layered compound MnSb2Te4. *Science China Materials*,1	7.1	2
24	New phases in the Nb-X-Ga and Nb-X-Al systems (X = Ru, Rh, Pd, Ir, Pt, and Au). *Dalton Transactions*, **2017**, 46, 14158-14163	4.3	1
23	Antiferromagnetic semiconductor Eu3Sn2P4 with Sn Sn dimer and crown-wrapped Eu. *Journal of Materials Chemistry C*, **2019**, 7, 12650-12656	7.1	1
22	Stabilization of the Ti3Co5B2-type structure for Ti3 Si Ru5B2 through Si Ti substitution. *Journal of Solid State Chemistry*, **2015**, 227, 92-97	3.3	1

21	Evidence from transport measurements for YRh6Ge4 being a triply degenerate nodal semimetal. *Physical Review B*, **2020**, 101,	3.3	1
20	Electron counts, structural stability, and magnetism in BaCuSn2-CeNi1-xSi2-type YTxGe2 (T= Cr, Mn, Fe, Co, and Ni). *Journal of Alloys and Compounds*, **2018**, 741, 840-846	5.7	1
19	Crystal structure and physical properties of a novel ternary compound La15MoxGe9. *Chemical Physics Letters*, **2019**, 730, 612-616	2.5	1
18	Crystal Defect Doping on Antiferromagnetic Topological Insulator Candidate EuMg2Bi2. *Journal of Physical Chemistry C*, **2022**, 126, 737-742	3.8	1
17	Pd-P antibonding interactions in APd2P2 (A=Ca and Sr) superconductors. *Physical Review Materials*, **2020**, 4,	3.2	1
16	Structure, chromium vacancies, and magnetism in a Cr12□Te16 compound. *Physical Review Materials*, **2019**, 3,	3.2	1
15	LiRuOCl□10HO: crystal structure, magnetic properties and bonding interactions in ruthenium-oxo complexes. *Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials*, **2020**, 76, 884-891	1.8	1
14	Superconductivity in the Endohedral Ga Cluster Compound PdGa5. *Journal of Physical Chemistry C*, **2021**, 125, 11294-11299	3.8	1
13	The crystal structures and magnetic properties of TiFeSi coexisting in hexagonal and orthorhombic symmetries. *Journal of Alloys and Compounds*, **2021**, 864, 158617	5.7	1
12	Mn-induced spin glass behavior in metallic IrSnMn. *Journal of Physics Condensed Matter*, **2021**,	1.8	1
11	Topological Hall effect and magnetic states in the Nowotny chimney ladder compound Cr11Ge19. *Physical Review B*, **2021**, 103,	3.3	1
10	La15NbxGe9: a superstructure of the Mn5Si3 structure type with interstitial Nb atoms. *Journal of Solid State Chemistry*, **2018**, 265, 50-54	3.3	1
9	Pt-rich intermetallic APt8P2 (A´= Ca and La). *Journal of Alloys and Compounds*, **2019**, 798, 53-58	5.7	0
8	New Tetragonal ReGa5(M) (M = Sn, Pb, Bi) Single Crystals Grown from Delicate Electrons Changing. *Crystals*, **2019**, 9, 527	2.3	0
7	Geometric and Magnetic Structures of K2ReI6 as an Antiferromagnetic Insulator with Ferromagnetic Spin-Canting Originated from Spin□Orbit Coupling. *Journal of Physical Chemistry C*, **2019**, 123, 1645-1652	3.8	0
6	Spin Reorientation in Antiferromagnetic MnPdSe with an Anti-CeCoIn Structure Type.. *Inorganic Chemistry*, **2022**, 61, 3981-3988	5.1	0
5	Unusual Electrical and Magnetic Properties in Layered EuZn 2 As 2. *Advanced Quantum Technologies*,2200012	4.3	0
4	Crystal structure and physical properties of AePd1-xP1+x (Ae = Ca, Sr). *Materials Today Communications*, **2020**, 25, 101284	2.5	

3	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
2	Low-Dimensional Magnetic Semimetal CrAlSe. *Inorganic Chemistry*, **2019**, 58, 13960-13968	5.1
1	Decoding defect ordering from ADF-STEM images of van der Waals CrGa2Te7 ferromagnetic crystals using the unsupervised machine learning algorithm. *Microscopy and Microanalysis*, **2021**, 27, 710-711	0.5