

# Xian Zhang

## List of Publications by Year in descending order

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50  
papers

1,053  
citations

471509

17  
h-index

434195

31  
g-index

60  
all docs

60  
docs citations

60  
times ranked

1358  
citing authors

#	ARTICLE	IF	CITATIONS
1	Observation of Superconductivity in Tetragonal FeS. <i>Journal of the American Chemical Society</i> , 2015, 137, 10148-10151.	13.7	170
2	Thermal Decomposition of Bismuth Oxysulfide from Photoelectric Bi <sub>2</sub> O <sub>2</sub> S to Superconducting Bi <sub>4</sub> O <sub>4</sub> S <sub>3</sub> . <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 4442-4448.	8.0	113
3	Sr <sub>6</sub> Cd <sub>2</sub> Sb <sub>6</sub> O <sub>7</sub> S <sub>10</sub> : Strong SHG Response Activated by Highly Polarizable Sb/O/S Groups. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 8078-8081.	13.8	99
4	Synthesis, Crystal Structure, and Photoelectric Properties of a New Layered Bismuth Oxysulfide. <i>Inorganic Chemistry</i> , 2015, 54, 5768-5773.	4.0	49
5	Bi <sup>3+</sup> -doped CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> : Red-shifting absorption edge and longer charge carrier lifetime. <i>Journal of Alloys and Compounds</i> , 2017, 695, 555-560.	5.5	39
6	Synthesis, crystal structure, electronic structure, and photoelectric response properties of KCu <sub>2</sub> SbS <sub>3</sub> . <i>Dalton Transactions</i> , 2016, 45, 3473-3479.	3.3	36
7	Sr <sub>5</sub> Ga <sub>8</sub> O <sub>3</sub> S <sub>14</sub> : A Nonlinear Optical Oxysulfide with Melilite-Derived Structure and Wide Band Gap. <i>Inorganic Chemistry</i> , 2020, 59, 9944-9950.	4.0	36
8	Intermediate Band Material of Titanium-Doped Tin Disulfide for Wide Spectrum Solar Absorption. <i>Inorganic Chemistry</i> , 2018, 57, 3956-3962.	4.0	35
9	Synthesis, crystal structures and optical properties of noncentrosymmetric oxysulfides AeGeS <sub>2</sub> O (Ae = Sr, Ba). <i>Dalton Transactions</i> , 2019, 48, 14662-14668.	3.3	35
10	Heteroanionic Melilite Oxysulfide: A Promising Infrared Nonlinear Optical Candidate with a Strong Second-Harmonic Generation Response, Sufficient Birefringence, and Wide Bandgap. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 23645-23652.	8.0	33
11	Synthesis, Structure, Multiband Optical, and Electrical Conductive Properties of a 3D Open Cubic Framework Based on [Cu <sub>8</sub> Sn <sub>6</sub> S <sub>24</sub> ]z <sup>n+</sup> Clusters. <i>Inorganic Chemistry</i> , 2015, 54, 5301-5308.	4.0	28
12	Synthesis, Crystal Structure, and Optical Properties of Noncentrosymmetric Na <sub>2</sub> ZnSn <sub>4</sub> . <i>Inorganic Chemistry</i> , 2018, 57, 9918-9924.	4.0	26
13	Observation of High Seebeck Coefficient and Low Thermal Conductivity in [SrO]-Intercalated CuSbSe <sub>2</sub> Compound. <i>Chemistry of Materials</i> , 2018, 30, 5539-5543.	6.7	23
14	K <sub>2</sub> [Bi <sub>4</sub> Mn <sub>6</sub> S <sub>6</sub> ], Design of a Highly Selective Ion Exchange Material and Direct Gap 2D Semiconductor. <i>Journal of the American Chemical Society</i> , 2019, 141, 16903-16914.	13.7	22
15	Quaternary Sulfide Ba <sub>6</sub> Zn <sub>6</sub> ZrS <sub>14</sub> : Synthesis, Crystal Structure, Band Structure, and Multiband Physical Properties. <i>Chemistry - A European Journal</i> , 2014, 20, 5977-5982.	3.3	19
16	Synthesis, structure, magnetic and photo response properties of La <sub>3</sub> CuGaSe <sub>7</sub> . <i>Journal of Alloys and Compounds</i> , 2014, 610, 671-675.	5.5	19
17	Sr <sub>6</sub> Cd <sub>2</sub> Sb <sub>6</sub> O <sub>7</sub> S <sub>10</sub> : Strong SHG Response Activated by Highly Polarizable Sb/O/S Groups. <i>Angewandte Chemie</i> , 2019, 131, 8162-8165.	2.0	19
18	Synthesis, crystal structure and physical properties of [Li <sub>0.85</sub> Fe <sub>0.15</sub> OH][FeS]. <i>RSC Advances</i> , 2015, 5, 38248-38253.	3.6	18

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19	Synthesis, structure, magnetic and photoelectric properties of $\text{Ln}_{3-x}\text{M}_{0.5x}\text{MgSe}_7$ ( $\text{Ln} = \text{La, Ce, Sm}$ ; $\text{M} = \text{Fe, Mn}$ ; $\text{Mg} = \text{Si, Ge}$ ) and $\text{La}_3\text{MnGaSe}_7$ . RSC Advances, 2015, 5, 52629-52635.	3.6	18
20	Semiconductive $\text{K}_2\text{MSbS}_3$ (SH) ( $\text{M} = \text{Zn, Cd}$ ) Featuring One-Dimensional $\text{[M}_2\text{Sb}_2\text{S}_6$ (SH <sub>2</sub> )] <sup>4-</sup> Chains. Inorganic Chemistry, 2016, 55, 9742-9747.	4.0	18
21	Synthesis, Structure, and Optical Properties of Antiperovskite-Derived $\text{Ba}_2\text{MQ}_3\text{X}$ ( $\text{M} = \text{As, Sb}$ ; $\text{Q} = \text{S, Se}$ ; $\text{X} = \text{Cl, Br, I}$ ) Chalcohalides. Inorganic Chemistry, 2018, 57, 1449-1454.	4.0	18
22	Toss-up Wear Leveling. , 2017, , .		16
23	Antiperovskite Chalco-Halides $\text{Ba}_3(\text{FeS}_4)\text{Cl}$ , $\text{Ba}_3(\text{FeS}_4)\text{Br}$ and $\text{Ba}_3(\text{FeSe}_4)\text{Br}$ with Spin Super-Super Exchange. Scientific Reports, 2015, 5, 15910.	3.3	15
24	Shadow Block: Accelerating ORAM Accesses with Data Duplication. , 2018, , .		13
25	Enhanced Photoelectric $\text{SrOCuSbS}_2$ of a [SrO]-Intercalated $\text{CuSbS}_2$ Structure. Inorganic Chemistry, 2019, 58, 69-72.	4.0	13
26	Synthesis and characterization of a novel quaternary chalcogenide $\text{KBiCu}_2\text{S}_3$ . Journal of Alloys and Compounds, 2014, 591, 6-10.	5.5	12
27	A novel PUF based on cell error rate distribution of STT-RAM. , 2016, , .		10
28	Semiconductor $\text{Pb}_2\text{P}_2\text{S}_6$ and size-dependent band gap energy of its nanoparticles. RSC Advances, 2014, 4, 34288-34293.	3.6	9
29	Synthesis, crystal structure and optical properties of $\text{K}_2\text{Cu}_2\text{GeS}_4$ . Journal of Alloys and Compounds, 2017, 725, 557-562.	5.5	9
30	Enhancement of Solar Energy Absorption and Optoelectronic Properties of $\text{SrCuSbS}_3$ by Lead Doping. Solar Rrl, 2018, 2, 1800021.	5.8	9
31	Protect non-volatile memory from wear-out attack based on timing difference of row buffer hit/miss. , 2017, , .		8
32	Crystal Growth, Structure, Resistivity, Magnetic, and Photoelectric Properties of One-Dimensional Selenometallate $\text{Ba}_2\text{BiFeSe}_5$ . Chemistry - an Asian Journal, 2016, 11, 3436-3442.	3.3	7
33	A novel two-dimensional oxysulfide $\text{Sr}_{3.5}\text{Pb}_{2.5}\text{Sb}_6\text{O}_5\text{S}_{10}$ : synthesis, crystal structure, and photoelectric properties. Journal of Materials Chemistry C, 2020, 8, 11018-11021.	5.5	7
34	Solvothermal synthesis, structure and physical properties of $\text{Cs}[\text{Cr}(\text{en})_2\text{MSe}_4]$ ( $\text{M} = \text{Ge, Sn}$ ) with $[\text{MSe}_4]^4-$ tetrahedra as chelating ligand. Dalton Transactions, 2016, 45, 9097-9102.	3.3	6
35	Intrinsically low thermal conductivity in a p-type semiconductor $\text{SrOCuBiSe}_2$ with a [SrO]-intercalated $\text{CuBiSe}_2$ structure. Chemical Communications, 2020, 56, 4356-4359.	4.1	6
36	Synthesis, Crystal Structure, and Physical Properties of Layered $\text{LnCrSe}_2\text{O}$ ( $\text{Ln} = \text{Ce-Nd}$ ). Inorganic Chemistry, 2019, 58, 9482-9489.	4.0	5

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37	Crystal structure design and multiband physical properties of quaternary sulfide $\text{Ba}_5\text{Bi}_2\text{Co}_2\text{S}_{10}$ for optoelectronic conversion. <i>Chemical Communications</i> , 2019, 55, 4809-4812.	4.1	5
38	Pin Tumbler Lock: A shift based encryption mechanism for racetrack memory. , 2016, , .		4
39	Synthesis, crystal structure, and optical properties of $\text{Ba}_2\text{SbO}_2\text{SX}$ (X = Br, I) oxy-chalcohalides. <i>Journal of Solid State Chemistry</i> , 2019, 278, 120811.	2.9	4
40	Structural dimension modulation in a new oxysulfide system of $\text{Ae}_2\text{Sb}_2\text{O}_2\text{S}_3$ (Ae = Ca and Ba). <i>Inorganic Chemistry Frontiers</i> , 2022, 9, 3552-3558.	6.0	4
41	Selenium doping NaCl-type superconductor: $\text{SnAs}_{1-x}\text{Se}_x$ ( $x=0\text{--}0.13$ ). <i>Journal of Solid State Chemistry</i> , 2017, 252, 106-110.	2.9	3
42	Improved Polarization in the $\text{Sr}_6\text{Cd}_2\text{Sb}_6\text{O}_7\text{Se}_{10}$ Oxyselenide through Design of Lateral Sublattices for Efficient Photoelectric Conversion. <i>Angewandte Chemie</i> , 2022, 134, .	2.0	3
43	Synthesis, structure, and optical properties of $\text{K}_{2.4}\text{Ga}_{2.4}\text{M}_{1.6}\text{Q}_8$ (M = Si, Ge; Q = S, Se) crystals and glasses. <i>RSC Advances</i> , 2016, 6, 76789-76794.	3.6	2
44	An Intermediate Band Material $\text{K}_2\text{CdSnSe}_4$ and Its Visible-Light Photocatalytic Activity. <i>ChemistrySelect</i> , 2017, 2, 5655-5659.	1.5	2
45	Synthesis, crystal structure, and magnetic properties of layered $\text{SmCrS}_{2-x}\text{Se}_x\text{O}$ solid solutions. <i>Inorganic Chemistry Frontiers</i> , 2020, 7, 3980-3986.	6.0	2
46	Rational Crystal Structure Design and Nonlinear-Optical Properties of Noncentrosymmetric $\text{RbCu}_2\text{Nb}_4$ . <i>Inorganic Chemistry</i> , 2022, 61, 657-663.	4.0	2
47	Synthesis, crystal structure and physical properties of $\text{FeV}_4\text{S}_8$ and $\text{KFe}_2\text{V}_8\text{S}_{16}$ . <i>RSC Advances</i> , 2016, 6, 8277-8281.	3.6	1
48	Synthesis, structure, magnetic and optoelectric properties of layered $\text{NaM}_{0.5}\text{Sn}_{0.5}\text{S}_2$ (M= Mn, Fe). <i>Journal of Alloys and Compounds</i> , 2018, 746, 328-334.	5.5	1
49	Syntheses, crystal structures and magnetic properties of two new chromium chalcogenides $\text{Cr}(\text{en})_3\text{SbSe}_4$ and $\text{Cr}(\text{en})_2\text{AsSe}_3$ . <i>Journal of Alloys and Compounds</i> , 2018, 768, 970-977.	5.5	1
50	Antiferromagnetic Quaternary Chalco-Halide $\text{Ba}_3(\text{FeS}_4)\text{I}$ with Long $\text{Fe}\cdots\text{Fe}$ Distances. <i>Journal of Materials Chemistry C</i> , 0, , .	5.5	1