

Xiao-Zhang

List of Publications by Year in descending order

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86
papers

2,980
citations

236925

25
h-index

168389

53
g-index

86
all docs

86
docs citations

86
times ranked

3146
citing authors

#	ARTICLE	IF	CITATIONS
1	New Microporous Metal-Organic Framework Demonstrating Unique Selectivity for Detection of High Explosives and Aromatic Compounds. <i>Journal of the American Chemical Society</i> , 2011, 133, 4153-4155.	13.7	1,073
2	Novel 3D Nitrogen-Rich Metal Organic Framework for Highly Efficient CO ₂ Adsorption and Catalytic Conversion to Cyclic Carbonates under Ambient Temperature. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 8727-8735.	6.7	106
3	Facile One-Pot Synthesis of Zn/Mg-MOF-74 with Unsaturated Coordination Metal Centers for Efficient CO ₂ Adsorption and Conversion to Cyclic Carbonates. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 61334-61345.	8.0	99
4	A novel luminescent Pb(II) organic framework exhibiting a rapid and selective detection of trace amounts of NACs and Fe ³⁺ with excellent recyclability. <i>Dalton Transactions</i> , 2017, 46, 6303-6311.	3.3	91
5	Synthesis and Characterization of Four Novel Supramolecular Compounds Based on Metal Zinc and Cadmium. <i>Crystal Growth and Design</i> , 2005, 5, 1091-1098.	3.0	88
6	A highly selective and sensitive Zn(II) coordination polymer luminescent sensor for Al ³⁺ and NACs in the aqueous phase. <i>Inorganic Chemistry Frontiers</i> , 2017, 4, 1888-1894.	6.0	87
7	A novel water-stable MOF Zn(Py)(Atz) as heterogeneous catalyst for chemical conversion of CO ₂ with various epoxides under mild conditions. <i>Journal of CO₂ Utilization</i> , 2020, 35, 216-224.	6.8	75
8	Porous Zn(Bmic)(AT) MOF with Abundant Amino Groups and Open Metal Sites for Efficient Capture and Transformation of CO ₂ . <i>Inorganic Chemistry</i> , 2019, 58, 13917-13926.	4.0	68
9	Novel Multifunctional Zn Metal-Organic Framework Fluorescent Probe Demonstrating Unique Sensitivity and Selectivity for Detection of PA and Fe ³⁺ Ions in Water Solution. <i>Crystal Growth and Design</i> , 2019, 19, 5729-5736.	3.0	62
10	A luminescent sensor based on a Zn(II) coordination polymer for selective and sensitive detection of NACs and Fe ³⁺ ions. <i>CrystEngComm</i> , 2019, 21, 1948-1955.	2.6	58
11	Preparation of reduced graphene oxide nanosheet/Fe _x O _y /nitrogen-doped carbon layer aerogel as photo-Fenton catalyst with enhanced degradation activity and reusability. <i>Journal of Hazardous Materials</i> , 2019, 362, 62-71.	12.4	57
12	A comparison study of aliphatic and aromatic structure directing agents influencing the crystal and electronic structures, and properties of iodoplumbate hybrids: water induced structure conversion and visible light photocatalytic properties. <i>Dalton Transactions</i> , 2015, 44, 12561-12575.	3.3	54
13	A High-Performance Zinc-Organic Framework with Accessible Open Metal Sites Catalyzes CO ₂ and Styrene Oxide into Styrene Carbonate under Mild Conditions. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 2795-2803.	6.7	49
14	Lewis Acid-Base Bifunctional Crystals with a Three-Dimensional Framework for Selective Coupling of CO ₂ and Epoxides under Mild and Solvent-Free Conditions. <i>Crystal Growth and Design</i> , 2017, 17, 51-57.	3.0	45
15	Polyoxometalate-based organic-inorganic hybrid compounds containing transition metal mixed-organic-ligand complexes of N-containing and pyridinecarboxylate ligands. <i>Dalton Transactions</i> , 2015, 44, 8971-8983.	3.3	44
16	One-pot preparation of ternary reduced graphene oxide nanosheets/Fe ₂ O ₃ /polypyrrole hydrogels as efficient Fenton catalysts. <i>Journal of Colloid and Interface Science</i> , 2017, 505, 130-138.	9.4	44
17	The design of a novel and resistant Zn(PZDC)(ATZ) MOF catalyst for the chemical fixation of CO ₂ under solvent-free conditions. <i>Inorganic Chemistry Frontiers</i> , 2019, 6, 317-325.	6.0	41
18	Dual hydrogen-bond donor group-containing Zn-MOF for the highly effective coupling of CO ₂ and epoxides under mild and solvent-free conditions. <i>Inorganic Chemistry Frontiers</i> , 2020, 7, 1995-2005.	6.0	40

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19	Role of Electric Field and Reactive Oxygen Species in Enhancing Antibacterial Activity: A Case Study of 3D Cu Foam Electrode with Branched CuO@ZnO NWs. <i>Journal of Physical Chemistry C</i> , 2018, 122, 26454-26463.	3.1	37
20	One-step preparation of nanobeads-based polypyrrole hydrogel by a reactive-template method and their applications in adsorption and catalysis. <i>Journal of Colloid and Interface Science</i> , 2018, 527, 214-221.	9.4	36
21	Highly selective and sensitive detection of Fe ³⁺ , Al ³⁺ and picric acid by a water-stable luminescent MOF. <i>Journal of Solid State Chemistry</i> , 2019, 272, 1-8.	2.9	36
22	New organic-inorganic hybrid compounds constructed from polyoxometalates and transition metal mixed-organic-ligand complexes. <i>Dalton Transactions</i> , 2016, 45, 2562-2573.	3.3	32
23	Tuning the structures based on polyoxometalates from 1-D to 2-D by using different secondary organic ligands. <i>Dalton Transactions</i> , 2015, 44, 14830-14841.	3.3	31
24	In situ template generation via N-alkylation in the syntheses of open-framework zinc phosphites and phosphate. <i>Dalton Transactions</i> , 2013, 42, 13084.	3.3	28
25	Preparation of raspberry-like γ -Fe ₂ O ₃ /crackled nitrogen-doped carbon capsules and their application as supports to improve catalytic activity. <i>Nanoscale</i> , 2016, 8, 18693-18702.	5.6	25
26	Vanadoantimonates: from discrete clusters to high dimensional aggregates. <i>CrystEngComm</i> , 2016, 18, 5130-5139.	2.6	22
27	New iodocuprates(I) with N-heterocyclic molecules as the cations. <i>Journal of Solid State Chemistry</i> , 2013, 207, 152-157.	2.9	20
28	Series of crystalline beryllium phosphates including new templates generated by in situ N-methylation transformation. <i>CrystEngComm</i> , 2014, 16, 3296.	2.6	20
29	New discrete iodometallates with in situ generated triimidazole derivatives as countercations (M ⁿ⁺ = Ag ⁺ , Pb ²⁺ , Bi ³⁺). <i>RSC Advances</i> , 2017, 7, 19073-19080.	3.6	20
30	The detection of selectivity and sensitivity towards TNP by a new Zn(II)-coordination polymer as luminescent sensor in aqueous solution. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2022, 266, 120419.	3.9	20
31	Anion-dependent assemblies of a series of Cd(II) coordination complexes based on an asymmetric multi-dentate ligand and inorganic SBUs: syntheses, crystal structures, and fluorescent properties. <i>CrystEngComm</i> , 2014, 16, 9896-9906.	2.6	19
32	A Series of Compounds Based on [P ₂ W ₁₈ O ₆₂] ⁶⁻ and Transition Metal Mixed Organic Ligand Complexes with High Catalytic Properties for Styrene Epoxidation. <i>Inorganic Chemistry</i> , 2018, 57, 11123-11134.	4.0	19
33	Janus building block-enabled fabrication of dual metal equipped coordination polymers: an ideal precursor for noble metal/metal oxide nanocomposites with excellent catalytic performance. <i>Journal of Materials Chemistry A</i> , 2015, 3, 20073-20079.	10.3	17
34	Preparation, structure and characterization of a series of vanadates. <i>CrystEngComm</i> , 2017, 19, 265-275.	2.6	17
35	Two copper(II) coordination polymers constructed by bis(4-(1H-imidazol-1-yl)phenyl)methanone and dicarboxylate ligands. <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , 2017, 72, 257-261.	0.7	17
36	Synthesis and structural characterization of Mn(II) and Cu(II) complexes with bis(4-(1H-imidazol-1-yl)phenyl)methanone ligands. <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , 2017, 72, 83-87.	0.7	17

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37	New self-assembly hybrid compounds based on arsenic-vanadium clusters and transition metal mixed-organic-ligand complexes. <i>CrystEngComm</i> , 2016, 18, 566-579.	2.6	16
38	New copper(I) iodides with bisimidazole molecules: Synthesis, structural characterization and photoluminescence property. <i>Journal of Solid State Chemistry</i> , 2017, 251, 176-185.	2.9	16
39	New 1-D and 3-D thiocyanatocadmates modified by various amine molecules and $\text{Cl}^{\text{sup}}/\text{CH}_3\text{COO}^{\text{sup}}$ ions: synthesis, structural characterization, thermal behavior and photoluminescence properties. <i>Dalton Transactions</i> , 2015, 44, 5095-5105.	3.3	15
40	One-step preparation of magnetic recyclable quinary graphene hydrogels with high catalytic activity. <i>Journal of Colloid and Interface Science</i> , 2017, 491, 72-79.	9.4	15
41	New organic-inorganic hybrid compounds based on $[\text{SiNb}_{12}\text{V}_2\text{O}_{42}]^{12+}$ with high catalytic activity for styrene epoxidation. <i>Inorganic Chemistry Frontiers</i> , 2017, 4, 1397-1404.	6.0	14
42	Copper(I)-polymers and their photoluminescence thermochromism properties. <i>Photochemical and Photobiological Sciences</i> , 2019, 18, 477-486.	2.9	14
43	A stable Cu-MOF as a dual function sensor with high selectivity and sensitivity detection of picric acid and CrO_4^{2-} in aqueous solution. <i>Microchemical Journal</i> , 2020, 153, 104498.	4.5	14
44	A stable lanthanum-based metal-organic framework as fluorescent sensor for detecting TNP and Fe^{3+} with hyper-sensitivity and ultra-selectivity. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2022, 264, 120276.	3.9	14
45	Imidazolium-based poly(ionic liquid)s@MIL-101 for CO_2 adsorption and subsequent catalytic cycloaddition without additional cocatalyst and solvent. <i>New Journal of Chemistry</i> , 2022, 46, 2309-2319.	2.8	13
46	Syntheses and characterizations of zinc phosphites with new templates generated by N-alkylation transformations. <i>Inorganic Chemistry Communication</i> , 2014, 39, 94-98.	3.9	12
47	Syntheses, characterization and properties of two new dodeca-niobates presenting unprecedented features. <i>Dalton Transactions</i> , 2020, 49, 6495-6503.	3.3	11
48	Simple carbonaceous-material-loaded mesoporous SiO_2 composite catalyst for epoxide- CO_2 cycloaddition reaction. <i>Journal of Colloid and Interface Science</i> , 2022, 610, 818-829.	9.4	11
49	Preparation of PdxAu_y bimetallic nanostructures with controllable morphologies supported on reduced graphene oxide nanosheets and wrapped in a polypyrrole layer. <i>RSC Advances</i> , 2015, 5, 87831-87837.	3.6	10
50	A luminescent Cd(II)-metal organic frameworks combined of TPT and H3BTC detecting 2,4,6-trinitrophenol and chromate anions in aqueous. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020, 242, 118790.	3.9	10
51	Eu(III)-organic complex as recyclable dual-functional luminescent sensor for simultaneous and quantitative sensing of 2,4,6-trinitrophenol and CrO_4^{2-} in aqueous solution. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020, 239, 118497.	3.9	10
52	Concise template syntheses of gallium phosphates driven by in situ direct alkylation of aliphatic and aromatic precursors by methanol. <i>RSC Advances</i> , 2015, 5, 74811-74820.	3.6	9
53	A High-Efficient Carbon-Coated Iron-Based Fenton-Like Catalyst with Enhanced Cycle Stability and Regenerative Performance. <i>Catalysts</i> , 2020, 10, 1486.	3.5	9
54	Synthesis and structural characterization of two open-framework zinc phosphites with (3,4)-connected networks. <i>Inorganic Chemistry Communication</i> , 2014, 43, 105-109.	3.9	8

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55	Facile in situ syntheses of new templates and formations of three zinc phosphates. <i>Inorganic Chemistry Communication</i> , 2014, 46, 295-300.	3.9	8
56	Preparation of Magnetically Recyclable Yolk/Shell $\text{Fe}_x\text{O}_y/\text{PdPt}@\text{CeO}_2$ Nanoreactors with Enhanced Catalytic Activity. <i>Chemistry - an Asian Journal</i> , 2017, 12, 1400-1407.	3.3	8
57	The development of novel Au/CaO nanoribbons from bifunctional building block for biodiesel production. <i>Nanoscale</i> , 2017, 9, 15990-15997.	5.6	8
58	A general autocatalytic route toward silica nanospheres with ultrasmall sized and well-dispersed metal oxide nanoparticles. <i>Nanoscale</i> , 2018, 10, 9460-9465.	5.6	8
59	Four unprecedented cobalt(II) and cadmium(II) metal-organic frameworks based on a rigid tricarboxylate ligand: Synthesis, crystal structures, magnetic and fluorescence properties. <i>Journal of Molecular Structure</i> , 2018, 1156, 583-591.	3.6	8
60	New compounds of polyoxometalates and cadmium mixed-organic-ligand complexes. <i>Journal of Solid State Chemistry</i> , 2020, 283, 121168.	2.9	8
61	Synthesis, structural characterization and photoluminescence property of two $\text{Zn}_2/\text{In}_3+4$ -oxydiphthalhydrazidate complexes. <i>Inorganica Chimica Acta</i> , 2018, 482, 1-7.	2.4	7
62	A MOF material based on zinc (II) and mixed ligands: Synthesis, structure and luminescence behavior. <i>Inorganica Chimica Acta</i> , 2019, 496, 119035.	2.4	7
63	The enhanced catalytic activity and stability of $\text{Fe}_3\text{O}_4\text{-S@C}$ Fenton-like catalyst for phenol degradation. <i>Research on Chemical Intermediates</i> , 2021, 47, 3025-3035.	2.7	7
64	Two novel structures based on an organic ligand with two different coordination modes. <i>RSC Advances</i> , 2015, 5, 46790-46800.	3.6	6
65	An unprecedented antimonato-polyoxovanadate (SbPOV) based on both $[\text{V}_{14}\text{Sb}_8\text{O}_{42}]^{4-}$ and $[\text{V}_{14}\text{Sb}_8\text{O}_{42}]^{4-}$ isomers. <i>Dalton Transactions</i> , 2017, 46, 8022-8026.	3.3	6
66	An Explosive Bomb-Inspired Method to Prepare Collapsed and Ruptured $\text{Fe}_2\text{O}_3/\text{Nitrogen-Doped Carbon Capsules}$ as Catalyst Support. <i>Chemistry - A European Journal</i> , 2017, 23, 17095-17102.	3.3	6
67	Highly Selective and Sensitive Detection of Nitroaromatic Compounds and Metal Ions by Supramolecular Assemblies of $3,3'$ -Azobenzene- $5,5'$ -Azobenzene-tetracarboxylic Acid and $4,4'$ -Bipyridine. <i>Journal of Fluorescence</i> , 2017, 27, 281-286.	2.5	5
68	Crystal Structure of Two V-shaped Ligands with N-Heterocycles. <i>Crystallography Reports</i> , 2017, 62, 1113-1117.	0.6	5
69	New photoluminescent iodoargentates with bisimidazole derivatives as countercations. <i>RSC Advances</i> , 2018, 8, 36150-36160.	3.6	5
70	Synthesis and characterization of a luminescent Ni(II)-compound based on tpt and m-H ₂ bdc detecting picric acid and chromate anions in aqueous. <i>Inorganica Chimica Acta</i> , 2019, 497, 119096.	2.4	5
71	Three new complexes based on methyl-pyrimidine-2-thione: in situ transformation, crystal structures and properties. <i>Journal of Coordination Chemistry</i> , 2016, 69, 3072-3083.	2.2	4
72	Preparation of reduced graphene oxide nanosheet/glutathione-Pd hydrogel with enhanced catalytic activity. <i>Inorganic Chemistry Communication</i> , 2017, 86, 26-30.	3.9	4

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73	Directed self-assembly of dual metal ions with ligands: towards the synthesis of noble metal/metal oxide composites with controlled facets. <i>Chemical Communications</i> , 2018, 54, 2044-2047.	4.1	4
74	A simple approach for synthesis of hollow mesoporous nanotubes loaded with metallic and magnetic nanoparticles: Only one step is required. <i>Applied Organometallic Chemistry</i> , 2019, 33, e4849.	3.5	4
75	Synthesis of the $\text{SO}_4^{2-}/\text{Fe}_3\text{O}_4/\text{FeS}$ coating catalyst on a TC4 titanium alloy for the enhanced Fenton-like degradation of phenol. <i>New Journal of Chemistry</i> , 2021, 45, 1516-1524.	2.8	4
76	Hydrothermal Synthesis of New Organically Templated Beryllium Phosphite and Phosphate with 3,4- ϵ -connected Networks. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2015, 641, 688-693.	1.2	3
77	New iodometallates(I) with in situ generated organic base derivatives as countercations ($\text{M}^+ = \text{Ag}^+$). <i>Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 347 Td</i>	2.9	3
78	Manganese(II)-based coordination polymer as a bi-responsive luminescent sensor for highly selective detection of picric acid and CrO_4^{2-} ion. <i>Transition Metal Chemistry</i> , 2022, 47, 85-92.	1.4	3
79	Syntheses, structures and fluorescence properties of two novel polymers based on a flexible tripodal ligand 1,3,5-tris((1H-1,2,4-triazol-1-yl)methyl)benzene. <i>Journal of Molecular Structure</i> , 2014, 1074, 134-139.	3.6	2
80	Synthesis and structural characterization of a Cu(I) complex with	0.6	2
81	Two zinc(II) coordination complexes based on an asymmetric multidentate ligand: syntheses, structures, selective fluorescence sensing of iron(III) ions and thermal analyses. <i>Acta Crystallographica Section C, Structural Chemistry</i> , 2018, 74, 13-20.	0.5	2
82	First Organic-Inorganic Hybrid Compounds Formed by Ge-V-O Clusters and Transition Metal Complexes of Aromatic Organic Ligands. <i>Molecules</i> , 2022, 27, 4424.	3.8	2
83	The inorganic-organic hybrid zinc phosphite poly[(1/3-hydrogen) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 347 Td (phosphite) Structural Chemistry, 2014, 70, 289-291.	0.5	1
84	Synthesis and Structural Characterization of a Nickel Coordination Polymer Based on	0.6	0
85	From coordination polymers to nanocrystals: general and facile synthesis of ultra-small metal oxide nanocrystals. <i>Chemical Communications</i> , 2020, 56, 6145-6148.	4.1	0
86	Construction of a Co (II)-MOC based on p-phenylenediamine and 1,2,4,5-benzenetetracarboxylic acid ligands: synthesis, structure and sensing behavior for NACs and Fe^{3+} ions. <i>Inorganic Chemistry Communication</i> , 2021, , 108944.	3.9	0