Zhengtao Xu

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

104 papers	3,783 citations	34 h-index	59 g-index
122 ext. papers	4,303 ext. citations	8.4 avg, IF	5.61 L-index

#	Paper	IF	Citations
104	Mineral Hydrogel from Inorganic Salts: Biocompatible Synthesis, All-in-One Charge Storage, and Possible Implications in the Origin of Life. *Advanced Functional Materials*, **2022**, 32, 2109302	15.6	1
103	Enhancement of Protein Crystallization Using Nano-Sized Metal□Organic Framework. *Crystals*, **2022**, 12, 578	2.3	0
102	Telltale diamagnetism at 50 K of a coordination polymer system. *Materials Research Letters*, **2022**, 10, 496-500	7.4	1
101	A Ferrocene Metal-Organic Framework Solid for Fe-Loaded Carbon Matrices and Nanotubes: High-Yield Synthesis and Oxygen Reduction Electrocatalysis. *Inorganic Chemistry*, **2021**, 60, 17315-17324	5.1	0
100	Invisible Silver Guests Boost Order in a Framework That Cyclizes and Deposits AgSb Nanodots. *Inorganic Chemistry*, **2021**, 60, 5757-5763	5.1	1
99	Uniting Form and Function, Stability and Reactivity in Open Framework Materials. *Chemistry Letters*, **2021**, 50, 627-631	1.7	3
98	Liquefaction-induced plasticity from entropy-boosted amorphous ceramics. *Applied Materials Today*, **2021**, 23, 101011	6.6	2
97	Coordination-Driven Assembly of Metal□Organic Framework Coating for Catalytically Active Superhydrophobic Surface. *Advanced Materials Interfaces*, **2021**, 8, 2001202	4.6	8
96	Zwitterionic ultrathin covalent organic polymers for high-performance electrocatalytic carbon dioxide reduction. *Applied Catalysis B: Environmental*, **2021**, 284, 119750	21.8	8
95	Conjugated crosslinks boost the conductivity and stability of a single crystalline metal-organic framework. *Chemical Communications*, **2021**, 57, 187-190	5.8	5
94	Linker Deficiency, Aromatic Ring Fusion, and Electrocatalysis in a Porous Ni-Pyrazolate Network. *Inorganic Chemistry*, **2021**, 60, 161-166	5.1	4
93	The Coordination Chemistry of Metal-Organic Frameworks: Metalation, Catalysis and Beyond **2021**, 99-117		1
92	Supervariate Ceramics: Gelatinous and Monolithic Ceramics Fabricated under Ambient Conditions. *Advanced Engineering Materials*, **2021**, 23, 2170048	3.5	
91	Conjugated porous polymers: incredibly versatile materials with far-reaching applications. *Chemical Society Reviews*, **2020**, 49, 3981-4042	58.5	80
90	Solution-Based Comproportionation Reaction for Facile Synthesis of Black TiO2 Nanotubes and Nanoparticles. *ACS Applied Energy Materials*, **2020**, 3, 6087-6092	6.1	5
89	Building Conjugated Donor-Acceptor Cross-Links into Metal-Organic Frameworks for Photo- and Electroactivity. *ACS Applied Materials & Interfaces*, **2020**, 12, 19201-19209	9.5	4
88	Dense Alkyne Arrays of a Zr(IV) Metal-Organic Framework Absorb Co(CO) for Functionalization. *Inorganic Chemistry*, **2020**, 59, 5626-5631	5.1	11

87	An air-stable anionic two-dimensional semiconducting metal-thiolate network and its exfoliation into ultrathin few-layer nanosheets. *Chemical Communications*, **2020**, 56, 3645-3648	5.8	10
86	A Bumper Crop of Boiling-Water-Stable Metal-Organic Frameworks from Controlled Linker Sulfuration. *Inorganic Chemistry*, **2020**, 59, 7097-7102	5.1	8
85	Halogen-C H Binding in Ultramicroporous Metal-Organic Frameworks (MOFs) for Benchmark C H /CO Separation Selectivity. *Chemistry - A European Journal*, **2020**, 26, 4923-4929	4.8	36
84	Donor-acceptor covalent organic frameworks of nickel(II) porphyrin for selective and efficient CO reduction into CO. *Dalton Transactions*, **2020**, 49, 15587-15591	4.3	7
83	2D metal-organic framework for stable perovskite solar cells with minimized lead leakage. *Nature Nanotechnology*, **2020**, 15, 934-940	28.7	119
82	Crystallinity after decarboxylation of a metal-carboxylate framework: indestructible porosity for catalysis. *Dalton Transactions*, **2020**, 49, 11902-11910	4.3	6
81	Porphyrin Grafting on a Mercapto-Equipped Zr(IV)-Carboxylate Framework Enhances Photocatalytic Hydrogen Production. *Inorganic Chemistry*, **2020**, 59, 12643-12649	5.1	11
80	In Situ Observations of Abnormal Pore Size Changes of a Zirconium Based Metal-Organic Framework Using Atomic Resolution S/TEM and EELS. *Microscopy and Microanalysis*, **2019**, 25, 1486-1487	0.5	1
79	Rare earth-free composites of carbon dots/metal□organic frameworks as white light emitting phosphors. *Journal of Materials Chemistry C*, **2019**, 7, 2207-2211	7.1	52
78	Symmetrically backfolded molecules emulating the self-similar features of a Sierpinski triangle. *Organic and Biomolecular Chemistry*, **2019**, 17, 6032-6037	3.9	2
77	Sulfur Chemistry for Stable and Electroactive Metal-Organic Frameworks: The Crosslinking Story. *Chemistry - A European Journal*, **2019**, 25, 8654-8662	4.8	4
76	Janus triple tripods build up a microporous manifold for HgCl and I uptake. *Chemical Communications*, **2019**, 55, 5091-5094	5.8	7
75	Anchoring Co Ions into a Thiol-Laced Metal-Organic Framework for Efficient Visible-Light-Driven Conversion of CO into CO. *ChemSusChem*, **2019**, 12, 2166-2170	8.3	40
74	Frontispiece: Sulfur Chemistry for Stable and Electroactive Metal-Organic Frameworks: The Crosslinking Story. *Chemistry - A European Journal*, **2019**, 25,	4.8	3
73	A Porous and Solution-Processable Molecular Crystal Stable at 200 □C: The Surprising Donor□Acceptor Impact. *Crystal Growth and Design*, **2019**, 19, 7411-7419	3.5	
72	A Thiol-Functionalized UiO-67-Type Porous Single Crystal: Filling in the Synthetic Gap. *Inorganic Chemistry*, **2019**, 58, 1462-1468	5.1	20
71	Photocatalytic cofactor regeneration involving triethanolamine revisited: The critical role of glycolaldehyde. *Applied Catalysis B: Environmental*, **2019**, 243, 686-692	21.8	18
70	Made in Water: A Stable Microporous Cu(I)-carboxylate Framework (CityU-7) for CO, Water, and Iodine Uptake. *Inorganic Chemistry*, **2018**, 57, 4807-4811	5.1	11

69	Improving stability against desolvation and mercury removal performance of Zr(IV) carboxylate frameworks by using bulky sulfur functions. *Journal of Materials Chemistry A*, **2018**, 6, 1648-1654	13	30
68	Metal-Organic Frameworks for Heavy Metal Removal. *Series on Chemistry, Energy and the Environment*, **2018**, 377-410	0.2	
67	Beadwork and Network: Strings of Silver Ions Stitch Large- Pyrazolate Patches into a Two-dimensional Sheet. *Crystal Growth and Design*, **2018**, 18, 3713-3718	3.5	5
66	Dramatic improvement of stability by in situ linker cyclization of a metal-organic framework. *Chemical Communications*, **2018**, 54, 9470-9473	5.8	15
65	Multiphase-Assembly of Siloxane Oligomers with Improved Mechanical Strength and Water-Enhanced Healing. *Angewandte Chemie - International Edition*, **2018**, 57, 11242-11246	16.4	85
64	Multiphase-Assembly of Siloxane Oligomers with Improved Mechanical Strength and Water-Enhanced Healing. *Angewandte Chemie*, **2018**, 130, 11412-11416	3.6	22
63	Single-Crystalline UiO-67-Type Porous Network Stable to Boiling Water, Solvent Loss, and Oxidation. *Inorganic Chemistry*, **2018**, 57, 6198-6201	5.1	13
62	Dense thiol arrays for metal rganic frameworks: boiling water stability, Hg removal beyond 2 ppb and facile crosslinking. *Journal of Materials Chemistry A*, **2018**, 6, 14566-14570	13	29
61	A semiconducting gyroidal metal-sulfur framework for chemiresistive sensing. *Journal of Materials Chemistry A*, **2017**, 5, 16139-16143	13	35
60	Mesoporous C-coated SnOx nanosheets on copper foil as flexible and binder-free anodes for superior sodium-ion batteries. *Journal of Materials Chemistry A*, **2017**, 5, 2243-2250	13	27
59	A nanoporous graphene analog for superfast heavy metal removal and continuous-flow visible-light photoredox catalysis. *Journal of Materials Chemistry A*, **2017**, 5, 20180-20187	13	18
58	Improving the Loading Capacity of Metal-Organic Framework Thin Films Using Optimized Linkers. *ACS Applied Materials & Interfaces*, **2016**, 8, 24699-702	9.5	9
57	Complex Metal rganic Frameworks from Symmetrically Backfolded Dendrimers. *ChemistrySelect*, **2016**, 1, 4075-4081	1.8	5
56	Metalation Triggers Single Crystalline Order in a Porous Solid. *Journal of the American Chemical Society*, **2016**, 138, 14852-14855	16.4	38
55	Bestow metal foams with nanostructured surfaces via a convenient electrochemical method for improved device performance. *Nano Research*, **2016**, 9, 2364-2371	10	7
54	Anodic nanoporous SnO2 grown on Cu foils as superior binder-free Na-ion battery anodes. *Journal of Power Sources*, **2016**, 307, 634-640	8.9	53
53	Bio-inspired stabilization of sulfenyl iodide RS-I in a Zr(IV)-based metal-organic framework. *Dalton Transactions*, **2016**, 45, 5334-8	4.3	22
52	A minimalist fluorescent probe for differentiating Cys, Hcy and GSH in live cells. *Chemical Science*, **2016**, 7, 256-260	9.4	176

51	A Boiling-Water-Stable, Tunable White-Emitting Metal-Organic Framework from Soft-Imprint Synthesis. *Chemistry - A European Journal*, **2016**, 22, 1597-601	4.8	30
50	Room-temperature acetylene hydration by a Hg(II)-laced metal-organic framework. *Chemical Communications*, **2015**, 51, 10941-4	5.8	34
49	Highly Polarizable Triiodide Anions (I3(-)) as Cross-Linkers for Coordination Polymers: Closing the Semiconductive Band Gap. *Inorganic Chemistry*, **2015**, 54, 6087-9	5.1	11
48	In situ production of silver nanoparticles on an aldehyde-equipped conjugated porous polymer and subsequent heterogeneous reduction of aromatic nitro groups at room temperature. *Chemical Communications*, **2015**, 51, 12197-200	5.8	33
47	Functional shakeup of metal□rganic frameworks: the rise of the sidekick. *CrystEngComm*, **2015**, 17, 9254-9263	3.3	18
46	Facile synthesis of a conjugated microporous polymeric monolith via copper-free Sonogashira□Hagihara cross-coupling in water under aerobic conditions. *Polymer Chemistry*, **2015**, 6, 7251-7255	4.9	27
45	Extraction of palladium from nuclear waste-like acidic solutions by a metal□rganic framework with sulfur and alkene functions. *Journal of Materials Chemistry A*, **2015**, 3, 3928-3934	13	58
44	Pd uptake and H2S sensing by an amphoteric metal-organic framework with a soft core and rigid side arms. *Angewandte Chemie - International Edition*, **2014**, 53, 14438-42	16.4	79
43	An electroactive porous network from covalent metal-dithiolene links. *Chemical Communications*, **2014**, 50, 3986-8	5.8	139
42	Selective Ag(I) binding, H2S sensing, and white-light emission from an easy-to-make porous conjugated polymer. *Journal of the American Chemical Society*, **2014**, 136, 2818-24	16.4	108
41	Immobilization of volatile and corrosive iodine monochloride (ICl) and I(2) reagents in a stable metal-organic framework. *Inorganic Chemistry*, **2014**, 53, 6837-43	5.1	30
40	Metal□rganic Frameworks: Semiconducting Frameworks **2014**, 1-13		1
39	Pd Uptake and H2S Sensing by an Amphoteric Metal□rganic Framework with a Soft Core and Rigid Side Arms. *Angewandte Chemie*, **2014**, 126, 14666-14670	3.6	4
38	Convenient detection of Pd(II) by a metal-organic framework with sulfur and olefin functions. *Journal of the American Chemical Society*, **2013**, 135, 7807-10	16.4	103
37	Effective mercury sorption by thiol-laced metal-organic frameworks: in strong acid and the vapor phase. *Journal of the American Chemical Society*, **2013**, 135, 7795-8	16.4	387
36	White light emission and second harmonic generation from secondary group participation (SGP) in a coordination network. *Journal of the American Chemical Society*, **2012**, 134, 1553-9	16.4	130
35	Thioether Side Chains Improve the Stability, Fluorescence, and Metal Uptake of a Metal□rganic Framework. *Chemistry of Materials*, **2011**, 23, 2940-2947	9.6	131
34	Semirigid aromatic sulfone-carboxylate molecule for dynamic coordination networks: multiple substitutions of the ancillary ligands. *Inorganic Chemistry*, **2011**, 50, 7142-9	5.1	19

33	Reactions of H2S with AgCl within a porous coordination network. *Inorganic Chemistry*, **2010**, 49, 7629-31	5.1	23
32	Coordination networks from Cu cations and tetrakis(methylthio)benzenedicarboxylic acid: tunable bonding patterns and selective sensing for NH(3) gas. *Inorganic Chemistry*, **2010**, 49, 10191-8	5.1	17
31	Metal-Based Photonic Coatings from Electrochemical Deposition. *Journal of the Electrochemical Society*, **2009**, 156, D508	3.9	16
30	Building thiol and metal-thiolate functions into coordination nets: Clues from a simple molecule. *Journal of Solid State Chemistry*, **2009**, 182, 1821-1826	3.3	46
29	Networks of Hexagonal Hierarchy from a Self-Similar Tritopic Molecule. *Crystal Growth and Design*, **2009**, 9, 1663-1665	3.5	15
28	Flexible Thioether□Ag(I) Interactions for Assembling Large Organic Ligands into Crystalline Networks. *Crystal Growth and Design*, **2009**, 9, 1444-1451	3.5	18
27	Shape-Selective Sorption and Fluorescence Sensing of Aromatics in a Flexible Network of Tetrakis[(4-methylthiophenyl)ethynyl]silane and AgBF4. *Chemistry of Materials*, **2009**, 21, 541-546	9.6	46
26	Reversible uptake of HgCl2 in a porous coordination polymer based on the dual functions of carboxylate and thioether. *Chemical Communications*, **2009**, 5439-41	5.8	85
25	Structural regularity and diversity in hybrids of aromatic thioethers and BiBr3: from discrete complexes to layers and 3D nets. *Dalton Transactions*, **2009**, 5083-93	4.3	18
24	Coordination networks from a bifunctional molecule containing carboxyl and thioether groups. *Inorganic Chemistry*, **2008**, 47, 7459-61	5.1	40
23	CuCN Pillars Induce Face-to-Face □Overlap of Anthracene-Based Thioether Molecules within a Hybrid Coordination Network. *Crystal Growth and Design*, **2008**, 8, 1468-1470	3.5	13
22	Mixed-valence Cu(II)Cu(I)15I17 cluster builds up a 3D metal-organic framework with paramagnetic and thermochromic characteristics. *Inorganic Chemistry*, **2008**, 47, 7948-50	5.1	49
21	Multiple bismuth(III)-thioether secondary interactions integrate metalloporphyrin ligands into functional networks. *Inorganic Chemistry*, **2007**, 46, 4844-9	5.1	11
20	Assembly of Large Aromatic Selenoether Ligands into Cubic and Non-interpenetrated (10, 3)-a Nets. *Crystal Growth and Design*, **2007**, 7, 2542-2547	3.5	14
19	Centripetal molecules as multifunctional building blocks for coordination networks. *Chemical Communications*, **2007**, 4779-81	5.8	23
18	Distinct host□guest interaction and subdued fluorescence in a coordination network of 2,3,6,7,10,11-hexakis(phenylthio)triphenylene and silver(I) triflate. *Journal of Solid State Chemistry*, **2006**, 179, 3688-3694	3.3	6
17	Three-dimensional nets from star-shaped hexakis(arylthio)triphenylene molecules and silver(I) salts. *Inorganic Chemistry*, **2006**, 45, 1032-7	5.1	26
16	A selective review on the making of coordination networks with potential semiconductive properties. *Coordination Chemistry Reviews*, **2006**, 250, 2745-2757	23.2	87

15	Small amphiphilic organics, coordination extended solids, and constant curvature structures. *Accounts of Chemical Research*, **2005**, 38, 251-61	24.3	65
14	Semiconductive coordination networks from bismuth(III) bromide and 1,2-bis(methylthio)phenylacetylene-based ligands. *Inorganic Chemistry*, **2005**, 44, 8855-60	5.1	25
13	Semiconductive Coordination Networks from 2,3,6,7,10,11-Hexakis(alkylthio)triphenylenes and Bismuth(III) Halides: Synthesis, Structure−Property Relations, and Solution Processing. *Chemistry of Materials*, **2005**, 17, 4426-4437	9.6	38
12	A Semiconductive Coordination Network Based on 2,3,6,7,10,11-Hexakis(methylthio)triphenylene and BiCl3. *Crystal Growth and Design*, **2005**, 5, 423-425	3.5	16
11	Fluorescent coordination networks of 2,3,6,7,10,11-hexakis(phenylthio)triphenylene and silver(I) triflate. *Inorganic Chemistry*, **2004**, 43, 8018-22	5.1	15
10	[(CH3)3NCH2CH2NH3]SnI4: a layered perovskite with quaternary/primary ammonium dications and short interlayer iodine-iodine contacts. *Inorganic Chemistry*, **2003**, 42, 1400-2	5.1	60
9	SnI42--Based Hybrid Perovskites Templated by Multiple Organic Cations: Combining Organic Functionalities through Noncovalent Interactions. *Chemistry of Materials*, **2003**, 15, 3632-3637	9.6	57
8	Semiconducting perovskites (2-XC6H4C2H4NH3)2SnI4 (X = F, Cl, Br): steric interaction between the organic and inorganic layers. *Inorganic Chemistry*, **2003**, 42, 2031-9	5.1	91
7	[CH(3)(CH(2))(11)NH(3)]SnI(3): a hybrid semiconductor with MoO(3)-type tin(II) iodide layers. *Inorganic Chemistry*, **2003**, 42, 6589-91	5.1	66
6	Structure rationalization and topology prediction of two-distinct-component organic crystals: the role of volume fraction and interface topology. *Journal of the American Chemical Society*, **2002**, 124, 121-35	16.4	18
5	Hydrophilic-to-Hydrophobic Volume Ratios as Structural Determinant in Small-Length Scale Amphiphilic Crystalline Systems: Silver Salts of Phenylacetylene Nitriles with Pendant Oligo(ethylene Oxide) Chains. *Journal of the American Chemical Society*, **2000**, 122, 8376-8391	16.4	58
4	Porous Siloxane Linked Phenylacetylene Nitrile Silver Salts from Solid State Dimerization and Low Polymerization. *Journal of the American Chemical Society*, **2000**, 122, 6871-6883	16.4	52
3	Variable Pore Size, Variable Chemical Functionality, and an Example of Reactivity within Porous Phenylacetylene Silver Salts. *Journal of the American Chemical Society*, **1999**, 121, 8204-8215	16.4	194
2	Coordination Networks of C3v and C2v Phenylacetylene Nitriles and Silver(I) Salts: Interplay of Ligand Symmetry and Molecular Dipole Moments in the Solid State *Chemistry of Materials*, **1999**, 11, 1776-1783	9.6	41
1	Supervariate Ceramics: Gelatinous and Monolithic Ceramics Fabricated under Ambient Conditions. *Advanced Engineering Materials*,2100866	3.5	2