Xin Zhao

List of Publications by Year in descending order

116 papers	6,355 citations	66315 42 h-index	71651 76 g-index
120 all docs	120 docs citations	120 times ranked	5444 citing authors

#	Article	IF	Citations
1	Toward a Two-Dimensional Supramolecular Organic Framework with High Degree of Internal Order via Amphiphilic Modification. CCS Chemistry, 2022, 4, 141-150.	4.6	13
2	A Simple Approach towards Highly Dense Graphene Films for High Volumetric Performance Supercapacitors. ChemElectroChem, 2022, 9, .	1.7	5
3	A two-step solvothermal procedure to improve crystallinity of covalent organic frameworks and achieve scale-up preparation. Chinese Chemical Letters, 2022, 33, 2464-2468.	4.8	15
4	Selfâ€Healing SeO₂ Additives Enable Zinc Metal Reversibility in Aqueous ZnSO₄ Electrolytes. Advanced Functional Materials, 2022, 32, .	7.8	71
5	Highly reversible zinc metal anodes enabled by protonated melamine. Journal of Materials Chemistry A, 2022, 10, 6636-6640.	5.2	21
6	A Facile, Efficient, and General Synthetic Method to Amide-Linked Covalent Organic Frameworks. Journal of the American Chemical Society, 2022, 144, 1138-1143.	6.6	89
7	A facile and scalable synthetic method for covalent organic nanosheets: ultrasonic polycondensation and photocatalytic degradation of organic pollutants. Chemical Science, 2022, 13, 1009-1015.	3.7	22
8	Toward azo-linked covalent organic frameworks by developing linkage chemistry via linker exchange. Nature Communications, 2022, 13, 2180.	5.8	53
9	Pore Engineering for Covalent Organic Framework Membranes. Chemical Research in Chinese Universities, 2022, 38, 364-372.	1.3	3
10	Effects of connecting sequences of building blocks on reticular synthesis of covalent organic frameworks. Nano Research, 2021, 14, 381-386.	5.8	16
11	[Fe(bpy)₃]²⁺-based porous organic polymers with boosted photocatalytic activity for recyclable organic transformations. Journal of Materials Chemistry A, 2021, 9, 6361-6367.	5.2	15
12	Enhancing the Photovoltaic Performance and Moisture Stability of Perovskite Solar Cells Via Polyfluoroalkylated Imidazolium Additives. ACS Applied Materials & Interfaces, 2021, 13, 4553-4559.	4.0	28
13	Enhanced photocatalytic CO₂ reduction by constructing an In₂O₃â€“CuO heterojunction with CuO as a cocatalyst. Catalysis Science and Technology, 2021, 11, 2713-2717.	2.1	18
14	A thiophene-derived hexaazatriphenylene (HAT) fluorescent sensor for the selective detection of Ag+ ion. Tetrahedron Letters, 2021, 68, 152911.	0.7	11
15	Stabilizing Zinc Anodes by Regulating the Electrical Double Layer with Saccharin Anions. Advanced Materials, 2021, 33, e2100445.	11.1	351
16	Extending Ï€â€Conjugation and Integrating Multiâ€Redox Centers into One Molecule for Highâ€Capacity Organic Cathodes. ChemSusChem, 2021, 14, 3858-3866.	3.6	17
17	Novel strategy of natural antioxidant nutrition quality evaluation in food: Oxidation resistance mechanism and synergistic effects investigation. Food Chemistry, 2021, 359, 129768.	4.2	16
18	A heteropore covalent organic framework for adsorptive removal of Cd(II) from aqueous solutions with high efficiency. Chinese Chemical Letters, 2020, 31, 386-390.	4.8	53

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19	Fabricating Organic Nanotubes through Selective Disassembly of Two-Dimensional Covalent Organic Frameworks. Journal of the American Chemical Society, 2020, 142, 70-74.	6.6	81
20	A rings-in-pores net: crown ether-based covalent organic frameworks for phase-transfer catalysis. Chemical Communications, 2020, 56, 595-598.	2.2	39
21	Viologen derivatives with extended Ï€-conjugation structures: From supra-/molecular building blocks to organic porous materials. Chinese Chemical Letters, 2020, 31, 1757-1767.	4.8	17
22	Sewable and Cuttable Flexible Zinc-Ion Hybrid Supercapacitor Using a Polydopamine/Carbon Cloth-Based Cathode. ACS Sustainable Chemistry and Engineering, 2020, 8, 16028-16036.	3.2	43
23	A Covalent Organic Framework with Extended Ï€-Conjugated Building Units as a Highly Efficient Recipient for Lithiumâ€“Sulfur Batteries. ACS Applied Materials & Interfaces, 2020, 12, 34990-34998.	4.0	50
24	Transformation between 2D covalent organic frameworks with distinct pore hierarchy via exchange of building blocks with different symmetries. Chemical Communications, 2020, 56, 15418-15421.	2.2	14
25	Designed Synthesis of a <scp>Twoâ€Dimensional</scp> Covalent Organic Framework with <scp>Threeâ€Level</scp> Hierarchical Porosity^{â€}. Chinese Journal of Chemistry, 2020, 38, 1676-1680.	2.6	15
26	Nickel-Coordinated Carbon Nitride as a Metallaphotoredox Platform for the Cross-Coupling of Aryl Halides with Alcohols. ACS Catalysis, 2020, 10, 15178-15185.	5.5	72
27	Carbon Nitride Quantum Dots Enhancing the Anodic Electrochemiluminescence of Ruthenium(II) Tris(2,2â€²-bipyridyl) via Inhibiting the Oxygen Evolution Reaction. Analytical Chemistry, 2020, 92, 15352-15360.	3.2	24
28	Two-dimensional covalent organic frameworks with hierarchical porosity. Chemical Society Reviews, 2020, 49, 3920-3951.	18.7	302
29	Nanoengineering Construction of Cu₂O Nanowire Arrays Encapsulated with g-C₃N₄ as 3D Spatial Reticulation All-Solid-State Direct Z-Scheme Photocatalysts for Photocatalytic Reduction of Carbon Dioxide. ACS Catalysis, 2020, 10, 6367-6376.	5.5	108
30	A Study on Constitutional Isomerism in Covalent Organic Frameworks: Controllable Synthesis, Transformation, and Distinct Difference in Properties. CCS Chemistry, 2020, 2, 139-145.	4.6	59
31	Self-Assembled Two-Dimensional Organic Layers in Solution Phase Based on Cucurbit[8]uril-Mediated Host-Guest Interactions. , 2020, , 673-694.		0
32	Self-Assembled Two-Dimensional Organic Layers in Solution Phase Based on Cucurbit[8]uril-Mediated Host-Guest Interactions. , 2019, , 1-22.		0
33	Rational design of crystalline two-dimensional frameworks with highly complicated topological structures. Nature Communications, 2019, 10, 4609.	5.8	54
34	Aminal-Linked Covalent Organic Frameworks through Condensation of Secondary Amine with Aldehyde. Journal of the American Chemical Society, 2019, 141, 14981-14986.	6.6	114
35	An amphiphilic supramolecular polymer: Construction, self-assembly and pH-responsive behavior in water. Tetrahedron Letters, 2019, 60, 1727-1731.	0.7	4
36	A gaseous hydrogen chloride chemosensor based on a 2D covalent organic framework. Chemical Communications, 2019, 55, 4550-4553.	2.2	107

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37	Large-scale synthesis of azine-linked covalent organic frameworks in water and promoted by water. New Journal of Chemistry, 2019, 43, 6116-6120.	1.4	40
38	Ligand directed debromination of tetrabromodiphenyl ether mediated by nickel under visible irradiation. Environmental Science: Nano, 2019, 6, 1585-1593.	2.2	18
39	Few layer covalent organic frameworks with graphene sheets as cathode materials for lithium-ion batteries. Nanoscale, 2019, 11, 5330-5335.	2.8	131
40	Soluble Two-dimensional Supramolecular Organic Frameworks (SOFs): An Emerging Class of 2D Supramolecular Polymers with Internal Long-range Orders. Chinese Journal of Polymer Science (English Edition), 2019, 37, 1-10.	2.0	22
41	Efficient Removal of Cr(VI) from Aqueous Solutions by a Dualâ€Pore Covalent Organic Framework. Advanced Sustainable Systems, 2019, 3, 1800150.	2.7	66
42	The construction of fluorescent heteropore covalent organic frameworks and their applications in spectroscopic and visual detection of trinitrophenol with high selectivity and sensitivity. Chemical Communications, 2018, 54, 2308-2311.	2.2	79
43	Recent advances of hexaazatriphenylene (HAT) derivatives: Their applications in self-assembly and porous organic materials. Tetrahedron Letters, 2018, 59, 592-604.	0.7	28
44	A design strategy for the construction of 2D heteropore covalent organic frameworks based on the combination of C_{2v} and D_{3h} symmetric building blocks. Polymer Chemistry, 2018, 9, 279-283.	1.9	19
45	Self-sorted pore-formation in the construction of heteropore covalent organic frameworks based on orthogonal reactions. Chemical Communications, 2018, 54, 880-883.	2.2	30
46	Materials genomics methods for high-throughput construction of COFs and targeted synthesis. Nature Communications, 2018, 9, 5274.	5.8	182
47	Heteropore covalent organic frameworks: a new class of porous organic polymers with well-ordered hierarchical porosities. Organic Chemistry Frontiers, 2018, 5, 3341-3356.	2.3	62
48	Synthesis of novel 2D in-plane anisotropic covalent organic frameworks through a solvent modulated orthogonal strategy. Polymer Chemistry, 2018, 9, 4288-4293.	1.9	10
49	Construction of 2D covalent organic frameworks by taking advantage of the variable orientation of imine bonds. Chemical Communications, 2017, 53, 2431-2434.	2.2	46
50	Ultrahigh volatile iodine uptake by hollow microspheres formed from a heteropore covalent organic framework. Chemical Communications, 2017, 53, 7266-7269.	2.2	224
51	A Case Study on the Influence of Substitutes on Interlayer Stacking of 2D Covalent Organic Frameworks. Chemistry - A European Journal, 2017, 23, 5668-5672.	1.7	38
52	Construction of Vesicles, Micro/Nanorods and Ultralong Nanotubes through the Selfâ€Assembly of Nonâ€Classical Amphiphiles with Rigid Conformation. Chinese Journal of Chemistry, 2017, 35, 429-434.	2.6	3
53	Construction of two heteropore covalent organic frameworks with Kagome lattices. CrystEngComm, 2017, 19, 4877-4881.	1.3	22
54	Toward Covalent Organic Frameworks Bearing Three Different Kinds of Pores: The Strategy for Construction and COF-to-COF Transformation via Heterogeneous Linker Exchange. Journal of the American Chemical Society, 2017, 139, 6736-6743.	6.6	217

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55	A supramolecular bottlebrush polymer assembled on the basis of cucurbit[8]uril-encapsulation-enhanced donorâ€“acceptor interaction. Chinese Chemical Letters, 2017, 28, 1167-1171.	4.8	26
56	Protonâ€anion Ionâ€pair Recognition by a Hexaazatriphenyleneâ€Hexaurea Receptor. Chinese Journal of Chemistry, 2017, 35, 392-396.	2.6	2
57	Regulating the topology of 2D covalent organic frameworks by the rational introduction of substituents. Chemical Science, 2017, 8, 3866-3870.	3.7	110
58	RNA-Seq Reveals the Angiogenesis Diversity between the Fetal and Adults Bone Mesenchyme Stem Cell. PLoS ONE, 2016, 11, e0149171.	1.1	2
59	Fluorescence enhancement through the formation of a single-layer two-dimensional supramolecular organic framework and its application in highly selective recognition of picric acid. Chemical Communications, 2016, 52, 7588-7591.	2.2	76
60	Two-dimensional dual-pore covalent organic frameworks obtained from the combination of two D_{2h} symmetrical building blocks. Chemical Communications, 2016, 52, 11704-11707.	2.2	61
61	Supramolecular radical polymers self-assembled from the stacking of radical cations of rod-like viologen di- and trimers. Organic Chemistry Frontiers, 2016, 3, 1635-1645.	2.3	34
62	Ultra-weak photon emission of hands in aging prediction. Journal of Photochemistry and Photobiology B: Biology, 2016, 162, 529-534.	1.7	20
63	Precision Construction of 2D Heteropore Covalent Organic Frameworks by a Multipleâ€Linkingâ€Site Strategy. Chemistry - A European Journal, 2016, 22, 17784-17789.	1.7	46
64	Synthesis, Photophysical and Electrochemical Properties, and Selfâ€assembly Behavior of Two Hexaazatriphenylene Derivatives: A Single Bond Makes a Big Difference. Chemistry - an Asian Journal, 2016, 11, 839-843.	1.7	4
65	Construction of Covalent Organic Frameworks Bearing Three Different Kinds of Pores through the Heterostructural Mixed Linker Strategy. Journal of the American Chemical Society, 2016, 138, 4710-4713.	6.6	249
66	Diversity of Covalent Organic Frameworks (COFs): A 2D COF Containing Two Kinds of Triangular Micropores of Different Sizes. ACS Macro Letters, 2016, 5, 99-102.	2.3	87
67	A thermally stable pH-responsive â€œsupramolecular buckleâ€•based on the encapsulation of 4-(4-aminophenyl)-N-methylpyridinium by cucurbit[8]uril. Organic Chemistry Frontiers, 2015, 2, 1030-1034.	2.3	4
68	The construction of single-layer two-dimensional supramolecular organic frameworks in water through the self-assembly of rigid vertexes and flexible edges. Polymer Chemistry, 2015, 6, 1923-1927.	1.9	49
69	A series of polyaromatic hydrocarbons conjugated viologens: synthesis, supramolecular structures in solid state, and electrochemical and photophysical properties. Tetrahedron, 2015, 71, 1124-1131.	1.0	5
70	The Organic Flatlandâ€”Recent Advances in Synthetic 2D Organic Layers. Advanced Materials, 2015, 27, 5762-5770.	11.1	162
71	A Triptyceneâ€Based Microporous Organic Polymer Bearing Tridentate Ligands and Its Application in Suzukiâ€“Miyaura Crossâ€Coupling Reaction. Macromolecular Rapid Communications, 2015, 36, 413-418.	2.0	26
72	Highly thermally stable hydrogels derived from monolayered two-dimensional supramolecular polymers. Polymer Chemistry, 2015, 6, 3018-3023.	1.9	38

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73	The construction of a two-dimensional supramolecular organic framework with parallelogram pores and stepwise fluorescence enhancement. Chemical Communications, 2015, 51, 16417-16420.	2.2	106
74	Donorâ€“acceptor interaction-driven folding of linear naphthaleneâ€“glycol oligomers templated by a rigid bipyridinium rod. Organic Chemistry Frontiers, 2015, 2, 1578-1583.	2.3	6
75	A Triptyceneâ€Based Porous Organic Polymer that Exhibited High Hydrogen and Carbon Dioxide Storage Capacities and Excellent CO₂/N₂ Selectivity. Chinese Journal of Chemistry, 2015, 33, 539-544.	2.6	8
76	The construction of supramolecular polymers through anion bridging: from frustrated hydrogen-bonding networks to well-ordered linear arrays. Polymer Chemistry, 2015, 6, 7586-7593.	1.9	11
77	Encapsulation Enhanced Dimerization of a Series of 4â€Arylâ€Nâ€Methylpyridinium Derivatives in Water: New Building Blocks for Selfâ€Assembly in Aqueous Media. Chemistry - an Asian Journal, 2014, 9, 1530-1534.	1.7	36
78	Three-dimensional periodic supramolecular organic framework ion sponge in water and microcrystals. Nature Communications, 2014, 5, 5574.	5.8	196
79	A two-dimensional single-layer supramolecular organic framework that is driven by viologen radical cation dimerization and further promoted by cucurbit[8]uril. Polymer Chemistry, 2014, 5, 4715-4721.	1.9	106
80	One-Step Construction of Two Different Kinds of Pores in a 2D Covalent Organic Framework. Journal of the American Chemical Society, 2014, 136, 15885-15888.	6.6	386
81	The construction of rigid supramolecular polymers in water through the self-assembly of rod-like monomers and cucurbit[8]uril. Chemical Communications, 2014, 50, 7982-7985.	2.2	31
82	Intramolecular Câ€“Hâ‹¯F hydrogen bonding-induced 1,2,3-triazole-based foldamers. Organic Chemistry Frontiers, 2014, 1, 494-500.	2.3	26
83	Solvothermal synthesis of Co₃O₄/Al₂O₃ hollow coreâ€“shell microspheres for the catalytic oxidation of CO. CrystEngComm, 2014, 16, 6126-6134.	1.3	6
84	A highly selective chemosensor for the detection of Cu2+ through the formation of coordination polymer. Tetrahedron Letters, 2014, 55, 6486-6489.	0.7	13
85	Selfâ€Assembly of Chiral Propellerâ€like Supermolecules with Unusual â€œSergeantsâ€andâ€Soldiersâ€• and â€œMajorityâ€Rulesâ€•Effects. Chemistry - an Asian Journal, 2014, 9, 754-758.	1.7	17
86	Coreâ€“Shell Al2O3-Supported Ni for High-Performance Catalytic Reforming of Toluene as a Model Compound of Tar. Arabian Journal for Science and Engineering, 2014, 39, 6671-6678.	1.1	9
87	Size-Controlled Synthesis of BiPO4 Nanostructures and Their Photocatalytic Performances. Arabian Journal for Science and Engineering, 2014, 39, 6721-6725.	1.1	6
88	Foldingâ€Induced Folding: The Assembly of Aromatic Amide and 1,2,3â€Triazole Hybrid Helices. Chemistry - A European Journal, 2014, 20, 1418-1426.	1.7	25
89	Highly selective recognition of fluoride anion through direct deprotonation of intramolecularly hydrogen-bonded phenolic hydroxyl groups. Tetrahedron Letters, 2013, 54, 5039-5042.	0.7	26
90	Novel three-dimensional Co3O4 dendritic superstructures: hydrothermal synthesis, formation mechanism and magnetic properties. CrystEngComm, 2013, 15, 1389.	1.3	73

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91	Single-Step Solution-Phase Synthesis of Free-Standing Two-Dimensional Polymers and Their Evolution into Hollow Spheres. Macromolecules, 2013, 46, 7745-7752.	2.2	102
92	Toward a Single-Layer Two-Dimensional Honeycomb Supramolecular Organic Framework in Water. Journal of the American Chemical Society, 2013, 135, 17913-17918.	6.6	349
93	Foldamer-based chiral supramolecular alternate block copolymers tuned by ion-pair binding. Chemical Communications, 2013, 49, 2673.	2.2	26
94	Synthesis, properties, and self-assembly of 2,3-bis(n-octyl)hexaazatriphenylene. Chinese Chemical Letters, 2013, 24, 453-456.	4.8	11
95	Assessment of the intramolecular Câ€“Hâ‹¯X (X=F, Cl, Br) hydrogen bonding of 1,4-diphenyl-1,2,3-triazoles. Tetrahedron, 2012, 68, 8857-8862.	1.0	24
96	A hexaazatriphenylene-based organogel that responds to silver(I) with high selectivity under aqueous condition. Tetrahedron Letters, 2012, 53, 1840-1842.	0.7	29
97	Redox-responsive morphology transformation of self-assembled nanostructures based on thiol-disulfide interconversion. Tetrahedron Letters, 2012, 53, 4447-4451.	0.7	2
98	Cï£¿Hâ‹…â‹…â‹…O Hydrogen Bonding Induced Triazole Foldamers: Efficient Halogen Bonding Receptors for Organohalogens. Angewandte Chemie - International Edition, 2012, 51, 1657-1661.	7.2	95
99	Low-temperature combustion synthesis of CuCr2O4 spinel powder for spectrally selective paints. Journal of Sol-Gel Science and Technology, 2012, 61, 281-288.	1.1	51
100	Tunable Coordinative Assembly of a Disc-Like Molecule and Metal Ions: From Mirospheres to Microtubes and Microrods. Chemistry of Materials, 2011, 23, 1505-1511.	3.2	28
101	Highly Stable Chiral (A)₆â€“B Supramolecular Copolymers: A Multivalency-Based Self-Assembly Process. Journal of the American Chemical Society, 2011, 133, 11124-11127.	6.6	62
102	meta-Substituted benzamide oligomers that complex mono-, di- and tricarboxylates: folding-induced selectivity and chirality. Organic and Biomolecular Chemistry, 2011, 9, 8122.	1.5	23
103	Solâ€“Gel Combustionâ€Derived CoCuMnO_x Spinels as Pigment for Spectrally Selective Paints. Journal of the American Ceramic Society, 2011, 94, 827-832.	1.9	33
104	Hydrogen Bonded Supramolecular Polymers in Both Apolar and Aqueous Media: Selfâ€Assembly and Reversible Conversion of Vesicles and Gels. Chinese Journal of Chemistry, 2011, 29, 2597-2605.	2.6	6
105	Programed self-assembly of microstructures: self-sorting based on size-matched disk-like molecules and remarkable cooperative reinforcement of hydrogen-bonding and donorâ€“acceptor interaction. Tetrahedron Letters, 2011, 52, 3836-3839.	0.7	7
106	Oligo(quinoxalineethynylene)s: synthesis, properties, and Ag+-mediated complanation. Chemical Communications, 2011, 47, 1524-1526.	2.2	9
107	Two novel quadruple hydrogen-bonding motifs: the formation of supramolecular polymers, vesicles, and organogels. Tetrahedron Letters, 2010, 51, 188-191.	0.7	14
108	Amide Chain. Chinese Journal of Chemistry, 2010, 28, 1547-1552.	2.6	3

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109	Photoinduced Electron Transfer within Porphyrinâ€Anthraâ€quinone Dyads Connected by Hamilton Hydrogen Bonding. Chinese Journal of Chemistry, 2010, 28, 1580-1586.	2.6	2
110	Hydrogenâ€Bonded Shapeâ€Persistent Aryl Hydrazide Polymers: Sideâ€Chainâ€Tuned Formation of Vesicles and Organogels. Macromolecular Chemistry and Physics, 2010, 211, 2090-2101.	1.1	11
111	Foldamers as Cross-Links for Tuning the Dynamic Mechanical Property of Methacrylate Copolymers. Macromolecules, 2010, 43, 6185-6192.	2.2	24
112	Construction of Microbelts through the Coassembly of a Disclike Molecule and Primary Alkyl Ammoniums: A Noncovalent Strategy to Mimic Covalently Bonded Ï€-Core Alkyl Chain Structure. Langmuir, 2010, 26, 13048-13051.	1.6	26
113	Controllable self-assemblies of micro/nano-tubes and vesicles from arylamides and their applications as templates to fabricate Pt micro/nano-tubes and hollow Pt nanospheres. Soft Matter, 2010, 6, 1246.	1.2	13
114	Hydrogen bonded aryl amide and hydrazide oligomers: a new generation of preorganized soft frameworks. Chemical Communications, 2010, 46, 1601.	2.2	87
115	Organic nanotubes assembled from isophthalamides and their application as templates to fabricate Pt nanotubes. Chemical Communications, 2009, , 4212.	2.2	11
116	Selfâ€assembly of Novel Hetero[3]rotaxane, [2]Rotaxanes and [2]Catenane. Chinese Journal of Chemistry, 2003, 21, 739-745.	2.6	8