

Yue-Biao Zhang

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.

88

papers

9,696

citations

38

h-index

98

g-index

101

ext. papers

11,564

ext. citations

12.1

avg, IF

6.43

L-index

#	Paper	IF	Citations
88	Reconstructed covalent organic frameworks.. <i>Nature</i> , 2022 , 604, 72-79	50.4	14
87	Flexible Metal-Organic Frameworks as CO ₂ Adsorbents en Route to Energy-Efficient Carbon Capture. <i>Small Structures</i> , 2022 , 3, 2270019	8.7	
86	Layer-by-layer (LBL) hollow fiber nanofiltration membranes for seawater treatment: Ion rejection. <i>Desalination</i> , 2022 , 534, 115793	10.3	0
85	Coordination modulated on-off switching of flexibility in a metal-organic framework. <i>Chemical Science</i> , 2021 , 12, 14893-14900	9.4	0
84	Titelbild: Thiazolo[5,4-d]thiazole-Based Donor-Acceptor Covalent Organic Framework for Sunlight-Driven Hydrogen Evolution (Angew. Chem. 4/2021). <i>Angewandte Chemie</i> , 2021 , 133, 1685-1685 ^{3,6}		
83	Docking MOF crystals on graphene support for highly selective electrocatalytic peroxide production. <i>Nano Research</i> , 2021 , 1-8	10	2
82	Covalent Organic Frameworks for Sunlight-driven Hydrogen Evolution. <i>Chemistry Letters</i> , 2021 , 50, 676-686	6	
81	Mitigation of gypsum and silica scaling in membrane distillation by pulse flow operation. <i>Journal of Membrane Science</i> , 2021 , 624, 119107	9.6	11
80	Physicochemical Understanding of the Impact of Pore Environment and Species of Adsorbates on Adsorption Behaviour. <i>Angewandte Chemie</i> , 2021 , 133, 20667-20673	3.6	0
79	New Reticular Chemistry of the Rod Secondary Building Unit: Synthesis, Structure, and Natural Gas Storage of a Series of Three-Way Rod Amide-Functionalized Metal-Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2021 , 143, 12202-12211	16.4	10
78	Docking of CuI and AgI in Metal-Organic Frameworks for Adsorption and Separation of Xenon. <i>Angewandte Chemie</i> , 2021 , 133, 3459-3463	3.6	5
77	Docking of Cu and Ag in Metal-Organic Frameworks for Adsorption and Separation of Xenon. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 3417-3421	16.4	26
76	Thiazolo[5,4-d]thiazole-Based Donor-Acceptor Covalent Organic Framework for Sunlight-Driven Hydrogen Evolution. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 1869-1874	16.4	59
75	Thiazolo[5,4-d]thiazole-Based Donor-Acceptor Covalent Organic Framework for Sunlight-Driven Hydrogen Evolution. <i>Angewandte Chemie</i> , 2021 , 133, 1897-1902	3.6	10
74	Reticular materials for electrochemical reduction of CO ₂ . <i>Coordination Chemistry Reviews</i> , 2021 , 427, 213564	23.2	13
73	Innen-Titelbild: Docking of CuI and AgI in Metal-Organic Frameworks for Adsorption and Separation of Xenon (Angew. Chem. 7/2021). <i>Angewandte Chemie</i> , 2021 , 133, 3867-3867	3.6	
72	Physicochemical Understanding of the Impact of Pore Environment and Species of Adsorbates on Adsorption Behaviour. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 20504-20510	16.4	2

71	Tracking Ultrafast Fluorescence Switch-On and Color-Tuned Dynamics in Acceptor-Donor-Acceptor Chromophore. <i>Journal of Physical Chemistry B</i> , 2021 , 125, 10796-10804	3.4	4
70	Fine-Tuning the Micro-Environment to Optimize the Catalytic Activity of Enzymes Immobilized in Multivariate Metal-Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2021 , 143, 15378-15390	16.4	14
69	A Three-Dimensional sp Carbon-Conjugated Covalent Organic Framework. <i>Journal of the American Chemical Society</i> , 2021 , 143, 15562-15566	16.4	13
68	Covalently Connected NbNO-MoS Heterocatalysts with Desired Electron Density to Boost Hydrogen Evolution. <i>ACS Nano</i> , 2020 , 14, 4925-4937	16.7	31
67	How to create MOF glasses and take advantage of emerging opportunities. <i>Science Bulletin</i> , 2020 , 65, 1432-1435	10.6	7
66	Modulator-Induced Zr-MOFs Diversification and Investigation of Their Properties in Gas Sorption and Fe Ion Sensing. <i>Inorganic Chemistry</i> , 2020 , 59, 2961-2968	5.1	16
65	Robust Metal-Triazolate Frameworks for CO Capture from Flue Gas. <i>Journal of the American Chemical Society</i> , 2020 , 142, 2750-2754	16.4	70
64	Unravelling Crystal Structures of Covalent Organic Frameworks by Electron Diffraction Tomography. <i>Chinese Journal of Chemistry</i> , 2020 , 38, 1153-1166	4.9	12
63	Unprecedented scaling/fouling resistance of omniphobic polyvinylidene fluoride membrane with silica nanoparticle coated micropillars in direct contact membrane distillation. <i>Journal of Membrane Science</i> , 2020 , 599, 117819	9.6	48
62	Improvement of permeability and rejection of an acid resistant polysulfonamide thin-film composite nanofiltration membrane by a sulfonated poly(ether ether ketone) interlayer. <i>Separation and Purification Technology</i> , 2020 , 239, 116528	8.3	20
61	Water-Soluble 3D Covalent Organic Framework that Displays an Enhanced Enrichment Effect of Photosensitizers and Catalysts for the Reduction of Protons to H ₂ . <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 1404-1411	9.5	28
60	Enhancing the Gas Separation Selectivity of Mixed-Matrix Membranes Using a Dual-Interfacial Engineering Approach. <i>Journal of the American Chemical Society</i> , 2020 , 142, 18503-18512	16.4	29
59	Water-Soluble Flexible Organic Frameworks That Include and Deliver Proteins. <i>Journal of the American Chemical Society</i> , 2020 , 142, 3577-3582	16.4	31
58	Diverse crystal size effects in covalent organic frameworks. <i>Nature Communications</i> , 2020 , 11, 6128	17.4	13
57	A metal-organic framework supported iridium catalyst for the gas phase hydrogenation of ethylene. <i>Chemical Communications</i> , 2020 , 56, 15313-15316	5.8	4
56	Anisotropic reticular chemistry. <i>Nature Reviews Materials</i> , 2020 , 5, 764-779	73.3	72
55	Impact of SPEEK on PEEK membranes: Demixing, morphology and performance enhancement in lithium membrane extraction. <i>Journal of Membrane Science</i> , 2020 , 615, 118448	9.6	10
54	Direct-Space Structure Determination of Covalent Organic Frameworks from 3D Electron Diffraction Data. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 22638-22644	16.4	6

53	Oxidative Aromatization of Biobased Chemicals to Benzene Derivatives through Tandem Catalysis. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 14322-14329	8.3	4
52	Direct-Space Structure Determination of Covalent Organic Frameworks from 3D Electron Diffraction Data. <i>Angewandte Chemie</i> , 2020 , 132, 22827-22833	3.6	1
51	Anion exchange-induced single-molecule dispersion of cobalt porphyrins in a cationic porous organic polymer for enhanced electrochemical CO ₂ reduction via secondary-coordination sphere interactions. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 18677-18686	13	10
50	Cooperative Capture of Uranyl Ions by a Carbonyl-Bearing Hierarchical-Porous Cu-Organic Framework. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 18808-18812	16.4	25
49	3-[[3-(Triethoxysilyl)-propyl] amino] propane-1-sulfonic acid zwitterion grafted polyvinylidene fluoride antifouling membranes for concentrating greywater in direct contact membrane distillation. <i>Desalination</i> , 2019 , 455, 71-78	10.3	16
48	Atomic-Level Characterization of Dynamics of a 3D Covalent Organic Framework by Cryo-Electron Diffraction Tomography. <i>Journal of the American Chemical Society</i> , 2019 , 141, 10962-10966	16.4	36
47	Isotherms of individual pores by gas adsorption crystallography. <i>Nature Chemistry</i> , 2019 , 11, 562-570	17.6	64
46	Harnessing Bottom-Up Self-Assembly To Position Five Distinct Components in an Ordered Porous Framework. <i>Angewandte Chemie</i> , 2019 , 131, 5402-5407	3.6	8
45	A Robust Ethane-Trapping Metal-Organic Framework with a High Capacity for Ethylene Purification. <i>Journal of the American Chemical Society</i> , 2019 , 141, 5014-5020	16.4	164
44	An Allosteric Metal-Organic Framework That Exhibits Multiple Pore Configurations for the Optimization of Hydrocarbon Separation. <i>Chemistry - an Asian Journal</i> , 2019 , 14, 3552-3556	4.5	5
43	Forward osmosis concentration of a vanadium leaching solution. <i>Journal of Membrane Science</i> , 2019 , 582, 164-171	9.6	10
42	Harnessing Bottom-Up Self-Assembly To Position Five Distinct Components in an Ordered Porous Framework. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 5348-5353	16.4	32
41	Slippery for scaling resistance in membrane distillation: A novel porous micropillared superhydrophobic surface. <i>Water Research</i> , 2019 , 155, 152-161	12.5	107
40	Guest-Dependent Dynamics in a 3D Covalent Organic Framework. <i>Journal of the American Chemical Society</i> , 2019 , 141, 3298-3303	16.4	60
39	(003)-Facet-exposed Ni ₃ S ₂ nanoporous thin films on nickel foil for efficient water splitting. <i>Applied Catalysis B: Environmental</i> , 2019 , 243, 693-702	21.8	82
38	Secondary-amine-functionalized isoreticular metal-organic frameworks for controllable and selective dye capture. <i>Materials Chemistry Frontiers</i> , 2018 , 2, 129-135	7.8	24
37	Renaissance of the Methane Adsorbents. <i>Israel Journal of Chemistry</i> , 2018 , 58, 985-994	3.4	6
36	Organic-Inorganic Layered and Hollow Tin Bromide Perovskite with Tunable Broadband Emission. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 34363-34369	9.5	58

35	Principles of Designing Extra-Large Pore Openings and Cages in Zeolitic Imidazolate Frameworks. <i>Journal of the American Chemical Society</i> , 2017 , 139, 6448-6455	16.4	146
34	A Dynamic Three-Dimensional Covalent Organic Framework. <i>Journal of the American Chemical Society</i> , 2017 , 139, 4995-4998	16.4	136
33	Engineering of Pore Geometry for Ultrahigh Capacity Methane Storage in Mesoporous Metal-Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2017 , 139, 13300-13303	16.4	106
32	Crystallization of Covalent Organic Frameworks for Gas Storage Applications. <i>Molecules</i> , 2017 , 22,	4.8	70
31	High Methane Storage Working Capacity in Metal-Organic Frameworks with Acrylate Links. <i>Journal of the American Chemical Society</i> , 2016 , 138, 10244-51	16.4	201
30	Characterization of Adsorption Enthalpy of Novel Water-Stable Zeolites and Metal-Organic Frameworks. <i>Scientific Reports</i> , 2016 , 6, 19097	4.9	44
29	Supramolecular-jack-like guest in ultramicroporous crystal for exceptional thermal expansion behaviour. <i>Nature Communications</i> , 2015 , 6, 6917	17.4	83
28	Covalent organic frameworks comprising cobalt porphyrins for catalytic CO ₂ reduction in water. <i>Science</i> , 2015 , 349, 1208-13	33.3	154 ⁰
27	Introduction of functionality, selection of topology, and enhancement of gas adsorption in multivariate metal-organic framework-177. <i>Journal of the American Chemical Society</i> , 2015 , 137, 2641-50	16.4	285
26	Tunable electrical conductivity in oriented thin films of tetrathiafulvalene-based covalent organic framework. <i>Chemical Science</i> , 2014 , 5, 4693-4700	9.4	235
25	Superacidity in sulfated metal-organic framework-808. <i>Journal of the American Chemical Society</i> , 2014 , 136, 12844-7	16.4	350
24	Supercapacitors of nanocrystalline metal-organic frameworks. <i>ACS Nano</i> , 2014 , 8, 7451-7	16.7	54 ⁰
23	Water adsorption in porous metal-organic frameworks and related materials. <i>Journal of the American Chemical Society</i> , 2014 , 136, 4369-81	16.4	1433
22	Single-crystal structure of a covalent organic framework. <i>Journal of the American Chemical Society</i> , 2013 , 135, 16336-9	16.4	277
21	Direct visualization of a guest-triggered crystal deformation based on a flexible ultramicroporous framework. <i>Nature Communications</i> , 2013 , 4, 2534	17.4	106
20	Toward a single-layer two-dimensional honeycomb supramolecular organic framework in water. <i>Journal of the American Chemical Society</i> , 2013 , 135, 17913-8	16.4	287
19	New Zn-Aminotriazolate-Dicarboxylate Frameworks: Synthesis, Structures, and Adsorption Properties. <i>Crystal Growth and Design</i> , 2013 , 13, 2118-2123	3.5	64
18	Achiral diamondoid or chiral quartz net: the effect of substituents in the topology and catenation of coordination polymers based on tetrahedral Cd(COO) ₄ building units. <i>CrystEngComm</i> , 2013 , 15, 3470	3.3	12

17	Geometry analysis and systematic synthesis of highly porous isorecticular frameworks with a unique topology. <i>Nature Communications</i> , 2012 , 3, 642	17.4	139
16	Layer-by-layer evolution and a hysteretic single-crystal to single-crystal transformation cycle of a flexible pillared-layer open framework. <i>Chemical Communications</i> , 2012 , 48, 133-5	5.8	48
15	Porous coordination polymers constructed from anisotropic metal-carboxylate-pyridyl clusters. <i>Pure and Applied Chemistry</i> , 2012 , 85, 405-416	2.1	12
14	From Nonporous to Porous Doubly-Pillared-Layer Framework: Control over Interpenetration via Shape Alteration of Layer Apertures. <i>Crystal Growth and Design</i> , 2012 , 12, 1626-1631	3.5	20
13	Metal azolate frameworks: from crystal engineering to functional materials. <i>Chemical Reviews</i> , 2012 , 112, 1001-33	68.1	1337
12	Buffering additive effect in the formation of metal-carboxylate frameworks with slightly different linear M ₃ (RCOO) ₆ clusters. <i>CrystEngComm</i> , 2011 , 13, 4196	3.3	25
11	A one-dimensional coordination polymer exhibiting simultaneous spin-crossover and semiconductor behaviour. <i>Chemical Communications</i> , 2011 , 47, 10233-5	5.8	44
10	An octacobalt cluster based, (3,12)-connected, magnetic, porous coordination polymer. <i>Chemical Communications</i> , 2010 , 46, 6311-3	5.8	112
9	Two temperature-induced isomers of metal-carboxylate frameworks based on different linear trinuclear Co ₃ (RCOO) ₈ clusters exhibiting different magnetic behaviours. <i>CrystEngComm</i> , 2010 , 12, 3834-3	2.3	49
8	A Highly Connected Porous Coordination Polymer with Unusual Channel Structure and Sorption Properties. <i>Angewandte Chemie</i> , 2009 , 121, 5391-5394	3.6	36
7	A highly connected porous coordination polymer with unusual channel structure and sorption properties. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 5287-90	16.4	354
6	Syntheses, structures and magnetic properties of a family of metal carboxylate polymers via in situ metal-ligand reactions of benzene-1,2,3-tricarboxylic acid. <i>Dalton Transactions</i> , 2009 , 1396-406	4.3	68
5	Two microporous metal-organic frameworks with different topologies constructed from linear trinuclear M ₃ (COO) _n secondary building units. <i>CrystEngComm</i> , 2008 , 10, 753	3.3	55
4	Pillaring Zn-Triazolate Layers with Flexible Aliphatic Dicarboxylates into Three-Dimensional Metal-Organic Frameworks. <i>Crystal Growth and Design</i> , 2008 , 8, 3673-3679	3.5	89
3	Microwave-Assisted Solvothermal Synthesis of a Dynamic Porous Metal-Carboxylate Framework. <i>Crystal Growth and Design</i> , 2008 , 8, 4559-4563	3.5	73
2	Control over interpenetration for boosting methane storage capacity in metal-organic frameworks. <i>Journal of Materials Chemistry A</i> ,	13	2
1	Flexible Metal-Organic Frameworks as CO ₂ Adsorbents en Route to Energy-Efficient Carbon Capture. <i>Small Structures</i> , 2100209	8.7	5