Yong Cui

List of Publications by Citations

122 papers	8,922 citations	51 h-index	93 g-index
127 ext. papers	10,846 ext. citations	12.9 avg, IF	6.7 L-index

#	Paper	IF	Citations
122	Engineering homochiral metal-organic frameworks for heterogeneous asymmetric catalysis and enantioselective separation. *Advanced Materials*, **2010**, 22, 4112-35	24	743
121	Mesoporous metal-organic framework materials. *Chemical Society Reviews*, **2012**, 41, 1677-95	58.5	711
120	Homochiral 2D Porous Covalent Organic Frameworks for Heterogeneous Asymmetric Catalysis. *Journal of the American Chemical Society*, **2016**, 138, 12332-5	16.4	336
119	Interlocked chiral nanotubes assembled from quintuple helices. *Journal of the American Chemical Society*, **2003**, 125, 6014-5	16.4	323
118	Chiral Covalent Organic Frameworks with High Chemical Stability for Heterogeneous Asymmetric Catalysis. *Journal of the American Chemical Society*, **2017**, 139, 8693-8697	16.4	289
117	A chiral quadruple-stranded helicate cage for enantioselective recognition and separation. *Journal of the American Chemical Society*, **2012**, 134, 6904-7	16.4	267
116	Chiral 3D Covalent Organic Frameworks for High Performance Liquid Chromatographic Enantioseparation. *Journal of the American Chemical Society*, **2018**, 140, 892-895	16.4	254
115	A homochiral metal-organic framework as an effective asymmetric catalyst for cyanohydrin synthesis. *Journal of the American Chemical Society*, **2014**, 136, 1746-9	16.4	228
114	Chiral nanoporous metal-metallosalen frameworks for hydrolytic kinetic resolution of epoxides. *Journal of the American Chemical Society*, **2012**, 134, 8058-61	16.4	227
113	A homochiral nanotubular crystalline framework of metallomacrocycles for enantioselective recognition and separation. *Journal of the American Chemical Society*, **2008**, 130, 4582-3	16.4	206
112	Multivariate Chiral Covalent Organic Frameworks with Controlled Crystallinity and Stability for Asymmetric Catalysis. *Journal of the American Chemical Society*, **2017**, 139, 8277-8285	16.4	186
111	Engineering chiral porous metal-organic frameworks for enantioselective adsorption and separation. *Nature Communications*, **2014**, 5, 4406	17.4	183
110	Multivariate Metal-Organic Frameworks as Multifunctional Heterogeneous Asymmetric Catalysts for Sequential Reactions. *Journal of the American Chemical Society*, **2017**, 139, 8259-8266	16.4	180
109	Rational design of homochiral solids based on two-dimensional metal carboxylates. *Angewandte Chemie - International Edition*, **2002**, 41, 1159-62	16.4	176
108	Chiral nanoscale metal-organic tetrahedral cages: diastereoselective self-assembly and enantioselective separation. *Angewandte Chemie - International Edition*, **2010**, 49, 4121-4	16.4	172
107	Design and Assembly of Chiral Coordination Cages for Asymmetric Sequential Reactions. *Journal of the American Chemical Society*, **2018**, 140, 2251-2259	16.4	152
106	Chiral octupolar metal-organoboron NLO frameworks with (14,3) topology. *Angewandte Chemie - International Edition*, **2008**, 47, 4538-41	16.4	140

105	Self-assembly of a homochiral nanoscale metallacycle from a metallosalen complex for enantioselective separation. *Angewandte Chemie - International Edition*, **2008**, 47, 1245-9	16.4	135
104	Chiral BINOL-Based Covalent Organic Frameworks for Enantioselective Sensing. *Journal of the American Chemical Society*, **2019**, 141, 7081-7089	16.4	131
103	Anion-driven conformational polymorphism in homochiral helical coordination polymers. *Journal of the American Chemical Society*, **2009**, 131, 10452-60	16.4	119
102	Chiral induction in covalent organic frameworks. *Nature Communications*, **2018**, 9, 1294	17.4	105
101	Chiral MetalOrganic Framework as a Platform for Cooperative Catalysis in Asymmetric Cyanosilylation of Aldehydes. *ACS Catalysis*, **2016**, 6, 7590-7596	13.1	104
100	Design and Assembly of a Chiral Metallosalen-Based Octahedral Coordination Cage for Supramolecular Asymmetric Catalysis. *Angewandte Chemie - International Edition*, **2018**, 57, 2085-2090	16.4	103
99	Highly Interpenetrated MetalOrganic Frameworks for Hydrogen Storage. *Angewandte Chemie*, **2005**, 117, 74-77	3.6	101
98	Control Interlayer Stacking and Chemical Stability of Two-Dimensional Covalent Organic Frameworks via Steric Tuning. *Journal of the American Chemical Society*, **2018**, 140, 16124-16133	16.4	101
97	Chiral covalent organic frameworks: design, synthesis and property. *Chemical Society Reviews*, **2020**, 49, 6248-6272	58.5	97
96	Microporous 3D Covalent Organic Frameworks for Liquid Chromatographic Separation of Xylene Isomers and Ethylbenzene. *Journal of the American Chemical Society*, **2019**, 141, 8996-9003	16.4	96
95	A homochiral triple helix constructed from an axially chiral bipyridine. *Chemical Communications*, **2003**, 1388-9	5.8	96
94	Controlled Exchange of Achiral Linkers with Chiral Linkers in Zr-Based UiO-68 Metal-Organic Framework. *Journal of the American Chemical Society*, **2018**, 140, 16229-16236	16.4	95
93	Chiral NH-Controlled Supramolecular Metallacycles. *Journal of the American Chemical Society*, **2017**, 139, 1554-1564	16.4	94
92	Metal-Covalent Organic Frameworks (MCOFs): A Bridge Between Metal-Organic Frameworks and Covalent Organic Frameworks. *Angewandte Chemie - International Edition*, **2020**, 59, 13722-13733	16.4	92
91	Boosting Chemical Stability, Catalytic Activity, and Enantioselectivity of Metal-Organic Frameworks for Batch and Flow Reactions. *Journal of the American Chemical Society*, **2017**, 139, 13476-13482	16.4	89
90	Boosting Enantioselectivity of Chiral Organocatalysts with Ultrathin Two-Dimensional Metal-Organic Framework Nanosheets. *Journal of the American Chemical Society*, **2019**, 141, 17685-17695	16.4	88
89	A chiral porous metallosalan-organic framework containing titanium-oxo clusters for enantioselective catalytic sulfoxidation. *Chemical Science*, **2013**, 4, 3154	9.4	88
88	Nanochannels of Covalent Organic Frameworks for Chiral Selective Transmembrane Transport of Amino Acids. *Journal of the American Chemical Society*, **2019**, 141, 20187-20197	16.4	88

87	Supramolecular Coordination Cages for Asymmetric Catalysis. *Chemistry - A European Journal*, **2019**, 25, 662-672	4.8	81
86	Highly Stable Zr(IV)-Based Metal-Organic Frameworks with Chiral Phosphoric Acids for Catalytic Asymmetric Tandem Reactions. *Journal of the American Chemical Society*, **2019**, 141, 7498-7508	16.4	79
85	Enantioselective recognition and separation by a homochiral porous lamellar solid based on unsymmetrical Schiff base metal complexes. *Chemistry - A European Journal*, **2009**, 15, 6428-34	4.8	79
84	A highly fluorescent metallosalalen-based chiral cage for enantioselective recognition and sensing. *Chemistry - A European Journal*, **2014**, 20, 6455-61	4.8	76
83	Chiral metal-organic frameworks bearing free carboxylic acids for organocatalyst encapsulation. *Angewandte Chemie - International Edition*, **2014**, 53, 13821-5	16.4	75
82	Sixteen isostructural phosphonate metal-organic frameworks with controlled Lewis acidity and chemical stability for asymmetric catalysis. *Nature Communications*, **2017**, 8, 2171	17.4	75
81	Chiral porous organic frameworks for asymmetric heterogeneous catalysis and gas chromatographic separation. *Chemical Communications*, **2014**, 50, 14949-52	5.8	75
80	Permanent porous hydrogen-bonded frameworks with two types of Brønsted acid sites for heterogeneous asymmetric catalysis. *Nature Communications*, **2019**, 10, 600	17.4	72
79	Homochiral 3D lanthanide coordination networks with an unprecedented 4(9)6(6) topology. *Chemical Communications*, **2002**, 1666-7	5.8	68
78	Engineering chiral Fe(salen)-based metal-organic frameworks for asymmetric sulfide oxidation. *Chemical Communications*, **2014**, 50, 8775-8	5.8	63
77	Hierarchical assembly of homochiral porous solids using coordination and hydrogen bonds. *Inorganic Chemistry*, **2003**, 42, 652-4	5.1	63
76	Direct and post-synthesis incorporation of chiral metallosalen catalysts into metal-organic frameworks for asymmetric organic transformations. *Chemistry - A European Journal*, **2015**, 21, 12581-5	4.8	61
75	Metallosalen-based crystalline porous materials: Synthesis and property. *Coordination Chemistry Reviews*, **2019**, 378, 483-499	23.2	61
74	Rational synthesis of interpenetrated 3D covalent organic frameworks for asymmetric photocatalysis. *Chemical Science*, **2019**, 11, 1494-1502	9.4	59
73	New rigid angular dicarboxylic acid for the construction of nanoscopic supramolecules: from a molecular rectangle to a 1-D coordination polymer. *Inorganic Chemistry*, **2002**, 41, 1033-5	5.1	58
72	Homochiral 3D open frameworks assembled from 1- and 2-D coordination polymers. *Chemical Communications*, **2003**, 994-5	5.8	52
71	Reticular Synthesis of tbo Topology Covalent Organic Frameworks. *Journal of the American Chemical Society*, **2020**, 142, 16346-16356	16.4	51
70	A homochiral porous metal-organic framework for enantioselective adsorption of mandelates and photocyclizaton of tropolone ethers. *Chemical Communications*, **2013**, 49, 8253-5	5.8	50

69	Design and self-assembly of hexahedral coordination cages for cascade reactions. *Nature Communications*, **2018**, 9, 4423	17.4	49
68	Research of mercury removal from sintering flue gas of iron and steel by the open metal site of Mil-101(Cr). *Journal of Hazardous Materials*, **2018**, 351, 301-307	12.8	46
67	Crystalline C-C and C?C Bond-Linked Chiral Covalent Organic Frameworks. *Journal of the American Chemical Society*, **2021**, 143, 369-381	16.4	44
66	Multivariate crystalline porous materials: Synthesis, property and potential application. *Coordination Chemistry Reviews*, **2019**, 385, 174-190	23.2	42
65	A Cr(salen)-based metal-organic framework as a versatile catalyst for efficient asymmetric transformations. *Chemical Communications*, **2016**, 52, 13167-13170	5.8	42
64	Highly Stable Zr(IV)-Based Metal-Organic Frameworks for Chiral Separation in Reversed-Phase Liquid Chromatography. *Journal of the American Chemical Society*, **2021**, 143, 390-398	16.4	42
63	Chiral microporous Ti(salan)-based metal-organic frameworks for asymmetric sulfoxidation. *Chemical Communications*, **2013**, 49, 7120-2	5.8	39
62	Chiral DHIP-Based Metal-Organic Frameworks for Enantioselective Recognition and Separation. *Inorganic Chemistry*, **2016**, 55, 7229-32	5.1	36
61	Chiral DHIP- and Pyrrolidine-Based Covalent Organic Frameworks for Asymmetric Catalysis. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 5065-5071	8.3	35
60	Chiral Cu(salen)-Based Metal-Organic Framework for Heterogeneously Catalyzed Aziridination and Amination of Olefins. *Inorganic Chemistry*, **2016**, 55, 12500-12503	5.1	35
59	Combined effects of Ag and UiO-66 for removal of elemental mercury from flue gas. *Chemosphere*, **2018**, 197, 65-72	8.4	31
58	Metal Covalent Organic Frameworks (MCOFs): A Bridge Between Metal Organic Frameworks and Covalent Organic Frameworks. *Angewandte Chemie*, **2020**, 132, 13826-13837	3.6	30
57	Metal-organic frameworks as solid Br nsted acid catalysts for advanced organic transformations. *Coordination Chemistry Reviews*, **2020**, 420, 213400	23.2	29
56	Chiral Metal-Organic Framework Decorated with TEMPO Radicals for Sequential Oxidation/Asymmetric Cyanation Catalysis. *Inorganic Chemistry*, **2018**, 57, 9786-9789	5.1	29
55	Self-assembly of nanoscale, porous T-symmetric molecular adamantanoids. *Inorganic Chemistry*, **2002**, 41, 5940-2	5.1	28
54	Single-Crystalline Ultrathin 2D Porous Nanosheets of Chiral Metal-Organic Frameworks. *Journal of the American Chemical Society*, **2021**, 143, 3509-3518	16.4	28
53	Topology-Based Functionalization of Robust Chiral Zr-Based Metal-Organic Frameworks for Catalytic Enantioselective Hydrogenation. *Journal of the American Chemical Society*, **2020**, 142, 9642-9652	16.4	27
52	Supramolecular Chirality in Metal-Organic Complexes. *Accounts of Chemical Research*, **2021**, 54, 194-206	24.3	27

51	Chiral Phosphoric Acids in Metal-Organic Frameworks with Enhanced Acidity and Tunable Catalytic Selectivity. *Angewandte Chemie - International Edition*, **2019**, 58, 14748-14757	16.4	24
50	Nano- and microcrystals of a Mn-based metal-oligomer framework showing size-dependent magnetic resonance behaviors. *Chemical Communications*, **2011**, 47, 3180-2	5.8	24
49	Single crystals of mechanically entwined helical covalent polymers. *Nature Chemistry*, **2021**, 13, 660-665	17.6	20
48	Chiral binary metal-organic frameworks for asymmetric sequential reactions. *Chemical Communications*, **2017**, 53, 12313-12316	5.8	19
47	Enantioselective Separation over a Chiral Biphenol-Based Metal-Organic Framework. *Inorganic Chemistry*, **2018**, 57, 8697-8700	5.1	19
46	Chiral Metal‐Organic Frameworks Bearing Free Carboxylic Acids for Organocatalyst Encapsulation. *Angewandte Chemie*, **2014**, 126, 14041-14045	3.6	18
45	Chiral metal-organic frameworks with tunable catalytic selectivity in asymmetric transfer hydrogenation reactions. *Nano Research*, **2021**, 14, 466-472	10	18
44	Metal‐and Covalent Organic Frameworks Threaded with Chiral Polymers for Heterogeneous Asymmetric Catalysis. *Organometallics*, **2019**, 38, 3474-3479	3.8	15
43	Homochiral helical coordination polymers of metallosalen complexes with tunable pitches. *CrystEngComm*, **2010**, 12, 2424	3.3	15
42	Confinement-Driven Enantioselectivity in 3D Porous Chiral Covalent Organic Frameworks. *Angewandte Chemie - International Edition*, **2021**, 60, 6086-6093	16.4	15
41	Free-standing homochiral 2D monolayers by exfoliation of molecular crystals.. *Nature*, **2022**, 602, 606-611	50.4	14
40	Bottom-Up Assembly from a Helicate to Homochiral Micro- and Mesoporous Metal‐Organic Frameworks. *Angewandte Chemie*, **2011**, 123, 1186-1190	3.6	13
39	Fine-Tuning of Chiral Microenvironments within Triple-Stranded Helicates for Enhanced Enantioselectivity. *Angewandte Chemie - International Edition*, **2021**, 60, 16568-16575	16.4	13
38	Design and Assembly of a Chiral Metallosalen-Based Octahedral Coordination Cage for Supramolecular Asymmetric Catalysis. *Angewandte Chemie*, **2018**, 130, 2107-2112	3.6	12
37	Synthesis and X-ray Structures of Zinc and Cadmium Pyridinecarboxylate Coordination Networks. *Crystal Growth and Design*, **2002**, 2, 409-414	3.5	12
36	Triple-Stranded Cluster Helicates for the Selective Catalytic Oxidation of C-H Bonds. *Inorganic Chemistry*, **2016**, 55, 10102-10105	5.1	12
35	Molecular Engineering of Aromatic Imides for Organic Secondary Batteries. *Small*, **2021**, 17, e2005752	11	12
34	Efficient CH/CO Separation in Ultramicroporous Metal-Organic Frameworks with Record CH Storage Density. *Journal of the American Chemical Society*, **2021**, 143, 14869-14876	16.4	12

33	Endohedral functionalization of chiral metal-organic cages for encapsulating achiral dyes to induce circularly polarized luminescence. *CheM*, **2021**,	16.2	12
32	How Reproducible are Surface Areas Calculated from the BET Equation?. *Advanced Materials*,2201502	24	12
31	Design and assembly of a chiral composite metal-organic framework for efficient asymmertric sequential transformation of alkenes to amino alcohols. *Chemical Communications*, **2019**, 55, 9136-9139	5.8	11
30	Chiral Phosphoric Acids in Metal Organic Frameworks with Enhanced Acidity and Tunable Catalytic Selectivity. *Angewandte Chemie*, **2019**, 131, 14890-14899	3.6	10
29	Chiral Porous TADDOL-Embedded Organic Polymers for Asymmetric Diethylzinc Addition to Aldehydes. *Bulletin of the Chemical Society of Japan*, **2014**, 87, 435-440	5.1	10
28	Synthesis, structure and property of boron-based metal organic materials. *Coordination Chemistry Reviews*, **2021**, 435, 213783	23.2	9
27	Porous 2D and 3D Covalent Organic Frameworks with Dimensionality-Dependent Photocatalytic Activity in Promoting Radical Ring-Opening Polymerization. *Angewandte Chemie - International Edition*, **2021**, 60, 19466-19476	16.4	9
26	Creating Optimal Pockets in a Clathrochelate-Based Metal-Organic Framework for Gas Adsorption and Separation: Experimental and Computational Studies.. *Journal of the American Chemical Society* , **2022**,	16.4	9
25	A supermolecular building block approach for construction of chiral metal-organic frameworks. *Chemical Communications*, **2019**, 55, 8639-8642	5.8	8
24	Metal-Organic Cages with Missing Linker Defects. *Angewandte Chemie - International Edition*, **2021**, 60, 9099-9105	16.4	8
23	Highly Specific Coordination-Driven Self-Assembly of 2D Heterometallic Metal-Organic Frameworks with Unprecedented Johnson-type () Nonanuclear Zr-Oxocarboxylate Clusters. *Journal of the American Chemical Society*, **2021**, 143, 657-663	16.4	8
22	Ultrathin two-dimensional metal-organic framework nanosheets-an emerging class of catalytic nanomaterials. *Dalton Transactions*, **2020**, 49, 11073-11084	4.3	7
21	Two-Dimensional Fluorinated Covalent Organic Frameworks with Tunable Hydrophobicity for Ultrafast Oil-Water Separation. *Angewandte Chemie - International Edition*, **2021**,	16.4	7
20	Topological Strain-Induced Regioselective Linker Elimination in a Chiral Zr(IV)-Based Metal-Organic Framework. *CheM*, **2021**, 7, 190-201	16.2	7
19	Artificial Biomolecular Channels: Enantioselective Transmembrane Transport of Amino Acids Mediated by Homochiral Zirconium Metal-Organic Cages. *Journal of the American Chemical Society*, **2021**,	16.4	6
18	Are Highly Stable Covalent Organic Frameworks the Key to Universal Chiral Stationary Phases for Liquid and Gas Chromatographic Separations?. *Journal of the American Chemical Society*, **2022**,	16.4	6
17	Water Sorption Evolution Enabled by Reticular Construction of Zirconium Metal-Organic Frameworks Based on a Unique [2.2]Paracyclophane Scaffold.. *Journal of the American Chemical Society*, **2022**,	16.4	5
16	Artificial Metal-Peptide Assemblies: Bioinspired Assembly of Peptides and Metals through Space and across Length Scales. *Journal of the American Chemical Society*, **2021**, 143, 17316-17336	16.4	5

15	Supramolecular self-assembly of chiral helical tubular polymers with amplified circularly polarized luminescence. *Materials Chemistry Frontiers*, **2020**, 4, 2772-2781	7.8	5
14	Synthesis, structure and property of one porous Zn(salen)-based metal-metallosalen framework. *Science China Chemistry*, **2014**, 57, 107-113	7.9	4
13	Boosting Enantioselectivity of Chiral Molecular Catalysts with Supramolecular Metal�Organic Cages. *CCS Chemistry*,1692-1700	7.2	4
12	Coordination-driven self-assembly of anthraquinone-based metal-organic cages for photocatalytic selective [2 + 2] cycloaddition. *Dalton Transactions*, **2021**, 50, 8533-8539	4.3	4
11	Journey to the Holy Grail of a coordination saturated buckyball. *Inorganic Chemistry Frontiers*, **2020**, 7, 2556-2559	6.8	3
10	A stable biocompatible porous coordination cage promotes in vivo liver tumor inhibition. *Nano Research*, **2021**, 14, 3407-3415	10	3
9	Confinement-Driven Enantioselectivity in 3D Porous Chiral Covalent Organic Frameworks. *Angewandte Chemie*, **2021**, 133, 6151-6158	3.6	3
8	Fine-Tuning of Chiral Microenvironments within Triple-Stranded Helicates for Enhanced Enantioselectivity. *Angewandte Chemie*, **2021**, 133, 16704-16711	3.6	2
7	Synthesis, structure and photoluminescence of two porous metal-organoboron frameworks with rtl topology. *Science China Chemistry*, **2011**, 54, 1430-1435	7.9	1
6	Chiral and robust Zr(IV)-based metal-organic frameworks built from spiro skeletons. *Faraday Discussions*, **2021**, 231, 168-180	3.6	1
5	Nitrogen-rich tricyclic-based energetic materials. *Materials Chemistry Frontiers*, **2021**, 5, 7108-7118	7.8	1
4	Porous 2D and 3D Covalent Organic Frameworks with Dimensionality-Dependent Photocatalytic Activity in Promoting Radical Ring-Opening Polymerization. *Angewandte Chemie*, **2021**, 133, 19615-19623	3.6	1
3	Instant Photochromism Caused by Radical Formation in Photocatalytic Decarboxylation of Dihydrothiazole Derivative�*Chinese Journal of Chemistry*, **2021**, 39, 2774-2780	4.9	0
2	Recent Advances of Covalent Organic Frameworks for Chiral Separation. *Chemical Research in Chinese Universities*,1	2.2	
1	Metal-Organic Cages with Missing Linker Defects. *Angewandte Chemie*, **2021**, 133, 9181-9187	3.6	