Yong Cui

List of Publications by Year
in descending order

124 papers	12,891 citations	17405 63 h-index	23472 111 g-index
127 all docs	127 docs citations	127 times ranked	9347 citing authors

#	Article	IF	Citations
1	Mesoporous metalâ€"organic framework materials. Chemical Society Reviews, 2012, 41, 1677-1695.	18.7	830
2	Engineering Homochiral Metalâ€Organic Frameworks for Heterogeneous Asymmetric Catalysis and Enantioselective Separation. Advanced Materials, 2010, 22, 4112-4135.	11.1	800
3	Homochiral 2D Porous Covalent Organic Frameworks for Heterogeneous Asymmetric Catalysis. Journal of the American Chemical Society, 2016, 138, 12332-12335.	6.6	433
4	Chiral Covalent Organic Frameworks with High Chemical Stability for Heterogeneous Asymmetric Catalysis. Journal of the American Chemical Society, 2017, 139, 8693-8697.	6.6	399
5	Chiral 3D Covalent Organic Frameworks for High Performance Liquid Chromatographic Enantioseparation. Journal of the American Chemical Society, 2018, 140, 892-895.	6.6	381
6	Interlocked Chiral Nanotubes Assembled from Quintuple Helices. Journal of the American Chemical Society, 2003, 125, 6014-6015.	6.6	338
7	A Chiral Quadruple-Stranded Helicate Cage for Enantioselective Recognition and Separation. Journal of the American Chemical Society, 2012, 134, 6904-6907.	6.6	316
8	Multivariate Chiral Covalent Organic Frameworks with Controlled Crystallinity and Stability for Asymmetric Catalysis. Journal of the American Chemical Society, 2017, 139, 8277-8285.	6.6	249
9	A Homochiral Metalâ€"Organic Framework as an Effective Asymmetric Catalyst for Cyanohydrin Synthesis. Journal of the American Chemical Society, 2014, 136, 1746-1749.	6.6	245
10	Chiral BINOL-Based Covalent Organic Frameworks for Enantioselective Sensing. Journal of the American Chemical Society, 2019, 141, 7081-7089.	6.6	245
11	Design and Assembly of Chiral Coordination Cages for Asymmetric Sequential Reactions. Journal of the American Chemical Society, 2018, 140, 2251-2259.	6.6	243
12	Chiral Nanoporous Metalâ€"Metallosalen Frameworks for Hydrolytic Kinetic Resolution of Epoxides. Journal of the American Chemical Society, 2012, 134, 8058-8061.	6.6	241
13	Metalâ€"Covalent Organic Frameworks (MCOFs): Aâ€‰Bridge Between Metalâ€"Organic Frameworks and Covalent Organic Frameworks. Angewandte Chemie - International Edition, 2020, 59, 13722-13733.	7.2	231
14	Multivariate Metalâ€"Organic Frameworks as Multifunctional Heterogeneous Asymmetric Catalysts for Sequential Reactions. Journal of the American Chemical Society, 2017, 139, 8259-8266.	6.6	224
15	Engineering chiral porous metal-organic frameworks for enantioselective adsorption and separation. Nature Communications, 2014, 5, 4406.	5.8	221
16	A Homochiral Nanotubular Crystalline Framework of Metallomacrocycles for Enantioselective Recognition and Separation. Journal of the American Chemical Society, 2008, 130, 4582-4583.	6.6	212
17	Chiral covalent organic frameworks: design, synthesis and property. Chemical Society Reviews, 2020, 49, 6248-6272.	18.7	211
18	Rational Design of Homochiral Solids Based on Two-Dimensional Metal Carboxylates. Angewandte Chemie - International Edition, 2002, 41, 1159-1162.	7.2	199

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19	Chiral Nanoscale Metalâ€"Organic Tetrahedral Cages: Diastereoselective Selfâ€Assembly and Enantioselective Separation. Angewandte Chemie - International Edition, 2010, 49, 4121-4124.	7.2	186
20	Design and Assembly of a Chiral Metallosalenâ€Based Octahedral Coordination Cage for Supramolecular Asymmetric Catalysis. Angewandte Chemie - International Edition, 2018, 57, 2085-2090.	7.2	175
21	Nanochannels of Covalent Organic Frameworks for Chiral Selective Transmembrane Transport of Amino Acids. Journal of the American Chemical Society, 2019, 141, 20187-20197.	6.6	175
22	Chiral Metalâ€"Organic Frameworks. Chemical Reviews, 2022, 122, 9078-9144.	23.0	175
23	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.	6.6	173
24	Microporous 3D Covalent Organic Frameworks for Liquid Chromatographic Separation of Xylene Isomers and Ethylbenzene. Journal of the American Chemical Society, 2019, 141, 8996-9003.	6.6	171
25	Chiral induction in covalent organic frameworks. Nature Communications, 2018, 9, 1294.	5.8	160
26	Selfâ€Assembly of a Homochiral Nanoscale Metallacycle from a Metallosalen Complex for Enantioselective Separation. Angewandte Chemie - International Edition, 2008, 47, 1245-1249.	7.2	143
27	Chiral Octupolar Metalâ€"Organoboron NLO Frameworks with (14,3) Topology. Angewandte Chemie - International Edition, 2008, 47, 4538-4541.	7.2	143
28	Controlled Exchange of Achiral Linkers with Chiral Linkers in Zr-Based UiO-68 Metalâ€"Organic Framework. Journal of the American Chemical Society, 2018, 140, 16229-16236.	6.6	132
29	Boosting Enantioselectivity of Chiral Organocatalysts with Ultrathin Two-Dimensional Metalâ€"Organic Framework Nanosheets. Journal of the American Chemical Society, 2019, 141, 17685-17695.	6.6	128
30	Supramolecular Coordination Cages for Asymmetric Catalysis. Chemistry - A European Journal, 2019, 25, 662-672.	1.7	127
31	Permanent porous hydrogen-bonded frameworks with two types of BrÃ¸nsted acid sites for heterogeneous asymmetric catalysis. Nature Communications, 2019, 10, 600.	5.8	126
32	Anion-Driven Conformational Polymorphism in Homochiral Helical Coordination Polymers. Journal of the American Chemical Society, 2009, 131, 10452-10460.	6.6	124
33	Chiral Metalâ€"Organic Framework as a Platform for Cooperative Catalysis in Asymmetric Cyanosilylation of Aldehydes. ACS Catalysis, 2016, 6, 7590-7596.	5.5	122
34	Chiral NH-Controlled Supramolecular Metallacycles. Journal of the American Chemical Society, 2017, 139, 1554-1564.	6.6	122
35	Reticular Synthesis of tbo Topology Covalent Organic Frameworks. Journal of the American Chemical Society, 2020, 142, 16346-16356.	6.6	120
36	Highly Stable Zr(IV)-Based Metalâ€"Organic Frameworks with Chiral Phosphoric Acids for Catalytic Asymmetric Tandem Reactions. Journal of the American Chemical Society, 2019, 141, 7498-7508.	6.6	118

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37	Crystalline Câ€"C and Câ•C Bond-Linked Chiral Covalent Organic Frameworks. Journal of the American Chemical Society, 2021, 143, 369-381.	6.6	117
38	Rational synthesis of interpenetrated 3D covalent organic frameworks for asymmetric photocatalysis. Chemical Science, 2020, 11, 1494-1502.	3.7	116
39	Boosting Chemical Stability, Catalytic Activity, and Enantioselectivity of Metalâ€"Organic Frameworks for Batch and Flow Reactions. Journal of the American Chemical Society, 2017, 139, 13476-13482.	6.6	110
40	Highly Stable Zr(IV)-Based Metalâ€"Organic Frameworks for Chiral Separation in Reversed-Phase Liquid Chromatography. Journal of the American Chemical Society, 2021, 143, 390-398.	6.6	103
41	A homochiral triple helix constructed from an axially chiral bipyridineElectronic supplementary information (ESI) available: experimental details. See http://www.rsc.org/suppdata/cc/b2/b212781d/. Chemical Communications, 2003, , 1388.	2.2	102
42	A chiral porous metallosalan-organic framework containing titanium-oxo clusters for enantioselective catalytic sulfoxidation. Chemical Science, 2013, 4, 3154.	3.7	101
43	Efficient C₂H₂/CO₂ Separation in Ultramicroporous Metalâ€"Organic Frameworks with Record C₂H₂ Storage Density. Journal of the American Chemical Society, 2021, 143, 14869-14876.	6.6	101
44	Sixteen isostructural phosphonate metal-organic frameworks with controlled Lewis acidity and chemical stability for asymmetric catalysis. Nature Communications, 2017, 8, 2171.	5.8	97
45	A Highly Fluorescent Metallosalalenâ€Based Chiral Cage for Enantioselective Recognition and Sensing. Chemistry - A European Journal, 2014, 20, 6455-6461.	1.7	94
46	Supramolecular Chirality in Metalâ€"Organic Complexes. Accounts of Chemical Research, 2021, 54, 194-206.	7.6	92
47	Chiral porous organic frameworks for asymmetric heterogeneous catalysis and gas chromatographic separation. Chemical Communications, 2014, 50, 14949-14952.	2.2	89
48	Chiral Metalâ€"Organic Frameworks Bearing Free Carboxylic Acids for Organocatalyst Encapsulation. Angewandte Chemie - International Edition, 2014, 53, 13821-13825.	7.2	88
49	Design and self-assembly of hexahedral coordination cages for cascade reactions. Nature Communications, 2018, 9, 4423.	5.8	85
50	Creating Optimal Pockets in a Clathrochelate-Based Metalâ€"Organic Framework for Gas Adsorption and Separation: Experimental and Computational Studies. Journal of the American Chemical Society, 2022, 144, 3737-3745.	6.6	85
51	Metallosalen-based crystalline porous materials: Synthesis and property. Coordination Chemistry Reviews, 2019, 378, 483-499.	9.5	82
52	Single crystals of mechanically entwined helical covalent polymers. Nature Chemistry, 2021, 13, 660-665.	6.6	82
53	How Reproducible are Surface Areas Calculated from the BET Equation?. Advanced Materials, 2022, 34, .	11.1	82
54	Enantioselective Recognition and Separation by a Homochiral Porous Lamellar Solid Based on Unsymmetrical Schiff Base Metal Complexes. Chemistry - A European Journal, 2009, 15, 6428-6434.	1.7	81

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55	Single-Crystalline Ultrathin 2D Porous Nanosheets of Chiral Metalâ€"Organic Frameworks. Journal of the American Chemical Society, 2021, 143, 3509-3518.	6.6	80
56	Direct and Postâ€Synthesis Incorporation of Chiral Metallosalen Catalysts into Metalâ€"Organic Frameworks for Asymmetric Organic Transformations. Chemistry - A European Journal, 2015, 21, 12581-12585.	1.7	76
57	Endohedral functionalization of chiral metal-organic cages for encapsulating achiral dyes to induce circularly polarized luminescence. CheM, 2021, 7, 2771-2786.	5.8	74
58	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, 144, 891-900.	6.6	72
59	Homochiral 3D lanthanide coordination networks with an unprecedented 4966 topology. Chemical Communications, 2002, , 1666-1667.	2.2	70
60	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.	6.5	70
61	Hierarchical Assembly of Homochiral Porous Solids Using Coordination and Hydrogen Bonds. Inorganic Chemistry, 2003, 42, 652-654.	1.9	68
62	Engineering chiral Fe(salen)-based metalâ€"organic frameworks for asymmetric sulfide oxidation. Chemical Communications, 2014, 50, 8775.	2.2	68
63	Multivariate crystalline porous materials: Synthesis, property and potential application. Coordination Chemistry Reviews, 2019, 385, 174-190.	9.5	66
64	A homochiral porous metalâ€"organic framework for enantioselective adsorption of mandelates and photocyclizaton of tropolone ethers. Chemical Communications, 2013, 49, 8253.	2.2	63
65	New Rigid Angular Dicarboxylic Acid for the Construction of Nanoscopic Supramolecules:Â From a Molecular Rectangle to a 1-D Coordination Polymer. Inorganic Chemistry, 2002, 41, 1033-1035.	1.9	61
66	Free-standing homochiral 2D monolayers by exfoliation of molecular crystals. Nature, 2022, 602, 606-611.	13.7	60
67	Metal-organic frameworks as solid BrÃ¸nsted acid catalysts for advanced organic transformations. Coordination Chemistry Reviews, 2020, 420, 213400.	9.5	59
68	Chiral DHIP- and Pyrrolidine-Based Covalent Organic Frameworks for Asymmetric Catalysis. ACS Sustainable Chemistry and Engineering, 2019, 7, 5065-5071.	3.2	54
69	Homochiral 3D open frameworks assembled from 1- and 2-D coordination polymersElectronic supplementary information (ESI) available: synthesis of compounds 1 and 2, removal and reintroduction of guest molecules, and Figs. S1â€"S6. See http://www.rsc.org/suppdata/cc/b2/b211916a/. Chemical Communications, 2003, , 994-995.	2.2	52
70	Twoâ€Dimensional Fluorinated Covalent Organic Frameworks with Tunable Hydrophobicity for Ultrafast Oilâ€"Water Separation. Angewandte Chemie - International Edition, 2022, 61, .	7.2	51
71	Chiral Phosphoric Acids in Metalâ€"Organic Frameworks with Enhanced Acidity and Tunable Catalytic Selectivity. Angewandte Chemie - International Edition, 2019, 58, 14748-14757.	7.2	50
72	Combined effects of Ag and UiO-66 for removal of elemental mercury from flue gas. Chemosphere, 2018, 197, 65-72.	4.2	49

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73	A Cr(salen)-based metalâ€“organic framework as a versatile catalyst for efficient asymmetric transformations. Chemical Communications, 2016, 52, 13167-13170.	2.2	48
74	Topology-Based Functionalization of Robust Chiral Zr-Based Metalâ€“Organic Frameworks for Catalytic Enantioselective Hydrogenation. Journal of the American Chemical Society, 2020, 142, 9642-9652.	6.6	48
75	Metalâ€“Covalent Organic Frameworks (MCOFs): Aâ€‰Bridge Between Metalâ€“Organic Frameworks and Covalent Organic Frameworks. Angewandte Chemie, 2020, 132, 13826-13837.	1.6	48
76	Confinementâ€Driven Enantioselectivity in 3D Porous Chiral Covalent Organic Frameworks. Angewandte Chemie - International Edition, 2021, 60, 6086-6093.	7.2	48
77	Fineâ€Tuning of Chiral Microenvironments within Tripleâ€Stranded Helicates for Enhanced Enantioselectivity. Angewandte Chemie - International Edition, 2021, 60, 16568-16575.	7.2	48
78	Porous 2D and 3D Covalent Organic Frameworks with Dimensionalityâ€Dependent Photocatalytic Activity in Promoting Radical Ringâ€Opening Polymerization. Angewandte Chemie - International Edition, 2021, 60, 19466-19476.	7.2	45
79	Chiral microporous Ti(salan)-based metalâ€“organic frameworks for asymmetric sulfoxidation. Chemical Communications, 2013, 49, 7120.	2.2	43
80	Chiral Cu(salen)-Based Metalâ€“Organic Framework for Heterogeneously Catalyzed Aziridination and Amination of Olefins. Inorganic Chemistry, 2016, 55, 12500-12503.	1.9	43
81	Artificial Biomolecular Channels: Enantioselective Transmembrane Transport of Amino Acids Mediated by Homochiral Zirconium Metalâ€“Organic Cages. Journal of the American Chemical Society, 2021, 143, 20939-20951.	6.6	43
82	Chiral DHIP-Based Metalâ€“Organic Frameworks for Enantioselective Recognition and Separation. Inorganic Chemistry, 2016, 55, 7229-7232.	1.9	42
83	Water Sorption Evolution Enabled by Reticular Construction of Zirconium Metalâ€“Organic Frameworks Based on a Unique [2.2]Paracyclophane Scaffold. Journal of the American Chemical Society, 2022, 144, 1826-1834.	6.6	42
84	Chiral Metalâ€“Organic Framework Decorated with TEMPO Radicals for Sequential Oxidation/Asymmetric Cyanation Catalysis. Inorganic Chemistry, 2018, 57, 9786-9789.	1.9	41
85	Artificial Metalâ€“Peptide Assemblies: Bioinspired Assembly of Peptides and Metals through Space and across Length Scales. Journal of the American Chemical Society, 2021, 143, 17316-17336.	6.6	38
86	Molecular Engineering of Aromatic Imides for Organic Secondary Batteries. Small, 2021, 17, e2005752.	5.2	37
87	Chiral metal-organic frameworks with tunable catalytic selectivity in asymmetric transfer hydrogenation reactions. Nano Research, 2021, 14, 466-472.	5.8	34
88	Leveraging Chiral Zr(IV)-Based Metalâ€“Organic Frameworks To Elucidate Catalytically Active Rh Species in Asymmetric Hydrogenation Reactions. Journal of the American Chemical Society, 2022, 144, 3117-3126.	6.6	31
89	Self-Assembly of Nanoscale, PorousT-Symmetric Molecular Adamantanoids. Inorganic Chemistry, 2002, 41, 5940-5942.	1.9	30
90	Topological Strain-Induced Regioselective Linker Elimination in a Chiral Zr(IV)-Based Metal-Organic Framework. CheM, 2021, 7, 190-201.	5.8	30

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91	2D Covalent Organic Frameworks with cem Topology. Journal of the American Chemical Society, 2022, 144, 7366-7373.	6.6	30
92	Enantioselective Separation over a Chiral Biphenol-Based Metalâ€“Organic Framework. Inorganic Chemistry, 2018, 57, 8697-8700.	1.9	29
93	Synthesis, structure and property of boron-based metalâ€“organic materials. Coordination Chemistry Reviews, 2021, 435, 213783.	9.5	29
94	Nitrogen-rich tricyclic-based energetic materials. Materials Chemistry Frontiers, 2021, 5, 7108-7118.	3.2	26
95	Nano- and microcrystals of a Mn-based metalâ€“oligomer framework showing size-dependent magnetic resonance behaviors. Chemical Communications, 2011, 47, 3180.	2.2	25
96	Boosting Enantioselectivity of Chiral Molecular Catalysts with Supramolecular Metalâ€“Organic Cages. CCS Chemistry, 2022, 4, 1180-1189.	4.6	25
97	Metalâ€“ and Covalent Organic Frameworks Threaded with Chiral Polymers for Heterogeneous Asymmetric Catalysis. Organometallics, 2019, 38, 3474-3479.	1.1	24
98	Supramolecular self-assembly of chiral helical tubular polymers with amplified circularly polarized luminescence. Materials Chemistry Frontiers, 2020, 4, 2772-2781.	3.2	24
99	Chiral binary metalâ€“organic frameworks for asymmetric sequential reactions. Chemical Communications, 2017, 53, 12313-12316.	2.2	23
100	Coordination-driven self-assembly of anthraquinone-based metalâ€“organic cages for photocatalytic selective [2 + 2] cycloaddition. Dalton Transactions, 2021, 50, 8533-8539.	1.6	23
101	Design and Assembly of a Chiral Metallosalenâ€Based Octahedral Coordination Cage for Supramolecular Asymmetric Catalysis. Angewandte Chemie, 2018, 130, 2107-2112.	1.6	21
102	Highly Specific Coordination-Driven Self-Assembly of 2D Heterometallic Metalâ€“Organic Frameworks with Unprecedented Johnson-type (<i>J</i>₅₁) Nonanuclear Zr-Oxocarboxylate Clusters. Journal of the American Chemical Society, 2021, 143, 657-663.	6.6	20
103	Metalâ€Organic Cages with Missing Linker Defects. Angewandte Chemie - International Edition, 2021, 60, 9099-9105.	7.2	20
104	Ultrathin two-dimensional metalâ€“organic framework nanosheetsâ€”an emerging class of catalytic nanomaterials. Dalton Transactions, 2020, 49, 11073-11084.	1.6	19
105	Design and assembly of a chiral composite metalâ€“organic framework for efficient asymmertric sequential transformation of alkenes to amino alcohols. Chemical Communications, 2019, 55, 9136-9139.	2.2	16
106	Chiral Phosphoric Acids in Metalâ€“Organic Frameworks with Enhanced Acidity and Tunable Catalytic Selectivity. Angewandte Chemie, 2019, 131, 14890-14899.	1.6	16
107	A stable biocompatible porous coordination cage promotes in vivo liver tumor inhibition. Nano Research, 2021, 14, 3407-3415.	5.8	16
108	Homochiral helical coordination polymers of metallosalen complexes with tunable pitches. CrystEngComm, 2010, 12, 2424.	1.3	15

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109	Chiral Porous TADDOL-Embedded Organic Polymers for Asymmetric Diethylzinc Addition to Aldehydes. Bulletin of the Chemical Society of Japan, 2014, 87, 435-440.	2.0	15
110	Triple-Stranded Cluster Helicates for the Selective Catalytic Oxidation of Câ€“H Bonds. Inorganic Chemistry, 2016, 55, 10102-10105.	1.9	13
111	Chiral and robust Zr(<scp>iv</scp>)-based metalâ€“organic frameworks built from spiro skeletons. Faraday Discussions, 2021, 231, 168-180.	1.6	13
112	Synthesis and X-ray Structures of Zinc and Cadmium Pyridinecarboxylate Coordination Networks. Crystal Growth and Design, 2002, 2, 409-414.	1.4	12
113	A supermolecular building block approach for construction of chiral metalâ€“organic frameworks. Chemical Communications, 2019, 55, 8639-8642.	2.2	11
114	Fineâ€Tuning of Chiral Microenvironments within Tripleâ€Stranded Helicates for Enhanced Enantioselectivity. Angewandte Chemie, 2021, 133, 16704-16711.	1.6	11
115	Journey to the Holy Grail of a coordination saturated buckyball. Inorganic Chemistry Frontiers, 2020, 7, 2556-2559.	3.0	10
116	Twoâ€Dimensional Fluorinated Covalent Organic Frameworks with Tunable Hydrophobicity for Ultrafast Oilâ€“Water Separation. Angewandte Chemie, 2022, 134, .	1.6	8
117	Synthesis, structure and property of one porous Zn(salen)-based metal-metallosalen framework. Science China Chemistry, 2014, 57, 107-113.	4.2	7
118	Confinementâ€Driven Enantioselectivity in 3D Porous Chiral Covalent Organic Frameworks. Angewandte Chemie, 2021, 133, 6151-6158.	1.6	7
119	Porous 2D and 3D Covalent Organic Frameworks with Dimensionalityâ€Dependent Photocatalytic Activity in Promoting Radical Ringâ€Opening Polymerization. Angewandte Chemie, 2021, 133, 19615-19625.	1.6	7
120	Metalâ€“organic macrocycles with tunable pore microenvironments for selective anion transmembrane transport. Materials Chemistry Frontiers, 2022, 6, 1010-1020.	3.2	6
121	Instant Photochromism Caused by Radical Formation in Photocatalytic Decarboxylation of Dihydrothiazole Derivative^{â€}. Chinese Journal of Chemistry, 2021, 39, 2774-2780.	2.6	2
122	Recent Advances of Covalent Organic Frameworks for Chiral Separation. Chemical Research in Chinese Universities, 2022, 38, 350-355.	1.3	2
123	Synthesis, structure and photoluminescence of two porous metal-organoboron frameworks with rtl topology. Science China Chemistry, 2011, 54, 1430-1435.	4.2	1
124	Metalâ€Organic Cages with Missing Linker Defects. Angewandte Chemie, 2021, 133, 9181-9187.	1.6	1