Yan Liu

List of Publications by Year
in descending order

90 papers	10,287 citations	36271 51 h-index	43868 91 g-index
91 all docs	91 docs citations	91 times ranked	8359 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	A Chiral Quadruple-Stranded Helicate Cage for Enantioselective Recognition and Separation. Journal of the American Chemical Society, 2012, 134, 6904-6907.	6.6	316
7	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
8	Chiral BINOL-Based Covalent Organic Frameworks for Enantioselective Sensing. Journal of the American Chemical Society, 2019, 141, 7081-7089.	6.6	245
9	Design and Assembly of Chiral Coordination Cages for Asymmetric Sequential Reactions. Journal of the American Chemical Society, 2018, 140, 2251-2259.	6.6	243
10	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
11	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
12	Engineering chiral porous metal-organic frameworks for enantioselective adsorption and separation. Nature Communications, 2014, 5, 4406.	5.8	221
13	Chiral covalent organic frameworks: design, synthesis and property. Chemical Society Reviews, 2020, 49, 6248-6272.	18.7	211
14	Chiral Nanoscale Metalâ€“Organic Tetrahedral Cages: Diastereoselective Selfâ€Assembly and Enantioselective Separation. Angewandte Chemie - International Edition, 2010, 49, 4121-4124.	7.2	186
15	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
16	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
17	Chiral Metalâ€“Organic Frameworks. Chemical Reviews, 2022, 122, 9078-9144.	23.0	175
18	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

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19	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
20	Chiral induction in covalent organic frameworks. Nature Communications, 2018, 9, 1294.	5.8	160
21	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
22	Chiral Octupolar Metalâ€“Organoboron NLO Frameworks with (14,3) Topology. Angewandte Chemie - International Edition, 2008, 47, 4538-4541.	7.2	143
23	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
24	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
25	Supramolecular Coordination Cages for Asymmetric Catalysis. Chemistry - A European Journal, 2019, 25, 662-672.	1.7	127
26	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
27	Anion-Driven Conformational Polymorphism in Homochiral Helical Coordination Polymers. Journal of the American Chemical Society, 2009, 131, 10452-10460.	6.6	124
28	Chiral Metalâ€“Organic Framework as a Platform for Cooperative Catalysis in Asymmetric Cyanosilylation of Aldehydes. ACS Catalysis, 2016, 6, 7590-7596.	5.5	122
29	Chiral NH-Controlled Supramolecular Metallacycles. Journal of the American Chemical Society, 2017, 139, 1554-1564.	6.6	122
30	Cavity-induced enantioselectivity reversal in a chiral metalâ€“organic framework BrÃ¸nsted acid catalyst. Chemical Science, 2012, 3, 2623.	3.7	120
31	Reticular Synthesis of tbo Topology Covalent Organic Frameworks. Journal of the American Chemical Society, 2020, 142, 16346-16356.	6.6	120
32	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
33	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
34	Rational synthesis of interpenetrated 3D covalent organic frameworks for asymmetric photocatalysis. Chemical Science, 2020, 11, 1494-1502.	3.7	116
35	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
36	Enhanced Circularly Polarized Luminescence from Reorganized Chiral Emitters on the Skeleton of a Zeolitic Imidazolate Framework. Angewandte Chemie - International Edition, 2019, 58, 4978-4982.	7.2	106

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37	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
38	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
39	Sixteen isostructural phosphonate metal-organic frameworks with controlled Lewis acidity and chemical stability for asymmetric catalysis. Nature Communications, 2017, 8, 2171.	5.8	97
40	Supramolecular Chirality in Metalâ€“Organic Complexes. Accounts of Chemical Research, 2021, 54, 194-206.	7.6	92
41	Chiral Metalâ€“Organic Frameworks Bearing Free Carboxylic Acids for Organocatalyst Encapsulation. Angewandte Chemie - International Edition, 2014, 53, 13821-13825.	7.2	88
42	Design and self-assembly of hexahedral coordination cages for cascade reactions. Nature Communications, 2018, 9, 4423.	5.8	85
43	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
44	Metallosalen-based crystalline porous materials: Synthesis and property. Coordination Chemistry Reviews, 2019, 378, 483-499.	9.5	82
45	Single-Crystalline Ultrathin 2D Porous Nanosheets of Chiral Metalâ€“Organic Frameworks. Journal of the American Chemical Society, 2021, 143, 3509-3518.	6.6	80
46	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
47	Endohedral functionalization of chiral metal-organic cages for encapsulating achiral dyes to induce circularly polarized luminescence. CheM, 2021, 7, 2771-2786.	5.8	74
48	Engineering chiral Fe(salen)-based metalâ€“organic frameworks for asymmetric sulfide oxidation. Chemical Communications, 2014, 50, 8775.	2.2	68
49	Free-standing homochiral 2D monolayers by exfoliation of molecular crystals. Nature, 2022, 602, 606-611.	13.7	60
50	Metal-organic frameworks as solid BrÃ¸nsted acid catalysts for advanced organic transformations. Coordination Chemistry Reviews, 2020, 420, 213400.	9.5	59
51	Chiral DHIP- and Pyrrolidine-Based Covalent Organic Frameworks for Asymmetric Catalysis. ACS Sustainable Chemistry and Engineering, 2019, 7, 5065-5071.	3.2	54
52	Twoâ€Dimensional Fluorinated Covalent Organic Frameworks with Tunable Hydrophobicity for Ultrafast Oilâ€“Water Separation. Angewandte Chemie - International Edition, 2022, 61, .	7.2	51
53	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
54	A Cr(salen)-based metalâ€“organic framework as a versatile catalyst for efficient asymmetric transformations. Chemical Communications, 2016, 52, 13167-13170.	2.2	48

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55	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
56	Metalâ€"Covalent Organic Frameworks (MCOFs): Aâ€‰Bridge Between Metalâ€"Organic Frameworks and Covalent Organic Frameworks. Angewandte Chemie, 2020, 132, 13826-13837.	1.6	48
57	Confinementâ€Driven Enantioselectivity in 3D Porous Chiral Covalent Organic Frameworks. Angewandte Chemie - International Edition, 2021, 60, 6086-6093.	7.2	48
58	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
59	Chiral microporous Ti(salan)-based metalâ€"organic frameworks for asymmetric sulfoxidation. Chemical Communications, 2013, 49, 7120.	2.2	43
60	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
61	Chiral DHIP-Based Metalâ€"Organic Frameworks for Enantioselective Recognition and Separation. Inorganic Chemistry, 2016, 55, 7229-7232.	1.9	42
62	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
63	Chiral Metalâ€"Organic Framework Decorated with TEMPO Radicals for Sequential Oxidation/Asymmetric Cyanation Catalysis. Inorganic Chemistry, 2018, 57, 9786-9789.	1.9	41
64	Dual-Mode Induction of Tunable Circularly Polarized Luminescence from Chiral Metal-Organic Frameworks. Research, 2020, 2020, 6452123.	2.8	38
65	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
66	Enhanced Circularly Polarized Luminescence from Reorganized Chiral Emitters on the Skeleton of a Zeolitic Imidazolate Framework. Angewandte Chemie, 2019, 131, 5032-5036.	1.6	36
67	Chiral metal-organic frameworks with tunable catalytic selectivity in asymmetric transfer hydrogenation reactions. Nano Research, 2021, 14, 466-472.	5.8	34
68	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
69	Topological Strain-Induced Regioselective Linker Elimination in a Chiral Zr(IV)-Based Metal-Organic Framework. CheM, 2021, 7, 190-201.	5.8	30
70	2D Covalent Organic Frameworks with cem Topology. Journal of the American Chemical Society, 2022, 144, 7366-7373.	6.6	30
71	Enantioselective Separation over a Chiral Biphenol-Based Metalâ€"Organic Framework. Inorganic Chemistry, 2018, 57, 8697-8700.	1.9	29
72	Nano- and microcrystals of a Mn-based metalâ€"oligomer framework showing size-dependent magnetic resonance behaviors. Chemical Communications, 2011, 47, 3180.	2.2	25

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73	Metalâ€“ and Covalent Organic Frameworks Threaded with Chiral Polymers for Heterogeneous Asymmetric Catalysis. Organometallics, 2019, 38, 3474-3479.	1.1	24
74	Supramolecular self-assembly of chiral helical tubular polymers with amplified circularly polarized luminescence. Materials Chemistry Frontiers, 2020, 4, 2772-2781.	3.2	24
75	Chiral binary metalâ€“organic frameworks for asymmetric sequential reactions. Chemical Communications, 2017, 53, 12313-12316.	2.2	23
76	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
77	Design and Assembly of a Chiral Metallosalenâ€Based Octahedral Coordination Cage for Supramolecular Asymmetric Catalysis. Angewandte Chemie, 2018, 130, 2107-2112.	1.6	21
78	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
79	Metalâ€Organic Cages with Missing Linker Defects. Angewandte Chemie - International Edition, 2021, 60, 9099-9105.	7.2	20
80	DNA Programmable Self-Assembly of Planar, Thin-Layered Chiral Nanoparticle Superstructures with Complex Two-Dimensional Patterns. ACS Nano, 2021, 15, 16664-16672.	7.3	20
81	Ultrathin two-dimensional metalâ€“organic framework nanosheetsâ€”an emerging class of catalytic nanomaterials. Dalton Transactions, 2020, 49, 11073-11084.	1.6	19
82	Chiral Phosphoric Acids in Metalâ€“Organic Frameworks with Enhanced Acidity and Tunable Catalytic Selectivity. Angewandte Chemie, 2019, 131, 14890-14899.	1.6	16
83	Triple-Stranded Cluster Helicates for the Selective Catalytic Oxidation of Câ€“H Bonds. Inorganic Chemistry, 2016, 55, 10102-10105.	1.9	13
84	Chiral and robust Zr(<scp>iv</scp>)-based metalâ€“organic frameworks built from spiro skeletons. Faraday Discussions, 2021, 231, 168-180.	1.6	13
85	A supermolecular building block approach for construction of chiral metalâ€“organic frameworks. Chemical Communications, 2019, 55, 8639-8642.	2.2	11
86	Confinementâ€Driven Enantioselectivity in 3D Porous Chiral Covalent Organic Frameworks. Angewandte Chemie, 2021, 133, 6151-6158.	1.6	7
87	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
88	Metalâ€“organic macrocycles with tunable pore microenvironments for selective anion transmembrane transport. Materials Chemistry Frontiers, 2022, 6, 1010-1020.	3.2	6
89	Metalâ€Organic Cages with Missing Linker Defects. Angewandte Chemie, 2021, 133, 9181-9187.	1.6	1
90	Knockdown of Gastrin Promotes Apoptosis of Gastric Cancer Cells by Decreasing ROS Generation. BioMed Research International, 2021, 2021, 1-12.	0.9	1