

# Yan Liu

## List of Publications by Citations

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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.

86

papers

6,828

citations

42

h-index

82

g-index

91

ext. papers

8,534

ext. citations

14.3

avg, IF

6.52

L-index

#	Paper	IF	Citations
86	Engineering homochiral metal-organic frameworks for heterogeneous asymmetric catalysis and enantioselective separation. <i>Advanced Materials</i> , <b>2010</b> , 22, 4112-35	24	743
85	Mesoporous metal-organic framework materials. <i>Chemical Society Reviews</i> , <b>2012</b> , 41, 1677-95	58.5	711
84	Homochiral 2D Porous Covalent Organic Frameworks for Heterogeneous Asymmetric Catalysis. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 12332-5	16.4	336
83	Chiral Covalent Organic Frameworks with High Chemical Stability for Heterogeneous Asymmetric Catalysis. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 8693-8697	16.4	289
82	A chiral quadruple-stranded helicate cage for enantioselective recognition and separation. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 6904-7	16.4	267
81	Chiral 3D Covalent Organic Frameworks for High Performance Liquid Chromatographic Enantioseparation. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 892-895	16.4	254
80	Multivariate Chiral Covalent Organic Frameworks with Controlled Crystallinity and Stability for Asymmetric Catalysis. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 8277-8285	16.4	186
79	Engineering chiral porous metal-organic frameworks for enantioselective adsorption and separation. <i>Nature Communications</i> , <b>2014</b> , 5, 4406	17.4	183
78	Multivariate Metal-Organic Frameworks as Multifunctional Heterogeneous Asymmetric Catalysts for Sequential Reactions. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 8259-8266	16.4	180
77	Chiral nanoscale metal-organic tetrahedral cages: diastereoselective self-assembly and enantioselective separation. <i>Angewandte Chemie - International Edition</i> , <b>2010</b> , 49, 4121-4	16.4	172
76	Design and Assembly of Chiral Coordination Cages for Asymmetric Sequential Reactions. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 2251-2259	16.4	152
75	Chiral octupolar metal-organoboron NLO frameworks with (14,3) topology. <i>Angewandte Chemie - International Edition</i> , <b>2008</b> , 47, 4538-41	16.4	140
74	Self-assembly of a homochiral nanoscale metallacycle from a metallosalen complex for enantioselective separation. <i>Angewandte Chemie - International Edition</i> , <b>2008</b> , 47, 1245-9	16.4	135
73	Chiral BINOL-Based Covalent Organic Frameworks for Enantioselective Sensing. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 7081-7089	16.4	131
72	Anion-driven conformational polymorphism in homochiral helical coordination polymers. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 10452-60	16.4	119
71	Chiral induction in covalent organic frameworks. <i>Nature Communications</i> , <b>2018</b> , 9, 1294	17.4	105
70	Cavity-induced enantioselectivity reversal in a chiral metal-organic framework Brønsted acid catalyst. <i>Chemical Science</i> , <b>2012</b> , 3, 2623	9.4	104

69	Chiral Metal-Organic Framework as a Platform for Cooperative Catalysis in Asymmetric Cyanosilylation of Aldehydes. <i>ACS Catalysis</i> , <b>2016</b> , 6, 7590-7596	13.1	104
68	Design and Assembly of a Chiral Metallosalen-Based Octahedral Coordination Cage for Supramolecular Asymmetric Catalysis. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 2085-2090	16.4	103
67	Control Interlayer Stacking and Chemical Stability of Two-Dimensional Covalent Organic Frameworks via Steric Tuning. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 16124-16133	16.4	101
66	Chiral covalent organic frameworks: design, synthesis and property. <i>Chemical Society Reviews</i> , <b>2020</b> , 49, 6248-6272	58.5	97
65	Microporous 3D Covalent Organic Frameworks for Liquid Chromatographic Separation of Xylene Isomers and Ethylbenzene. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 8996-9003	16.4	96
64	Controlled Exchange of Achiral Linkers with Chiral Linkers in Zr-Based UiO-68 Metal-Organic Framework. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 16229-16236	16.4	95
63	Chiral NH-Controlled Supramolecular Metallacycles. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 1554-1564	16.4	94
62	Metal-Covalent Organic Frameworks (MCOFs): A Bridge Between Metal-Organic Frameworks and Covalent Organic Frameworks. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 13722-13733	16.4	92
61	Boosting Chemical Stability, Catalytic Activity, and Enantioselectivity of Metal-Organic Frameworks for Batch and Flow Reactions. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 13476-13482	16.4	89
60	Boosting Enantioselectivity of Chiral Organocatalysts with Ultrathin Two-Dimensional Metal-Organic Framework Nanosheets. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 17685-17695	16.4	88
59	Nanochannels of Covalent Organic Frameworks for Chiral Selective Transmembrane Transport of Amino Acids. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 20187-20197	16.4	88
58	Supramolecular Coordination Cages for Asymmetric Catalysis. <i>Chemistry - A European Journal</i> , <b>2019</b> , 25, 662-672	4.8	81
57	Highly Stable Zr(IV)-Based Metal-Organic Frameworks with Chiral Phosphoric Acids for Catalytic Asymmetric Tandem Reactions. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 7498-7508	16.4	79
56	Chiral metal-organic frameworks bearing free carboxylic acids for organocatalyst encapsulation. <i>Angewandte Chemie - International Edition</i> , <b>2014</b> , 53, 13821-5	16.4	75
55	Sixteen isostructural phosphonate metal-organic frameworks with controlled Lewis acidity and chemical stability for asymmetric catalysis. <i>Nature Communications</i> , <b>2017</b> , 8, 2171	17.4	75
54	Permanent porous hydrogen-bonded frameworks with two types of Brønsted acid sites for heterogeneous asymmetric catalysis. <i>Nature Communications</i> , <b>2019</b> , 10, 600	17.4	72
53	Enhanced Circularly Polarized Luminescence from Reorganized Chiral Emitters on the Skeleton of a Zeolitic Imidazolate Framework. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 4978-4982	16.4	70
52	Engineering chiral Fe(salen)-based metal-organic frameworks for asymmetric sulfide oxidation. <i>Chemical Communications</i> , <b>2014</b> , 50, 8775-8	5.8	63

51	Direct and post-synthesis incorporation of chiral metallosalen catalysts into metal-organic frameworks for asymmetric organic transformations. <i>Chemistry - A European Journal</i> , <b>2015</b> , 21, 12581-5	4.8	61
50	Metallosalen-based crystalline porous materials: Synthesis and property. <i>Coordination Chemistry Reviews</i> , <b>2019</b> , 378, 483-499	23.2	61
49	Rational synthesis of interpenetrated 3D covalent organic frameworks for asymmetric photocatalysis. <i>Chemical Science</i> , <b>2019</b> , 11, 1494-1502	9.4	59
48	Reticular Synthesis of the Topology Covalent Organic Frameworks. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 16346-16356	16.4	51
47	Design and self-assembly of hexahedral coordination cages for cascade reactions. <i>Nature Communications</i> , <b>2018</b> , 9, 4423	17.4	49
46	Crystalline C-C and C=C Bond-Linked Chiral Covalent Organic Frameworks. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 369-381	16.4	44
45	A Cr(salen)-based metal-organic framework as a versatile catalyst for efficient asymmetric transformations. <i>Chemical Communications</i> , <b>2016</b> , 52, 13167-13170	5.8	42
44	Highly Stable Zr(IV)-Based Metal-Organic Frameworks for Chiral Separation in Reversed-Phase Liquid Chromatography. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 390-398	16.4	42
43	Chiral microporous Ti(salen)-based metal-organic frameworks for asymmetric sulfoxidation. <i>Chemical Communications</i> , <b>2013</b> , 49, 7120-2	5.8	39
42	Chiral DHIP-Based Metal-Organic Frameworks for Enantioselective Recognition and Separation. <i>Inorganic Chemistry</i> , <b>2016</b> , 55, 7229-32	5.1	36
41	Chiral DHIP- and Pyrrolidine-Based Covalent Organic Frameworks for Asymmetric Catalysis. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 5065-5071	8.3	35
40	Metal-Organic Frameworks (MCOFs): A Bridge Between Metal-Organic Frameworks and Covalent Organic Frameworks. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 13826-13837	3.6	30
39	Metal-organic frameworks as solid Brønsted acid catalysts for advanced organic transformations. <i>Coordination Chemistry Reviews</i> , <b>2020</b> , 420, 213400	23.2	29
38	Chiral Metal-Organic Framework Decorated with TEMPO Radicals for Sequential Oxidation/Asymmetric Cyanation Catalysis. <i>Inorganic Chemistry</i> , <b>2018</b> , 57, 9786-9789	5.1	29
37	Single-Crystalline Ultrathin 2D Porous Nanosheets of Chiral Metal-Organic Frameworks. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 3509-3518	16.4	28
36	Topology-Based Functionalization of Robust Chiral Zr-Based Metal-Organic Frameworks for Catalytic Enantioselective Hydrogenation. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 9642-9652	16.4	27
35	Supramolecular Chirality in Metal-Organic Complexes. <i>Accounts of Chemical Research</i> , <b>2021</b> , 54, 194-206	24.3	27
34	Chiral Phosphoric Acids in Metal-Organic Frameworks with Enhanced Acidity and Tunable Catalytic Selectivity. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 14748-14757	16.4	24

33	Nano- and microcrystals of a Mn-based metal-oligomer framework showing size-dependent magnetic resonance behaviors. <i>Chemical Communications</i> , <b>2011</b> , 47, 3180-2	5.8	24
32	Enhanced Circularly Polarized Luminescence from Reorganized Chiral Emitters on the Skeleton of a Zeolitic Imidazolate Framework. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 5032-5036	3.6	22
31	Dual-Mode Induction of Tunable Circularly Polarized Luminescence from Chiral Metal-Organic Frameworks. <i>Research</i> , <b>2020</b> , 2020, 6452123	7.8	20
30	Chiral binary metal-organic frameworks for asymmetric sequential reactions. <i>Chemical Communications</i> , <b>2017</b> , 53, 12313-12316	5.8	19
29	Enantioselective Separation over a Chiral Biphenol-Based Metal-Organic Framework. <i>Inorganic Chemistry</i> , <b>2018</b> , 57, 8697-8700	5.1	19
28	Chiral metal-organic frameworks with tunable catalytic selectivity in asymmetric transfer hydrogenation reactions. <i>Nano Research</i> , <b>2021</b> , 14, 466-472	10	18
27	Metal- and Covalent Organic Frameworks Threaded with Chiral Polymers for Heterogeneous Asymmetric Catalysis. <i>Organometallics</i> , <b>2019</b> , 38, 3474-3479	3.8	15
26	Confinement-Driven Enantioselectivity in 3D Porous Chiral Covalent Organic Frameworks. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 6086-6093	16.4	15
25	Free-standing homochiral 2D monolayers by exfoliation of molecular crystals.. <i>Nature</i> , <b>2022</b> , 602, 606-615	10.4	14
24	Design and Assembly of a Chiral Metallosalen-Based Octahedral Coordination Cage for Supramolecular Asymmetric Catalysis. <i>Angewandte Chemie</i> , <b>2018</b> , 130, 2107-2112	3.6	12
23	Triple-Stranded Cluster Helicates for the Selective Catalytic Oxidation of C-H Bonds. <i>Inorganic Chemistry</i> , <b>2016</b> , 55, 10102-10105	5.1	12
22	Efficient CH <sub>4</sub> /CO Separation in Ultramicroporous Metal-Organic Frameworks with Record CH <sub>4</sub> Storage Density. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 14869-14876	16.4	12
21	Endohedral functionalization of chiral metal-organic cages for encapsulating achiral dyes to induce circularly polarized luminescence. <i>Chem</i> , <b>2021</b> ,	16.2	12
20	Chiral Phosphoric Acids in Metal-Organic Frameworks with Enhanced Acidity and Tunable Catalytic Selectivity. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 14890-14899	3.6	10
19	Porous 2D and 3D Covalent Organic Frameworks with Dimensionality-Dependent Photocatalytic Activity in Promoting Radical Ring-Opening Polymerization. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 19466-19476	16.4	9
18	Creating Optimal Pockets in a Clathrochelate-Based Metal-Organic Framework for Gas Adsorption and Separation: Experimental and Computational Studies.. <i>Journal of the American Chemical Society</i> , <b>2022</b> ,	16.4	9
17	A supermolecular building block approach for construction of chiral metal-organic frameworks. <i>Chemical Communications</i> , <b>2019</b> , 55, 8639-8642	5.8	8
16	Metal-Organic Cages with Missing Linker Defects. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 9099-9105	16.4	8

15	Highly Specific Coordination-Driven Self-Assembly of 2D Heterometallic Metal-Organic Frameworks with Unprecedented Johnson-type () Nonanuclear Zr-Oxocarboxylate Clusters. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 657-663	16.4	8
14	Ultrathin two-dimensional metal-organic framework nanosheets-an emerging class of catalytic nanomaterials. <i>Dalton Transactions</i> , <b>2020</b> , 49, 11073-11084	4.3	7
13	Two-Dimensional Fluorinated Covalent Organic Frameworks with Tunable Hydrophobicity for Ultrafast Oil-Water Separation. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> ,	16.4	7
12	Topological Strain-Induced Regioselective Linker Elimination in a Chiral Zr(IV)-Based Metal-Organic Framework. <i>Chem</i> , <b>2021</b> , 7, 190-201	16.2	7
11	Artificial Biomolecular Channels: Enantioselective Transmembrane Transport of Amino Acids Mediated by Homochiral Zirconium Metal-Organic Cages. <i>Journal of the American Chemical Society</i> , <b>2021</b> ,	16.4	6
10	DNA Programmable Self-Assembly of Planar, Thin-Layered Chiral Nanoparticle Superstructures with Complex Two-Dimensional Patterns. <i>ACS Nano</i> , <b>2021</b> , 15, 16664-16672	16.7	6
9	Water Sorption Evolution Enabled by Reticular Construction of Zirconium Metal-Organic Frameworks Based on a Unique [2.2]Paracyclophane Scaffold.. <i>Journal of the American Chemical Society</i> , <b>2022</b> ,	16.4	5
8	Artificial Metal-Peptide Assemblies: Bioinspired Assembly of Peptides and Metals through Space and across Length Scales. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 17316-17336	16.4	5
7	Supramolecular self-assembly of chiral helical tubular polymers with amplified circularly polarized luminescence. <i>Materials Chemistry Frontiers</i> , <b>2020</b> , 4, 2772-2781	7.8	5
6	Coordination-driven self-assembly of anthraquinone-based metal-organic cages for photocatalytic selective [2 + 2] cycloaddition. <i>Dalton Transactions</i> , <b>2021</b> , 50, 8533-8539	4.3	4
5	Confinement-Driven Enantioselectivity in 3D Porous Chiral Covalent Organic Frameworks. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 6151-6158	3.6	3
4	Chiral and robust Zr(IV)-based metal-organic frameworks built from spiro skeletons. <i>Faraday Discussions</i> , <b>2021</b> , 231, 168-180	3.6	1
3	Porous 2D and 3D Covalent Organic Frameworks with Dimensionality-Dependent Photocatalytic Activity in Promoting Radical Ring-Opening Polymerization. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 19615-19625	3.6	1
2	Knockdown of Gastrin Promotes Apoptosis of Gastric Cancer Cells by Decreasing ROS Generation. <i>BioMed Research International</i> , <b>2021</b> , 2021, 5590037	3	0
1	Metal-Organic Cages with Missing Linker Defects. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 9181-9187	3.6	