Yan Liu

List of Publications by Year in Descending Order

86	6,828	42	82
papers	citations	h-index	g-index
91	8,534	14.3	6.52
ext. papers	ext. citations	avg, IF	L-index

#	Paper	IF	Citations
86	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
85	Free-standing homochiral 2D monolayers by exfoliation of molecular crystals.. *Nature*, **2022**, 602, 606-611	50.4	14
84	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
83	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
82	DNA Programmable Self-Assembly of Planar, Thin-Layered Chiral Nanoparticle Superstructures with Complex Two-Dimensional Patterns. *ACS Nano*, **2021**, 15, 16664-16672	16.7	6
81	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
80	Two-Dimensional Fluorinated Covalent Organic Frameworks with Tunable Hydrophobicity for Ultrafast Oil-Water Separation. *Angewandte Chemie - International Edition*, **2021**,	16.4	7
79	Metal-Organic Cages with Missing Linker Defects. *Angewandte Chemie - International Edition*, **2021**, 60, 9099-9105	16.4	8
78	Metal-Organic Cages with Missing Linker Defects. *Angewandte Chemie*, **2021**, 133, 9181-9187	3.6	
77	Knockdown of Gastrin Promotes Apoptosis of Gastric Cancer Cells by Decreasing ROS Generation. *BioMed Research International*, **2021**, 2021, 5590037	3	0
76	Chiral metal-organic frameworks with tunable catalytic selectivity in asymmetric transfer hydrogenation reactions. *Nano Research*, **2021**, 14, 466-472	10	18
75	Confinement-Driven Enantioselectivity in 3D Porous Chiral Covalent Organic Frameworks. *Angewandte Chemie - International Edition*, **2021**, 60, 6086-6093	16.4	15
74	Supramolecular Chirality in Metal-Organic Complexes. *Accounts of Chemical Research*, **2021**, 54, 194-206	24.3	27
73	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
72	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
71	Confinement-Driven Enantioselectivity in 3D Porous Chiral Covalent Organic Frameworks. *Angewandte Chemie*, **2021**, 133, 6151-6158	3.6	3
70	Chiral and robust Zr(IV)-based metal-organic frameworks built from spiro skeletons. *Faraday Discussions*, **2021**, 231, 168-180	3.6	1

69	Topological Strain-Induced Regioselective Linker Elimination in a Chiral Zr(IV)-Based Metal-Organic Framework. *CheM*, **2021**, 7, 190-201	16.2	7
68	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
67	Single-Crystalline Ultrathin 2D Porous Nanosheets of Chiral Metal-Organic Frameworks. *Journal of the American Chemical Society*, **2021**, 143, 3509-3518	16.4	28
66	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
65	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
64	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
63	Endohedral functionalization of chiral metal-organic cages for encapsulating achiral dyes to induce circularly polarized luminescence. *CheM*, **2021**,	16.2	12
62	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
61	Metal-organic frameworks as solid Brønsted acid catalysts for advanced organic transformations. *Coordination Chemistry Reviews*, **2020**, 420, 213400	23.2	29
60	Ultrathin two-dimensional metal-organic framework nanosheets-an emerging class of catalytic nanomaterials. *Dalton Transactions*, **2020**, 49, 11073-11084	4.3	7
59	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
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-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
56	Dual-Mode Induction of Tunable Circularly Polarized Luminescence from Chiral Metal-Organic Frameworks. *Research*, **2020**, 2020, 6452123	7.8	20
55	Chiral covalent organic frameworks: design, synthesis and property. *Chemical Society Reviews*, **2020**, 49, 6248-6272	58.5	97
54	Supramolecular self-assembly of chiral helical tubular polymers with amplified circularly polarized luminescence. *Materials Chemistry Frontiers*, **2020**, 4, 2772-2781	7.8	5
53	Reticular Synthesis of tbo Topology Covalent Organic Frameworks. *Journal of the American Chemical Society*, **2020**, 142, 16346-16356	16.4	51
52	Permanent porous hydrogen-bonded frameworks with two types of Brønsted acid sites for heterogeneous asymmetric catalysis. *Nature Communications*, **2019**, 10, 600	17.4	72

51	Metal and Covalent Organic Frameworks Threaded with Chiral Polymers for Heterogeneous Asymmetric Catalysis. *Organometallics*, **2019**, 38, 3474-3479	3.8	15
50	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
49	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
48	Chiral BINOL-Based Covalent Organic Frameworks for Enantioselective Sensing. *Journal of the American Chemical Society*, **2019**, 141, 7081-7089	16.4	131
47	Enhanced Circularly Polarized Luminescence from Reorganized Chiral Emitters on the Skeleton of a Zeolitic Imidazolate Framework. *Angewandte Chemie*, **2019**, 131, 5032-5036	3.6	22
46	Chiral DHIP- and Pyrrolidine-Based Covalent Organic Frameworks for Asymmetric Catalysis. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 5065-5071	8.3	35
45	Enhanced Circularly Polarized Luminescence from Reorganized Chiral Emitters on the Skeleton of a Zeolitic Imidazolate Framework. *Angewandte Chemie - International Edition*, **2019**, 58, 4978-4982	16.4	70
44	Supramolecular Coordination Cages for Asymmetric Catalysis. *Chemistry - A European Journal*, **2019**, 25, 662-672	4.8	81
43	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
42	A supermolecular building block approach for construction of chiral metal-organic frameworks. *Chemical Communications*, **2019**, 55, 8639-8642	5.8	8
41	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
40	Chiral Phosphoric Acids in Metal Organic Frameworks with Enhanced Acidity and Tunable Catalytic Selectivity. *Angewandte Chemie*, **2019**, 131, 14890-14899	3.6	10
39	Rational synthesis of interpenetrated 3D covalent organic frameworks for asymmetric photocatalysis. *Chemical Science*, **2019**, 11, 1494-1502	9.4	59
38	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
37	Metallosalen-based crystalline porous materials: Synthesis and property. *Coordination Chemistry Reviews*, **2019**, 378, 483-499	23.2	61
36	Chiral induction in covalent organic frameworks. *Nature Communications*, **2018**, 9, 1294	17.4	105
35	Design and Assembly of Chiral Coordination Cages for Asymmetric Sequential Reactions. *Journal of the American Chemical Society*, **2018**, 140, 2251-2259	16.4	152
34	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

33	Design and Assembly of a Chiral Metallosalen-Based Octahedral Coordination Cage for Supramolecular Asymmetric Catalysis. *Angewandte Chemie*, **2018**, 130, 2107-2112	3.6	12
32	Chiral 3D Covalent Organic Frameworks for High Performance Liquid Chromatographic Enantioseparation. *Journal of the American Chemical Society*, **2018**, 140, 892-895	16.4	254
31	Chiral Metal-Organic Framework Decorated with TEMPO Radicals for Sequential Oxidation/Asymmetric Cyanation Catalysis. *Inorganic Chemistry*, **2018**, 57, 9786-9789	5.1	29
30	Enantioselective Separation over a Chiral Biphenol-Based Metal-Organic Framework. *Inorganic Chemistry*, **2018**, 57, 8697-8700	5.1	19
29	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
28	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
27	Design and self-assembly of hexahedral coordination cages for cascade reactions. *Nature Communications*, **2018**, 9, 4423	17.4	49
26	Chiral NH-Controlled Supramolecular Metallacycles. *Journal of the American Chemical Society*, **2017**, 139, 1554-1564	16.4	94
25	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
24	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
23	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
22	Chiral binary metal-organic frameworks for asymmetric sequential reactions. *Chemical Communications*, **2017**, 53, 12313-12316	5.8	19
21	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
20	Sixteen isostructural phosphonate metal-organic frameworks with controlled Lewis acidity and chemical stability for asymmetric catalysis. *Nature Communications*, **2017**, 8, 2171	17.4	75
19	Chiral DHIP-Based Metal-Organic Frameworks for Enantioselective Recognition and Separation. *Inorganic Chemistry*, **2016**, 55, 7229-32	5.1	36
18	Homochiral 2D Porous Covalent Organic Frameworks for Heterogeneous Asymmetric Catalysis. *Journal of the American Chemical Society*, **2016**, 138, 12332-5	16.4	336
17	Triple-Stranded Cluster Helicates for the Selective Catalytic Oxidation of C-H Bonds. *Inorganic Chemistry*, **2016**, 55, 10102-10105	5.1	12
16	Chiral Metal□Organic Framework as a Platform for Cooperative Catalysis in Asymmetric Cyanosilylation of Aldehydes. *ACS Catalysis*, **2016**, 6, 7590-7596	13.1	104

15	A Cr(salen)-based metal-organic framework as a versatile catalyst for efficient asymmetric transformations. *Chemical Communications*, **2016**, 52, 13167-13170	5.8	42
14	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
13	Chiral metal-organic frameworks bearing free carboxylic acids for organocatalyst encapsulation. *Angewandte Chemie - International Edition*, **2014**, 53, 13821-5	16.4	75
12	Engineering chiral Fe(salen)-based metal-organic frameworks for asymmetric sulfide oxidation. *Chemical Communications*, **2014**, 50, 8775-8	5.8	63
11	Engineering chiral porous metal-organic frameworks for enantioselective adsorption and separation. *Nature Communications*, **2014**, 5, 4406	17.4	183
10	Chiral microporous Ti(salan)-based metal-organic frameworks for asymmetric sulfoxidation. *Chemical Communications*, **2013**, 49, 7120-2	5.8	39
9	A chiral quadruple-stranded helicate cage for enantioselective recognition and separation. *Journal of the American Chemical Society*, **2012**, 134, 6904-7	16.4	267
8	Cavity-induced enantioselectivity reversal in a chiral metal□organic framework Br□sted acid catalyst. *Chemical Science*, **2012**, 3, 2623	9.4	104
7	Mesoporous metal-organic framework materials. *Chemical Society Reviews*, **2012**, 41, 1677-95	58.5	711
6	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
5	Engineering homochiral metal-organic frameworks for heterogeneous asymmetric catalysis and enantioselective separation. *Advanced Materials*, **2010**, 22, 4112-35	24	743
4	Chiral nanoscale metal-organic tetrahedral cages: diastereoselective self-assembly and enantioselective separation. *Angewandte Chemie - International Edition*, **2010**, 49, 4121-4	16.4	172
3	Anion-driven conformational polymorphism in homochiral helical coordination polymers. *Journal of the American Chemical Society*, **2009**, 131, 10452-60	16.4	119
2	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
1	Chiral octupolar metal-organoboron NLO frameworks with (14,3) topology. *Angewandte Chemie - International Edition*, **2008**, 47, 4538-41	16.4	140