

# Baiyan Li

## List of Publications by Year in descending order

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46  
papers

5,220  
citations

109264

35  
h-index

223716

46  
g-index

48  
all docs

48  
docs citations

48  
times ranked

5929  
citing authors

#	ARTICLE	IF	CITATIONS
1	Mercury nano-trap for effective and efficient removal of mercury(II) from aqueous solution. <i>Nature Communications</i> , 2014, 5, 5537.	5.8	481
2	Applications of metal-organic frameworks featuring multi-functional sites. <i>Coordination Chemistry Reviews</i> , 2016, 307, 106-129.	9.5	471
3	Enhanced Binding Affinity, Remarkable Selectivity, and High Capacity of CO <sub>2</sub> by Dual Functionalization of a <i>rht</i> -Type Metal-Organic Framework. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 1412-1415.	7.2	430
4	Introduction of $\pi$ -Complexation into Porous Aromatic Framework for Highly Selective Adsorption of Ethylene over Ethane. <i>Journal of the American Chemical Society</i> , 2014, 136, 8654-8660.	6.6	383
5	A dual functional MOF as a luminescent sensor for quantitatively detecting the concentration of nitrobenzene and temperature. <i>Chemical Communications</i> , 2013, 49, 8964.	2.2	335
6	Metal-Organic Framework Based upon the Synergy of a Brønsted Acid Framework and Lewis Acid Centers as a Highly Efficient Heterogeneous Catalyst for Fixed-Bed Reactions. <i>Journal of the American Chemical Society</i> , 2015, 137, 4243-4248.	6.6	242
7	Functionalized Porous Aromatic Framework for Efficient Uranium Adsorption from Aqueous Solutions. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 12511-12517.	4.0	215
8	A strategy toward constructing a bifunctionalized MOF catalyst: post-synthetic modification of MOFs on organic ligands and coordinatively unsaturated metal sites. <i>Chemical Communications</i> , 2012, 48, 6151.	2.2	204
9	Bifunctional MOF heterogeneous catalysts based on the synergy of dual functional sites for efficient conversion of CO <sub>2</sub> under mild and co-catalyst free conditions. <i>Journal of Materials Chemistry A</i> , 2015, 3, 23136-23142.	5.2	175
10	Capture of organic iodides from nuclear waste by metal-organic framework-based molecular traps. <i>Nature Communications</i> , 2017, 8, 485.	5.8	171
11	Metal-Cation-Directed <i>de Novo</i> Assembly of a Functionalized Guest Molecule in the Nanospace of a Metal-Organic Framework. <i>Journal of the American Chemical Society</i> , 2014, 136, 1202-1205.	6.6	168
12	Highly selective adsorption of ethylene over ethane in a MOF featuring the combination of open metal site and $\pi$ -complexation. <i>Chemical Communications</i> , 2015, 51, 2714-2717.	2.2	151
13	An N-rich metal-organic framework with an <i>rht</i> topology: high CO <sub>2</sub> and C <sub>2</sub> hydrocarbons uptake and selective capture from CH <sub>4</sub> . <i>Chemical Communications</i> , 2014, 50, 5031.	2.2	137
14	Removal of Perchnetate-Related Oxyanions from Solution Using Functionalized Hierarchical Porous Frameworks. <i>Chemistry - A European Journal</i> , 2016, 22, 17581-17584.	1.7	107
15	Dual functionalization of porous aromatic frameworks as a new platform for heterogeneous cascade catalysis. <i>Chemical Communications</i> , 2014, 50, 8507.	2.2	105
16	High storage capacity and separation selectivity for C <sub>2</sub> hydrocarbons over methane in the metal-organic framework Cu-TDPAT. <i>Journal of Materials Chemistry A</i> , 2014, 2, 15823-15828.	5.2	102
17	Design Strategies to Enhance Amidoxime Chelators for Uranium Recovery. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 30919-30926.	4.0	91
18	Chemically Stable Guanidinium Covalent Organic Framework for the Efficient Capture of Low-Concentration Iodine at High Temperatures. <i>Journal of the American Chemical Society</i> , 2022, 144, 6821-6829.	6.6	89

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19	Multifunctional Luminescent Porous Organic Polymer for Selectively Detecting Iron Ions and 1,4-Dioxane via Luminescent Turn-off and Turn-on Sensing. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 24097-24103.	4.0	78
20	A new microporous carbon material synthesized via thermolysis of a porous aromatic framework embedded with an extra carbon source for low-pressure CO <sub>2</sub> uptake. <i>Chemical Communications</i> , 2013, 49, 10269.	2.2	76
21	Creation of a new type of ion exchange material for rapid, high-capacity, reversible and selective ion exchange without swelling and entrainment. <i>Chemical Science</i> , 2016, 7, 2138-2144.	3.7	72
22	Cu-TDPAT, an <i>η</i> -Type Dual-Functional Metal-Organic Framework Offering Significant Potential for Use in H <sub>2</sub> and Natural Gas Purification Processes Operating at High Pressures. <i>Journal of Physical Chemistry C</i> , 2012, 116, 16609-16618.	1.5	68
23	Dual Functionalized Cages in Metal-Organic Frameworks via Stepwise Postsynthetic Modification. <i>Chemistry of Materials</i> , 2016, 28, 4781-4786.	3.2	55
24	Design and Construction of Coordination Polymers by 4-Amino-3,5-bis( <i>n</i> -pyridyl)-1,2,4-triazole ( <i>n</i> = 2, 3, 4) Isomers in a Copper(I) Halide System: Diverse Structures Tuned by Isomeric and Anion Effects. <i>Crystal Growth and Design</i> , 2010, 10, 2192-2201.	1.4	53
25	Coordination polymers constructed by 1,3-bis(4-pyridyl)propane with four different conformations and 2,2'-dinitro-4,4'-biphenyldicarboxylate ligands: the effects of metal ions. <i>CrystEngComm</i> , 2011, 13, 1291-1298.	1.3	51
26	Recent Advances on Metal-Organic Frameworks in the Conversion of Carbon Dioxide. <i>Chinese Journal of Chemistry</i> , 2021, 39, 440-462.	2.6	51
27	Installation of synergistic binding sites onto porous organic polymers for efficient removal of perfluorooctanoic acid. <i>Nature Communications</i> , 2022, 13, 2132.	5.8	49
28	Interconnected CoS <sub>2</sub> /NC-CNTs network as high-performance anode materials for lithium-ion batteries. <i>Science China Materials</i> , 2021, 64, 820-829.	3.5	47
29	Two Metal-Organic Frameworks Constructed from One-Dimensional Cobalt(II) Ferrimagnetic Chains with Alternating Antiferromagnetic/Ferromagnetic and AF/AF/FM Interaction: Synthesis, Structures, and Magnetic Properties. <i>Inorganic Chemistry</i> , 2012, 51, 6813-6820.	1.9	45
30	Construction of Coordination Polymers Based on Bent 4-Amino-3,5-bis(3-carboxyphenyl)-1,2,4-triazole Ligand: Diverse Structural Topology and Photoluminescent and Magnetic Properties. <i>Crystal Growth and Design</i> , 2011, 11, 1475-1485.	1.4	41
31	Design and construction of coordination polymers based on 2,2'-dinitro-4,4'-biphenyldicarboxylate and imidazole-based ligands: The effect of ligand length and metal ions. <i>CrystEngComm</i> , 2011, 13, 4592.	1.3	40
32	Multi-functional sites catalysts based on post-synthetic modification of metal-organic frameworks. <i>Chinese Chemical Letters</i> , 2018, 29, 827-830.	4.8	39
33	Functionalized metal organic frameworks for effective capture of radioactive organic iodides. <i>Faraday Discussions</i> , 2017, 201, 47-61.	1.6	38
34	Di-ionic multifunctional porous organic frameworks for efficient CO <sub>2</sub> fixation under mild and co-catalyst free conditions. <i>Green Chemistry</i> , 2018, 20, 5285-5291.	4.6	38
35	Synthesis, structures and luminescent properties of cadmium(ii) metal organic frameworks based on 3-pyrid-4-ylbenzoic acid, 4-pyrid-4-ylbenzoic acid ligands. <i>CrystEngComm</i> , 2012, 14, 4664.	1.3	37
36	A microporous yttrium metal-organic framework of an unusual nia topology for high adsorption selectivity of C <sub>2</sub> H <sub>2</sub> and CO <sub>2</sub> over CH <sub>4</sub> at room temperature. <i>Materials Chemistry Frontiers</i> , 2017, 1, 1982-1988.	3.2	35

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37	From an equilibrium based MOF adsorbent to a kinetic selective carbon molecular sieve for paraffin/iso-paraffin separation. <i>Chemical Communications</i> , 2016, 52, 13897-13900.	2.2	34
38	Recent Progress in Metal-Organic Frameworks@Cellulose Hybrids and Their Applications. <i>Chinese Journal of Chemistry</i> , 2021, 39, 3462-3480.	2.6	34
39	Design and construction of coordination polymers based on 2,2'-dinitro-4,4'-biphenyldicarboxylate and semi-rigid N-donor ligands: diverse structures and magnetic properties. <i>Dalton Transactions</i> , 2012, 41, 2677.	1.6	29
40	Metal-organic frameworks loaded on phosphorus-doped tubular carbon nitride for enhanced photocatalytic hydrogen production and amine oxidation. <i>Journal of Colloid and Interface Science</i> , 2021, 590, 1-11.	5.0	28
41	Design and construction of coordination polymers by 2,2'-dinitro-4,4'-biphenyldicarboxylate and imidazole-based ligands: diverse structures based on different metal ions. <i>CrystEngComm</i> , 2011, 13, 2457.	1.3	26
42	Carboxylate-modified squaraine dye doped silica fluorescent pH nanosensors. <i>Nanotechnology</i> , 2010, 21, 215502.	1.3	20
43	Two Coordination Polymers with Rare Topologies Based on Copper(II) and Ligands Generated by In Situ Reactions. <i>European Journal of Inorganic Chemistry</i> , 2011, 2011, 35-38.	1.0	13
44	Creating extra pores in microporous carbon via a template strategy for a remarkable enhancement of ambient-pressure CO <sub>2</sub> uptake. <i>Chemical Communications</i> , 2015, 51, 8683-8686.	2.2	11
45	Two three-dimensional metal-organic frameworks constructed by thiazole-spaced pyridinecarboxylates exhibiting selective gas sorption or antiferromagnetic coupling. <i>New Journal of Chemistry</i> , 2013, 37, 425-430.	1.4	10
46	Energy related ion transports in coordination polymers. <i>Nano Select</i> , 0, , .	1.9	6