Baiyan Li

List of Publications by Year
in descending order

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46 papers	5,220 citations	109321 35 h-index	223800 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. Nature Communications, 2014, 5, 5537.	12.8	481
2	Applications of metal-organic frameworks featuring multi-functional sites. Coordination Chemistry Reviews, 2016, 307, 106-129.	18.8	471
3	Enhanced Binding Affinity, Remarkable Selectivity, and High Capacity of CO₂ by Dual Functionalization of a rhtâ€type Metalâ€“Organic Framework. Angewandte Chemie - International Edition, 2012, 51, 1412-1415.	13.8	430
4	Introduction of Ï€-Complexation into Porous Aromatic Framework for Highly Selective Adsorption of Ethylene over Ethane. Journal of the American Chemical Society, 2014, 136, 8654-8660.	13.7	383
5	A dual functional MOF as a luminescent sensor for quantitatively detecting the concentration of nitrobenzene and temperature. Chemical Communications, 2013, 49, 8964.	4.1	335
6	Metalâ€“Organic Framework Based upon the Synergy of a BrÃ¸nsted Acid Framework and Lewis Acid Centers as a Highly Efficient Heterogeneous Catalyst for Fixed-Bed Reactions. Journal of the American Chemical Society, 2015, 137, 4243-4248.	13.7	242
7	Functionalized Porous Aromatic Framework for Efficient Uranium Adsorption from Aqueous Solutions. ACS Applied Materials & Interfaces, 2017, 9, 12511-12517.	8.0	215
8	A strategy toward constructing a bifunctionalized MOF catalyst: post-synthetic modification of MOFs on organic ligands and coordinatively unsaturated metal sites. Chemical Communications, 2012, 48, 6151.	4.1	204
9	Bifunctional MOF heterogeneous catalysts based on the synergy of dual functional sites for efficient conversion of CO₂ under mild and co-catalyst free conditions. Journal of Materials Chemistry A, 2015, 3, 23136-23142.	10.3	175
10	Capture of organic iodides from nuclear waste by metal-organic framework-based molecular traps. Nature Communications, 2017, 8, 485.	12.8	171
11	Metal-Cation-Directed de Novo Assembly of a Functionalized Guest Molecule in the Nanospace of a Metalâ€“Organic Framework. Journal of the American Chemical Society, 2014, 136, 1202-1205.	13.7	168
12	Highly selective adsorption of ethylene over ethane in a MOF featuring the combination of open metal site and Ï€-complexation. Chemical Communications, 2015, 51, 2714-2717.	4.1	151
13	An N-rich metalâ€“organic framework with an rht topology: high CO2 and C2 hydrocarbons uptake and selective capture from CH4. Chemical Communications, 2014, 50, 5031.	4.1	137
14	Removal of Pertechnetateâ€Related Oxyanions from Solution Using Functionalized Hierarchical Porous Frameworks. Chemistry - A European Journal, 2016, 22, 17581-17584.	3.3	107
15	Dual functionalization of porous aromatic frameworks as a new platform for heterogeneous cascade catalysis. Chemical Communications, 2014, 50, 8507.	4.1	105
16	High storage capacity and separation selectivity for C₂ hydrocarbons over methane in the metalâ€“organic framework Cuâ€“TDPAT. Journal of Materials Chemistry A, 2014, 2, 15823-15828.	10.3	102
17	Design Strategies to Enhance Amidoxime Chelators for Uranium Recovery. ACS Applied Materials & Interfaces, 2019, 11, 30919-30926.	8.0	91
18	Chemically Stable Guanidinium Covalent Organic Framework for the Efficient Capture of Low-Concentration Iodine at High Temperatures. Journal of the American Chemical Society, 2022, 144, 6821-6829.	13.7	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. ACS Applied Materials & Interfaces, 2016, 8, 24097-24103.	8.0	78
20	A new microporous carbon material synthesized via thermolysis of a porous aromatic framework embedded with an extra carbon source for low-pressure CO2 uptake. Chemical Communications, 2013, 49, 10269.	4.1	76
21	Creation of a new type of ion exchange material for rapid, high-capacity, reversible and selective ion exchange without swelling and entrainment. Chemical Science, 2016, 7, 2138-2144.	7.4	72
22	Cu-TDPAT, an rht-Type Dual-Functional Metalâ€“Organic Framework Offering Significant Potential for Use in H₂ and Natural Gas Purification Processes Operating at High Pressures. Journal of Physical Chemistry C, 2012, 116, 16609-16618.	3.1	68
23	Dual Functionalized Cages in Metalâ€“Organic Frameworks via Stepwise Postsynthetic Modification. Chemistry of Materials, 2016, 28, 4781-4786.	6.7	55
24	Design and Construction of Coordination Polymers by 4-Amino-3,5-bis(n-pyridyl)-1,2,4-triazole (n = 2, 3, 4) Isomers in a Copper(I) Halide System: Diverse Structures Tuned by Isomeric and Anion Effects. Crystal Growth and Design, 2010, 10, 2192-2201.	3.0	53
25	Coordination polymers constructed by 1,3-bi(4-pyridyl)propane with four different conformations and 2,2â€²-dinitro-4,4â€²-biphenyldicarboxylate ligands: the effects of metal ions. CrystEngComm, 2011, 13, 1291-1298.	2.6	51
26	Recent Advances on Metalâ€Organic Frameworks in the Conversion of Carbon Dioxide. Chinese Journal of Chemistry, 2021, 39, 440-462.	4.9	51
27	Installation of synergistic binding sites onto porous organic polymers for efficient removal of perfluorooctanoic acid. Nature Communications, 2022, 13, 2132.	12.8	49
28	Interconnected CoS2/NC-CNTs network as high-performance anode materials for lithium-ion batteries. Science China Materials, 2021, 64, 820-829.	6.3	47
29	Two Metalâ€“Organic Frameworks Constructed from One-Dimensional Cobalt(II) Ferrimagnetic Chains with Alternating Antiferromagnetic/Ferromagnetic and AF/AF/FM Interaction: Synthesis, Structures, and Magnetic Properties. Inorganic Chemistry, 2012, 51, 6813-6820.	4.0	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. Crystal Growth and Design, 2011, 11, 1475-1485.	3.0	41
31	Design and construction of coordination polymers based on 2,2â€²-dinitro-4,4â€²-biphenyldicarboxylate and imidazole-based ligands: The effect of ligand length and metal ions. CrystEngComm, 2011, 13, 4592.	2.6	40
32	Multi-functional sites catalysts based on post-synthetic modification of metal-organic frameworks. Chinese Chemical Letters, 2018, 29, 827-830.	9.0	39
33	Functionalized metal organic frameworks for effective capture of radioactive organic iodides. Faraday Discussions, 2017, 201, 47-61.	3.2	38
34	Di-ionic multifunctional porous organic frameworks for efficient CO₂ fixation under mild and co-catalyst free conditions. Green Chemistry, 2018, 20, 5285-5291.	9.0	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. CrystEngComm, 2012, 14, 4664.	2.6	37
36	A microporous yttrium metalâ€“organic framework of an unusual nia topology for high adsorption selectivity of C₂H₂and CO₂over CH₄at room temperature. Materials Chemistry Frontiers, 2017, 1, 1982-1988.	5.9	35

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37	From an equilibrium based MOF adsorbent to a kinetic selective carbon molecular sieve for paraffin/iso-paraffin separation. Chemical Communications, 2016, 52, 13897-13900.	4.1	34
38	Recent Progress in <scp>Metalâ€Organic</scp> Frameworks@Cellulose Hybrids and Their Applications. Chinese Journal of Chemistry, 2021, 39, 3462-3480.	4.9	34
39	Design and construction of coordination polymers based on 2,2â€²-dinitro-4,4â€²-biphenyldicarboxylate and semi-rigid N-donor ligands: diverse structures and magnetic properties. Dalton Transactions, 2012, 41, 2677.	3.3	29
40	Metal-organic frameworks loaded on phosphorus-doped tubular carbon nitride for enhanced photocatalytic hydrogen production and amine oxidation. Journal of Colloid and Interface Science, 2021, 590, 1-11.	9.4	28
41	Design and construction of coordination polymers by 2,2â€²-dinitro-4,4â€²-biphenyldicarboxylate and imidazole-based ligands: diverse structures based on different metal ions. CrystEngComm, 2011, 13, 2457.	2.6	26
42	Carboxylate-modified squaraine dye doped silica fluorescent pH nanosensors. Nanotechnology, 2010, 21, 215502.	2.6	20
43	Two Coordination Polymers with Rare Topologies Based on Copper(II) and Ligands Generated by In Situ Reactions. European Journal of Inorganic Chemistry, 2011, 2011, 35-38.	2.0	13
44	Creating extra pores in microporous carbon via a template strategy for a remarkable enhancement of ambient-pressure CO2uptake. Chemical Communications, 2015, 51, 8683-8686.	4.1	11
45	Two three-dimensional metalâ€“organic frameworks constructed by thiazole-spaced pyridinecarboxylates exhibiting selective gas sorption or antiferromagnetic coupling. New Journal of Chemistry, 2013, 37, 425-430.	2.8	10
46	Energy related ion transports in coordination polymers. Nano Select, 0, , .	3.7	6