Baiyan Li

List of Publications by Year
in descending order

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46	5,220	109264	223716
papers	citations	35 h-index	46 g-index

48	48	48	5929
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	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.	6.6	89
2	Installation of synergistic binding sites onto porous organic polymers for efficient removal of perfluorooctanoic acid. Nature Communications, 2022, 13, 2132.	5.8	49
3	Interconnected CoS2/NC-CNTs network as high-performance anode materials for lithium-ion batteries. Science China Materials, 2021, 64, 820-829.	3.5	47
4	Recent Advances on Metalâ€Organic Frameworks in the Conversion of Carbon Dioxide. Chinese Journal of Chemistry, 2021, 39, 440-462.	2.6	51
5	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.	5.0	28
6	Recent Progress in <scp>Metalâ€Organic</scp> Frameworks@Cellulose Hybrids and Their Applications. Chinese Journal of Chemistry, 2021, 39, 3462-3480.	2.6	34
7	Design Strategies to Enhance Amidoxime Chelators for Uranium Recovery. ACS Applied Materials & Interfaces, 2019, 11, 30919-30926.	4.0	91
8	Multi-functional sites catalysts based on post-synthetic modification of metal-organic frameworks. Chinese Chemical Letters, 2018, 29, 827-830.	4.8	39
9	Di-ionic multifunctional porous organic frameworks for efficient CO₂ fixation under mild and co-catalyst free conditions. Green Chemistry, 2018, 20, 5285-5291.	4.6	38
10	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.	3.2	35
11	Functionalized Porous Aromatic Framework for Efficient Uranium Adsorption from Aqueous Solutions. ACS Applied Materials & Interfaces, 2017, 9, 12511-12517.	4.0	215
12	Capture of organic iodides from nuclear waste by metal-organic framework-based molecular traps. Nature Communications, 2017, 8, 485.	5.8	171
13	Functionalized metal organic frameworks for effective capture of radioactive organic iodides. Faraday Discussions, 2017, 201, 47-61.	1.6	38
14	Removal of Pertechnetateâ€Related Oxyanions from Solution Using Functionalized Hierarchical Porous Frameworks. Chemistry - A European Journal, 2016, 22, 17581-17584.	1.7	107
15	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.	4.0	78
16	From an equilibrium based MOF adsorbent to a kinetic selective carbon molecular sieve for paraffin/iso-paraffin separation. Chemical Communications, 2016, 52, 13897-13900.	2.2	34
17	Dual Functionalized Cages in Metalâ€“Organic Frameworks via Stepwise Postsynthetic Modification. Chemistry of Materials, 2016, 28, 4781-4786.	3.2	55
18	Applications of metal-organic frameworks featuring multi-functional sites. Coordination Chemistry Reviews, 2016, 307, 106-129.	9.5	471

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19	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.	3.7	72
20	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.	2.2	151
21	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.	6.6	242
22	Creating extra pores in microporous carbon via a template strategy for a remarkable enhancement of ambient-pressure CO2uptake. Chemical Communications, 2015, 51, 8683-8686.	2.2	11
23	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.	5.2	175
24	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.	6.6	168
25	Mercury nano-trap for effective and efficient removal of mercury(II) from aqueous solution. Nature Communications, 2014, 5, 5537.	5.8	481
26	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.	5.2	102
27	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.	2.2	137
28	Dual functionalization of porous aromatic frameworks as a new platform for heterogeneous cascade catalysis. Chemical Communications, 2014, 50, 8507.	2.2	105
29	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.	6.6	383
30	A dual functional MOF as a luminescent sensor for quantitatively detecting the concentration of nitrobenzene and temperature. Chemical Communications, 2013, 49, 8964.	2.2	335
31	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.	2.2	76
32	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.	1.4	10
33	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.	1.6	29
34	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.	1.5	68
35	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.	1.9	45
36	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.	1.3	37

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37	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.	2.2	204
38	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.	7.2	430
39	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.	1.3	51
40	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.	1.3	40
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.	1.3	26
42	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.	1.4	41
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.	1.0	13
44	Carboxylate-modified squaraine dye doped silica fluorescent pH nanosensors. Nanotechnology, 2010, 21, 215502.	1.3	20
45	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.	1.4	53
46	Energy related ion transports in coordination polymers. Nano Select, 0, , .	1.9	6