Jian-Bin Lin

List of Publications by Year
in descending order

54 papers	4,554 citations	172207 29 h-index	138251 58 g-index
58 all docs	58 docs citations	58 times ranked	4660 citing authors

#	Article	IF	Citations
1	Metal Azolate Frameworks: From Crystal Engineering to Functional Materials. Chemical Reviews, 2012, 112, 1001-1033.	23.0	1,512
2	A scalable metal-organic framework as a durable physisorbent for carbon dioxide capture. Science, 2021, 374, 1464-1469.	6.0	308
3	Nonclassical Active Site for Enhanced Gas Sorption in Porous Coordination Polymer. Journal of the American Chemical Society, 2010, 132, 6654-6656.	6.6	300
4	Solvent/additive-free synthesis of porous/zeolitic metal azolate frameworks from metal oxide/hydroxide. Chemical Communications, 2011, 47, 9185.	2.2	146
5	Geometry analysis and systematic synthesis of highly porous isoreticular frameworks with a unique topology. Nature Communications, 2012, 3, 642.	5.8	145
6	In Situ Solvothermal Generation of 1,2,4-Triazolates and Related Compounds from Organonitrile and Hydrazine Hydrate:Â A Mechanism Study. Inorganic Chemistry, 2007, 46, 1135-1143.	1.9	143
7	Single Crystal Proton Conduction Study of a Metal Organic Framework of Modest Water Stability. Journal of the American Chemical Society, 2017, 139, 7176-7179.	6.6	133
8	A flexible metal azolate framework with drastic luminescence response toward solvent vapors and carbon dioxide. Chemical Science, 2011, 2, 2214.	3.7	117
9	An ionic porous coordination framework exhibiting high CO₂affinity and CO₂/CH₄selectivity. Chemical Communications, 2011, 47, 926-928.	2.2	111
10	A Porous Coordination Polymer Assembled from 8-Connected {Co^{II}₃(OH)} Clusters and Isonicotinate: Multiple Active Metal Sites, Apical Ligand Substitution, H₂ Adsorption, and Magnetism. Inorganic Chemistry, 2011, 50, 2321-2328.	1.9	101
11	Isomeric Zinc(II) Triazolate Frameworks with 3-Connected Networks: Syntheses, Structures, and Sorption Properties. Inorganic Chemistry, 2009, 48, 3882-3889.	1.9	92
12	Encapsulation of Water Cluster, meso-Helical Chain and Tapes in Metalâˆ'Organic Frameworks Based on Double-Stranded Cd(II) Helicates and Carboxylates. Crystal Growth and Design, 2006, 6, 2739-2746.	1.4	91
13	Mechanical Properties of a Metalâ€"Organic Framework formed by Covalent Cross-Linking of Metalâ€"Organic Polyhedra. Journal of the American Chemical Society, 2019, 141, 1045-1053.	6.6	89
14	Chemical/Physical Pressure Tunable Spin-Transition Temperature and Hysteresis in a Two-Step Spin Crossover Porous Coordination Framework. Inorganic Chemistry, 2012, 51, 9423-9430.	1.9	84
15	Porous Manganese(II) 3-(2-Pyridyl)-5-(4-Pyridyl)-1,2,4-Triazolate Frameworks: Rational Self-Assembly, Supramolecular Isomerism, Solid-State Transformation, and Sorption Properties. Inorganic Chemistry, 2009, 48, 6652-6660.	1.9	83
16	Strong Hydrogen Binding within a 3D Microporous Metalâˆ'Organic Framework. Inorganic Chemistry, 2009, 48, 8656-8658.	1.9	76
17	New Zn-Aminotriazolate-Dicarboxylate Frameworks: Synthesis, Structures, and Adsorption Properties. Crystal Growth and Design, 2013, 13, 2118-2123.	1.4	76
18	Syntheses, structures and sorption properties of two framework-isomeric porous copper-coordination polymers. CrystEngComm, 2009, 11, 183-188.	1.3	68

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19	Highly-connected, porous coordination polymers based on [M4(Î¼3-OH)2] (M = CoII and NiII) clusters: different networks, adsorption and magnetic properties. Dalton Transactions, 2012, 41, 4199.	1.6	67
20	3D geometrically frustrated magnets assembled by transition metal ion and 1,2,3-triazole-4,5-dicarboxylate as triangular nodes. CrystEngComm, 2008, 10, 1770.	1.3	65
21	Porous ionic/molecular crystal composed of highly symmetric magnetic clusters. Chemical Communications, 2010, 46, 246-248.	2.2	56
22	Porous Coordination Polymer with Flexibility Imparted by Coordinatively Changeable Lithium Ions on the Pore Surface. Inorganic Chemistry, 2010, 49, 1158-1165.	1.9	54
23	Spin Canting and Topological Ferrimagnetism in Two Manganese(II) Coordination Polymers Generated by In Situ Solvothermal Ligand Reactions. European Journal of Inorganic Chemistry, 2007, 2007, 2668-2676.	1.0	51
24	Molecular Engineering of â€œClickâ€â€Phospholes Towards Selfâ€Assembled Luminescent Soft Materials. Advanced Functional Materials, 2014, 24, 897-906.	7.8	41
25	Design of a Humidity-Stable Metalâ€“Organic Framework Using a Phosphonate Monoester Ligand. Inorganic Chemistry, 2015, 54, 1185-1187.	1.9	40
26	Flexible porous coordination polymers constructed from 1,2-bis(4-pyridyl)hydrazine via solvothermal in situ reduction of 4,4â€²-azopyridine. Dalton Transactions, 2011, 40, 8549.	1.6	36
27	Windmill Co₄{Co₄(Î¼₄â€O)} with 16 Divergent Branches Forming a Family of Metalâ€“Organic Frameworks: Organic Metrics Control Topology, Gas Sorption, and Magnetism. Chemistry - A European Journal, 2016, 22, 12088-12094.	1.7	34
28	Three Co(II) Metalâ€“Organic Frameworks with Diverse Architectures for Selective Gas Sorption and Magnetic Studies. Inorganic Chemistry, 2019, 58, 6246-6256.	1.9	34
29	Synthesis of <i>P</i>-Triazole Dithienophospholes and a Cyclodextrin-Based Sensor via Click Chemistry. Organic Letters, 2013, 15, 5322-5325.	2.4	29
30	New Heterometallic Carboxylate Frameworks: Synthesis, Structure, Robustness, Flexibility, and Porosity. Inorganic Chemistry, 2009, 48, 7970-7976.	1.9	28
31	Pyridinium linkers and mixed anions in cationic metalâ€“organic frameworks. Inorganic Chemistry Frontiers, 2014, 1, 302-305.	3.0	28
32	Phosphinine Lipids: A Successful Marriage between Electronâ€Acceptor and Selfâ€Assembly Features. Angewandte Chemie - International Edition, 2013, 52, 8990-8994.	7.2	27
33	Separation of CO2 and N2 on a hydrophobic metal organic framework CALF-20. Chemical Engineering Journal, 2022, 442, 136263.	6.6	27
34	Grafting of a Molecular Rhenium CO₂ Reduction Catalyst onto Colloid-Imprinted Carbon. ACS Applied Energy Materials, 2019, 2, 2414-2418.	2.5	24
35	Scandium alkyl and hydride complexes supported by a pentadentate diborate ligand: reactions with CO₂ and N₂O. Dalton Transactions, 2018, 47, 13680-13688.	1.6	23
36	Crystallographic studies into the role of exposed rare earth metal ion for guest sorption. CrystEngComm, 2011, 13, 5849.	1.3	22

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37	Activation of ammonia and hydrazine by electron rich Fe(<scp>ii</scp>) complexes supported by a dianionic pentadentate ligand platform through a common terminal Fe(<scp>iii</scp>) amido intermediate. Chemical Science, 2021, 12, 2231-2241.	3.7	21
38	Synthesis and Properties of Cholesteric Click-Phospholes. Organic Letters, 2014, 16, 1366-1369.	2.4	16
39	Substituent effects on the intermolecular interactions and emission behaviors in pyrene-based mechanochromic luminogens. Journal of Materials Chemistry C, 2022, 10, 9310-9318.	2.7	16
40	A 3D Microporous MOF with <i>mab</i> Topology for Selective CO₂ Adsorption and Separation. ChemistrySelect, 2018, 3, 917-921.	0.7	15
41	Three Sequential Hydrolysis Products of the Ubiquitous Cu24 Isophthalate Metalâ€“Organic Polyhedra. Inorganic Chemistry, 2019, 58, 9874-9881.	1.9	14
42	Tandem deoxygenative hydrosilation of carbon dioxide with a cationic scandium hydridoborate and B(C₆F₅)₃. Dalton Transactions, 2020, 49, 95-101.	1.6	14
43	Cytotoxicity, cellular localization and photophysical properties of Re(I) tricarbonyl complexes bound to cysteine and its derivatives. Journal of Biological Inorganic Chemistry, 2020, 25, 759-776.	1.1	14
44	Two 2D microporous MOFs based on bent carboxylates and a linear spacer for selective CO₂adsorption. CrystEngComm, 2019, 21, 535-543.	1.3	13
45	Design Strategy for the Controlled Generation of Cationic Frameworks and Ensuing Anion-Exchange Capabilities. ACS Applied Materials & Interfaces, 2019, 11, 3181-3188.	4.0	11
46	Ligand-centered electrochemical processes enable CO₂ reduction with a nickel bis(triazapentadienyl) complex. Sustainable Energy and Fuels, 2019, 3, 1172-1181.	2.5	7
47	Larger pores via shorter pillars in flexible layer coordination networks. Canadian Journal of Chemistry, 2016, 94, 449-452.	0.6	6
48	Synthesis and Structures of Stable Pt^{II} and Pt^{IV} Alkylidenes: Evidence for Ï€â€Bonding and Relativistic Stabilization. Chemistry - A European Journal, 2019, 25, 4305-4308.	1.7	6
49	Copper-Catalyzed Annulation of Indolyl Î±-Diazocarbonyl Compounds Leads to Structurally Rearranged Carbazoles. Organic Letters, 2021, 23, 5559-5564.	2.4	6
50	Synthesis, Characterization, and Reactivity of Neutral Octahedral Alkyl-Cobalt(III) Complexes Bearing a Dianionic Pentadentate Ligand. Organometallics, 2020, 39, 2269-2277.	1.1	5
51	Studies of cyanomethylcarbamoyl-bridged anthracene and pyrene fluorophores. New Journal of Chemistry, 2021, 45, 17366-17376.	1.4	4
52	Stereoselective copper-catalyzed heteroarene Câ€“H functionalization/Michael-type annulation cascade with Î±-diazocarbonyls. Chemical Communications, 2021, 57, 10556-10559.	2.2	3
53	Synthesis of [2.2]Paracyclophane/9-Alkylfluorene Hybrids and the Discovery of a Solvent-assisted Rearrangement. Organic Letters, 2021, 23, 5461-5465.	2.4	3
54	Carbene Character in a Series of Neutral PC_{carbene}P Cobalt(I) Complexes: Radical Carbenes versus Nucleophilic Carbenes. Organometallics, 2022, 41, 235-245.	1.1	2