Bin Li

List of Publications by Year in Descending Order

115 papers	10,001 citations	46 h-index	99 g-index
122 ext. papers	12,098 ext. citations	9.8 avg, IF	6.6 L-index

#	Paper	IF	Citations
115	Immobilization of Lewis Basic Sites into a Stable Ethane-Selective MOF Enabling One-Step Separation of Ethylene from a Ternary Mixture.. *Journal of the American Chemical Society*, **2022**,	16.4	11
114	Robust and Radiation-Resistant Hofmann-Type Metal-Organic Frameworks for Record Xenon/Krypton Separation.. *Journal of the American Chemical Society*, **2022**,	16.4	11
113	Immobilization of Lewis Basic Nitrogen Sites into a Chemically Stable Metal-Organic Framework for Benchmark Water-Sorption-Driven Heat Allocations.. *Advanced Science*, **2022**, e2105556	13.6	2
112	Syntheses, structures, luminescence and CO2 gas adsorption properties of four three-dimensional heterobimetallic metal□organic frameworks. *Journal of Solid State Chemistry*, **2022**, 305, 122672	3.3	2
111	Polarized Laser Switching with Giant Contrast in MOF-Based Mixed-Matrix Membrane.. *Advanced Science*, **2022**, e2200953	13.6	2
110	A Rod-Packing Hydrogen-Bonded Organic Framework with Suitable Pore Confinement for Benchmark Ethane/Ethylene Separation. *Angewandte Chemie - International Edition*, **2021**, 60, 10304-10310	16.4	41
109	A Novel Hydrogen-Bonded Organic Framework with Highly Permanent Porosity for Boosting Ethane/Ethylene Separation **2021**, 3, 497-503		15
108	A Rod-Packing Hydrogen-Bonded Organic Framework with Suitable Pore Confinement for Benchmark Ethane/Ethylene Separation. *Angewandte Chemie*, **2021**, 133, 10392-10398	3.6	14
107	Chemically Stable Hafnium-Based Metal-Organic Framework for Highly Efficient CH/CH Separation under Humid Conditions. *ACS Applied Materials & Interfaces*, **2021**, 13, 18792-18799	9.5	18
106	Benchmark C2H2/CO2 Separation in an Ultra-Microporous Metal□Organic Framework via Copper(I)-Alkynyl Chemistry. *Angewandte Chemie*, **2021**, 133, 16131-16138	3.6	10
105	Progress in Multifunctional Metal-Organic Frameworks/Polymer Hybrid Membranes. *Chemistry - A European Journal*, **2021**, 27, 12940-12952	4.8	3
104	Benchmark C H /CO Separation in an Ultra-Microporous Metal-Organic Framework via Copper(I)-Alkynyl Chemistry. *Angewandte Chemie - International Edition*, **2021**, 60, 15995-16002	16.4	29
103	A novel anion-pillared metal□organic framework for highly efficient separation of acetylene from ethylene and carbon dioxide. *Journal of Materials Chemistry A*, **2021**, 9, 9248-9255	13	12
102	Efficient CO/CO separation in a stable microporous hydrogen-bonded organic framework. *Chemical Communications*, **2021**, 57, 10051-10054	5.8	1
101	Dense Packing of Acetylene in a Stable and Low-Cost Metal-Organic Framework for Efficient C H /CO Separation. *Angewandte Chemie - International Edition*, **2021**, 60, 25068-25074	16.4	22
100	A Chemically Stable Hofmann-Type Metal-Organic Framework with Sandwich-Like Binding Sites for Benchmark Acetylene Capture. *Advanced Materials*, **2020**, 32, e1908275	24	111
99	A reversible vapor-responsive fluorochromic molecular platform based on coupled AIE□ESIPT mechanisms and its applications in anti-counterfeiting measures. *Dyes and Pigments*, **2020**, 181, 108535	4.6	13

98	A metal-organic frameworks@ carbon nanotubes based electrochemical sensor for highly sensitive and selective determination of ascorbic acid. *Journal of Molecular Structure*, **2020**, 1209, 127986	3.4	16
97	Electrochemical detection of trace heavy metal ions using a Ln-MOF modified glass carbon electrode. *Journal of Solid State Chemistry*, **2020**, 281, 121032	3.3	22
96	Engineering microporous ethane-trapping metal□rganic frameworks for boosting ethane/ethylene separation. *Journal of Materials Chemistry A*, **2020**, 8, 3613-3620	13	55
95	Tuning the interpenetration of metal□rganic frameworks through changing ligand functionality: effect on gas adsorption properties. *CrystEngComm*, **2020**, 22, 506-514	3.3	15
94	Selective Ethane/Ethylene Separation in a Robust Microporous Hydrogen-Bonded Organic Framework. *Journal of the American Chemical Society*, **2020**, 142, 633-640	16.4	86
93	Boosting Ethylene/Ethane Separation within Copper(I)-Chelated Metal-Organic Frameworks through Tailor-Made Aperture and Specific □Complexation. *Advanced Science*, **2020**, 7, 1901918	13.6	41
92	Switchable Two-Photon Pumped Polarized Lasing Performance in Composition-Graded MOFs Based Heterostructures. *Advanced Optical Materials*, **2020**, 8, 2001089	8.1	6
91	A novel expanded metal-organic framework for balancing volumetric and gravimetric methane storage working capacities. *Chemical Communications*, **2020**, 56, 13117-13120	5.8	6
90	Reversing CH-CO adsorption selectivity in an ultramicroporous metal-organic framework platform. *Chemical Communications*, **2019**, 55, 11354-11357	5.8	25
89	Tailoring the pore geometry and chemistry in microporous metal-organic frameworks for high methane storage working capacity. *Chemical Communications*, **2019**, 55, 11402-11405	5.8	7
88	Our journey of developing multifunctional metal-organic frameworks. *Coordination Chemistry Reviews*, **2019**, 384, 21-36	23.2	86
87	A new metal-organic framework with suitable pore size and ttd-type topology revealing highly selective adsorption and separation of organic dyes. *Journal of Solid State Chemistry*, **2019**, 277, 159-162	3.3	16
86	An inner light integrated metal-organic framework photodynamic therapy system for effective elimination of deep-seated tumor cells. *Journal of Solid State Chemistry*, **2019**, 276, 205-209	3.3	11
85	A water-stable fcu-MOF material with exposed amino groups for the multi-functional separation of small molecules. *Science China Materials*, **2019**, 62, 1315-1322	7.1	25
84	A manganese-based metal-organic framework electrochemical sensor for highly sensitive cadmium ions detection. *Journal of Solid State Chemistry*, **2019**, 275, 38-42	3.3	26
83	Post-modified metal-organic framework as a turn-on fluorescent probe for potential diagnosis of neurological diseases. *Microporous and Mesoporous Materials*, **2019**, 288, 109610	5.3	18
82	Metal-organic framework film for fluorescence turn-on H2S gas sensing and anti-counterfeiting patterns. *Science China Materials*, **2019**, 62, 1445-1453	7.1	25
81	Loading Photochromic Molecules into a Luminescent Metal-Organic Framework for Information Anticounterfeiting. *Angewandte Chemie - International Edition*, **2019**, 58, 18025-18031	16.4	98

80	Current Status of Microporous Metal-Organic Frameworks for Hydrocarbon Separations. *Topics in Current Chemistry*, **2019**, 377, 33	7.2	22
79	Loading Photochromic Molecules into a Luminescent Metal□Organic Framework for Information Anticounterfeiting. *Angewandte Chemie*, **2019**, 131, 18193-18199	3.6	30
78	A zirconium-based metal-organic framework with encapsulated anionic drug for uncommonly controlled oral drug delivery. *Microporous and Mesoporous Materials*, **2019**, 275, 229-234	5.3	30
77	Nanoscale fluorescent metal-organic framework composites as a logic platform for potential diagnosis of asthma. *Biosensors and Bioelectronics*, **2019**, 130, 65-72	11.8	32
76	Confinement of Perovskite-QDs within a Single MOF Crystal for Significantly Enhanced Multiphoton Excited Luminescence. *Advanced Materials*, **2019**, 31, e1806897	24	79
75	Low-Cost and High-Performance Microporous Metal□Organic Framework for Separation of Acetylene from Carbon Dioxide. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 1667-1672	8.3	33
74	A Metal-Organic Framework with Optimized Porosity and Functional Sites for High Gravimetric and Volumetric Methane Storage Working Capacities. *Advanced Materials*, **2018**, 30, e1704792	24	81
73	Controlling Pore Shape and Size of Interpenetrated Anion-Pillared Ultramicroporous Materials Enables Molecular Sieving of CO Combined with Ultrahigh Uptake Capacity. *ACS Applied Materials & Interfaces*, **2018**, 10, 16628-16635	9.5	61
72	Efficient separation of CH from CH/CO mixtures in an acid-base resistant metal-organic framework. *Chemical Communications*, **2018**, 54, 4846-4849	5.8	46
71	A novel metal-organic framework as a heterogeneous catalysis for the solvent-free conversion of CO2 and epoxides into cyclic carbonate. *Inorganic Chemistry Communication*, **2018**, 88, 56-59	3.1	12
70	Highly stable Y(III)-based metal organic framework with two molecular building block for selective adsorption of C2H2 and CO2 over CH4. *Inorganic Chemistry Frontiers*, **2018**, 5, 1193-1198	6.8	40
69	Fine-tuning of nano-traps in a stable metal□rganic framework for highly efficient removal of propyne from propylene. *Journal of Materials Chemistry A*, **2018**, 6, 6931-6937	13	57
68	Porous metal□rganic frameworks for fuel storage. *Coordination Chemistry Reviews*, **2018**, 373, 167-198	23.2	169
67	Metal□Organic Framework with Trifluoromethyl Groups for Selective C2H2 and CO2 Adsorption. *Crystal Growth and Design*, **2018**, 18, 4522-4527	3.5	18
66	Flexible Metal-Organic Framework-Based Mixed-Matrix Membranes: A New Platform for H S Sensors. *Small*, **2018**, 14, e1801563	11	57
65	Highly selective room temperature acetylene sorption by an unusual triacetylenic phosphine MOF. *Chemical Communications*, **2018**, 54, 9937-9940	5.8	23
64	Solvent-Triggered Reversible Phase Changes in Two Manganese-Based Metal-Organic Frameworks and Associated Sensing Events. *Chemistry - A European Journal*, **2018**, 24, 13231-13237	4.8	11
63	Reticular Chemistry of Multifunctional Metal-Organic Framework Materials. *Israel Journal of Chemistry*, **2018**, 58, 949-961	3.4	16

62	Nanospace within metal–organic frameworks for gas storage and separation. *Materials Today Nano*, **2018**, 2, 21-49	9.7	53
61	A Metal-Organic Framework with Suitable Pore Size and Specific Functional Sites for the Removal of Trace Propyne from Propylene. *Angewandte Chemie - International Edition*, **2018**, 57, 15183-15188	16.4	83
60	A Metal–Organic Framework with Suitable Pore Size and Specific Functional Sites for the Removal of Trace Propyne from Propylene. *Angewandte Chemie*, **2018**, 130, 15403-15408	3.6	30
59	Microporous metal–organic framework with open Cu2+ functional sites and optimized pore size for C2H2 storage and CH4 purification. *Polyhedron*, **2018**, 155, 332-336	2.7	6
58	Highly Enhanced Gas Uptake and Selectivity via Incorporating Methoxy Groups into a Microporous Metal–Organic Framework. *Crystal Growth and Design*, **2017**, 17, 2172-2177	3.5	21
57	A microporous hydrogen-bonded organic framework with amine sites for selective recognition of small molecules. *Journal of Materials Chemistry A*, **2017**, 5, 8292-8296	13	50
56	A new low-cost and effective method for enhancing the catalytic performance of Cu–SiO2 catalysts for the synthesis of ethylene glycol via the vapor-phase hydrogenation of dimethyl oxalate by coating the catalysts with dextrin. *Journal of Catalysis*, **2017**, 350, 122-132	7.3	52
55	A two-dimensional microporous metal–organic framework for highly selective adsorption of carbon dioxide and acetylene. *Chinese Chemical Letters*, **2017**, 28, 1653-1658	8.1	21
54	Negative-resistance and high-mobility devices based on paper. *Materials Express*, **2017**, 7, 5-14	1.3	2
53	Optimized Separation of Acetylene from Carbon Dioxide and Ethylene in a Microporous Material. *Journal of the American Chemical Society*, **2017**, 139, 8022-8028	16.4	263
52	Flexible-Robust Metal-Organic Framework for Efficient Removal of Propyne from Propylene. *Journal of the American Chemical Society*, **2017**, 139, 7733-7736	16.4	177
51	Construction of ntt-Type Metal–Organic Framework from C2-Symmetry Hexacarboxylate Linker for Enhanced Methane Storage. *Crystal Growth and Design*, **2017**, 17, 4795-4800	3.5	11
50	Two solvent-induced porous hydrogen-bonded organic frameworks: solvent effects on structures and functionalities. *Chemical Communications*, **2017**, 53, 11150-11153	5.8	58
49	Efficient separation of ethylene from acetylene/ethylene mixtures by a flexible-robust metal–organic framework. *Journal of Materials Chemistry A*, **2017**, 5, 18984-18988	13	68
48	An Ideal Molecular Sieve for Acetylene Removal from Ethylene with Record Selectivity and Productivity. *Advanced Materials*, **2017**, 29, 1704210	24	213
47	Microporous Lanthanide Metal-Organic Framework Constructed from Lanthanide Metalloligand for Selective Separation of CH/CO and CH/CH at Room Temperature. *Inorganic Chemistry*, **2017**, 56, 7145-7150	5.1	52
46	Fine-Tuning Porous Metal-Organic Frameworks for Gas Separations at Will. *CheM*, **2016**, 1, 669-671	16.2	25
45	Emerging Multifunctional Metal-Organic Framework Materials. *Advanced Materials*, **2016**, 28, 8819-8860	24	955

44	A flexible metal-organic framework with double interpenetration for highly selective CO2 capture at room temperature. *Science China Chemistry*, **2016**, 59, 965-969	7.9	22
43	Porous Metal-Organic Frameworks: Promising Materials for Methane Storage. *CheM*, **2016**, 1, 557-580	16.2	214
42	W-shaped 1,3-di(2,4-dicarboxyphenyl)benzene based lanthanide coordination polymers with tunable white light emission. *New Journal of Chemistry*, **2016**, 40, 10440-10446	3.6	18
41	A Twofold Interpenetrated Metal-Organic Framework with High Performance in Selective Separation of C H /CH. *ChemPlusChem*, **2016**, 81, 770-774	2.8	28
40	Emerging functional chiral microporous materials: synthetic strategies and enantioselective separations. *Materials Today*, **2016**, 19, 503-515	21.8	63
39	Control of interpenetration in a microporous metal-organic framework for significantly enhanced C2H2/CO2 separation at room temperature. *Chemical Communications*, **2016**, 52, 3494-6	5.8	71
38	Metal-Organic Frameworks as Platforms for Functional Materials. *Accounts of Chemical Research*, **2016**, 49, 483-93	24.3	1178
37	High acetylene/ethylene separation in a microporous zinc(II) metal-organic framework with low binding energy. *Chemical Communications*, **2016**, 52, 1166-9	5.8	57
36	A Threefold Interpenetrated Pillared-Layer Metal-Organic Framework for Selective Separation of C H /CH and CO /CH. *ChemPlusChem*, **2016**, 81, 764-769	2.8	17
35	Pore chemistry and size control in hybrid porous materials for acetylene capture from ethylene. *Science*, **2016**, 353, 141-4	33.3	783
34	A Fluorinated Metal-Organic Framework for High Methane Storage at Room Temperature. *Crystal Growth and Design*, **2016**, 16, 3395-3399	3.5	28
33	Cationic Covalent Organic Frameworks: A Simple Platform of Anionic Exchange for Porosity Tuning and Proton Conduction. *Journal of the American Chemical Society*, **2016**, 138, 5897-903	16.4	463
32	Finely tuning MOFs towards high performance in C2H2 storage: synthesis and properties of a new MOF-505 analogue with an inserted amide functional group. *Chemical Communications*, **2016**, 52, 7241-4	5.8	110
31	A Microporous Metal-Organic Framework with Lewis Basic Nitrogen Sites for High C2H2 Storage and Significantly Enhanced C2H2/CO2 Separation at Ambient Conditions. *Inorganic Chemistry*, **2016**, 55, 7214-8	5.1	100
30	A Microporous Porphyrin-Based Hydrogen-Bonded Organic Framework for Gas Separation. *Crystal Growth and Design*, **2015**, 15, 2000-2004	3.5	80
29	A Flexible Microporous Hydrogen-Bonded Organic Framework for Gas Sorption and Separation. *Journal of the American Chemical Society*, **2015**, 137, 9963-70	16.4	254
28	Porous metal-organic frameworks with Lewis basic nitrogen sites for high-capacity methane storage. *Energy and Environmental Science*, **2015**, 8, 2504-2511	35.4	107
27	Multifunctional lanthanide coordination polymers. *Progress in Polymer Science*, **2015**, 48, 40-84	29.6	151

26	A microporous metal-organic framework with polarized trifluoromethyl groups for high methane storage. *Chemical Communications*, **2015**, 51, 14789-92	5.8	35
25	Multistate and Multicolor Photochromism through Selective Cycloreversion in Asymmetric Platinum(II) Complexes with Two Different Dithienylethene-Acetylides. *Inorganic Chemistry*, **2015**, 54, 11511-9	5.1	24
24	Microporous metal-organic framework with dual functionalities for highly efficient removal of acetylene from ethylene/acetylene mixtures. *Nature Communications*, **2015**, 6, 7328	17.4	326
23	Regulation of charge delocalization in a heteronuclear Fe2 ru system by a stepwise photochromic process. *Chemistry - A European Journal*, **2015**, 21, 3318-26	4.8	27
22	A microporous metal-organic framework with rare lvt topology for highly selective C2H2/C2H4 separation at room temperature. *Chemical Communications*, **2015**, 51, 5610-3	5.8	54
21	A Microporous Metal□Organic Framework Constructed from a New Tetracarboxylic Acid for Selective Gas Separation. *Crystal Growth and Design*, **2014**, 14, 2522-2526	3.5	49
20	A two dimensional microporous metal-organic framework for selective gas separation. *Inorganic Chemistry Communication*, **2014**, 50, 106-109	3.1	8
19	Enhanced CO2 sorption and selectivity by functionalization of a NbO-type metal-organic framework with polarized benzothiadiazole moieties. *Chemical Communications*, **2014**, 50, 12105-8	5.8	86
18	Multifunctional metal-organic frameworks constructed from meta-benzenedicarboxylate units. *Chemical Society Reviews*, **2014**, 43, 5618-56	58.5	431
17	A porous metal□organic framework with an elongated anthracene derivative exhibiting a high working capacity for the storage of methane. *Journal of Materials Chemistry A*, **2014**, 2, 11516	13	40
16	Porous Metal-Organic Frameworks for Gas Storage and Separation: What, How, and Why?. *Journal of Physical Chemistry Letters*, **2014**, 5, 3468-79	6.4	403
15	A porous metal-organic framework with dynamic pyrimidine groups exhibiting record high methane storage working capacity. *Journal of the American Chemical Society*, **2014**, 136, 6207-10	16.4	278
14	Two structurally different praseodymium-organic frameworks with permanent porosity. *Inorganic Chemistry Communication*, **2014**, 45, 89-92	3.1	0
13	Microporous metal-organic frameworks for gas separation. *Chemistry - an Asian Journal*, **2014**, 9, 1474-98	4.5	157
12	Porous Lanthanide Metal□Organic Frameworks for Gas Storage and Separation. *Structure and Bonding*, **2014**, 75-107	0.9	13
11	Modulating stepwise photochromism in platinum(II) complexes with dual dithienylethene-acetylides by a progressive red shift of ring-closure absorption. *Inorganic Chemistry* , **2013**, 52, 12511-20	5.1	21
10	Multistate Photochromism in a Ruthenium Complex with Dithienylethene□Acetylide. *Organometallics*, **2013**, 32, 1759-1765	3.8	18
9	Phosphorescent Square-Planar Platinum(II) Complexes of 1,3-Bis(2-pyridylimino)isoindoline with a Monodentate Strong-Field Ligand. *European Journal of Inorganic Chemistry*, **2013**, 2013, 4789-4798	2.3	6

8	Redox-modulated stepwise photochromism in a ruthenium complex with dual dithienylethene-acetylides. *Journal of the American Chemical Society*, **2012**, 134, 16059-67	16.4	76
7	Gold(I)-coordination triggered multistep and multiple photochromic reactions in multi-dithienylethene (DTE) systems. *Inorganic Chemistry*, **2012**, 51, 1933-42	5.1	41
6	Photoswitchable electrochemical behaviour of a [FeFe] hydrogenase model with a dithienylethene derivative. *Dalton Transactions*, **2012**, 41, 11813-9	4.3	5
5	Luminescence vapochromism in solid materials based on metal complexes for detection of volatile organic compounds (VOCs). *Journal of Materials Chemistry*, **2012**, 22, 11427		190
4	Spectroscopic, Electrochemical, and DFT Studies of Oxo-Centered Triruthenium Cluster Complexes with a Bis(tridentate) Triazine Ligand. *European Journal of Inorganic Chemistry*, **2011**, 2011, 2306-2316	2.3	10
3	Luminescence vapochromism of a platinum(II) complex for detection of low molecular weight halohydrocarbon. *Inorganic Chemistry*, **2009**, 48, 10202-10	5.1	73
2	Low-valence oxo-centred triruthenium complexes by bridging acetate substitution with pyrazolyldiazine or pyridinyltetrazine ligands. *Dalton Transactions*, **2009**, 8696-703	4.3	17
1	Photochromic and electrochromic properties of oxo-centred triruthenium compounds with a dithienylethene bis(phosphine) ligand. *Dalton Transactions*, **2009**, 10244-9	4.3	7