Banglin Chen

List of Publications by Year
in descending order

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399	76,176	511	517
papers	citations	128 h-index	267 g-index

425	425	425	28754
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Luminescent Functional Metalâ€“Organic Frameworks. Chemical Reviews, 2012, 112, 1126-1162.	47.7	5,099
2	Modular Chemistry:â€‰ Secondary Building Units as a Basis for the Design of Highly Porous and Robust Metalâ€’Organic Carboxylate Frameworks. Accounts of Chemical Research, 2001, 34, 319-330.	15.6	4,980
3	Rod Packings and Metalâ€’Organic Frameworks Constructed from Rod-Shaped Secondary Building Units. Journal of the American Chemical Society, 2005, 127, 1504-1518.	13.7	2,186
4	Metalâ€’Organic Frameworks with Functional Pores for Recognition of Small Molecules. Accounts of Chemical Research, 2010, 43, 1115-1124.	15.6	1,919
5	Methane storage in metalâ€“organic frameworks. Chemical Society Reviews, 2014, 43, 5657-5678.	38.1	1,449
6	Metalâ€“Organic Frameworks as Platforms for Functional Materials. Accounts of Chemical Research, 2016, 49, 483-493.	15.6	1,403
7	Emerging Multifunctional Metalâ€“Organic Framework Materials. Advanced Materials, 2016, 28, 8819-8860.	21.0	1,227
8	Interwoven Metal-Organic Framework on a Periodic Minimal Surface with Extra-Large Pores. Science, 2001, 291, 1021-1023.	12.6	1,211
9	A Microporous Metalâ€“Organic Framework for Gas-Chromatographic Separation of Alkanes. Angewandte Chemie - International Edition, 2006, 45, 1390-1393.	13.8	1,128
10	Pore chemistry and size control in hybrid porous materials for acetylene capture from ethylene. Science, 2016, 353, 141-144.	12.6	1,088
11	A Luminescent Metalâ€“Organic Framework with Lewis Basic Pyridyl Sites for the Sensing of Metal Ions. Angewandte Chemie - International Edition, 2009, 48, 500-503.	13.8	1,041
12	A Luminescent Mixed-Lanthanide Metalâ€“Organic Framework Thermometer. Journal of the American Chemical Society, 2012, 134, 3979-3982.	13.7	1,033
13	High H2 Adsorption in a Microporous Metal-Organic Framework with Open Metal Sites. Angewandte Chemie - International Edition, 2005, 44, 4745-4749.	13.8	990
14	A Luminescent Microporous Metalâ€’Organic Framework for the Recognition and Sensing of Anions. Journal of the American Chemical Society, 2008, 130, 6718-6719.	13.7	962
15	Lanthanide metal-organic frameworks for luminescent sensing and light-emitting applications. Coordination Chemistry Reviews, 2014, 273-274, 76-86.	18.8	937
16	Luminescent Open Metal Sites within a Metalâ€“Organic Framework for Sensing Small Molecules. Advanced Materials, 2007, 19, 1693-1696.	21.0	904
17	Ordered macro-microporous metal-organic framework single crystals. Science, 2018, 359, 206-210.	12.6	836
18	Assembly of Metalâ€’Organic Frameworks from Large Organic and Inorganic Secondary Building Units:Â New Examples and Simplifying Principles for Complex Structuresâ–µ. Journal of the American Chemical Society, 2001, 123, 8239-8247.	13.7	789

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19	Ethane/ethylene separation in a metal-organic framework with iron-peroxo sites. Science, 2018, 362, 443-446.	12.6	763
20	Multifunctional porous hydrogen-bonded organic framework materials. Chemical Society Reviews, 2019, 48, 1362-1389.	38.1	751
21	Microporous metal-organic framework with potential for carbon dioxide capture at ambient conditions. Nature Communications, 2012, 3, 954.	12.8	716
22	Perspective of microporous metalâ€“organic frameworks for CO₂capture and separation. Energy and Environmental Science, 2014, 7, 2868.	30.8	693
23	A Highly Sensitive Mixed Lanthanide Metalâ€“Organic Framework Self-Calibrated Luminescent Thermometer. Journal of the American Chemical Society, 2013, 135, 15559-15564.	13.7	608
24	Metalâ€“organic frameworks with potential for energy-efficient adsorptive separation of light hydrocarbons. Energy and Environmental Science, 2012, 5, 9107.	30.8	604
25	Dualâ€Emitting MOFâŠƒDye Composite for Ratiometric Temperature Sensing. Advanced Materials, 2015, 27, 1420-1425.	21.0	604
26	A flexible metalâ€“organic framework with a high density of sulfonic acid sites for proton conduction. Nature Energy, 2017, 2, 877-883.	39.5	563
27	A Microporous Hydrogen-Bonded Organic Framework for Highly Selective C₂H₂/C₂H₄ Separation at Ambient Temperature. Journal of the American Chemical Society, 2011, 133, 14570-14573.	13.7	559
28	Exploration of porous metalâ€“organic frameworks for gas separation and purification. Coordination Chemistry Reviews, 2019, 378, 87-103.	18.8	538
29	Molecular sieving of ethylene from ethane using a rigid metalâ€“organic framework. Nature Materials, 2018, 17, 1128-1133.	27.5	532
30	Potential of microporous metalâ€“organic frameworks for separation of hydrocarbon mixtures. Energy and Environmental Science, 2016, 9, 3612-3641.	30.8	530
31	Microporous Metal-Organic Framework Materials for Gas Separation. CheM, 2020, 6, 337-363.	11.7	528
32	Exceptionally High Acetylene Uptake in a Microporous Metalâ^'Organic Framework with Open Metal Sites. Journal of the American Chemical Society, 2009, 131, 12415-12419.	13.7	510
33	Porous Metalâ€“Organic Frameworks for Gas Storage and Separation: What, How, and Why?. Journal of Physical Chemistry Letters, 2014, 5, 3468-3479.	4.6	505
34	Rationally tuned micropores within enantiopure metal-organic frameworks for highly selective separation of acetylene and ethylene. Nature Communications, 2011, 2, 204.	12.8	504
35	UTSA-74: A MOF-74 Isomer with Two Accessible Binding Sites per Metal Center for Highly Selective Gas Separation. Journal of the American Chemical Society, 2016, 138, 5678-5684.	13.7	489
36	Multifunctional metalâ€“organic frameworks constructed from meta-benzenedicarboxylate units. Chemical Society Reviews, 2014, 43, 5618-5656.	38.1	476

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37	Rationally Designed Micropores within a Metalâ^'Organic Framework for Selective Sorption of Gas Molecules. Inorganic Chemistry, 2007, 46, 1233-1236.	4.0	471
38	Cu2(ATC)Â·6H2O:Â Design of Open Metal Sites in Porous Metalâ^'Organic Crystals (ATC:Â 1,3,5,7-Adamantane) Tj ETQq0 0 0 rgBT /Ove	13.7	451
39	Hydrogen-Bonded Organic Frameworks as a Tunable Platform for Functional Materials. Journal of the American Chemical Society, 2020, 142, 14399-14416.	13.7	444
40	Surface Interactions and Quantum Kinetic Molecular Sieving for H₂ and D₂ Adsorption on a Mixed Metalâ^'Organic Framework Material. Journal of the American Chemical Society, 2008, 130, 6411-6423.	13.7	437
41	Porous metal-organic frameworks for gas storage and separation: Status and challenges. EnergyChem, 2019, 1, 100006.	19.1	434
42	A Microporous Metalâ^'Organic Framework for Separation of CO₂/N₂ and CO₂/CH₄ by Fixed-Bed Adsorption. Journal of Physical Chemistry C, 2008, 112, 1575-1581.	3.1	426
43	A luminescent nanoscale metalâ€“organic framework for sensing of nitroaromatic explosives. Chemical Communications, 2011, 47, 3153.	4.1	426
44	Optimized Separation of Acetylene from Carbon Dioxide and Ethylene in a Microporous Material. Journal of the American Chemical Society, 2017, 139, 8022-8028.	13.7	417
45	Microporous metalâ€“organic framework with dual functionalities for highly efficient removal of acetylene from ethylene/acetylene mixtures. Nature Communications, 2015, 6, 7328.	12.8	404
46	A microporous luminescent metalâ€“organic framework for highly selective and sensitive sensing of Cu2+ in aqueous solution. Chemical Communications, 2010, 46, 5503.	4.1	384
47	Functional Mixed Metalâ€“Organic Frameworks with Metalloligands. Angewandte Chemie - International Edition, 2011, 50, 10510-10520.	13.8	384
48	Confinement of pyridinium hemicyanine dye within an anionic metal-organic framework for two-photon-pumped lasing. Nature Communications, 2013, 4, 2719.	12.8	381
49	Energy-efficient separation alternatives: metalâ€“organic frameworks and membranes for hydrocarbon separation. Chemical Society Reviews, 2020, 49, 5359-5406.	38.1	370
50	A Flexible Microporous Hydrogen-Bonded Organic Framework for Gas Sorption and Separation. Journal of the American Chemical Society, 2015, 137, 9963-9970.	13.7	360
51	Metalâ€“organic frameworks for luminescence thermometry. Chemical Communications, 2015, 51, 7420-7431.	4.1	354
52	A robust near infrared luminescent ytterbium metalâ€“organic framework for sensing of small molecules. Chemical Communications, 2011, 47, 5551-5553.	4.1	345
53	Open Metal Sites within Isostructural Metalâ€“Organic Frameworks for Differential Recognition of Acetylene and Extraordinarily High Acetylene Storage Capacity at Room Temperature. Angewandte Chemie - International Edition, 2010, 49, 4615-4618.	13.8	344
54	A Metalâ€“Organic Framework with Optimized Open Metal Sites and Pore Spaces for High Methane Storage at Room Temperature. Angewandte Chemie - International Edition, 2011, 50, 3178-3181.	13.8	340

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55	Pore Space Partition within a Metalâ€“Organic Framework for Highly Efficient C₂H₂/CO₂ Separation. Journal of the American Chemical Society, 2019, 141, 4130-4136.	13.7	338
56	Interplay of Metalloligand and Organic Ligand to Tune Micropores within Isostructural Mixed-Metal Organic Frameworks (Mâ€²MOFs) for Their Highly Selective Separation of Chiral and Achiral Small Molecules. Journal of the American Chemical Society, 2012, 134, 8703-8710.	13.7	326
57	A Zn4O-containing doubly interpenetrated porous metalâ€“organic framework for photocatalytic decomposition of methyl orange. Chemical Communications, 2011, 47, 11715.	4.1	319
58	Mixed Metalâ€“Organic Framework with Multiple Binding Sites for Efficient C₂H₂/CO₂Separation. Angewandte Chemie - International Edition, 2020, 59, 4396-4400.	13.8	313
59	A Porous Metalâ€“Organic Framework with Dynamic Pyrimidine Groups Exhibiting Record High Methane Storage Working Capacity. Journal of the American Chemical Society, 2014, 136, 6207-6210.	13.7	311
60	An Ideal Molecular Sieve for Acetylene Removal from Ethylene with Record Selectivity and Productivity. Advanced Materials, 2017, 29, 1704210.	21.0	310
61	Boosting Ethane/Ethylene Separation within Isoreticular Ultramicroporous Metalâ€“Organic Frameworks. Journal of the American Chemical Society, 2018, 140, 12940-12946.	13.7	309
62	Microporous metalâ€“organic frameworks for storage and separation of small hydrocarbons. Chemical Communications, 2012, 48, 11813.	4.1	297
63	Porous Metal-Organic Frameworks: Promising Materials for Methane Storage. CheM, 2016, 1, 557-580.	11.7	297
64	A Homochiral Microporous Hydrogen-Bonded Organic Framework for Highly Enantioselective Separation of Secondary Alcohols. Journal of the American Chemical Society, 2014, 136, 547-549.	13.7	292
65	Straightforward Loading of Imidazole Molecules into Metalâ€“Organic Framework for High Proton Conduction. Journal of the American Chemical Society, 2017, 139, 15604-15607.	13.7	290
66	A Rodâ€Packing Microporous Hydrogenâ€Bonded Organic Framework for Highly Selective Separation of C₂H₂/CO₂ at Room Temperature. Angewandte Chemie - International Edition, 2015, 54, 574-577.	13.8	289
67	Secondâ€Order Nonlinear Optical Activity Induced by Ordered Dipolar Chromophores Confined in the Pores of an Anionic Metalâ€“Organic Framework. Angewandte Chemie - International Edition, 2012, 51, 10542-10545.	13.8	279
68	Polystyrene Sulfonate Threaded through a Metalâ€“Organic Framework Membrane for Fast and Selective Lithiumâ€Ion Separation. Angewandte Chemie - International Edition, 2016, 55, 15120-15124.	13.8	272
69	Porous Metalloporphyrinic Frameworks Constructed from Metal 5,10,15,20-Tetrakis(3,5-biscarboxylphenyl)porphyrin for Highly Efficient and Selective Catalytic Oxidation of Alkylbenzenes. Journal of the American Chemical Society, 2012, 134, 10638-10645.	13.7	265
70	Metalâ€“Organic Frameworks as a Versatile Platform for Proton Conductors. Advanced Materials, 2020, 32, e1907090.	21.0	255
71	Flexibleâ€“Robust Metalâ€“Organic Framework for Efficient Removal of Propyne from Propylene. Journal of the American Chemical Society, 2017, 139, 7733-7736.	13.7	242
72	A rod packing microporous metalâ€“organic framework with open metal sites for selective guest sorption and sensing of nitrobenzene. Chemical Communications, 2010, 46, 7205.	4.1	239

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73	Ethylene/ethane separation in a stable hydrogen-bonded organic framework through a gating mechanism. Nature Chemistry, 2021, 13, 933-939.	13.6	235
74	A porous Zr-cluster-based cationic metalâ€“organic framework for highly efficient Cr₂O₇^{2â^’} removal from water. Chemical Communications, 2015, 51, 14732-14734.	4.1	234
75	Enhanced Near-Infraredâ^’Luminescence in an Erbium Tetrafluoroterephthalate Framework. Inorganic Chemistry, 2006, 45, 8882-8886.	4.0	233
76	A new MOF-505 analog exhibiting high acetylene storage. Chemical Communications, 2009, , 7551.	4.1	231
77	A Triply Interpenetrated Microporous Metalâ^’Organic Framework for Selective Sorption of Gas Molecules. Inorganic Chemistry, 2007, 46, 8490-8492.	4.0	230
78	A robust doubly interpenetrated metalâ€“organic framework constructed from a novel aromatic tricarboxylate for highly selective separation of small hydrocarbons. Chemical Communications, 2012, 48, 6493.	4.1	224
79	Porous metalâ€“organic frameworks for fuel storage. Coordination Chemistry Reviews, 2018, 373, 167-198.	18.8	211
80	Turn-on and Ratiometric Luminescent Sensing of Hydrogen Sulfide Based on Metalâ€“Organic Frameworks. ACS Applied Materials & Interfaces, 2016, 8, 32259-32265.	8.0	207
81	Loading Photochromic Molecules into a Luminescent Metalâ€“Organic Framework for Information Anticounterfeiting. Angewandte Chemie - International Edition, 2019, 58, 18025-18031.	13.8	205
82	A Microporous Metalâ€“Organic Framework for Highly Selective Separation of Acetylene, Ethylene, and Ethane from Methane at Room Temperature. Chemistry - A European Journal, 2012, 18, 613-619.	3.3	204
83	Molecular Sieving of Ethane from Ethylene through the Molecular Crossâ€Section Size Differentiation in Gallateâ€based Metalâ€“Organic Frameworks. Angewandte Chemie - International Edition, 2018, 57, 16020-16025.	13.8	202
84	Microporous Hydrogen-Bonded Organic Framework for Highly Efficient Turn-Up Fluorescent Sensing of Aniline. Journal of the American Chemical Society, 2020, 142, 12478-12485.	13.7	201
85	Color tunable and white light emitting Tb3+ and Eu3+ doped lanthanide metalâ€“organic framework materials. Journal of Materials Chemistry, 2012, 22, 3210.	6.7	200
86	Two-Dimensional Covalent Organic Frameworks with Cobalt(II)-Phthalocyanine Sites for Efficient Electrocatalytic Carbon Dioxide Reduction. Journal of the American Chemical Society, 2021, 143, 7104-7113.	13.7	198
87	Hydrogen Adsorption in an Interpenetrated Dynamic Metalâ^’Organic Framework. Inorganic Chemistry, 2006, 45, 5718-5720.	4.0	193
88	A series of metalâ€“organic frameworks with high methane uptake and an empirical equation for predicting methane storage capacity. Energy and Environmental Science, 2013, 6, 2735.	30.8	193
89	Tunable titanium metalâ€“organic frameworks with infinite 1D Tiâ€“O rods for efficient visible-light-driven photocatalytic H₂ evolution. Journal of Materials Chemistry A, 2019, 7, 11928-11933.	10.3	192
90	A robust Th-azole framework for highly efficient purification of C2H4 from a C2H4/C2H2/C2H6 mixture. Nature Communications, 2020, 11, 3163.	12.8	192

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91	An Ultramicroporous Metalâ€“Organic Framework for High Sieving Separation of Propylene from Propane. Journal of the American Chemical Society, 2020, 142, 17795-17801.	13.7	186
92	Two-Photon Responsive Metalâ€“Organic Framework. Journal of the American Chemical Society, 2015, 137, 4026-4029.	13.7	185
93	Microporous Metalâ€“Organic Frameworks for Gas Separation. Chemistry - an Asian Journal, 2014, 9, 1474-1498.	3.3	183
94	Ultrahigh and Selective SO₂ Uptake in Inorganic Anionâ€Pillared Hybrid Porous Materials. Advanced Materials, 2017, 29, 1606929.	21.0	183
95	Selective Ethane/Ethylene Separation in a Robust Microporous Hydrogen-Bonded Organic Framework. Journal of the American Chemical Society, 2020, 142, 633-640.	13.7	183
96	Mixed-Metalâ€“Organic Framework with Effective Lewis Acidic Sites for Sulfur Confinement in High-Performance Lithiumâ€“Sulfur Batteries. ACS Applied Materials & Interfaces, 2015, 7, 20999-21004.	8.0	182
97	Fine Tuning and Specific Binding Sites with a Porous Hydrogen-Bonded Metal-Complex Framework for Gas Selective Separations. Journal of the American Chemical Society, 2018, 140, 4596-4603.	13.7	181
98	Postsynthetic Metalation of a Robust Hydrogen-Bonded Organic Framework for Heterogeneous Catalysis. Journal of the American Chemical Society, 2019, 141, 8737-8740.	13.7	178
99	Multifunctional lanthanide coordination polymers. Progress in Polymer Science, 2015, 48, 40-84.	24.7	176
100	Kinetic Separation of Hexane Isomers by Fixed-Bed Adsorption with a Microporous Metalâ^'Organic Framework. Journal of Physical Chemistry B, 2007, 111, 6101-6103.	2.6	173
101	Tuning Gateâ€Opening of a Flexible Metalâ€“Organic Framework for Ternary Gas Sieving Separation. Angewandte Chemie - International Edition, 2020, 59, 22756-22762.	13.8	173
102	Porous Cuâ^'Cd Mixed-Metalâ^'Organic Frameworks Constructed from Cu(Pyac)2{Bis[3-(4-pyridyl)pentane-2,4-dionato]copper(II)}. Inorganic Chemistry, 2004, 43, 8209-8211.	4.0	171
103	Polarized three-photon-pumped laser in a single MOF microcrystal. Nature Communications, 2016, 7, 11087.	12.8	165
104	A stable zirconium based metal-organic framework for specific recognition of representative polychlorinated dibenzo-p-dioxin molecules. Nature Communications, 2019, 10, 3861.	12.8	164
105	Microporous metalâ€“organic frameworks for acetylene storage and separation. CrystEngComm, 2011, 13, 5983.	2.6	163
106	Immobilization of Ag(<scp>i</scp>) into a metalâ€“organic framework with â€“SO₃H sites for highly selective olefinâ€“paraffin separation at room temperature. Chemical Communications, 2015, 51, 2859-2862.	4.1	160
107	Transformation of a Metalâ^'Organic Framework from the NbO to PtS Net. Inorganic Chemistry, 2005, 44, 181-183.	4.0	159
108	A microporous metalâ€“organic framework with both open metal and Lewis basic pyridyl sites for high C2H2 and CH4 storage at room temperature. Chemical Communications, 2013, 49, 6719.	4.1	158

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109	Achieving High Performance Metalâ€“Organic Framework Materials through Pore Engineering. Accounts of Chemical Research, 2021, 54, 3362-3376.	15.6	158
110	Fine pore engineering in a series of isoreticular metal-organic frameworks for efficient C2H2/CO2 separation. Nature Communications, 2022, 13, 200.	12.8	157
111	A porous metalâ€“organic framework with â€“COOH groups for highly efficient pollutant removal. Chemical Communications, 2014, 50, 14455-14458.	4.1	154
112	Optimizing Pore Space for Flexible-Robust Metalâ€“Organic Framework to Boost Trace Acetylene Removal. Journal of the American Chemical Society, 2020, 142, 9744-9751.	13.7	154
113	Solvent-dependent 44 square grid and 64.82 NbO frameworks formed by Cu(Pyac)2 (bis[3-(4-pyridyl)pentane-2,4-dionato]copper(ii))Electronic supplementary information (ESI) available: microanalyses of 1, 2, 6 and 10. See http://www.rsc.org/suppdata/cc/b3/b305457h/. Chemical Communications, 2003, , 2166.	4.1	153
114	Porous anatase TiO₂constructed from a metalâ€“organic framework for advanced lithium-ion battery anodes. Journal of Materials Chemistry A, 2014, 2, 12571.	10.3	153
115	Robust Metalâ”Organic Framework Enforced by Triple-Framework Interpenetration Exhibiting High H₂ Storage Density. Inorganic Chemistry, 2008, 47, 6825-6828.	4.0	148
116	A microporous metalâ€“organic framework with both open metal and Lewis basic pyridyl sites for highly selective C₂H₂/CH₄and C₂H₂/CO₂gas separation at room temperature. Journal of Materials Chemistry A, 2013, 1, 77-81.	10.3	148
117	Benchmark C₂H₂/CO₂Separation in an Ultraâ€Microporous Metalâ€“Organic Framework via Copper(I)â€Alkynyl Chemistry. Angewandte Chemie - International Edition, 2021, 60, 15995-16002.	13.8	148
118	A microporous six-fold interpenetrated hydrogen-bonded organic framework for highly selective separation of C₂H₄/C₂H₆. Chemical Communications, 2014, 50, 13081-13084.	4.1	147
119	A luminescent nanoscale metalâ€“organic framework with controllable morphologies for spore detection. Chemical Communications, 2012, 48, 7377.	4.1	146
120	High Separation Capacity and Selectivity of C₂ Hydrocarbons over Methane within a Microporous Metalâ€“Organic Framework at Room Temperature. Chemistry - A European Journal, 2012, 18, 1901-1904.	3.3	142
121	A DNAâ€Threaded ZIFâ€8 Membrane with High Proton Conductivity and Low Methanol Permeability. Advanced Materials, 2018, 30, 1705155.	21.0	142
122	A Fluorescent Metalâ€“Organic Framework for Food Realâ€Time Visual Monitoring. Advanced Materials, 2021, 33, e2008020.	21.0	139
123	Design and applications of water-stable metal-organic frameworks: status and challenges. Coordination Chemistry Reviews, 2020, 423, 213507.	18.8	138
124	A New Approach to Construct a Doubly Interpenetrated Microporous Metalâ€“Organic Framework of Primitive Cubic Net for Highly Selective Sorption of Small Hydrocarbon Molecules. Chemistry - A European Journal, 2011, 17, 7817-7822.	3.3	137
125	Highly selective sieving of small gas molecules by using an ultra-microporous metalâ€“organic framework membrane. Energy and Environmental Science, 2014, 7, 4053-4060.	30.8	135
126	A microporous lanthanide-tricarboxylate framework with the potential for purification of natural gas. Chemical Communications, 2012, 48, 10856.	4.1	134

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127	A Singleâ€Molecule Propyne Trap: Highly Efficient Removal of Propyne from Propylene with Anionâ€Pillared Ultramicroporous Materials. Advanced Materials, 2018, 30, 1705374.	21.0	133
128	A Microporous Hydrogenâ€Bonded Organic Framework for the Efficient Capture and Purification of Propylene. Angewandte Chemie - International Edition, 2021, 60, 20400-20406.	13.8	132
129	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, 7241-7244.	4.1	131
130	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, 144, 2614-2623.	13.7	127
131	Porous metalâ€“organic frameworks with Lewis basic nitrogen sites for high-capacity methane storage. Energy and Environmental Science, 2015, 8, 2504-2511.	30.8	126
132	Our journey of developing multifunctional metal-organic frameworks. Coordination Chemistry Reviews, 2019, 384, 21-36.	18.8	126
133	A Metalâ€“Organic Framework with Open Metal Sites for Enhanced Confinement of Sulfur and Lithiumâ€“Sulfur Battery of Long Cycling Life. Crystal Growth and Design, 2013, 13, 5116-5120.	3.0	124
134	A Microporous Metalâ€“Organic Framework with Lewis Basic Nitrogen Sites for High C₂H₂ Storage and Significantly Enhanced C₂H₂/CO₂ Separation at Ambient Conditions. Inorganic Chemistry, 2016, 55, 7214-7218.	4.0	124
135	A Metalâ€“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.	13.8	124
136	A metalâ€“organic framework with suitable pore size and dual functionalities for highly efficient post-combustion CO₂ capture. Journal of Materials Chemistry A, 2019, 7, 3128-3134.	10.3	124
137	Confinement of Perovskiteâ€QDs within a Single MOF Crystal for Significantly Enhanced Multiphoton Excited Luminescence. Advanced Materials, 2019, 31, e1806897.	21.0	124
138	Metalâ€“Organic Frameworks for Photo/Electrocatalysis. Advanced Energy and Sustainability Research, 2021, 2, 2100033.	5.8	123
139	Selective Gas Sorption within a Dynamic Metal-Organic Framework. Inorganic Chemistry, 2007, 46, 8705-8709.	4.0	122
140	Microporous Diaminotriazine-Decorated Porphyrin-Based Hydrogen-Bonded Organic Framework: Permanent Porosity and Proton Conduction. Crystal Growth and Design, 2016, 16, 5831-5835.	3.0	120
141	UiO-66-Coated Mesh Membrane with Underwater Superoleophobicity for High-Efficiency Oilâ€“Water Separation. ACS Applied Materials & Interfaces, 2018, 10, 17301-17308.	8.0	120
142	Fine Tuning of MOFâ€505 Analogues To Reduce Lowâ€Pressure Methane Uptake and Enhance Methane Working Capacity. Angewandte Chemie - International Edition, 2017, 56, 11426-11430.	13.8	119
143	A photoluminescent microporous metal organic anionic framework for nitroaromatic explosive sensing. Journal of Materials Chemistry A, 2013, 1, 4525.	10.3	118
144	Optimization of the Pore Structures of MOFs for Record High Hydrogen Volumetric Working Capacity. Advanced Materials, 2020, 32, e1907995.	21.0	118

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145	Dense Packing of Acetylene in a Stable and Lowâ€Cost Metalâ€“Organic Framework for Efficient C₂H₂/CO₂Separation. Angewandte Chemie - International Edition, 2021, 60, 25068-25074.	13.8	116
146	Three-Dimensional Pillar-Layered Copper(II) Metalâ˜Organic Framework with Immobilized Functional OH Groups on Pore Surfaces for Highly Selective CO₂/CH₄ and C₂H₂/CH₄ Gas Sorption at Room Temperature. Inorganic Chemistry, 2011, 50, 3442-3446.	4.0	115
147	A Microporous Porphyrin-Based Hydrogen-Bonded Organic Framework for Gas Separation. Crystal Growth and Design, 2015, 15, 2000-2004.	3.0	115
148	A Robust Mixedâ€Lanthanide PolyMOF Membrane for Ratiometric Temperature Sensing. Angewandte Chemie - International Edition, 2020, 59, 21752-21757.	13.8	115
149	Extraordinary Separation of Acetyleneâ€Containing Mixtures with Microporous Metalâ€“Organic Frameworks with Open O Donor Sites and Tunable Robustness through Control of the Helical Chain Secondary Building Units. Chemistry - A European Journal, 2016, 22, 5676-5683.	3.3	113
150	A luminescent cerium metalâ€“organic framework for the turn-on sensing of ascorbic acid. Chemical Communications, 2017, 53, 11221-11224.	4.1	111
151	Construction of Hierarchical Metalâ€“Organic Frameworks by Competitive Coordination Strategy for Highly Efficient CO₂ Conversion. Advanced Materials, 2019, 31, e1904969.	21.0	111
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153	Kinetic separation of propylene over propane in a microporous metal-organic framework. Chemical Engineering Journal, 2018, 354, 977-982.	12.7	108
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