

# Gas/vapour separation using ultra-microporous metal-organic frameworks: the structure/separation relationship

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Straightforward Loading of Imidazole Molecules into Metal-Organic Framework for High Proton Conduction. <i>Journal of the American Chemical Society</i> , 2017, 139, 15604-15607.	6.6	290
2	CO <sub>2</sub> Capture Using the SIFSIX-2-Cu-i Metal-Organic Framework: A Computational Approach. <i>Journal of Physical Chemistry C</i> , 2017, 121, 27462-27472.	1.5	14
3	A microporous MOF with open metal sites and Lewis basic sites for selective CO <sub>2</sub> capture. <i>Dalton Transactions</i> , 2017, 46, 14102-14106.	1.6	47
4	Facile and Mild Synthesis of Metal-Formate Frameworks for Methane Adsorptive Separation. <i>Chemistry Letters</i> , 2017, 46, 1766-1768.	0.7	2
5	Sorting of C <sub>4</sub> Olefins with Interpenetrated Hybrid Ultramicroporous Materials by Combining Molecular Recognition and Size Sieving. <i>Angewandte Chemie</i> , 2017, 129, 16500-16505.	1.6	41
6	Sorting of C <sub>4</sub> Olefins with Interpenetrated Hybrid Ultramicroporous Materials by Combining Molecular Recognition and Size Sieving. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 16282-16287.	7.2	146
7	The MOF <sup>+</sup> Technique: A Significant Synergic Effect Enables High Performance Chromate Removal. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 16376-16379.	7.2	102
8	Zinc(II) and Copper(II) Hybrid Frameworks via Metal-Ion Metathesis with Enhanced Gas Uptake and Photoluminescence Properties. <i>Inorganic Chemistry</i> , 2017, 56, 14157-14163.	1.9	33
9	Metal-Organic Framework-Templated PdO-Co <sub>3</sub> O <sub>4</sub> Nanocubes Functionalized by SWCNTs: Improved NO <sub>2</sub> Reaction Kinetics on Flexible Heating Film. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 40593-40603.	4.0	55
10	Metal-Organic Frameworks with Internal Urea-Functionalized Dicarboxylate Linkers for SO <sub>2</sub> and NH <sub>3</sub> Adsorption. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 37419-37434.	4.0	130
11	Improving Water-Treatment Performance of Zirconium Metal-Organic Framework Membranes by Postsynthetic Defect Healing. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 37848-37855.	4.0	77
12	A Fine-Tuned MOF for Gas and Vapor Separation: A Multipurpose Adsorbent for Acid Gas Removal, Dehydration, and BTX Sieving. <i>Chem</i> , 2017, 3, 822-833.	5.8	83
13	Valuing Metal-Organic Frameworks for Postcombustion Carbon Capture: A Benchmark Study for Evaluating Physical Adsorbents. <i>Advanced Materials</i> , 2017, 29, 1702953.	11.1	88
14	N <sub>2</sub> Capture Performances of the Hybrid Porous MIL-101(Cr): From Prediction toward Experimental Testing. <i>Journal of Physical Chemistry C</i> , 2017, 121, 22130-22138.	1.5	21
15	Two Analogous Polyhedron-Based MOFs with High Density of Lewis Basic Sites and Open Metal Sites: Significant CO <sub>2</sub> Capture and Gas Selectivity Performance. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 32820-32828.	4.0	57
16	A thiophene-containing covalent triazine-based framework with ultramicropore for CO <sub>2</sub> capture. <i>Journal of Energy Chemistry</i> , 2017, 26, 902-908.	7.1	32
17	Porous crystalline materials: closing remarks. <i>Faraday Discussions</i> , 2017, 201, 395-404.	1.6	11
18	A family of ssa-type copper-based MOFs constructed from unsymmetrical diisophthalates: synthesis, characterization and selective gas adsorption. <i>Materials Chemistry Frontiers</i> , 2017, 1, 2283-2291.	3.2	34

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19	An Ideal Molecular Sieve for Acetylene Removal from Ethylene with Record Selectivity and Productivity. <i>Advanced Materials</i> , 2017, 29, 1704210.	11.1	310
20	Gas Adsorption and Separation by the Al-Based Metal-Organic Framework MIL-160. <i>Journal of Physical Chemistry C</i> , 2017, 121, 26822-26832.	1.5	51
21	The MOF <sup>+</sup> Technique: A Significant Synergic Effect Enables High Performance Chromate Removal. <i>Angewandte Chemie</i> , 2017, 129, 16594-16597.	1.6	12
22	Revisiting the Aluminum Trimesate-Based MOF (MIL-96): From Structure Determination to the Processing of Mixed Matrix Membranes for CO <sub>2</sub> Capture. <i>Chemistry of Materials</i> , 2017, 29, 10326-10338.	3.2	78
23	Enabling Widespread Use of Microporous Materials for Challenging Organic Solvent Separations. <i>Chemistry of Materials</i> , 2017, 29, 9863-9876.	3.2	50
24	Adsorption of 1-Propanol in the Channel-Like InOF-1 Metal-Organic Framework and Its Influence on the CO <sub>2</sub> Capture Performances. <i>Journal of Physical Chemistry C</i> , 2018, 122, 5566-5577.	1.5	16
25	A novel polyhedron-based metal-organic framework with high performance for gas uptake and light hydrocarbon separation. <i>Dalton Transactions</i> , 2018, 47, 5005-5010.	1.6	17
26	Porous Zr <sub>6</sub> L <sub>3</sub> Metallocage with Synergetic Binding Centers for CO <sub>2</sub> . <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 8685-8691.	4.0	38
27	Recent Developments in 2D Nanomaterials for Chemiresistive-Type Gas Sensors. <i>Electronic Materials Letters</i> , 2018, 14, 221-260.	1.0	197
28	A facile modular approach to the 2D oriented assembly MOF electrode for non-enzymatic sweat biosensors. <i>Nanoscale</i> , 2018, 10, 6629-6638.	2.8	73
29	Combined Experimental and Computational Study on Catalytic Cyclocoupling of Epoxides and CO <sub>2</sub> Using Porphyrin-Based Cu(II) Metal-Organic Frameworks with 2D Coordination Networks. <i>Bulletin of the Chemical Society of Japan</i> , 2018, 91, 383-390.	2.0	5
30	Benchmark Study of Hydrogen Storage in Metal-Organic Frameworks under Temperature and Pressure Swing Conditions. <i>ACS Energy Letters</i> , 2018, 3, 748-754.	8.8	147
31	Site-Directed Synthesis of Cobalt Oxide Clusters in a Metal-Organic Framework. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 15073-15078.	4.0	44
32	Controlling Pore Shape and Size of Interpenetrated Anion-Pillared Ultramicroporous Materials Enables Molecular Sieving of CO <sub>2</sub> Combined with Ultrahigh Uptake Capacity. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 16628-16635.	4.0	78
33	Controlled flexibility of porous coordination polymers by shifting the position of the -CH <sub>3</sub> group around coordination sites and their highly efficient gas separation. <i>Inorganic Chemistry Frontiers</i> , 2018, 5, 1780-1786.	3.0	23
34	Three isorecticular MOFs derived from nitrogen-functionalized diisophthalate ligands: exploring the positional effect of nitrogen functional sites on the structural stabilities and selective C <sub>2</sub> H <sub>2</sub> /CH <sub>4</sub> and CO <sub>2</sub> /CH <sub>4</sub> adsorption properties. <i>Inorganic Chemistry Frontiers</i> , 2018, 5, 1423-1431.	3.0	28
35	Preferential Adsorption of CO <sub>2</sub> in an Ultramicroporous MOF with Cavities Lined by Basic Groups and Open-Metal Sites. <i>Inorganic Chemistry</i> , 2018, 57, 5267-5272.	1.9	57
36	A size-matched POM@MOF composite catalyst for highly efficient and recyclable ultra-deep oxidative fuel desulfurization. <i>Inorganic Chemistry Frontiers</i> , 2018, 5, 1563-1569.	3.0	88

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37	Efficient separation of C <sub>2</sub> H <sub>2</sub> from C <sub>2</sub> H <sub>2</sub> /CO <sub>2</sub> mixtures in an acid-base resistant metal-organic framework. <i>Chemical Communications</i> , 2018, 54, 4846-4849.	2.2	62
38	A Chemical Role for Trichloromethane: Room-Temperature Removal of Coordinated Solvents from Open Metal Sites in the Copper-Based Metal-Organic Frameworks. <i>Inorganic Chemistry</i> , 2018, 57, 5225-5231.	1.9	33
39	Made in Water: A Stable Microporous Cu(I)-carboxylate Framework (CityU-7) for CO <sub>2</sub> , Water, and Iodine Uptake. <i>Inorganic Chemistry</i> , 2018, 57, 4807-4811.	1.9	18
40	Bottom-Up Fabrication of Ultrathin 2D Zr Metal-Organic Framework Nanosheets through a Facile Continuous Microdroplet Flow Reaction. <i>Chemistry of Materials</i> , 2018, 30, 3048-3059.	3.2	85
41	An alkaline-resistant Ag( <i>vi</i> )-anchored pyrazolate-based metal-organic framework for chemical fixation of CO <sub>2</sub> . <i>Chemical Communications</i> , 2018, 54, 4469-4472.	2.2	48
42	Ultrathin reduced graphene oxide/MOF nanofiltration membrane with improved purification performance at low pressure. <i>Chemosphere</i> , 2018, 204, 378-389.	4.2	94
43	Fabrication of ultrathin MIL-96(Al) films and study of CO <sub>2</sub> adsorption/desorption processes using quartz crystal microbalance. <i>Journal of Colloid and Interface Science</i> , 2018, 519, 88-96.	5.0	30
44	Two novel magnesium-based metal-organic frameworks: Structure tuning from 2D to 3D by introducing the auxiliary ligand of acetate. <i>Inorganica Chimica Acta</i> , 2018, 477, 59-65.	1.2	2
45	Influence of synthetic conditions on the formation of thermally and hydrolytically stable Sc-based metal-organic frameworks. <i>Polyhedron</i> , 2018, 144, 219-224.	1.0	17
46	Mixed matrix formulations with MOF molecular sieving for key energy-intensive separations. <i>Nature Materials</i> , 2018, 17, 283-289.	13.3	449
47	Neutral ligand TIPA-based two 2D metal-organic frameworks: ultrahigh selectivity of C <sub>2</sub> H <sub>2</sub> /CH <sub>4</sub> and efficient sensing and sorption of Cr( <i>vi</i> ). <i>Dalton Transactions</i> , 2018, 47, 3725-3732.	1.6	99
48	Rational construction of an <i>ssa</i> -type of MOF through pre-organizing the ligand's conformation and its exceptional gas adsorption properties. <i>Dalton Transactions</i> , 2018, 47, 2444-2452.	1.6	31
49	Titanium-based metal-organic frameworks for photocatalytic applications. <i>Coordination Chemistry Reviews</i> , 2018, 359, 80-101.	9.5	246
50	Effect of Defects on the Mechanical Deformation Mechanisms of Metal-Organic Framework-5: A Molecular Dynamics Investigation. <i>Journal of Physical Chemistry C</i> , 2018, 122, 4300-4306.	1.5	13
51	Iridium(III)-Based Metal-Organic Frameworks as Multiresponsive Luminescent Sensors for Fe <sup>3+</sup> , Cr <sub>2</sub> O <sub>7</sub> <sup>2-</sup> , and ATP in Aqueous Media. <i>Inorganic Chemistry</i> , 2018, 57, 1079-1089.	1.9	104
52	Liquid-free single-crystal to single-crystal transformations in coordination polymers. <i>Inorganic Chemistry Frontiers</i> , 2018, 5, 279-300.	3.0	49
53	A multi-dye@MOF composite boosts highly efficient photodegradation of an ultra-stubborn dye reactive blue 21 under visible-light irradiation. <i>Journal of Materials Chemistry A</i> , 2018, 6, 2148-2156.	5.2	40
54	Diffusion Control in the in Situ Synthesis of Iconic Metal-Organic Frameworks within an Ionic Polymer Matrix. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 3793-3800.	4.0	30

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55	A metal-organic framework based on a custom-designed diisophthalate ligand exhibiting excellent hydrostability and highly selective adsorption of C <sub>2</sub> H <sub>2</sub> and CO <sub>2</sub> over CH <sub>4</sub> . Dalton Transactions, 2018, 47, 7213-7221.	1.6	26
56	Efficient adsorption separation of xylene isomers using a facilely fabricated cyclodextrin-based metal-organic framework. Journal of Chemical Technology and Biotechnology, 2018, 93, 2898-2905.	1.6	25
57	Enhanced gas separation performance of 6FDA-DAM based mixed matrix membranes by incorporating MOF UiO-66 and its derivatives. Journal of Membrane Science, 2018, 558, 64-77.	4.1	126
58	Potential of metal-organic frameworks for adsorptive separation of industrially and environmentally relevant liquid mixtures. Coordination Chemistry Reviews, 2018, 367, 82-126.	9.5	105
59	Metal coordination and metal activation abilities of commonly unreactive chloromethanes toward metal-organic frameworks. Chemical Communications, 2018, 54, 6458-6471.	2.2	42
60	A water stable microporous metal-organic framework based on rod SBUs: synthesis, structure and adsorption properties. CrystEngComm, 2018, 20, 2169-2174.	1.3	8
61	Designing bipyridine-functionalized zirconium metal-organic frameworks as a platform for clean energy and other emerging applications. Coordination Chemistry Reviews, 2018, 364, 33-50.	9.5	105
62	Beyond Crystal Engineering: Significant Enhancement of C <sub>2</sub> H <sub>2</sub> /CO <sub>2</sub> Separation by Constructing Composite Material. Inorganic Chemistry, 2018, 57, 3679-3682.	1.9	35
63	Applications of metal-organic frameworks for green energy and environment: New advances in adsorptive gas separation, storage and removal. Green Energy and Environment, 2018, 3, 191-228.	4.7	158
64	A Flexible Fluorescent SCC-MOF for Switchable Molecule Identification and Temperature Display. Chemistry of Materials, 2018, 30, 2160-2167.	3.2	138
65	Highly Adsorptive Separation of Ethane/Ethylene by An Ethane-Selective MOF MIL-142A. Industrial & Engineering Chemistry Research, 2018, 57, 4063-4069.	1.8	88
66	Fine-tuning of nano-traps in a stable metal-organic framework for highly efficient removal of propyne from propylene. Journal of Materials Chemistry A, 2018, 6, 6931-6937.	5.2	74
67	Porous metal-organic frameworks for fuel storage. Coordination Chemistry Reviews, 2018, 373, 167-198.	9.5	211
68	Urea-based flexible dicarboxylate linkers for three-dimensional metal-organic frameworks. Inorganica Chimica Acta, 2018, 475, 35-46.	1.2	8
69	Heteropoly acid-loaded ionic liquid@metal-organic frameworks: Effective and reusable adsorbents for the desulfurization of a liquid model fuel. Chemical Engineering Journal, 2018, 334, 2215-2221.	6.6	92
70	Adsorptive removal of aromatic hydrocarbons from water over metal azolate framework-6-derived carbons. Journal of Hazardous Materials, 2018, 344, 1069-1077.	6.5	62
71	A pair of polymorphous metal-organic frameworks based on an angular diisophthalate linker: synthesis, characterization and gas adsorption properties. Dalton Transactions, 2018, 47, 716-725.	1.6	23
72	A highly stable indium based metal organic framework for efficient arsenic removal from water. Dalton Transactions, 2018, 47, 799-806.	1.6	69

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73	Two New Nickel, Cobalt Coordination Polymers Based on Flexible 1,3-bis((1H-imidazolyl)-methyl)benzene Ligand: Syntheses, Structures and Magnetic Properties. Journal of Inorganic and Organometallic Polymers and Materials, 2018, 28, 820-828.	1.9	3
74	Stabilizing a Vanadium Oxide Catalyst by Supporting on a Metal-Organic Framework. ChemCatChem, 2018, 10, 1772-1777.	1.8	21

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91	Polyaniline-Encapsulated Metal-Organic Framework MIL-101: Adsorbent with Record-High Adsorption Capacity for the Removal of Both Basic Quinoline and Neutral Indole from Liquid Fuel. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 35639-35646.	4.0	50
92	Pd@Zn-MOF-74: Restricting a Guest Molecule by the Open-Metal Site in a Metal-Organic Framework for Selective Semihydrogenation. <i>Inorganic Chemistry</i> , 2018, 57, 12444-12447.	1.9	26
93	Covalent Organic Frameworks: Promising Materials as Heterogeneous Catalysts for C-C Bond Formations. <i>Catalysts</i> , 2018, 8, 404.	1.6	38
94	Nitrogen-Doped Microporous Carbons Derived from Pyridine Ligand-Based Metal-Organic Complexes as High-Performance SO <sub>2</sub> Adsorption Sorbents. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 37407-37416.	4.0	31
95	Enzyme Encapsulation in Mesoporous Metal-Organic Frameworks for Selective Biodegradation of Harmful Dye Molecules. <i>Angewandte Chemie</i> , 2018, 130, 16373-16378.	1.6	28
96	Enzyme Encapsulation in Mesoporous Metal-Organic Frameworks for Selective Biodegradation of Harmful Dye Molecules. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 16141-16146.	7.2	128
97	Surface Morphology and Electrical Properties of Cu <sub>3</sub> BTC <sub>2</sub> Thin Films Before and After Reaction with TCNQ. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 39400-39410.	4.0	30
98	Molecular sieving of ethylene from ethane using a rigid metal-organic framework. <i>Nature Materials</i> , 2018, 17, 1128-1133.	13.3	532
99	On the Efficient Separation of Gas Mixtures with the Mixed-Linker Zeolitic-Imidazolate Framework-7-8. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 39631-39644.	4.0	32
100	Tailor-Made Microporous Metal-Organic Frameworks for the Full Separation of Propane from Propylene Through Selective Size Exclusion. <i>Advanced Materials</i> , 2018, 30, e1805088.	11.1	241
101	Releasing Metal-Coordination Capacity of Cucurbit[6]uril Macrocycle in Pseudorotaxane Ligands for the Construction of Interwoven Uranyl-Rotaxane Coordination Polymers. <i>Inorganic Chemistry</i> , 2018, 57, 13513-13523.	1.9	29
102	TiO <sub>2</sub> Nanoparticles Anchored onto the Metal-Organic Framework NH <sub>2</sub> -MIL-88B(Fe) as an Adsorptive Photocatalyst with Enhanced Fenton-like Degradation of Organic Pollutants under Visible Light Irradiation. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 16186-16197.	3.2	133
103	Polyaniline-loaded metal-organic framework MIL-101(Cr): Promising adsorbent for CO <sub>2</sub> capture with increased capacity and selectivity by polyaniline introduction. <i>Journal of CO<sub>2</sub> Utilization</i> , 2018, 28, 319-325.	3.3	47
104	Bringing Porous Organic and Carbon-Based Materials toward Thin-Film Applications. <i>Advanced Functional Materials</i> , 2018, 28, 1801545.	7.8	53
105	Direct Evidence: Enhanced C <sub>2</sub> H <sub>6</sub> and C <sub>2</sub> H <sub>4</sub> Adsorption and Separation Performances by Introducing Open Nitrogen-Donor Sites in a MOF. <i>Inorganic Chemistry</i> , 2018, 57, 12417-12423.	1.9	34
106	Combining Linker Design and Linker-Exchange Strategies for the Synthesis of a Stable Large-Pore Zr-Based Metal-Organic Framework. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 35462-35468.	4.0	20
107	Achieving Superprotonic Conduction with a 2D Fluorinated Metal-Organic Framework. <i>Journal of the American Chemical Society</i> , 2018, 140, 13156-13160.	6.6	103
108	Enabling Fluorinated MOF-Based Membranes for Simultaneous Removal of H <sub>2</sub> S and CO <sub>2</sub> from Natural Gas. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 14811-14816.	7.2	176



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109	Enabling Fluorinated MOF-Based Membranes for Simultaneous Removal of H <sub>2</sub> S and CO <sub>2</sub> from Natural Gas. <i>Angewandte Chemie</i> , 2018, 130, 15027-15032.	1.6	17
110	Probing mesoporous Zr-MOF as drug delivery system for carboxylate functionalized molecules. <i>Polyhedron</i> , 2018, 156, 131-137.	1.0	29
111	Fabrication of Tris(bipyridine)ruthenium(II)-Functionalized Metal-Organic Framework Thin Films by Electrochemically Assisted Self-Assembly Technique for Electrochemiluminescent Immunoassay. <i>Analytical Chemistry</i> , 2018, 90, 11622-11628.	3.2	77
112	Merohedral icosahedral M <sub>48</sub> (M = Co, Ni) cage clusters supported by thiacalix[4]arene. <i>Chemical Science</i> , 2018, 9, 8535-8541.	3.7	60
113	Boosting Ethane/Ethylene Separation within Isoreticular Ultramicroporous Metal-Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2018, 140, 12940-12946.	6.6	309
114	Incorporating the Thiazolo[5,4-d]thiazole Unit into a Coordination Polymer with Interdigitated Structure. <i>Crystals</i> , 2018, 8, 30.	1.0	19
115	Nanometer-scaled iridium particles gas-phase-loaded into the pores of the metal-organic framework MIL-101. <i>Polyhedron</i> , 2018, 155, 441-446.	1.0	7
116	Ultrathin two-dimensional metal-organic framework nanosheets for functional electronic devices. <i>Coordination Chemistry Reviews</i> , 2018, 377, 44-63.	9.5	182
117	Tunable Metal-Organic Frameworks for Heat Transformation Applications. <i>Nanomaterials</i> , 2018, 8, 661.	1.9	32
118	The use of metal-organic frameworks for CO purification. <i>Journal of Materials Chemistry A</i> , 2018, 6, 10570-10594.	5.2	60
119	Stabilizing volatile azido in a 3D nitrogen-rich energetic metal-organic framework with excellent energetic performance. <i>Journal of Solid State Chemistry</i> , 2018, 265, 42-49.	1.4	18
120	Hexafluorogermanate (GeFSIX) Anion-Functionalized Hybrid Ultramicroporous Materials for Efficiently Trapping Acetylene from Ethylene. <i>Industrial &amp; Engineering Chemistry Research</i> , 2018, 57, 7266-7274.	1.8	70
121	A nanosized metal-organic framework with small pores for kinetic xenon separation. <i>Journal of Materials Chemistry A</i> , 2018, 6, 11797-11803.	5.2	30
122	Paraffinic metal-organic polyhedrons: solution-processable porous modules exhibiting three-dimensional molecular order. <i>Chemical Communications</i> , 2018, 54, 7290-7293.	2.2	19
123	Peptide metal-organic frameworks under pressure: flexible linkers for cooperative compression. <i>Dalton Transactions</i> , 2018, 47, 10654-10659.	1.6	45
124	Topology meets MOF chemistry for pore-aperture fine tuning: <i>b</i> -MOF platform for energy-efficient separations via adsorption kinetics or molecular sieving. <i>Chemical Communications</i> , 2018, 54, 6404-6407.	2.2	65
125	Lower Activation Energy for Catalytic Reactions through Host-Guest Cooperation within Metal-Organic Frameworks. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 10107-10111.	7.2	166
126	Lower Activation Energy for Catalytic Reactions through Host-Guest Cooperation within Metal-Organic Frameworks. <i>Angewandte Chemie</i> , 2018, 130, 10264-10268.	1.6	33



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127	Peculiar Molecular Shape and Size Dependence of the Dynamics of Fluids Confined in a Small-Pore Metal-Organic Framework. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 3014-3020.	2.1	8
128	Robust Ultramicroporous Metal-Organic Frameworks with Benchmark Affinity for Acetylene. <i>Angewandte Chemie</i> , 2018, 130, 11137-11141.	1.6	85
129	Metal-Organic Frameworks for Separation. <i>Advanced Materials</i> , 2018, 30, e1705189.	11.1	835
130	Flexible porous molecular materials responsive to CO <sub>2</sub> , CH <sub>4</sub> and Xe stimuli. <i>Journal of Materials Chemistry A</i> , 2018, 6, 14231-14239.	5.2	87
131	Robust Ultramicroporous Metal-Organic Frameworks with Benchmark Affinity for Acetylene. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 10971-10975.	7.2	365
132	Towards white-light emission by Tb <sup>3+</sup> /Eu <sup>3+</sup> substitution in a Ca <sup>2+</sup> framework. <i>Polyhedron</i> , 2018, 153, 24-30.	1.0	9
133	Solvent-induced framework-interpenetration isomers of Cu MOFs for efficient light hydrocarbon separation. <i>Inorganic Chemistry Frontiers</i> , 2018, 5, 2408-2412.	3.0	27
134	Microwave-assisted dry-gel conversion-a new sustainable route for the rapid synthesis of metal-organic frameworks with solvent re-use. <i>Dalton Transactions</i> , 2018, 47, 9850-9860.	1.6	43
135	Upgrading gasoline to high octane numbers using a zeolite-like metal-organic framework molecular sieve with <i>ana</i> -topology. <i>Chemical Communications</i> , 2018, 54, 9414-9417.	2.2	23
136	Two anthracene-based metal-organic frameworks for highly effective photodegradation and luminescent detection in water. <i>Journal of Materials Chemistry A</i> , 2018, 6, 17177-17185.	5.2	95
137	Beyond pristine metal-organic frameworks: Preparation and application of nanostructured, nanosized, and analogous MOFs. <i>Coordination Chemistry Reviews</i> , 2018, 376, 20-45.	9.5	121
138	A New Heterometallic Cu <sup>II</sup> -La <sup>III</sup> Metal-Organic Framework: Crystal Structure, Adsorption of Light Hydrocarbons and Anti-gastric Cancer Activity. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2018, 644, 1618-1622.	0.6	3
139	A thermostable anion-pillared metal-organic framework for C <sub>2</sub> H <sub>2</sub> /C <sub>2</sub> H <sub>4</sub> and C <sub>2</sub> H <sub>2</sub> /CO <sub>2</sub> separations. <i>Chemical Engineering Journal</i> , 2018, 352, 803-810.	6.6	85
140	Construction of metal-organic frameworks (MOFs) and highly luminescent Eu(III)-MOF for the detection of inorganic ions and antibiotics in aqueous medium. <i>CrystEngComm</i> , 2018, 20, 4962-4972.	1.3	90
141	An Ultramicroporous Nickel-Based Metal-Organic Framework for Adsorption Separation of CO <sub>2</sub> over N <sub>2</sub> or CH <sub>4</sub> . <i>Energy &amp; Fuels</i> , 2018, 32, 8676-8682.	2.5	23
142	Expandable porous organic frameworks with built-in amino and hydroxyl functions for CO <sub>2</sub> and CH <sub>4</sub> capture. <i>Chemical Communications</i> , 2018, 54, 9321-9324.	2.2	26
143	Green applications of metal-organic frameworks. <i>CrystEngComm</i> , 2018, 20, 5899-5912.	1.3	54
144	Carbonization of covalent triazine-based frameworks <i>via</i> ionic liquid induction. <i>Journal of Materials Chemistry A</i> , 2018, 6, 15564-15568.	5.2	13

#	ARTICLE	IF	CITATIONS
145	Eine Calixarenen-basierte Metallorganische Gerüstverbindung für den hoch selektiven NO <sub>2</sub> -Nachweis. <i>Angewandte Chemie</i> , 2018, 130, 13143-13147.	1.6	9
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