Banglin Chen

List of Publications by Year
in descending order

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399 papers	76,176 citations	599 128 h-index	597 267 g-index
425 all docs	425 docs citations	425 times ranked	32299 citing authors

#	Article	IF	Citations
1	Maximizing Electroactive Sites in a Threeâ€Dimensional Covalent Organic Framework for Significantly Improved Carbon Dioxide Reduction Electrocatalysis. Angewandte Chemie - International Edition, 2022, 61, .	7.2	83
2	Efficient Separation of Propylene from Propane in an Ultramicroporous Cyanideâ€Based Compound with Open Metal Sites. Small Structures, 2022, 3, 2100125.	6.9	17
3	Old Materials for New Functions: Recent Progress on Metal Cyanide Based Porous Materials. Advanced Science, 2022, 9, e2104234.	5.6	24
4	An Adaptive Hydrogenâ€Bonded Organic Framework for the Exclusive Recognition of pâ€Xylene. Chemistry - A European Journal, 2022, 28, .	1.7	27
5	Collaborative pore partition and pore surface fluorination within a metalâ€“organic framework for high-performance C2H2/CO2 separation. Chemical Engineering Journal, 2022, 432, 134433.	6.6	39
6	Maximizing acetylene packing density for highly efficient C2H2/CO2 separation through immobilization of amine sites within a prototype MOF. Chemical Engineering Journal, 2022, 431, 134184.	6.6	49
7	Fine pore engineering in a series of isoreticular metal-organic frameworks for efficient C2H2/CO2 separation. Nature Communications, 2022, 13, 200.	5.8	157
8	Recent progress on porous MOFs for process-efficient hydrocarbon separation, luminescent sensing, and information encryption. Chemical Communications, 2022, 58, 747-770.	2.2	81
9	Solvent-Mediated Synthesis of Hierarchical MOFs and Derived Urchin-Like Pd@SC/HfO₂ with High Catalytic Activity and Stability. ACS Applied Materials & Interfaces, 2022, 14, 5887-5896.	4.0	12
10	Expanding dynamic framework materials into COFs through HOF approach. CheM, 2022, 8, 7-9.	5.8	2
11	Emerging microporous HOF materials to address global energy challenges. Joule, 2022, 6, 22-27.	11.7	43
12	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.	6.6	127
13	Robust and Radiation-Resistant Hofmann-Type Metalâ€“Organic Frameworks for Record Xenon/Krypton Separation. Journal of the American Chemical Society, 2022, 144, 3200-3209.	6.6	71
14	Creating Optimal Pockets in a Clathrochelate-Based Metalâ€“Organic Framework for Gas Adsorption and Separation: Experimental and Computational Studies. Journal of the American Chemical Society, 2022, 144, 3737-3745.	6.6	85
15	Identifying the Gate-Opening Mechanism in the Flexible Metalâ€“Organic Framework UTSA-300. Inorganic Chemistry, 2022, 61, 5025-5032.	1.9	9
16	A peroxide-based conjugated triazine framework as a luminescent probe for p-nitroaniline and Fe3+ detection. Polymer, 2022, 246, 124752.	1.8	0
17	Kâ€Chabazite Zeolite Nanocrystal Aggregates for Highly Efficient Methane Separation. Angewandte Chemie - International Edition, 2022, 61, e202116850.	7.2	12
18	Kâ€Chabazite Zeolite Nanocrystal Aggregates for Highly Efficient Methane Separation. Angewandte Chemie, 2022, 134, .	1.6	9

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19	A Microporous Hydrogen-Bonded Organic Framework for Efficient Xe/Kr Separation. ACS Applied Materials & Interfaces, 2022, 14, 19623-19628.	4.0	44
20	Robust Mesoporous Functional Hydrogen-Bonded Organic Framework for Hypochlorite Detection. ACS Applied Materials & Interfaces, 2022, 14, 21098-21105.	4.0	34
21	Solvent-Dependent Self-Assembly of Hydrogen-Bonded Organic Porphyrinic Frameworks. Crystal Growth and Design, 2022, 22, 3808-3814.	1.4	5
22	How Reproducible are Surface Areas Calculated from the BET Equation?. Advanced Materials, 2022, 34, .	11.1	82
23	An ultramicroporous metalâ€“organic framework with dual functionalities for high sieving separation of CO2 from CH4 and N2. Chemical Engineering Journal, 2022, 446, 137101.	6.6	19
24	An Ultramicroporous Hydrogenâ€Bonded Organic Framework Exhibiting High C₂H₂/CO₂Separation. Angewandte Chemie - International Edition, 2022, 61, .	7.2	48
25	A microporous aluminum-based metal-organic framework for high methane, hydrogen, and carbon dioxide storage. Nano Research, 2021, 14, 507-511.	5.8	57
26	Confined Thermolysis for Oriented Nâ€Doped Carbon Supported Pd toward Stable Catalytic and Energy Storage Applications. Small, 2021, 17, e2002811.	5.2	12
27	Highly Specific Coordination-Driven Self-Assembly of 2D Heterometallic Metalâ€“Organic Frameworks with Unprecedented Johnson-type (J₅₁) Nonanuclear Zr-Oxocarboxylate Clusters. Journal of the American Chemical Society, 2021, 143, 657-663.	6.6	20
28	Embedding Red Emitters in the NbO-Type Metalâ€“Organic Frameworks for Highly Sensitive Luminescence Thermometry over Tunable Temperature Range. ACS Applied Materials & Interfaces, 2021, 13, 11078-11088.	4.0	42
29	Electrostatically Driven Selective Adsorption of Carbon Dioxide over Acetylene in an Ultramicroporous Material. Angewandte Chemie - International Edition, 2021, 60, 9604-9609.	7.2	73
30	A Rodâ€Packing Hydrogenâ€Bonded Organic Framework with Suitable Pore Confinement for Benchmark Ethane/Ethylene Separation. Angewandte Chemie - International Edition, 2021, 60, 10304-10310.	7.2	104
31	Electrostatically Driven Selective Adsorption of Carbon Dioxide over Acetylene in an Ultramicroporous Material. Angewandte Chemie, 2021, 133, 9690-9695.	1.6	15
32	A Fluorescent Metalâ€“Organic Framework for Food Realâ€Time Visual Monitoring. Advanced Materials, 2021, 33, e2008020.	11.1	139
33	Robust Biological Hydrogenâ€Bonded Organic Framework with Postâ€Functionalized Rhenium(I) Sites for Efficient Heterogeneous Visibleâ€Lightâ€Driven CO₂ Reduction. Angewandte Chemie - International Edition, 2021, 60, 8983-8989.	7.2	83
34	A Rodâ€Packing Hydrogenâ€Bonded Organic Framework with Suitable Pore Confinement for Benchmark Ethane/Ethylene Separation. Angewandte Chemie, 2021, 133, 10392-10398.	1.6	29
35	Robust Biological Hydrogenâ€Bonded Organic Framework with Postâ€Functionalized Rhenium(I) Sites for Efficient Heterogeneous Visibleâ€Lightâ€Driven CO₂ Reduction. Angewandte Chemie, 2021, 133, 9065-9071.	1.6	23
36	Stable Eu³⁺/Cu²⁺-Functionalized Supramolecular Zinc(II) Complexes as Fluorescent Probes for Turn-On and Ratiometric Detection of Hydrogen Sulfide. ACS Applied Materials & Interfaces, 2021, 13, 20371-20379.	4.0	30

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37	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.	6.6	198
38	Metalâ€“Organic Frameworks for Photo/Electrocatalysis. Advanced Energy and Sustainability Research, 2021, 2, 2100033.	2.8	123
39	Realization of Ethylene Production from Its Quaternary Mixture through Metalâ€“Organic Framework Materials. ACS Applied Materials & Interfaces, 2021, 13, 22514-22520.	4.0	13
40	Benchmark C₂H₂/CO₂Separation in an Ultraâ€Microporous Metalâ€“Organic Framework via Copper(I)â€Alkynyl Chemistry. Angewandte Chemie, 2021, 133, 16131-16138.	1.6	43
41	Progress in Multifunctional Metalâ€“Organic Frameworks/Polymer Hybrid Membranes. Chemistry - A European Journal, 2021, 27, 12940-12952.	1.7	14
42	Deep Desulfurization with Record SO₂ Adsorption on the Metalâ€“Organic Frameworks. Journal of the American Chemical Society, 2021, 143, 9040-9047.	6.6	108
43	Benchmark C₂H₂/CO₂Separation in an Ultraâ€Microporous Metalâ€“Organic Framework via Copper(I)â€Alkynyl Chemistry. Angewandte Chemie - International Edition, 2021, 60, 15995-16002.	7.2	148
44	A Microporous Hydrogenâ€Bonded Organic Framework for the Efficient Capture and Purification of Propylene. Angewandte Chemie, 2021, 133, 20563-20569.	1.6	18
45	A Microporous Hydrogenâ€Bonded Organic Framework for the Efficient Capture and Purification of Propylene. Angewandte Chemie - International Edition, 2021, 60, 20400-20406.	7.2	132
46	MOFâ€Nanocomposite Mixedâ€Matrix Membrane for Dualâ€Luminescence Ratiometric Temperature Sensing. Advanced Optical Materials, 2021, 9, 2100945.	3.6	75
47	Ethylene/ethane separation in a stable hydrogen-bonded organic framework through a gating mechanism. Nature Chemistry, 2021, 13, 933-939.	6.6	235
48	Efficient C₂H₂/CO₂ Separation in Ultramicroporous Metalâ€“Organic Frameworks with Record C₂H₂ Storage Density. Journal of the American Chemical Society, 2021, 143, 14869-14876.	6.6	101
49	Achieving High Performance Metalâ€“Organic Framework Materials through Pore Engineering. Accounts of Chemical Research, 2021, 54, 3362-3376.	7.6	158
50	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.	7.2	116
51	Frontispiece: Progress in Multifunctional Metalâ€“Organic Frameworks/Polymer Hybrid Membranes. Chemistry - A European Journal, 2021, 27, .	1.7	0
52	A Solid Transformation into Carboxyl Dimers Based on a Robust Hydrogenâ€Bonded Organic Framework for Propyne/Propylene Separation. Angewandte Chemie - International Edition, 2021, 60, 25942-25948.	7.2	68
53	A Solid Transformation into Carboxyl Dimers Based on a Robust Hydrogenâ€Bonded Organic Framework for Propyne/Propylene Separation. Angewandte Chemie, 2021, 133, 26146-26152.	1.6	14
54	Multifunctional Pd/MOFs@MOFs Confined Coreâ€Shell Catalysts with Wrinkled Surface for Selective Catalysis. Chemistry - an Asian Journal, 2021, 16, 3743-3747.	1.7	6

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55	Highly Selective Adsorption of Carbon Dioxide over Acetylene in an Ultramicroporous Metalâ€“Organic Framework. Advanced Materials, 2021, 33, e2105880.	11.1	66
56	An Ultramicroporous Metal-Organic Framework with Record High Selectivity for Inverse CO2/C2H2 Separation. Bulletin of the Chemical Society of Japan, 2021, 94, 2698-2701.	2.0	13
57	An anthracene based conjugated triazine framework as a luminescent probe for selective sensing of p-nitroaniline and Fe(<scp>iii</scp>) ions. Materials Chemistry Frontiers, 2021, 5, 6568-6574.	3.2	23
58	A dynamic MOF for efficient purification of propylene. Science China Chemistry, 2021, 64, 2053-2054.	4.2	6
59	A Molecular Compound for Highly Selective Purification of Ethylene. Angewandte Chemie, 2021, 133, 27390-27394.	1.6	4
60	A Molecular Compound for Highly Selective Purification of Ethylene. Angewandte Chemie - International Edition, 2021, 60, 27184-27188.	7.2	18
61	A Copper-Based Metalâ€“Organic Framework for C₂H₂/CO₂ Separation. Inorganic Chemistry, 2021, 60, 18816-18821.	1.9	9
62	A microporous metalâ€“organic framework with naphthalene diimide groups for high methane storage. Dalton Transactions, 2020, 49, 3658-3661.	1.6	31
63	Reversed ethane/ethylene adsorption in a metalâ€“organic framework via introduction of oxygen. Chinese Journal of Chemical Engineering, 2020, 28, 593-597.	1.7	19
64	Emerging 2D functional metal-organic framework materials. National Science Review, 2020, 7, 3-5.	4.6	7
65	Mixed Metalâ€“Organic Framework with Multiple Binding Sites for Efficient C₂H₂/CO₂Separation. Angewandte Chemie - International Edition, 2020, 59, 4396-4400.	7.2	313
66	Novel route to size-controlled synthesis of MnFe2O4@MOF core-shell nanoparticles. Journal of Solid State Chemistry, 2020, 283, 121127.	1.4	8
67	Microporous Metal-Organic Framework Materials for Gas Separation. CheM, 2020, 6, 337-363.	5.8	528
68	Selective Ethane/Ethylene Separation in a Robust Microporous Hydrogen-Bonded Organic Framework. Journal of the American Chemical Society, 2020, 142, 633-640.	6.6	183
69	Boosting Ethylene/Ethane Separation within Copper(I)â€Chelated Metalâ€“Organic Frameworks through Tailorâ€Made Aperture and Specific Ïâ€Complexation. Advanced Science, 2020, 7, 1901918.	5.6	86
70	Doubly Interpenetrated Metalâ€“Organic Framework of pcu Topology for Selective Separation of Propylene from Propane. ACS Applied Materials & Interfaces, 2020, 12, 48712-48717.	4.0	23
71	A novel expanded metalâ€“organic framework for balancing volumetric and gravimetric methane storage working capacities. Chemical Communications, 2020, 56, 13117-13120.	2.2	9
72	Isoreticular Microporous Metalâ€“Organic Frameworks for Carbon Dioxide Capture. Inorganic Chemistry, 2020, 59, 17143-17148.	1.9	33

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73	Design and applications of water-stable metal-organic frameworks: status and challenges. Coordination Chemistry Reviews, 2020, 423, 213507.	9.5	138
74	Boosting the photoreduction activity of Cr(<scp>vi</scp>) in metalâ€“organic frameworks by photosensitiser incorporation and framework ionization. Journal of Materials Chemistry A, 2020, 8, 17219-17228.	5.2	31
75	Hydrogen-Bonded Organic Frameworks as a Tunable Platform for Functional Materials. Journal of the American Chemical Society, 2020, 142, 14399-14416.	6.6	444
76	A Robust Mixedâ€Lanthanide PolyMOF Membrane for Ratiometric Temperature Sensing. Angewandte Chemie - International Edition, 2020, 59, 21752-21757.	7.2	115
77	Controllable broadband multicolour single-mode polarized laser in a dye-assembled homoepitaxial MOF microcrystal. Light: Science and Applications, 2020, 9, 138.	7.7	30
78	Tuning Gateâ€Opening of a Flexible Metalâ€“Organic Framework for Ternary Gas Sieving Separation. Angewandte Chemie - International Edition, 2020, 59, 22756-22762.	7.2	173
79	Tuning Gateâ€Opening of a Flexible Metalâ€“Organic Framework for Ternary Gas Sieving Separation. Angewandte Chemie, 2020, 132, 22944-22950.	1.6	33
80	An Ultramicroporous Metalâ€“Organic Framework for Sieving Separation of Carbon Dioxide from Methane. Small Structures, 2020, 1, 2000022.	6.9	33
81	A Robust Mixedâ€Lanthanide PolyMOF Membrane for Ratiometric Temperature Sensing. Angewandte Chemie, 2020, 132, 21936-21941.	1.6	23
82	Light-gated cation-selective transport in metalâ€“organic framework membranes. Journal of Materials Chemistry A, 2020, 8, 11399-11405.	5.2	54
83	Optimizing Pore Space for Flexible-Robust Metalâ€“Organic Framework to Boost Trace Acetylene Removal. Journal of the American Chemical Society, 2020, 142, 9744-9751.	6.6	154
84	A robust Th-azole framework for highly efficient purification of C2H4 from a C2H4/C2H2/C2H6 mixture. Nature Communications, 2020, 11, 3163.	5.8	192
85	Microporous Hydrogen-Bonded Organic Framework for Highly Efficient Turn-Up Fluorescent Sensing of Aniline. Journal of the American Chemical Society, 2020, 142, 12478-12485.	6.6	201
86	Optimization of the Pore Structures of MOFs for Record High Hydrogen Volumetric Working Capacity. Advanced Materials, 2020, 32, e1907995.	11.1	118
87	Metalâ€“Organic Frameworks as a Versatile Platform for Proton Conductors. Advanced Materials, 2020, 32, e1907090.	11.1	255
88	Gas Separation via Hybrid Metalâ€“Organic Framework/Polymer Membranes. Trends in Chemistry, 2020, 2, 254-269.	4.4	71
89	Energy-efficient separation alternatives: metalâ€“organic frameworks and membranes for hydrocarbon separation. Chemical Society Reviews, 2020, 49, 5359-5406.	18.7	370
90	Elucidating heterogeneous photocatalytic superiority of microporous porphyrin organic cage. Nature Communications, 2020, 11, 1047.	5.8	100

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91	A Lightâ€Responsive Metalâ€“Organic Framework Hybrid Membrane with High On/Off Photoswitchable Proton Conductivity. Angewandte Chemie, 2020, 132, 7806-7811.	1.6	7
92	Construction of a functionalized hierarchical pore metalâ€“organic framework via a palladium-reduction induced strategy. Nanoscale, 2020, 12, 6250-6255.	2.8	13
93	A Lightâ€Responsive Metalâ€“Organic Framework Hybrid Membrane with High On/Off Photoswitchable Proton Conductivity. Angewandte Chemie - International Edition, 2020, 59, 7732-7737.	7.2	96
94	A novel hydrogen-bonded organic framework for the sensing of two representative organic arsenics. Canadian Journal of Chemistry, 2020, 98, 352-357.	0.6	22
95	A microporous metal-organic framework with basic sites for efficient C2H2/CO2 separation. Journal of Solid State Chemistry, 2020, 284, 121209.	1.4	13
96	Mixed Metalâ€“Organic Framework with Multiple Binding Sites for Efficient C 2 H 2 /CO 2 Separation. Angewandte Chemie, 2020, 132, 4426-4430.	1.6	46
97	Coordination assembly of 2D ordered organic metal chalcogenides with widely tunable electronic band gaps. Nature Communications, 2020, 11, 261.	5.8	52
98	Mechanochemical synthesis of an ethylene sieve UTSA-280. Journal of Solid State Chemistry, 2020, 287, 121321.	1.4	7
99	An Ultramicroporous Metalâ€“Organic Framework for High Sieving Separation of Propylene from Propane. Journal of the American Chemical Society, 2020, 142, 17795-17801.	6.6	186
100	A novel mesoporous hydrogen-bonded organic framework with high porosity and stability. Chemical Communications, 2020, 56, 66-69.	2.2	76
101	A Flexible Microporous Hydrogen-Bonded Organic Framework. Crystal Growth and Design, 2019, 19, 5184-5188.	1.4	43
102	Simultaneous implementation of resistive switching and rectifying effects in a metal-organic framework with switched hydrogen bond pathway. Science Advances, 2019, 5, eaaw4515.	4.7	90
103	Effective and selective adsorption of organoarsenic acids from water over a Zr-based metal-organic framework. Chemical Engineering Journal, 2019, 378, 122196.	6.6	79
104	Single Crystal Perovskite Microplate for Highâ€Order Multiphoton Excitation. Small Methods, 2019, 3, 1900396.	4.6	17
105	Porous metal-organic frameworks for gas storage and separation: Status and challenges. EnergyChem, 2019, 1, 100006.	10.1	434
106	Loading Photochromic Molecules into a Luminescent Metalâ€“Organic Framework for Information Anticounterfeiting. Angewandte Chemie - International Edition, 2019, 58, 18025-18031.	7.2	205
107	Of HOF hosts. Nature Chemistry, 2019, 11, 1078-1080.	6.6	13
108	Loading Photochromic Molecules into a Luminescent Metalâ€“Organic Framework for Information Anticounterfeiting. Angewandte Chemie, 2019, 131, 18193-18199.	1.6	62

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109	A stable zirconium based metal-organic framework for specific recognition of representative polychlorinated dibenzo-p-dioxin molecules. Nature Communications, 2019, 10, 3861.	5.8	164
110	Reversing C₂H₂â€“CO₂ adsorption selectivity in an ultramicroporous metalâ€“organic framework platform. Chemical Communications, 2019, 55, 11354-11357.	2.2	46
111	Tailoring the pore geometry and chemistry in microporous metalâ€“organic frameworks for high methane storage working capacity. Chemical Communications, 2019, 55, 11402-11405.	2.2	13
112	Microporous Copper Isophthalate Framework of mot Topology for C₂H₂/CO₂ Separation. Crystal Growth and Design, 2019, 19, 5829-5835.	1.4	40
113	Multifunctional porous hydrogen-bonded organic framework materials. Chemical Society Reviews, 2019, 48, 1362-1389.	18.7	751
114	Our journey of developing multifunctional metal-organic frameworks. Coordination Chemistry Reviews, 2019, 384, 21-36.	9.5	126
115	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.	5.2	124
116	A microporous metal-organic framework of sql topology for C2H2/CO2 separation. Inorganica Chimica Acta, 2019, 495, 118938.	1.2	28
117	Postsynthetic Metalation of a Robust Hydrogen-Bonded Organic Framework for Heterogeneous Catalysis. Journal of the American Chemical Society, 2019, 141, 8737-8740.	6.6	178
118	Airâ€Free Synthesis of a Ferrous Metalâ€Organic Framework Featuring HKUSTâ€1 Structure and its MÃ¶ssbauer Spectrum. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2019, 645, 797-800.	0.6	10
119	Robust Microporous Metalâ€“Organic Frameworks for Highly Efficient and Simultaneous Removal of Propyne and Propadiene from Propylene. Angewandte Chemie, 2019, 131, 10315-10320.	1.6	16
120	Robust Microporous Metalâ€“Organic Frameworks for Highly Efficient and Simultaneous Removal of Propyne and Propadiene from Propylene. Angewandte Chemie - International Edition, 2019, 58, 10209-10214.	7.2	69
121	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.	5.2	192
122	Pore Space Partition within a Metalâ€“Organic Framework for Highly Efficient C₂H₂/CO₂ Separation. Journal of the American Chemical Society, 2019, 141, 4130-4136.	6.6	338
123	Microporous Metalâ€“Organic Framework with Dual Functionalities for Efficient Separation of Acetylene from Light Hydrocarbon Mixtures. ACS Sustainable Chemistry and Engineering, 2019, 7, 4897-4902.	3.2	65
124	Construction of Hierarchical Metalâ€“Organic Frameworks by Competitive Coordination Strategy for Highly Efficient CO₂ Conversion. Advanced Materials, 2019, 31, e1904969.	11.1	111
125	Construction of a thiourea-based metalâ€“organic framework with open Ag⁺ sites for the separation of propene/propane mixtures. Journal of Materials Chemistry A, 2019, 7, 25567-25572.	5.2	33
126	Dye-Modified Metalâ€“Organic Framework as a Recyclable Luminescent Sensor for Nicotine Determination in Urine Solution and Living Cell. ACS Applied Materials & Interfaces, 2019, 11, 47253-47258.	4.0	45

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127	Metalâ€“organic framework coated titanium dioxide nanorod array pâ€“n heterojunction photoanode for solar water-splitting. Nano Research, 2019, 12, 643-650.	5.8	73
128	Confinement of Perovskiteâ€QDs within a Single MOF Crystal for Significantly Enhanced Multiphoton Excited Luminescence. Advanced Materials, 2019, 31, e1806897.	11.1	124
129	Low-Cost and High-Performance Microporous Metalâ€“Organic Framework for Separation of Acetylene from Carbon Dioxide. ACS Sustainable Chemistry and Engineering, 2019, 7, 1667-1672.	3.2	47
130	Exploration of porous metalâ€“organic frameworks for gas separation and purification. Coordination Chemistry Reviews, 2019, 378, 87-103.	9.5	538
131	A Metalâ€“Organic Framework with Optimized Porosity and Functional Sites for High Gravimetric and Volumetric Methane Storage Working Capacities. Advanced Materials, 2018, 30, e1704792.	11.1	109
132	Gas Separation: A Singleâ€Molecule Propyne Trap: Highly Efficient Removal of Propyne from Propylene with Anionâ€Pillared Ultramicroporous Materials (Adv. Mater. 10/2018). Advanced Materials, 2018, 30, 1870068.	11.1	3
133	Controlling Pore Shape and Size of Interpenetrated Anion-Pillared Ultramicroporous Materials Enables Molecular Sieving of CO₂ Combined with Ultrahigh Uptake Capacity. ACS Applied Materials & Interfaces, 2018, 10, 16628-16635.	4.0	78
134	Efficient separation of C₂H₂from C₂H₂/CO₂mixtures in an acidâ€“base resistant metalâ€“organic framework. Chemical Communications, 2018, 54, 4846-4849.	2.2	62
135	A Singleâ€Molecule Propyne Trap: Highly Efficient Removal of Propyne from Propylene with Anionâ€Pillared Ultramicroporous Materials. Advanced Materials, 2018, 30, 1705374.	11.1	133
136	A microporous metalâ€“organic framework with commensurate adsorption and highly selective separation of xenon. Journal of Materials Chemistry A, 2018, 6, 4752-4758.	5.2	86
137	Ordered macro-microporous metal-organic framework single crystals. Science, 2018, 359, 206-210.	6.0	836
138	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.	6.6	181
139	Fine-tuning of nano-traps in a stable metalâ€“organic framework for highly efficient removal of propyne from propylene. Journal of Materials Chemistry A, 2018, 6, 6931-6937.	5.2	74
140	Porous metalâ€“organic frameworks for fuel storage. Coordination Chemistry Reviews, 2018, 373, 167-198.	9.5	211
141	A DNAâ€Threaded ZIFâ€8 Membrane with High Proton Conductivity and Low Methanol Permeability. Advanced Materials, 2018, 30, 1705155.	11.1	142
142	Separation of C2 hydrocarbons from methane in a microporous metal-organic framework. Journal of Solid State Chemistry, 2018, 258, 346-350.	1.4	41
143	MIL-100Cr with open Cr sites for a record N₂O capture. Chemical Communications, 2018, 54, 14061-14064.	2.2	39
144	Reticular Chemistry of Multifunctional Metalâ€Organic Framework Materials. Israel Journal of Chemistry, 2018, 58, 949-961.	1.0	24

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145	Robust Nanoporous Supramolecular Network Through Charge-Transfer Interaction. ACS Applied Materials & Interfaces, 2018, 10, 43987-43992.	4.0	8
146	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.	7.2	124
147	A Metalâ€“Organic Framework with Suitable Pore Size and Specific Functional Sites for the Removal of Trace Propyne from Propylene. Angewandte Chemie, 2018, 130, 15403-15408.	1.6	98
148	Molecular Sieving of Ethane from Ethylene through the Molecular Crossâ€Section Size Differentiation in Gallateâ€based Metalâ€“Organic Frameworks. Angewandte Chemie, 2018, 130, 16252-16257.	1.6	72
149	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.	7.2	202
150	Molecular sieving of ethylene from ethane using a rigid metalâ€“organic framework. Nature Materials, 2018, 17, 1128-1133.	13.3	532
151	Ethane/ethylene separation in a metal-organic framework with iron-peroxo sites. Science, 2018, 362, 443-446.	6.0	763
152	Conjugated Microporous Polymers with Rigid Backbones for Organic Solvent Nanofiltration. CheM, 2018, 4, 2269-2271.	5.8	23
153	Boosting Ethane/Ethylene Separation within Isoreticular Ultramicroporous Metalâ€“Organic Frameworks. Journal of the American Chemical Society, 2018, 140, 12940-12946.	6.6	309
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