

Wei Zhou

List of Publications by Year in descending order

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251
papers

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2538

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269
times ranked

27907
citing authors

#	ARTICLE	IF	CITATIONS
1	Methane storage in metal-organic frameworks. <i>Chemical Society Reviews</i> , 2014, 43, 5657-5678.	18.7	1,449
2	Metal-Organic Frameworks as Platforms for Functional Materials. <i>Accounts of Chemical Research</i> , 2016, 49, 483-493.	7.6	1,403
3	Emerging Multifunctional Metal-Organic Framework Materials. <i>Advanced Materials</i> , 2016, 28, 8819-8860.	11.1	1,227
4	Nanotube Networks in Polymer Nanocomposites: Rheology and Electrical Conductivity. <i>Macromolecules</i> , 2004, 37, 9048-9055.	2.2	1,196
5	Unusual and Highly Tunable Missing-Linker Defects in Zirconium Metal-Organic Framework UiO-66 and Their Important Effects on Gas Adsorption. <i>Journal of the American Chemical Society</i> , 2013, 135, 10525-10532.	6.6	1,148
6	Pore chemistry and size control in hybrid porous materials for acetylene capture from ethylene. <i>Science</i> , 2016, 353, 141-144.	6.0	1,088
7	Nanostructured carbon for energy storage and conversion. <i>Nano Energy</i> , 2012, 1, 195-220.	8.2	895
8	Macroscopic, Neat, Single-Walled Carbon Nanotube Fibers. <i>Science</i> , 2004, 305, 1447-1450.	6.0	785
9	Ethane/ethylene separation in a metal-organic framework with iron-peroxo sites. <i>Science</i> , 2018, 362, 443-446.	6.0	763
10	Multifunctional porous hydrogen-bonded organic framework materials. <i>Chemical Society Reviews</i> , 2019, 48, 1362-1389.	18.7	751
11	Microporous metal-organic framework with potential for carbon dioxide capture at ambient conditions. <i>Nature Communications</i> , 2012, 3, 954.	5.8	716
12	Nanoporous carbide-derived carbon with tunable pore size. <i>Nature Materials</i> , 2003, 2, 591-594.	13.3	653
13	Recent Progress in Metal-Organic Frameworks for Applications in Electrocatalytic and Photocatalytic Water Splitting. <i>Advanced Science</i> , 2017, 4, 1600371.	5.6	594
14	A flexible metal-organic framework with a high density of sulfonic acid sites for proton conduction. <i>Nature Energy</i> , 2017, 2, 877-883.	19.8	563
15	Exploration of porous metal-organic frameworks for gas separation and purification. <i>Coordination Chemistry Reviews</i> , 2019, 378, 87-103.	9.5	538
16	High-Capacity Methane Storage in Metal-Organic Frameworks $M_2(dhtp)$: The Important Role of Open Metal Sites. <i>Journal of the American Chemical Society</i> , 2009, 131, 4995-5000.	6.6	534
17	Molecular sieving of ethylene from ethane using a rigid metal-organic framework. <i>Nature Materials</i> , 2018, 17, 1128-1133.	13.3	532
18	Microporous Metal-Organic Framework Materials for Gas Separation. <i>CheM</i> , 2020, 6, 337-363.	5.8	528

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19	Enhanced H ₂ Adsorption in Isostructural Metal-Organic Frameworks with Open Metal Sites: Strong Dependence of the Binding Strength on Metal Ions. <i>Journal of the American Chemical Society</i> , 2008, 130, 15268-15269.	6.6	517
20	Exceptionally High Acetylene Uptake in a Microporous Metal-Organic Framework with Open Metal Sites. <i>Journal of the American Chemical Society</i> , 2009, 131, 12415-12419.	6.6	510
21	Porous Metal-Organic Frameworks for Gas Storage and Separation: What, How, and Why?. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 3468-3479.	2.1	505
22	UTSA-74: A MOF-74 Isomer with Two Accessible Binding Sites per Metal Center for Highly Selective Gas Separation. <i>Journal of the American Chemical Society</i> , 2016, 138, 5678-5684.	6.6	489
23	True solutions of single-walled carbon nanotubes for assembly into macroscopic materials. <i>Nature Nanotechnology</i> , 2009, 4, 830-834.	15.6	486
24	Dynamic traction of lattice-confined platinum atoms into mesoporous carbon matrix for hydrogen evolution reaction. <i>Science Advances</i> , 2018, 4, eaao6657.	4.7	460
25	Hydrogen and Methane Adsorption in Metal-Organic Frameworks: A High-Pressure Volumetric Study. <i>Journal of Physical Chemistry C</i> , 2007, 111, 16131-16137.	1.5	449
26	Porous metal-organic frameworks for gas storage and separation: Status and challenges. <i>EnergyChem</i> , 2019, 1, 100006.	10.1	434
27	Stable Hierarchical Bimetal-Organic Nanostructures as HighPerformance Electrocatalysts for the Oxygen Evolution Reaction. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 4227-4231.	7.2	430
28	Optimized Separation of Acetylene from Carbon Dioxide and Ethylene in a Microporous Material. <i>Journal of the American Chemical Society</i> , 2017, 139, 8022-8028.	6.6	417
29	Microporous metal-organic framework with dual functionalities for highly efficient removal of acetylene from ethylene/acetylene mixtures. <i>Nature Communications</i> , 2015, 6, 7328.	5.8	404
30	Hydrogen Storage in a Prototypical Zeolitic Imidazolate Framework-8. <i>Journal of the American Chemical Society</i> , 2007, 129, 5314-5315.	6.6	393
31	Graphene Oxide Framework Materials: Theoretical Predictions and Experimental Results. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 8902-8904.	7.2	372
32	Exceptional Mechanical Stability of Highly Porous Zirconium Metal-Organic Framework UiO-66 and Its Important Implications. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 925-930.	2.1	361
33	A Flexible Microporous Hydrogen-Bonded Organic Framework for Gas Sorption and Separation. <i>Journal of the American Chemical Society</i> , 2015, 137, 9963-9970.	6.6	360
34	Carbon capture in metal-organic frameworks—a comparative study. <i>Energy and Environmental Science</i> , 2011, 4, 2177.	15.6	354
35	Open Metal Sites within Isostructural Metal-Organic Frameworks for Differential Recognition of Acetylene and Extraordinarily High Acetylene Storage Capacity at Room Temperature. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 4615-4618.	7.2	344
36	A Metal-Organic Framework with Optimized Open Metal Sites and Pore Spaces for High Methane Storage at Room Temperature. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 3178-3181.	7.2	340

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37	Pore Space Partition within a Metal-Organic Framework for Highly Efficient C ₂ H ₂ /CO ₂ Separation. <i>Journal of the American Chemical Society</i> , 2019, 141, 4130-4136.	6.6	338
38	A Zn ⁴⁺ -containing doubly interpenetrated porous metal-organic framework for photocatalytic decomposition of methyl orange. <i>Chemical Communications</i> , 2011, 47, 11715.	2.2	319
39	Mixed Metal-Organic Framework with Multiple Binding Sites for Efficient C ₂ H ₂ /CO ₂ Separation. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 4396-4400.	7.2	313
40	A Porous Metal-Organic Framework with Dynamic Pyrimidine Groups Exhibiting Record High Methane Storage Working Capacity. <i>Journal of the American Chemical Society</i> , 2014, 136, 6207-6210.	6.6	311
41	An Ideal Molecular Sieve for Acetylene Removal from Ethylene with Record Selectivity and Productivity. <i>Advanced Materials</i> , 2017, 29, 1704210.	11.1	310
42	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
43	Transition-Metal-Ethylene Complexes as High-Capacity Hydrogen-Storage Media. <i>Physical Review Letters</i> , 2006, 97, 226102.	2.9	304
44	An Iodide-Based Li ₇ P ₂ S ₈ I Superionic Conductor. <i>Journal of the American Chemical Society</i> , 2015, 137, 1384-1387.	6.6	298
45	Microporous metal-organic frameworks for storage and separation of small hydrocarbons. <i>Chemical Communications</i> , 2012, 48, 11813.	2.2	297
46	Porous Metal-Organic Frameworks: Promising Materials for Methane Storage. <i>CheM</i> , 2016, 1, 557-580.	5.8	297
47	Magnetically aligned single wall carbon nanotube films: Preferred orientation and anisotropic transport properties. <i>Journal of Applied Physics</i> , 2003, 93, 2157-2163.	1.1	292
48	A Rod-Packing Microporous Hydrogen-Bonded Organic Framework for Highly Selective Separation of C ₂ H ₂ /CO ₂ at Room Temperature. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 574-577.	7.2	289
49	Dispersing Single-Walled Carbon Nanotubes with Surfactants: A Small Angle Neutron Scattering Study. <i>Nano Letters</i> , 2004, 4, 1789-1793.	4.5	288
50	Adsorption Sites and Binding Nature of CO ₂ in Prototypical Metal-Organic Frameworks: A Combined Neutron Diffraction and First-Principles Study. <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 1946-1951.	2.1	260
51	Alkali and Alkaline-Earth Metal Amidoboranes: Structure, Crystal Chemistry, and Hydrogen Storage Properties. <i>Journal of the American Chemical Society</i> , 2008, 130, 14834-14839.	6.6	246
52	Flexible Robust Metal-Organic Framework for Efficient Removal of Propyne from Propylene. <i>Journal of the American Chemical Society</i> , 2017, 139, 7733-7736.	6.6	242
53	Structural characterization and diameter-dependent oxidative stability of single wall carbon nanotubes synthesized by the catalytic decomposition of CO. <i>Chemical Physics Letters</i> , 2001, 350, 6-14.	1.2	241
54	Unparalleled lithium and sodium superionic conduction in solid electrolytes with large monovalent cage-like anions. <i>Energy and Environmental Science</i> , 2015, 8, 3637-3645.	15.6	235

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55	Metal-Organic Frameworks with Exceptionally High Methane Uptake: Where and How is Methane Stored?. Chemistry - A European Journal, 2010, 16, 5205-5214.	1.7	227
56	A thermally derived and optimized structure from ZIF-8 with giant enhancement in CO ₂ uptake. Energy and Environmental Science, 2014, 7, 2232-2238.	15.6	222
57	Porous metal-organic frameworks for fuel storage. Coordination Chemistry Reviews, 2018, 373, 167-198.	9.5	211
58	Charge transfer and Fermi level shift in p-doped single-walled carbon nanotubes. Physical Review B, 2005, 71, .	1.1	205
59	Molecular Sieving of Ethane from Ethylene through the Molecular Cross-Section Size Differentiation in Gallate-based Metal-Organic Frameworks. Angewandte Chemie - International Edition, 2018, 57, 16020-16025.	7.2	202
60	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
61	A series of metal-organic frameworks with high methane uptake and an empirical equation for predicting methane storage capacity. Energy and Environmental Science, 2013, 6, 2735.	15.6	193
62	Tunable titanium metal-organic frameworks with infinite 1D Ti-O rods for efficient visible-light-driven photocatalytic H ₂ evolution. Journal of Materials Chemistry A, 2019, 7, 11928-11933.	5.2	192
63	Liquid-Like Ionic Conduction in Solid Lithium and Sodium Monocarborates Near or at Room Temperature. Advanced Energy Materials, 2016, 6, 1502237.	10.2	190
64	An Ultramicroporous Metal-Organic Framework for High Sieving Separation of Propylene from Propane. Journal of the American Chemical Society, 2020, 142, 17795-17801.	6.6	186
65	Ultrahigh and Selective SO ₂ Uptake in Inorganic Anion-Pillared Hybrid Porous Materials. Advanced Materials, 2017, 29, 1606929.	11.1	183
66	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
67	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
68	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
69	Single wall carbon nanotube fibers extruded from super-acid suspensions: Preferred orientation, electrical, and thermal transport. Journal of Applied Physics, 2004, 95, 649-655.	1.1	174
70	A microporous metal-organic framework with both open metal and Lewis basic pyridyl sites for high C ₂ H ₂ and CH ₄ storage at room temperature. Chemical Communications, 2013, 49, 6719.	2.2	158
71	CH ₃ NH ₃ PbBr ₃ Perovskite Nanocrystals Encapsulated in Lanthanide Metal-Organic Frameworks as a Photoluminescence Converter for Anti-Counterfeiting. ACS Applied Materials & Interfaces, 2018, 10, 27875-27884.	4.0	155
72	Enhanced Gas Uptake in a Microporous Metal-Organic Framework via a Sorbate Induced-Fit Mechanism. Journal of the American Chemical Society, 2019, 141, 17703-17712.	6.6	152

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73	Crystal Structure of $\text{Li}_2\text{B}_{12}\text{H}_{12}$: a Possible Intermediate Species in the Decomposition of LiBH_4 . <i>Inorganic Chemistry</i> , 2008, 47, 9757-9759.	1.9	147
74	High Separation Capacity and Selectivity of C_2 Hydrocarbons over Methane within a Microporous Metal-Organic Framework at Room Temperature. <i>Chemistry - A European Journal</i> , 2012, 18, 1901-1904.	1.7	142
75	A Single-Molecule Propyne Trap: Highly Efficient Removal of Propyne from Propylene with Anion-Pillared Ultramicroporous Materials. <i>Advanced Materials</i> , 2018, 30, 1705374.	11.1	133
76	A Microporous Hydrogen-Bonded Organic Framework for the Efficient Capture and Purification of Propylene. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 20400-20406.	7.2	132
77	Origin of the exceptional negative thermal expansion in metal-organic framework-5 Zn_4 <i>Physical Review B</i> , 2008, 78, .	1.1	128
78	Small angle neutron scattering from single-wall carbon nanotube suspensions: evidence for isolated rigid rods and rod networks. <i>Chemical Physics Letters</i> , 2004, 384, 185-189.	1.2	127
79	Immobilization of Lewis Basic Sites into a Stable Ethane-Selective MOF Enabling One-Step Separation of Ethylene from a Ternary Mixture. <i>Journal of the American Chemical Society</i> , 2022, 144, 2614-2623.	6.6	127
80	Porous metal-organic frameworks with Lewis basic nitrogen sites for high-capacity methane storage. <i>Energy and Environmental Science</i> , 2015, 8, 2504-2511.	15.6	126
81	Our journey of developing multifunctional metal-organic frameworks. <i>Coordination Chemistry Reviews</i> , 2019, 384, 21-36.	9.5	126
82	A Metal-Organic Framework with Suitable Pore Size and Specific Functional Sites for the Removal of Trace Propyne from Propylene. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 15183-15188.	7.2	124
83	A metal-organic framework with suitable pore size and dual functionalities for highly efficient post-combustion CO_2 capture. <i>Journal of Materials Chemistry A</i> , 2019, 7, 3128-3134.	5.2	124
84	Microporous Diaminotriazine-Decorated Porphyrin-Based Hydrogen-Bonded Organic Framework: Permanent Porosity and Proton Conduction. <i>Crystal Growth and Design</i> , 2016, 16, 5831-5835.	1.4	120
85	Engineering microporous ethane-trapping metal-organic frameworks for boosting ethane/ethylene separation. <i>Journal of Materials Chemistry A</i> , 2020, 8, 3613-3620.	5.2	120
86	Methane Sorption in Nanoporous Metal-Organic Frameworks and First-Order Phase Transition of Confined Methane. <i>Journal of Physical Chemistry C</i> , 2009, 113, 3029-3035.	1.5	119
87	Fine Tuning of MOF-5 Analogues To Reduce Low-Pressure Methane Uptake and Enhance Methane Working Capacity. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 11426-11430.	7.2	119
88	Electronic, dynamical, and thermal properties of ultra-incompressible superhard rhenium diboride: A combined first-principles and neutron scattering study. <i>Physical Review B</i> , 2007, 76, .	1.1	118
89	Optimization of the Pore Structures of MOFs for Record High Hydrogen Volumetric Working Capacity. <i>Advanced Materials</i> , 2020, 32, e1907995.	11.1	118
90	Extraordinary Separation of Acetylene-Containing Mixtures with Microporous Metal-Organic Frameworks with Open O Donor Sites and Tunable Robustness through Control of the Helical Chain Secondary Building Units. <i>Chemistry - A European Journal</i> , 2016, 22, 5676-5683.	1.7	113

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91	A Metal-Organic Framework with Optimized Porosity and Functional Sites for High Gravimetric and Volumetric Methane Storage Working Capacities. <i>Advanced Materials</i> , 2018, 30, e1704792.	11.1	109
92	Kinetic separation of propylene over propane in a microporous metal-organic framework. <i>Chemical Engineering Journal</i> , 2018, 354, 977-982.	6.6	108
93	A Rod-Packing Hydrogen-Bonded Organic Framework with Suitable Pore Confinement for Benchmark Ethane/Ethylene Separation. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 10304-10310.	7.2	104
94	Dehydrogenation Tuning of Ammine Borohydrides Using Double-Metal Cations. <i>Journal of the American Chemical Society</i> , 2011, 133, 4690-4693.	6.6	103
95	Production and Characterization of Polymer Nanocomposites with Highly Aligned Single-Walled Carbon Nanotubes. <i>Journal of Nanoscience and Nanotechnology</i> , 2003, 3, 105-110.	0.9	101
96	Synthesis of Defect-Rich Titanium Terephthalate with the Assistance of Acetic Acid for Room-Temperature Oxidative Desulfurization of Fuel Oil. <i>ACS Catalysis</i> , 2020, 10, 2384-2394.	5.5	100
97	Methane storage in porous metal-organic frameworks: current records and future perspectives. <i>Chemical Record</i> , 2010, 10, 200-204.	2.9	99
98	A Metal-Organic Framework with Suitable Pore Size and Specific Functional Sites for the Removal of Trace Propyne from Propylene. <i>Angewandte Chemie</i> , 2018, 130, 15403-15408.	1.6	98
99	Porous Polyethersulfone-Supported Zeolitic Imidazolate Framework Membranes for Hydrogen Separation. <i>Journal of Physical Chemistry C</i> , 2012, 116, 13264-13270.	1.5	96
100	Two solvent-induced porous hydrogen-bonded organic frameworks: solvent effects on structures and functionalities. <i>Chemical Communications</i> , 2017, 53, 11150-11153.	2.2	93
101	Versatile Assembly of Metal-Coordinated Calix[4]resorcinarene Cavities and Cages through Ancillary Linker Tuning. <i>Journal of the American Chemical Society</i> , 2017, 139, 7648-7656.	6.6	92
102	Nanoconfinement and Catalytic Dehydrogenation of Ammonia Borane by Magnesium-Metal-Organic Frameworks. <i>Chemistry - A European Journal</i> , 2011, 17, 6043-6047.	1.7	90
103	Efficient separation of ethylene from acetylene/ethylene mixtures by a flexible-robust metal-organic framework. <i>Journal of Materials Chemistry A</i> , 2017, 5, 18984-18988.	5.2	88
104	Hydrogen absorption properties of metal-ethylene complexes. <i>Physical Review B</i> , 2007, 76, .	1.1	85
105	Robust Biological Hydrogen-Bonded Organic Framework with Post-Functionalized Rhenium(I) Sites for Efficient Heterogeneous Visible-Light-Driven CO ₂ Reduction. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 8983-8989.	7.2	83
106	Maximizing Electroactive Sites in a Three-Dimensional Covalent Organic Framework for Significantly Improved Carbon Dioxide Reduction Electrocatalysis. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	83
107	A NbO-type metal-organic framework exhibiting high deliverable capacity for methane storage. <i>Chemical Communications</i> , 2015, 51, 8508-8511.	2.2	81
108	Modulating the electrical conductivity of metal-organic framework films with intercalated guest I ⁻ -systems. <i>Journal of Materials Chemistry C</i> , 2016, 4, 894-899.	2.7	80

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109	A microporous hydrogen-bonded organic framework with amine sites for selective recognition of small molecules. <i>Journal of Materials Chemistry A</i> , 2017, 5, 8292-8296.	5.2	78
110	Controlling Pore Shape and Size of Interpenetrated Anion-Pillared Ultramicroporous Materials Enables Molecular Sieving of CO ₂ Combined with Ultrahigh Uptake Capacity. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 16628-16635.	4.0	78
111	Quasi-Free Methyl Rotation in Zeolitic Imidazolate Framework-8. <i>Journal of Physical Chemistry A</i> , 2008, 112, 12602-12606.	1.1	77
112	Nanospace within metal-organic frameworks for gas storage and separation. <i>Materials Today Nano</i> , 2018, 2, 21-49.	2.3	77
113	Lowering Band Gap of an Electroactive Metal-Organic Framework via Complementary Guest Intercalation. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 32413-32417.	4.0	75
114	Fine-tuning of nano-traps in a stable metal-organic framework for highly efficient removal of propyne from propylene. <i>Journal of Materials Chemistry A</i> , 2018, 6, 6931-6937.	5.2	74
115	Electrostatically Driven Selective Adsorption of Carbon Dioxide over Acetylene in an Ultramicroporous Material. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 9604-9609.	7.2	73
116	Lattice dynamics of metal-organic frameworks: Neutron inelastic scattering and first-principles calculations. <i>Physical Review B</i> , 2006, 74, .	1.1	72
117	Molecular Sieving of Ethane from Ethylene through the Molecular Cross-Section Size Differentiation in Gallate-based Metal-Organic Frameworks. <i>Angewandte Chemie</i> , 2018, 130, 16252-16257.	1.6	72
118	Sodium magnesium amidoborane: the first mixed-metal amidoborane. <i>Chemical Communications</i> , 2011, 47, 4102.	2.2	71
119	Nature and Tunability of Enhanced Hydrogen Binding in Metal-Organic Frameworks with Exposed Transition Metal Sites. <i>Journal of Physical Chemistry C</i> , 2008, 112, 8132-8135.	1.5	70
120	Structures and Crystal Chemistry of Li ₂ BNH ₆ and Li ₄ BN ₃ H ₁₀ . <i>Chemistry of Materials</i> , 2008, 20, 1245-1247.	3.2	70
121	Borohydride hydrazinates: high hydrogen content materials for hydrogen storage. <i>Energy and Environmental Science</i> , 2012, 5, 5686-5689.	15.6	68
122	A Solid Transformation into Carboxyl Dimers Based on a Robust Hydrogen-Bonded Organic Framework for Propyne/Propylene Separation. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 25942-25948.	7.2	68
123	Expanded Organic Building Units for the Construction of Highly Porous Metal-Organic Frameworks. <i>Chemistry - A European Journal</i> , 2013, 19, 14886-14894.	1.7	66
124	Highly Selective Adsorption of Carbon Dioxide over Acetylene in an Ultramicroporous Metal-Organic Framework. <i>Advanced Materials</i> , 2021, 33, e2105880.	11.1	66
125	A new family of metal borohydride ammonia borane complexes: Synthesis, structures, and hydrogen storage properties. <i>Journal of Materials Chemistry</i> , 2010, 20, 6550.	6.7	65
126	Microporous Metal-Organic Framework with Dual Functionalities for Efficient Separation of Acetylene from Light Hydrocarbon Mixtures. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 4897-4902.	3.2	65

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127	Structural stability and elastic properties of prototypical covalent organic frameworks. <i>Chemical Physics Letters</i> , 2010, 499, 103-107.	1.2	62
128	A microporous metal-organic framework assembled from an aromatic tetracarboxylate for H ₂ purification. <i>Journal of Materials Chemistry A</i> , 2013, 1, 2543.	5.2	62
129	A microporous metal-organic framework of a rare sty topology for high CH ₄ storage at room temperature. <i>Chemical Communications</i> , 2013, 49, 2043.	2.2	61
130	Probing the structure, stability and hydrogen storage properties of calcium dodecahydro-closo-dodecaborate. <i>Journal of Solid State Chemistry</i> , 2010, 183, 1133-1140.	1.4	60
131	Zn-MOF assisted dehydrogenation of ammonia borane: Enhanced kinetics and clean hydrogen generation. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 3633-3638.	3.8	60
132	Metastable Interwoven Mesoporous Metal-Organic Frameworks. <i>Inorganic Chemistry</i> , 2013, 52, 11580-11584.	1.9	60
133	Crystal Chemistry of Perovskite-Type Hydride NaMgH ₃ : Implications for Hydrogen Storage. <i>Chemistry of Materials</i> , 2008, 20, 2335-2342.	3.2	57
134	A microporous aluminum-based metal-organic framework for high methane, hydrogen, and carbon dioxide storage. <i>Nano Research</i> , 2021, 14, 507-511.	5.8	57
135	Metal hydrazinoborane LiN ₂ H ₃ BH ₃ and LiN ₂ H ₃ BH ₃ ·2N ₂ H ₄ BH ₃ : crystal structures and high-extent dehydrogenation. <i>Energy and Environmental Science</i> , 2012, 5, 7531.	15.6	56
136	Role of Cation Size on the Structural Behavior of the Alkali-Metal Dodecahydro-closo-Dodecaborates. <i>Journal of Physical Chemistry C</i> , 2009, 113, 11187-11189.	1.5	55
137	A novel anion-pillared metal-organic framework for highly efficient separation of acetylene from ethylene and carbon dioxide. <i>Journal of Materials Chemistry A</i> , 2021, 9, 9248-9255.	5.2	55
138	Single-Walled Carbon Nanotube-Templated Crystallization of H ₂ SO ₄ : Direct Evidence for Protonation. <i>Journal of the American Chemical Society</i> , 2005, 127, 1640-1641.	6.6	53
139	Order-Disorder Transitions and Superionic Conductivity in the Sodium Undeca(carba)borates. <i>Chemistry of Materials</i> , 2017, 29, 10496-10509.	3.2	53
140	Reversible Switching between Nonporous and Porous Phases of a New SIFSIX Coordination Network Induced by a Flexible Linker Ligand. <i>Journal of the American Chemical Society</i> , 2020, 142, 6896-6901.	6.6	51
141	Maximizing acetylene packing density for highly efficient C ₂ H ₂ /CO ₂ separation through immobilization of amine sites within a prototype MOF. <i>Chemical Engineering Journal</i> , 2022, 431, 134184.	6.6	49
142	Visualizing Structural Transformation and Guest Binding in a Flexible Metal-Organic Framework under High Pressure and Room Temperature. <i>ACS Central Science</i> , 2018, 4, 1194-1200.	5.3	46
143	Mixed Metal-Organic Framework with Multiple Binding Sites for Efficient C ₂ H ₂ /CO ₂ Separation. <i>Angewandte Chemie</i> , 2020, 132, 4426-4430.	1.6	46
144	A highly porous NbO type metal-organic framework constructed from an expanded tetracarboxylate. <i>Chemical Communications</i> , 2014, 50, 1552.	2.2	44

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