

# Wei Zhou

## List of Publications by Year in descending order

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27907  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	A novel lanthanide metal-organic frameworks: Multi-responsive luminescent sensor for detecting organic compounds and pesticides. <i>Journal of Solid State Chemistry</i> , 2022, 306, 122723.	1.4	1
3	Hydrogen-Bonded Metal-Nucleobase Frameworks for Efficient Separation of Xenon and Krypton. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	36
4	An Adaptive Hydrogen-Bonded Organic Framework for the Exclusive Recognition of <i>p</i> -Xylene. <i>Chemistry - A European Journal</i> , 2022, 28, .	1.7	27
5	Maximizing acetylene packing density for highly efficient C <sub>2</sub> H <sub>2</sub> /CO <sub>2</sub> separation through immobilization of amine sites within a prototype MOF. <i>Chemical Engineering Journal</i> , 2022, 431, 134184.	6.6	49
6	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
7	Photoresponsive Covalent Organic Frameworks with Diarylethene Switch for Tunable Singlet Oxygen Generation. <i>Chemistry of Materials</i> , 2022, 34, 1956-1964.	3.2	35
8	Solvent-Dependent Self-Assembly of Hydrogen-Bonded Organic Porphyrinic Frameworks. <i>Crystal Growth and Design</i> , 2022, 22, 3808-3814.	1.4	5
9	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
10	Effects of intervalence charge transfer interaction between $\pi$ -stacked mixed valent tetrathiafulvalene ligands on the electrical conductivity of 3D metal-organic frameworks. <i>Chemical Science</i> , 2021, 12, 13379-13391.	3.7	21
11	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
12	Interplay between the Reorientational Dynamics of the B <sub>3</sub> H <sub>8</sub> <sup>+</sup> Anion and the Structure in KB <sub>3</sub> H <sub>8</sub> . <i>Journal of Physical Chemistry C</i> , 2021, 125, 3716-3724.	1.5	10
13	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
14	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
15	Electrostatically Driven Selective Adsorption of Carbon Dioxide over Acetylene in an Ultramicroporous Material. <i>Angewandte Chemie</i> , 2021, 133, 9690-9695.	1.6	15
16	Robust Biological Hydrogen-Bonded Organic Framework with Post-Functionalized Rhenium(I) Sites for Efficient Heterogeneous Visible-Light-Driven CO <sub>2</sub> Reduction. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 8983-8989.	7.2	83
17	A Rod-Packing Hydrogen-Bonded Organic Framework with Suitable Pore Confinement for Benchmark Ethane/Ethylene Separation. <i>Angewandte Chemie</i> , 2021, 133, 10392-10398.	1.6	29
18	Robust Biological Hydrogen-Bonded Organic Framework with Post-Functionalized Rhenium(I) Sites for Efficient Heterogeneous Visible-Light-Driven CO <sub>2</sub> Reduction. <i>Angewandte Chemie</i> , 2021, 133, 9065-9071.	1.6	23

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19	Two-Dimensional Covalent Organic Frameworks with Cobalt(II)-Phthalocyanine Sites for Efficient Electrocatalytic Carbon Dioxide Reduction. <i>Journal of the American Chemical Society</i> , 2021, 143, 7104-7113.	6.6	198
20	A Microporous Hydrogen-Bonded Organic Framework for the Efficient Capture and Purification of Propylene. <i>Angewandte Chemie</i> , 2021, 133, 20563-20569.	1.6	18
21	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
22	Polymorphism of Calcium Decahydrido-closo-decaborate and Characterization of Its Hydrates. <i>Inorganic Chemistry</i> , 2021, 60, 10943-10957.	1.9	6
23	Neutron Scattering Investigations of the Global and Local Structures of Ammine Yttrium Borohydrides. <i>Journal of Physical Chemistry C</i> , 2021, 125, 15415-15423.	1.5	6
24	Fast Lithium Ionic Conductivity in Complex Hydride-Sulfide Electrolytes by Double Anions Substitution. <i>Small Methods</i> , 2021, 5, e2100609.	4.6	14
25	Developing Ideal Metalorganic Hydrides for Hydrogen Storage: From Theoretical Prediction to Rational Fabrication. , 2021, 3, 1417-1425.		13
26	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
27	A Solid Transformation into Carboxyl Dimers Based on a Robust Hydrogen-Bonded Organic Framework for Propyne/Propylene Separation. <i>Angewandte Chemie</i> , 2021, 133, 26146-26152.	1.6	14
28	Highly Selective Adsorption of Carbon Dioxide over Acetylene in an Ultramicroporous Metal-Organic Framework. <i>Advanced Materials</i> , 2021, 33, e2105880.	11.1	66
29	Investigating the non-classical M-H <sub>2</sub> bonding in OsClH <sub>3</sub> (PPh <sub>3</sub> ) <sub>3</sub> . <i>Journal of Alloys and Compounds</i> , 2021, 894, 162445.	2.8	1
30	A microporous metal-organic framework with naphthalene diimide groups for high methane storage. <i>Dalton Transactions</i> , 2020, 49, 3658-3661.	1.6	31
31	Reversed ethane/ethylene adsorption in a metal-organic framework via introduction of oxygen. <i>Chinese Journal of Chemical Engineering</i> , 2020, 28, 593-597.	1.7	19
32	Mixed Metal-Organic Framework with Multiple Binding Sites for Efficient C <sub>2</sub> H <sub>2</sub> /CO <sub>2</sub> Separation. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 4396-4400.	7.2	313
33	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
34	Structural and reorientational dynamics of tetrahydroborate (BH <sub>4</sub> <sup>-</sup> ) and tetrahydrofuran (THF) in a Mg(BH <sub>4</sub> ) <sub>2</sub> ·3THF adduct: neutron-scattering characterization. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 368-378.	1.3	6
35	Metallo-N-Heterocycles - A new family of hydrogen storage material. <i>Energy Storage Materials</i> , 2020, 26, 198-202.	9.5	22
36	Microporous Metal-Organic Framework Materials for Gas Separation. <i>CheM</i> , 2020, 6, 337-363.	5.8	528

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37	Selective Ethane/Ethylene Separation in a Robust Microporous Hydrogen-Bonded Organic Framework. <i>Journal of the American Chemical Society</i> , 2020, 142, 633-640.	6.6	183
38	Creation of Active Sites in MOF-808(Zr) by a Facile Route for Oxidative Desulfurization of Model Diesel Oil. <i>ChemistrySelect</i> , 2020, 5, 244-251.	0.7	29
39	Porous organic cages as synthetic water channels. <i>Nature Communications</i> , 2020, 11, 4927.	5.8	43
40	A novel expanded metal-organic framework for balancing volumetric and gravimetric methane storage working capacities. <i>Chemical Communications</i> , 2020, 56, 13117-13120.	2.2	9
41	Structural and Dynamical Properties of Potassium Dodecahydro-monocarbonyl-dodecaborate: KCB <sub>11</sub> H <sub>12</sub> . <i>Journal of Physical Chemistry C</i> , 2020, 124, 17992-18002.	1.5	24
42	Electrically Conductive 3D Metal-Organic Framework Featuring $\pi$ -Acidic Hexaazatriphenylene Hexacarbonitrile Ligands with Anion- $\pi$ Interaction and Efficient Charge-Transport Capabilities. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 40613-40619.	4.0	18
43	Optimization of the Pore Structures of MOFs for Record High Hydrogen Volumetric Working Capacity. <i>Advanced Materials</i> , 2020, 32, e1907995.	11.1	118
44	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
45	Structure and dynamics of ethane confined in silica nanopores in the presence of CO <sub>2</sub> . <i>Journal of Chemical Physics</i> , 2020, 152, 084707.	1.2	14
46	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
47	Understanding Superionic Conductivity in Lithium and Sodium Salts of Weakly Coordinating Closo-Hexahalocarbaborate Anions. <i>Chemistry of Materials</i> , 2020, 32, 1475-1487.	3.2	35
48	Mixed Metal-Organic Framework with Multiple Binding Sites for Efficient C <sub>2</sub> H <sub>2</sub> /CO <sub>2</sub> Separation. <i>Angewandte Chemie</i> , 2020, 132, 4426-4430.	1.6	46
49	Salen-Based Conjugated Microporous Polymers for Efficient Oxygen Evolution Reaction. <i>Chemistry - A European Journal</i> , 2020, 26, 7720-7726.	1.7	16
50	An Ultramicroporous Metal-Organic Framework for High Sieving Separation of Propylene from Propane. <i>Journal of the American Chemical Society</i> , 2020, 142, 17795-17801.	6.6	186
51	A calix[4]resorcinarene-based giant coordination cage: controlled assembly and iodine uptake. <i>Chemical Communications</i> , 2020, 56, 2491-2494.	2.2	28
52	A Flexible Microporous Hydrogen-Bonded Organic Framework. <i>Crystal Growth and Design</i> , 2019, 19, 5184-5188.	1.4	43
53	Low-Temperature Rotational Tunneling of Tetrahydroborate Anions in Lithium Benzimidazolate-Borohydride Li <sub>2</sub> (blm)BH <sub>4</sub> . <i>Journal of Physical Chemistry C</i> , 2019, 123, 20789-20799.	1.5	6
54	The effect of pore size and layer number of metal-porphyrin coordination nanosheets on sensing DNA. <i>Journal of Materials Chemistry C</i> , 2019, 7, 10240-10246.	2.7	27

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55	Porous metal-organic frameworks for gas storage and separation: Status and challenges. <i>EnergyChem</i> , 2019, 1, 100006.	10.1	434
56	Enhanced Gas Uptake in a Microporous Metal-Organic Framework via a Sorbate Induced-Fit Mechanism. <i>Journal of the American Chemical Society</i> , 2019, 141, 17703-17712.	6.6	152
57	Inserting Amide into NOTT-101 to Sharply Enhance Volumetric and Gravimetric Methane Storage Working Capacity. <i>Inorganic Chemistry</i> , 2019, 58, 13782-13787.	1.9	10
58	Elucidating J-Aggregation Effect in Boosting Singlet-Oxygen Evolution Using Zirconium-Porphyrin Frameworks: A Comprehensive Structural, Catalytic, and Spectroscopic Study. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 45118-45125.	4.0	29
59	Tailoring the pore geometry and chemistry in microporous metal-organic frameworks for high methane storage working capacity. <i>Chemical Communications</i> , 2019, 55, 11402-11405.	2.2	13
60	Multifunctional porous hydrogen-bonded organic framework materials. <i>Chemical Society Reviews</i> , 2019, 48, 1362-1389.	18.7	751
61	Our journey of developing multifunctional metal-organic frameworks. <i>Coordination Chemistry Reviews</i> , 2019, 384, 21-36.	9.5	126
62	A metal-organic framework with suitable pore size and dual functionalities for highly efficient post-combustion CO <sub>2</sub> capture. <i>Journal of Materials Chemistry A</i> , 2019, 7, 3128-3134.	5.2	124
63	Postsynthetic Metalation of a Robust Hydrogen-Bonded Organic Framework for Heterogeneous Catalysis. <i>Journal of the American Chemical Society</i> , 2019, 141, 8737-8740.	6.6	178
64	Potassium octahydridotriborate: diverse polymorphism in a potential hydrogen storage material and potassium ion conductor. <i>Dalton Transactions</i> , 2019, 48, 8872-8881.	1.6	34
65	Green and scalable synthesis of nitro- and amino-functionalized UiO-66(Zr) and the effect of functional groups on the oxidative desulfurization performance. <i>Inorganic Chemistry Frontiers</i> , 2019, 6, 1267-1274.	3.0	30
66	Tunable titanium metal-organic frameworks with infinite 1D Ti-O rods for efficient visible-light-driven photocatalytic H <sub>2</sub> evolution. <i>Journal of Materials Chemistry A</i> , 2019, 7, 11928-11933.	5.2	192
67	Pore Space Partition within a Metal-Organic Framework for Highly Efficient C <sub>2</sub> H <sub>2</sub> /CO <sub>2</sub> Separation. <i>Journal of the American Chemical Society</i> , 2019, 141, 4130-4136.	6.6	338
68	Stable Hierarchical Bimetal-Organic Nanostructures as High-Performance Electrocatalysts for the Oxygen Evolution Reaction. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 4227-4231.	7.2	430
69	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
70	Stable Hierarchical Bimetal-Organic Nanostructures as High-Performance Electrocatalysts for the Oxygen Evolution Reaction. <i>Angewandte Chemie</i> , 2019, 131, 4271-4275.	1.6	36
71	Exploration of porous metal-organic frameworks for gas separation and purification. <i>Coordination Chemistry Reviews</i> , 2019, 378, 87-103.	9.5	538
72	Low-Temperature Rotational Tunneling of Tetrahydroborate Anions in Lithium Benzimidazolate-Borohydride Li(bIm)BH. <i>Journal of Physical Chemistry C</i> , 2019, 123, .	1.5	0

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73	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
74	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
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	Dynamic traction of lattice-confined platinum atoms into mesoporous carbon matrix for hydrogen evolution reaction. <i>Science Advances</i> , 2018, 4, ea06657.	4.7	460
77	Fine Tuning and Specific Binding Sites with a Porous Hydrogen-Bonded Metal-Complex Framework for Gas Selective Separations. <i>Journal of the American Chemical Society</i> , 2018, 140, 4596-4603.	6.6	181
78	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
79	Porous metal-organic frameworks for fuel storage. <i>Coordination Chemistry Reviews</i> , 2018, 373, 167-198.	9.5	211
80	Li <sub>2</sub> NH-LiBH <sub>4</sub> : a Complex Hydride with Near Ambient Hydrogen Adsorption and Fast Lithium Ion Conduction. <i>Chemistry - A European Journal</i> , 2018, 24, 1342-1347.	1.7	16
81	MIL-100Cr with open Cr sites for a record N <sub>2</sub> O capture. <i>Chemical Communications</i> , 2018, 54, 14061-14064.	2.2	39
82	Reticular Chemistry of Multifunctional Metal-Organic Framework Materials. <i>Israel Journal of Chemistry</i> , 2018, 58, 949-961.	1.0	24
83	Nanospace within metal-organic frameworks for gas storage and separation. <i>Materials Today Nano</i> , 2018, 2, 21-49.	2.3	77
84	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
85	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
86	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
87	Molecular Sieving of Ethane from Ethylene through the Molecular Cross-Section Size Differentiation in Gallate-based Metal-Organic Frameworks. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 16020-16025.	7.2	202
88	Molecular sieving of ethylene from ethane using a rigid metal-organic framework. <i>Nature Materials</i> , 2018, 17, 1128-1133.	13.3	532
89	Ethane/ethylene separation in a metal-organic framework with iron-peroxo sites. <i>Science</i> , 2018, 362, 443-446.	6.0	763
90	Boosting Ethane/Ethylene Separation within Isorecticular Ultramicroporous Metal-Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2018, 140, 12940-12946.	6.6	309

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91	CH <sub>3</sub> NH <sub>3</sub> PbBr <sub>3</sub> 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
92	Visualizing Structural Transformation and Guest Binding in a Flexible Metal-Organic Framework under High Pressure and Room Temperature. ACS Central Science, 2018, 4, 1194-1200.	5.3	46
93	Kinetic separation of propylene over propane in a microporous metal-organic framework. Chemical Engineering Journal, 2018, 354, 977-982.	6.6	108
94	Nature of Decahydro-closo-decaborate Anion Reorientations in an Ordered Alkali-Metal Salt: Rb <sub>2</sub> B <sub>10</sub> H <sub>10</sub> . Journal of Physical Chemistry C, 2018, 122, 15198-15207.	1.5	9
95	Sc and Nb dopants in SrCoO <sub>3</sub> modulate electronic and vacancy structures for improved water splitting and SOFC cathodes. Energy Storage Materials, 2017, 9, 229-234.	9.5	31
96	Recent Progress in Metal-Organic Frameworks for Applications in Electrocatalytic and Photocatalytic Water Splitting. Advanced Science, 2017, 4, 1600371.	5.6	594
97	Highly Enhanced Gas Uptake and Selectivity via Incorporating Methoxy Groups into a Microporous Metal-Organic Framework. Crystal Growth and Design, 2017, 17, 2172-2177.	1.4	26
98	A microporous hydrogen-bonded organic framework with amine sites for selective recognition of small molecules. Journal of Materials Chemistry A, 2017, 5, 8292-8296.	5.2	78
99	Transition and Alkali Metal Complex Ternary Amides for Ammonia Synthesis and Decomposition. Chemistry - A European Journal, 2017, 23, 9766-9771.	1.7	28
100	Versatile Assembly of Metal-Coordinated Calix[4]resorcinarene Cavitands and Cages through Ancillary Linker Tuning. Journal of the American Chemical Society, 2017, 139, 7648-7656.	6.6	92
101	Ultrahigh and Selective SO <sub>2</sub> Uptake in Inorganic Anion-Pillared Hybrid Porous Materials. Advanced Materials, 2017, 29, 1606929.	11.1	183
102	Optimized Separation of Acetylene from Carbon Dioxide and Ethylene in a Microporous Material. Journal of the American Chemical Society, 2017, 139, 8022-8028.	6.6	417
103	Flexible Robust Metal-Organic Framework for Efficient Removal of Propyne from Propylene. Journal of the American Chemical Society, 2017, 139, 7733-7736.	6.6	242
104	Comparison of the Coordination of B <sub>12</sub> F <sub>12</sub> <sup>2+</sup> , B <sub>12</sub> Cl <sub>12</sub> <sup>2+</sup> , and B <sub>12</sub> H <sub>12</sub> <sup>2+</sup> to Na <sup>+</sup> in the Solid State: Crystal Structures and Thermal Behavior of Na <sub>2</sub> (B <sub>12</sub> F <sub>12</sub> ), Na <sub>2</sub> (H <sub>2</sub> O) <sub>4</sub> (B <sub>12</sub> F <sub>12</sub> ), Na <sub>2</sub> (B <sub>12</sub> Cl <sub>12</sub> ), and Na <sub>2</sub> (H <sub>2</sub> O) <sub>6</sub> .	1.9	34
105	High-Pressure Methane Adsorption in Two Isoreticular Zr-Based Metal-Organic Frameworks Constructed from C <sub>3</sub> -Symmetrical Tricarboxylates. Crystal Growth and Design, 2017, 17, 248-254.	1.4	6
106	A flexible metal-organic framework with a high density of sulfonic acid sites for proton conduction. Nature Energy, 2017, 2, 877-883.	19.8	563
107	Construction of ntt-Type Metal-Organic Framework from C <sub>2</sub> -Symmetry Hexacarboxylate Linker for Enhanced Methane Storage. Crystal Growth and Design, 2017, 17, 4795-4800.	1.4	13
108	Latent Porosity in Alkali-Metal M <sub>2</sub> B <sub>12</sub> F <sub>12</sub> Salts: Structures and Rapid Room-Temperature Hydration/Dehydration Cycles. Inorganic Chemistry, 2017, 56, 12023-12041.	1.9	13

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109	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
110	Lowering Band Gap of an Electroactive Metal-Organic Framework via Complementary Guest Intercalation. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 32413-32417.	4.0	75
111	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
112	Fine Tuning of MOF-505 Analogues To Reduce Low-Pressure Methane Uptake and Enhance Methane Working Capacity. <i>Angewandte Chemie</i> , 2017, 129, 11584-11588.	1.6	33
113	Fine Tuning of MOF-505 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
114	Order-Disorder Transitions and Superionic Conductivity in the Sodium <i>n</i> -Undeca(carba)borates. <i>Chemistry of Materials</i> , 2017, 29, 10496-10509.	3.2	53
115	An Ideal Molecular Sieve for Acetylene Removal from Ethylene with Record Selectivity and Productivity. <i>Advanced Materials</i> , 2017, 29, 1704210.	11.1	310
116	A metal-organic framework functionalized with piperazine exhibiting enhanced CH <sub>4</sub> storage. <i>Journal of Materials Chemistry A</i> , 2017, 5, 349-354.	5.2	41
117	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
118	Structural and Dynamical Trends in Alkali-Metal Silanides Characterized by Neutron-Scattering Methods. <i>Journal of Physical Chemistry C</i> , 2016, 120, 21218-21227.	1.5	11
119	High methane storage and working capacities in a NbO-type metal-organic framework. <i>Dalton Transactions</i> , 2016, 45, 7559-7562.	1.6	32
120	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
121	A Fluorinated Metal-Organic Framework for High Methane Storage at Room Temperature. <i>Crystal Growth and Design</i> , 2016, 16, 3395-3399.	1.4	36
122	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
123	Liquid-Like Ionic Conduction in Solid Lithium and Sodium Monocarbide-Decaborates Near or at Room Temperature. <i>Advanced Energy Materials</i> , 2016, 6, 1502237.	10.2	190
124	Development of potential organic-molecule-based hydrogen storage materials: Converting C N bond-breaking thermolysis of guanidine to N H bond-breaking dehydrogenation. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 18542-18549.	3.8	5
125	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
126	A new family of metal borohydride guanidinate complexes: Synthesis, structures and hydrogen-storage properties. <i>Journal of Solid State Chemistry</i> , 2016, 242, 186-192.	1.4	12



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127	The low-temperature structural behavior of sodium 1-carba-closo-decaborate: NaCB <sub>9</sub> H <sub>10</sub> . Journal of Solid State Chemistry, 2016, 243, 162-167.	1.4	12
128	Structure-dependent vibrational dynamics of Mg(BH <sub>4</sub> ) <sub>2</sub> polymorphs probed with neutron vibrational spectroscopy and first-principles calculations. Physical Chemistry Chemical Physics, 2016, 18, 25546-25552.	1.3	16
129	Emerging Multifunctional Metal-Organic Framework Materials. Advanced Materials, 2016, 28, 8819-8860.	11.1	1,227
130	Porous Metal-Organic Frameworks: Promising Materials for Methane Storage. Chem, 2016, 1, 557-580.	5.8	297
131	Metal-Organic Frameworks as Platforms for Functional Materials. Accounts of Chemical Research, 2016, 49, 483-493.	7.6	1,403
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