

Hui Wu

List of Publications by Year in descending order

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171
papers

21,490
citations

11908

72
h-index

10679

143
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182
all docs

182
docs citations

182
times ranked

16622
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#	ARTICLE	IF	CITATIONS
1	Hydrogen-Bonded Metal-Nucleobase Frameworks for Efficient Separation of Xenon and Krypton. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	36
2	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
3	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
4	Photoresponsive Covalent Organic Frameworks with Diarylethene Switch for Tunable Singlet Oxygen Generation. <i>Chemistry of Materials</i> , 2022, 34, 1956-1964.	3.2	35
5	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
6	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
7	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
8	Electrostatically Driven Selective Adsorption of Carbon Dioxide over Acetylene in an Ultramicroporous Material. <i>Angewandte Chemie</i> , 2021, 133, 9690-9695.	1.6	15
9	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
10	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
11	Robust Biological Hydrogen-Bonded Organic Framework with Post-Functionalized Rhenium(I) Sites for Efficient Heterogeneous Visible-Light-Driven CO ₂ Reduction. <i>Angewandte Chemie</i> , 2021, 133, 9065-9071.	1.6	23
12	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
13	A Distinct Spin Structure and Giant Baromagnetic Effect in MnNiGe Compounds with Fe-Doping. <i>Journal of the American Chemical Society</i> , 2021, 143, 6798-6804.	6.6	6
14	Mechanochemical Synthesis of Pt/Nb ₂ CT _x MXene Composites for Enhanced Electrocatalytic Hydrogen Evolution. <i>Materials</i> , 2021, 14, 2426.	1.3	15
15	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
16	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
17	Polymorphism of Calcium Decahydrido-closo-decaborate and Characterization of Its Hydrates. <i>Inorganic Chemistry</i> , 2021, 60, 10943-10957.	1.9	6
18	Developing Ideal Metalorganic Hydrides for Hydrogen Storage: From Theoretical Prediction to Rational Fabrication. , 2021, 3, 1417-1425.		13

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19	Highly Selective Adsorption of Carbon Dioxide over Acetylene in an Ultramicroporous Metal-Organic Framework. <i>Advanced Materials</i> , 2021, 33, e2105880.	11.1	66
20	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
21	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
22	Structural and reorientational dynamics of tetrahydroborate (BH ₄ ⁻) and tetrahydrofuran (THF) in a Mg(BH ₄) ₂ ·3THF adduct: neutron-scattering characterization. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 368-378.	1.3	6
23	Cone-spiral magnetic ordering dominated lattice distortion and giant negative thermal expansion in Fe-doped MnNiGe compounds. <i>Materials Horizons</i> , 2020, 7, 804-810.	6.4	19
24	Metallo-N-Heterocycles - A new family of hydrogen storage material. <i>Energy Storage Materials</i> , 2020, 26, 198-202.	9.5	22
25	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
26	Effect of H ₂ O Molecules on Thermal Expansion of TiCo(CN) ₆ . <i>Inorganic Chemistry</i> , 2020, 59, 14852-14855.	1.9	27
27	Structural and Dynamical Properties of Potassium Dodecahydro-monocarbido-closo-dodecaborate: KCB ₁₁ H ₁₂ . <i>Journal of Physical Chemistry C</i> , 2020, 124, 17992-18002.	1.5	24
28	Large nonlinear optical effect in tungsten bronze structures via Li/Na cross-substitutions. <i>Chemical Communications</i> , 2020, 56, 8384-8387.	2.2	3
29	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
30	Strong Second Harmonic Generation in a Tungsten Bronze Oxide by Enhancing Local Structural Distortion. <i>Journal of the American Chemical Society</i> , 2020, 142, 7480-7486.	6.6	33
31	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
32	Large Enhancement of Magnetocaloric and Barocaloric Effects by Hydrostatic Pressure in La(Fe _{0.92} Co _{0.08}) _{11.9} Si _{1.1} with a NaZn ₁₃ -Type Structure. <i>Chemistry of Materials</i> , 2020, 32, 1807-1818.	3.2	23
33	Neutron diffraction study on hydrostatic pressure regulated magnetostructural transition and magnetocaloric effect in MnNi _{1-x} Fe _x Si _{1-y} Gey alloys. <i>Journal of Applied Physics</i> , 2020, 127, 133905.	1.1	4
34	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
35	A calix[4]resorcinarene-based giant coordination cage: controlled assembly and iodine uptake. <i>Chemical Communications</i> , 2020, 56, 2491-2494.	2.2	28
36	Low-Temperature Rotational Tunneling of Tetrahydroborate Anions in Lithium Benimidazolate-Borohydride Li ₂ (blm)BH ₄ . <i>Journal of Physical Chemistry C</i> , 2019, 123, 20789-20799.	1.5	6

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37	Elucidating J-Aggregation Effect in Boosting Singlet-Oxygen Evolution Using Zirconiumâ€“Porphyrin Frameworks: A Comprehensive Structural, Catalytic, and Spectroscopic Study. ACS Applied Materials & Interfaces, 2019, 11, 45118-45125.	4.0	29
38	A metalâ€“organic framework with suitable pore size and dual functionalities for highly efficient post-combustion CO ₂ capture. Journal of Materials Chemistry A, 2019, 7, 3128-3134.	5.2	124
39	Postsynthetic Metalation of a Robust Hydrogen-Bonded Organic Framework for Heterogeneous Catalysis. Journal of the American Chemical Society, 2019, 141, 8737-8740. Structural evolution and phase diagram of the superconducting iron selenides L	6.6	178
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55	Molecular sieving of ethylene from ethane using a rigid metal-organic framework. <i>Nature Materials</i> , 2018, 17, 1128-1133.	13.3	532
56	Ethane/ethylene separation in a metal-organic framework with iron-peroxo sites. <i>Science</i> , 2018, 362, 443-446.	6.0	763
57	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
58	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
59	Highly Dispersed Platinum on Honeycomb-like NiO@Ni Film as a Synergistic Electrocatalyst for the Hydrogen Evolution Reaction. <i>ACS Catalysis</i> , 2018, 8, 8866-8872.	5.5	141
60	Nature of Decahydro-closo-decaborate Anion Reorientations in an Ordered Alkali-Metal Salt: $Rb_2B_{10}H_{10}$. <i>Journal of Physical Chemistry C</i> , 2018, 122, 15198-15207.	1.5	9
61	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
62	Switching Between Giant Positive and Negative Thermal Expansions of a $YFe(CN)_6$ -based Prussian Blue Analogue Induced by Guest Species. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 9023-9028.	7.2	101
63	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
64	Ultrahigh and Selective SO_2 Uptake in Inorganic Anion-pillared Hybrid Porous Materials. <i>Advanced Materials</i> , 2017, 29, 1606929.	11.1	183
65	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
66	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
67	Comparison of the Coordination of $B_{12}F_{12}^{2-}$, $B_{12}Cl_{12}^{2-}$, and $B_{12}H_{12}^{2-}$ to Na^+ in the Solid State: Crystal Structures and Thermal Behavior of $Na_2(B_{12}F_{12})$, $Na_2(B_{12}Cl_{12})$, and $Na_2(B_{12}H_{12})$.	1.9	34
68	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
69	Construction of ntt-Type Metal-Organic Framework from C_2 -Symmetry Hexacarboxylate Linker for Enhanced Methane Storage. <i>Crystal Growth and Design</i> , 2017, 17, 4795-4800.	1.4	13
70	Latent Porosity in Alkali-Metal $M_2B_{12}F_{12}$ Salts: Structures and Rapid Room-Temperature Hydration/Dehydration Cycles. <i>Inorganic Chemistry</i> , 2017, 56, 12023-12041.	1.9	13
71	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
72	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

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73	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
74	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
75	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
76	High- T_c superconducting phases in organic molecular intercalated iron selenides: synthesis and crystal structures. <i>Chemical Communications</i> , 2017, 53, 9729-9732.	2.2	39
77	Order-Disorder Transitions and Superionic Conductivity in the Sodium $\text{Na}_{1-x}\text{Undeca}(\text{carba})\text{borates}$. <i>Chemistry of Materials</i> , 2017, 29, 10496-10509.	3.2	53
78	An Ideal Molecular Sieve for Acetylene Removal from Ethylene with Record Selectivity and Productivity. <i>Advanced Materials</i> , 2017, 29, 1704210.	11.1	310
79	Switching Between Giant Positive and Negative Thermal Expansions of a $\text{YFe}(\text{CN})_6$ -based Prussian Blue Analogue Induced by Guest Species. <i>Angewandte Chemie</i> , 2017, 129, 9151-9156.	1.6	5
80	Ultra-low thermal expansion realized in giant negative thermal expansion materials through self-compensation. <i>APL Materials</i> , 2017, 5, .	2.2	15
81	Baromagnetic Effect in Antiperovskite $\text{Mn}_3\text{Ga}_{0.95}\text{N}_{0.94}$ by Neutron Powder Diffraction Analysis. <i>Advanced Materials</i> , 2016, 28, 3761-3767.	11.1	59
82	Near-zero temperature coefficient of resistivity associated with magnetic ordering in antiperovskite $\text{Mn}_{3+x}\text{Ni}_{1-x}\text{N}$. <i>Applied Physics Letters</i> , 2016, 108, .	1.5	18
83	Stabilizing lithium and sodium fast-ion conduction in solid polyhedral-borate salts at device-relevant temperatures. <i>Energy Storage Materials</i> , 2016, 4, 79-83.	9.5	94
84	Thermal Expansion and Second Harmonic Generation Response of the Tungsten Bronze $\text{Pb}_2\text{AgNb}_5\text{O}_{15}$. <i>Inorganic Chemistry</i> , 2016, 55, 2864-2869.	1.9	10
85	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
86	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
87	Liquid-Like Ionic Conduction in Solid Lithium and Sodium Monocarba-Decaborates Near or at Room Temperature. <i>Advanced Energy Materials</i> , 2016, 6, 1502237.	10.2	190
88	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
89	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
90	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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91	The low-temperature structural behavior of sodium 1-carba-closo-decaborate: NaCB ₉ H ₁₀ . Journal of Solid State Chemistry, 2016, 243, 162-167.	1.4	12
92	Hydrogen carriers. Nature Reviews Materials, 2016, 1, .	23.3	602
93	New Insights into the Negative Thermal Expansion: Direct Experimental Evidence for the "Guitar-String" Effect in Cubic ScF ₃ . Journal of the American Chemical Society, 2016, 138, 8320-8323.	6.6	115
94	Fast lithium-ionic conduction in a new complex hydride "sulphide crystalline phase. Chemical Communications, 2016, 52, 564-566.	2.2	40
95	A Rod Packing Microporous Hydrogen-Bonded Organic Framework for Highly Selective Separation of C ₂ H ₂ /CO ₂ at Room Temperature. Angewandte Chemie - International Edition, 2015, 54, 574-577.	7.2	289
96	Giant barocaloric effect in hexagonal Ni ₂ In-type Mn-Co-Ge-In compounds around room temperature. Scientific Reports, 2015, 5, 18027.	1.6	103
97	Giant Magnetoresistance in the Half-Metallic Double-Perovskite Ferrimagnet Mn ₂ FeReO ₆ . Angewandte Chemie - International Edition, 2015, 54, 12069-12073.	7.2	100
98	Microporous metal-organic framework with dual functionalities for highly efficient removal of acetylene from ethylene/acetylene mixtures. Nature Communications, 2015, 6, 7328.	5.8	404
99	Giant Negative Thermal Expansion in Bonded MnCoGe-Based Compounds with Ni ₂ In-Type Hexagonal Structure. Journal of the American Chemical Society, 2015, 137, 1746-1749.	6.6	161
100	An Iodide-Based Li ₇ P ₂ S ₈ I Superionic Conductor. Journal of the American Chemical Society, 2015, 137, 1384-1387.	6.6	298
101	Invar-like Behavior of Antiperovskite Mn _{3+x} Ni _{1-x} N Compounds. Chemistry of Materials, 2015, 27, 2495-2501.	3.2	77
102	A Flexible Microporous Hydrogen-Bonded Organic Framework for Gas Sorption and Separation. Journal of the American Chemical Society, 2015, 137, 9963-9970.	6.6	360
103	Porous metal-organic frameworks with Lewis basic nitrogen sites for high-capacity methane storage. Energy and Environmental Science, 2015, 8, 2504-2511.	15.6	126
104	Lithium amidoborane hydrazinates: synthesis, structure and hydrogen storage properties. Journal of Materials Chemistry A, 2015, 3, 10100-10106.	5.2	10
105	Structural Behavior of Li ₂ B ₁₀ H ₁₀ . Journal of Physical Chemistry C, 2015, 119, 6481-6487.	1.5	40
106	The structure of monoclinic Na ₂ B ₁₀ H ₁₀ : a combined diffraction, spectroscopy, and theoretical approach. CrystEngComm, 2015, 17, 3533-3540.	1.3	27
107	Unparalleled lithium and sodium superionic conduction in solid electrolytes with large monovalent cage-like anions. Energy and Environmental Science, 2015, 8, 3637-3645.	15.6	235
108	Frustrated Triangular Magnetic Structures of Mn ₃ ZnN: Applications in Thermal Expansion. Journal of Physical Chemistry C, 2015, 119, 24983-24990.	1.5	23

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109	Synthesis, structures and dehydrogenation of magnesium borohydride-ethylene diamine composites. International Journal of Hydrogen Energy, 2015, 40, 412-419.	3.8	28
110	Lithiated Primary Amine- A New Material for Hydrogen Storage. Chemistry - A European Journal, 2014, 20, 6632-6635.	1.7	15
111	Structure and thermal expansion of the tungsten bronze $Pb_2KNb_5O_{15}$. Dalton Transactions, 2014, 43, 7037-7043.	1.6	28
112	An ammonia-stabilized mixed-cation borohydride: synthesis, structure and thermal decomposition behavior. Physical Chemistry Chemical Physics, 2014, 16, 135-143.	1.3	35
113	Exceptional Superionic Conductivity in Disordered Sodium Decahydrodecaborate. Advanced Materials, 2014, 26, 7622-7626.	11.1	221
114	Synthesis, Thermal Behavior, and Dehydrogenation Kinetics Study of Lithiated Ethylenediamine. Chemistry - A European Journal, 2014, 20, 13636-13643.	1.7	13
115	Alkali Metal Hydride Modification on Hydrazine Borane for Improved Dehydrogenation. Journal of Physical Chemistry C, 2014, 118, 11244-11251.	1.5	28
116	A Porous Metal-Organic Framework with Dynamic Pyrimidine Groups Exhibiting Record High Methane Storage Working Capacity. Journal of the American Chemical Society, 2014, 136, 6207-6210.	6.6	311
117	Ordered Structure and Thermal Expansion in Tungsten Bronze $Pb_2K_{0.5}Li_{0.5}Nb_5O_{15}$. Inorganic Chemistry, 2014, 53, 9174-9180.	1.9	26
118	Phase transitions and magnetocaloric effect in $Mn_3Cu_{0.89}Ni_{0.96}$. Acta Materialia, 2014, 74, 58-65.	3.8	46
119	Structure and Magnetic Properties of the $\sqrt{2} \times \sqrt{2}$ -Type Honeycomb Compound $Na_3Ni_2BiO_6$. Inorganic Chemistry, 2013, 52, 13605-13611.	1.9	65
120	Metal cation-promoted hydrogen generation in activated aluminium borohydride ammoniates. Acta Materialia, 2013, 61, 4787-4796.	3.8	28
121	Exceptional Mechanical Stability of Highly Porous Zirconium Metal-Organic Framework UiO-66 and Its Important Implications. Journal of Physical Chemistry Letters, 2013, 4, 925-930.	2.1	361
122	Nanoconfined ammonia borane in a flexible metal-organic framework Fe-MIL-53: clean hydrogen release with fast kinetics. Journal of Materials Chemistry A, 2013, 1, 4167.	5.2	66
123	Alkali and alkaline-earth metal borohydride hydrazinates: synthesis, structures and dehydrogenation. Physical Chemistry Chemical Physics, 2013, 15, 10487.	1.3	26
124	Evolution of the Reorientational Motions of the Tetrahydroborate Anions in Hexagonal $LiBH_4$ -LiI Solid Solution by High-Quasielastic Neutron Scattering. Journal of Physical Chemistry C, 2013, 117, 12010-12018.	1.5	37
125	Unusual and Highly Tunable Missing-Linker Defects in Zirconium Metal-Organic Framework UiO-66 and Their Important Effects on Gas Adsorption. Journal of the American Chemical Society, 2013, 135, 10525-10532.	6.6	1,148
126	$Li_2(NH_2BH_3)(BH_4)/LiNH_2BH_3$: The first metal amidoborane borohydride complex with inseparable amidoborane precursor for hydrogen storage. International Journal of Hydrogen Energy, 2013, 38, 197-204.	3.8	11

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127	A simple and efficient approach to synthesize amidoborane ammoniates: case study for $\text{Mg}(\text{NH}_2\text{BH}_3)_2(\text{NH}_3)_3$ with unusual coordination structure. <i>Journal of Materials Chemistry</i> , 2012, 22, 13174.	6.7	19
128	Monoammoniate of Calcium Amidoborane: Synthesis, Structure, and Hydrogen-Storage Properties. <i>Inorganic Chemistry</i> , 2012, 51, 1599-1603.	1.9	33
129	Microporous metal-organic framework with potential for carbon dioxide capture at ambient conditions. <i>Nature Communications</i> , 2012, 3, 954.	5.8	716
130	Raman, FTIR, Photoacoustic-Infrared, and Inelastic Neutron Scattering Spectra of Ternary Metal Hydride Salts A_{2MH_5} , (A = Ca, Sr, Eu; M = Ir, Rh) and Their Deuterides. <i>Journal of Physical Chemistry A</i> , 2012, 116, 2490-2496.	1.1	4
131	$\text{LiBH}_4\cdot\text{NH}_3\text{BH}_3$: A new lithium borohydride ammonia borane compound with a novel structure and favorable hydrogen storage properties. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 10750-10757.	3.8	34
132	Structures of the strontium and barium dodecahydro-closo-dodecaborates. <i>Journal of Alloys and Compounds</i> , 2012, 514, 71-75.	2.8	16
133	Metal hydrazinoborane $\text{Li}_2\text{N}_2\text{H}_3\text{BH}_3$ and $\text{Li}_2\text{N}_2\text{H}_3\text{BH}_3\cdot 2\text{N}_2\text{H}_4\text{BH}_3$: crystal structures and high-extent dehydrogenation. <i>Energy and Environmental Science</i> , 2012, 5, 7531.	15.6	56
134	Borohydride hydrazinates: high hydrogen content materials for hydrogen storage. <i>Energy and Environmental Science</i> , 2012, 5, 5686-5689.	15.6	68
135	A robust microporous metal-organic framework constructed from a flexible organic linker for highly selective sorption of methanol over ethanol and water. <i>Journal of Materials Chemistry</i> , 2012, 22, 10352.	6.7	18
136	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
137	Sodium magnesium amidoborane: the first mixed-metal amidoborane. <i>Chemical Communications</i> , 2011, 47, 4102.	2.2	71
138	Carbon capture in metal-organic frameworks—a comparative study. <i>Energy and Environmental Science</i> , 2011, 4, 2177.	15.6	354
139	Evidence of a transition to reorientational disorder in the cubic alkali-metal dodecahydro-closo-dodecaborates. <i>Journal of Solid State Chemistry</i> , 2011, 184, 3110-3116.	1.4	27
140	Dehydrogenation Tuning of Ammine Borohydrides Using Double-Metal Cations. <i>Journal of the American Chemical Society</i> , 2011, 133, 4690-4693.	6.6	103
141	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
142	Nanoconfinement and Catalytic Dehydrogenation of Ammonia Borane by Magnesium-Metal-Organic Framework. <i>Chemistry - A European Journal</i> , 2011, 17, 6043-6047.	1.7	90
143	Low-temperature tunneling and rotational dynamics of the ammonium cations in $(\text{NH}_4)_2\text{B}_{12}\text{H}_{12}$. <i>Journal of Chemical Physics</i> , 2011, 135, 094501.	1.2	16
144	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

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145	Metal-Organic Frameworks with Exceptionally High Methane Uptake: Where and How is Methane Stored?. <i>Chemistry - A European Journal</i> , 2010, 16, 5205-5214.	1.7	227
146	Structural stability and elastic properties of prototypical covalent organic frameworks. <i>Chemical Physics Letters</i> , 2010, 499, 103-107.	1.2	62
147	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
148	Size effects on the hydrogen storage properties of nanoscaffolded Li ₃ BN ₂ H ₈ . <i>Nanotechnology</i> , 2009, 20, 204002.	1.3	36
149	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
150	Crystal Chemistry and Dehydrogenation/Rehydrogenation Properties of Perovskite Hydrides RbMgH ₃ and RbCaH ₃ . <i>Journal of Physical Chemistry C</i> , 2009, 113, 15091-15098.	1.5	23
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