

Supercritical Processing as a Route to High Internal Surface Microporosity in Metal-Organic Framework Materials

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Citation Report

#	ARTICLE	IF	CITATIONS
7	Freeze Drying Significantly Increases Permanent Porosity and Hydrogen Uptake in 4,4'-Connected Metal-Organic Frameworks. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 9905-9908.	7.2	203
8	Potential applications of metal-organic frameworks. <i>Coordination Chemistry Reviews</i> , 2009, 253, 3042-3066.	9.5	1,422
9	Improving pore performance. <i>Nature Chemistry</i> , 2009, 1, 26-27.	6.6	68
10	Adsorption of CO ₂ on Co ₃ [Co(CN) ₆] ₂ using DRIFTS. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2009, 74, 629-634.	2.0	13
11	Strategies for Characterization of Large-Pore Metal-Organic Frameworks by Combined Experimental and Computational Methods. <i>Chemistry of Materials</i> , 2009, 21, 4768-4777.	3.2	68
12	Metal-organic framework (MOF) aerogels with high micro- and macroporosity. <i>Chemical Communications</i> , 2009, , 6056.	2.2	248
13	New Prototype Isoreticular Metal-Organic Framework Zn ₄ O(FMA) ₃ for Gas Storage. <i>Inorganic Chemistry</i> , 2009, 48, 4649-4651.	1.9	72
14	Stabilization of Metal-Organic Frameworks with High Surface Areas by the Incorporation of Mesocavities with Microwindows. <i>Journal of the American Chemical Society</i> , 2009, 131, 9186-9188.	6.6	316
15	Highly Porous Metal-Organic Framework Containing a Novel Organosilicon Linker - A Promising Material for Hydrogen Storage. <i>Inorganic Chemistry</i> , 2009, 48, 6559-6565.	1.9	60
16	Predicting microporous crystalline polyimides. <i>CrystEngComm</i> , 2009, 11, 1819.	1.3	32
17	A Framework for Predicting Surface Areas in Microporous Coordination Polymers. <i>Langmuir</i> , 2010, 26, 5808-5814.	1.6	63
18	Functionalized graphene and graphene oxide solution via polyacrylate coating. <i>Nanoscale</i> , 2010, 2, 2777.	2.8	71
19	Control over Catenation in Metal-Organic Frameworks via Rational Design of the Organic Building Block. <i>Journal of the American Chemical Society</i> , 2010, 132, 950-952.	6.6	344
20	Hydrogen Storage on Carbon-Based Adsorbents and Storage at Ambient Temperature by Hydrogen Spillover. <i>Catalysis Reviews - Science and Engineering</i> , 2010, 52, 411-461.	5.7	139
21	[Cu ₄ OCl ₆ (DABCO) ₂] <u>0.5</u> DABCO <u>4</u> CH ₃ OH (M ⁵): Modular synthesis of a zeolite-like metal-organic framework constructed from tetrahedral {Cu ₄ OCl ₆ } secondary building units and linear organic linkers. <i>Journal of Solid State Chemistry</i> , 2010, 183, 208-217.	1.4	17
22	Designing Heterogeneous Catalysts by Incorporating Enzyme-Like Functionalities into MOFs. <i>Topics in Catalysis</i> , 2010, 53, 859-868.	1.3	73
23	Synthesis, Structure, Characterization, and Redox Properties of the Porous MIL-68(Fe) Solid. <i>European Journal of Inorganic Chemistry</i> , 2010, 2010, 3789-3794.	1.0	191
24	Flexibility and Sorption Selectivity in Rigid Metal-Organic Frameworks: The Impact of Ether-Functionalised Linkers. <i>Chemistry - A European Journal</i> , 2010, 16, 14296-14306.	1.7	128

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27	An Isorecticular Series of Metal-Organic Frameworks with Dendritic Hexacarboxylate Ligands and Exceptionally High Gas Uptake Capacity. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 5357-5361.	7.2	677
28	A Highly Porous Metal-Organic Framework with Open Nickel Sites. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 8489-8492.	7.2	149
29	Porosity tuning of carborane-based metal-organic frameworks (MOFs) via coordination chemistry and ligand design. <i>Inorganica Chimica Acta</i> , 2010, 364, 266-271.	1.2	64
30	Synthesis of COF-5 using microwave irradiation and conventional solvothermal routes. <i>Microporous and Mesoporous Materials</i> , 2010, 132, 132-136.	2.2	93
31	Facile preparation of high-capacity hydrogen storage metal-organic frameworks: A combination of microwave-assisted solvothermal synthesis and supercritical activation. <i>Chemical Engineering Science</i> , 2010, 65, 3140-3146.	1.9	81
32	A series of isorecticular chiral metal-organic frameworks as a tunable platform for asymmetric catalysis. <i>Nature Chemistry</i> , 2010, 2, 838-846.	6.6	813
33	De novo synthesis of a metal-organic framework material featuring ultrahigh surface area and gas storage capacities. <i>Nature Chemistry</i> , 2010, 2, 944-948.	6.6	1,535
35	Methane adsorption in several series of newly synthesised metal-organic frameworks: a molecular simulation study. <i>Molecular Simulation</i> , 2010, 36, 682-692.	0.9	12
36	Rational Design, Synthesis, Purification, and Activation of Metal-Organic Framework Materials. <i>Accounts of Chemical Research</i> , 2010, 43, 1166-1175.	7.6	1,259
37	Concentration-Driven Evolution of Crystal Structure, Pore Characteristics, and Hydrogen Storage Capacity of Metal Organic Framework-5s: Experimental and Computational Studies. <i>Chemistry of Materials</i> , 2010, 22, 6138-6145.	3.2	18
38	Structural Analysis and Thermal Behavior of Pore Networks in High-Surface-Area Metal-Organic Framework. <i>Journal of Physical Chemistry C</i> , 2010, 114, 7014-7020.	1.5	21
39	Multiscale simulation and modelling of adsorptive processes for energy gas storage and carbon dioxide capture in porous coordination frameworks. <i>Energy and Environmental Science</i> , 2010, 3, 1469.	15.6	138
40	Functionalization of UiO-66 Metal-Organic Framework and Highly Cross-Linked Polystyrene with Cr(CO) ₃ : In Situ Formation, Stability, and Photoreactivity. <i>Chemistry of Materials</i> , 2010, 22, 4602-4611.	3.2	120
41	Introduction of cavities up to 4 nm into a hierarchically-assembled metal-organic framework using an angular, tetratopic ligand. <i>Chemical Communications</i> , 2010, 46, 5223.	2.2	39
42	Adsorption Mechanism and Uptake of Methane in Covalent Organic Frameworks: Theory and Experiment. <i>Journal of Physical Chemistry A</i> , 2010, 114, 10824-10833.	1.1	177
43	Porous Coordination Polymers of Transition Metal Sulfides with PtS Topology Built on a Semirigid Tetrahedral Linker. <i>Inorganic Chemistry</i> , 2010, 49, 7685-7691.	1.9	48
44	Grand-Canonical Monte Carlo and Molecular-Dynamics Simulations of Carbon-Dioxide and Carbon-Monoxide Adsorption in Zeolitic Imidazolate Framework Materials. <i>Journal of Physical Chemistry C</i> , 2010, 114, 2171-2178.	1.5	83
45	Ultrahigh Porosity in Metal-Organic Frameworks. <i>Science</i> , 2010, 329, 424-428.	6.0	3,306

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46	Rational synthesis of a microporous metal-organic framework with PtS topology using a semi-rigid tetrahedral linker. <i>CrystEngComm</i> , 2010, 12, 2008.	1.3	38
47	Interaction of Molecular Hydrogen with Microporous Metal Organic Framework Materials at Room Temperature. <i>Journal of the American Chemical Society</i> , 2010, 132, 1654-1664.	6.6	88
48	Microporous La(III) Metal-Organic Framework Using a Semirigid Tricarboxylic Ligand: Synthesis, Single-Crystal to Single-Crystal Sorption Properties, and Gas Adsorption Studies. <i>Crystal Growth and Design</i> , 2010, 10, 3410-3417.	1.4	68
49	Metal-organic frameworks with designed chiral recognition sites. <i>Chemical Communications</i> , 2010, 46, 4911.	2.2	82
50	A Porous Metal-Organic Replica of PbO_2 for Capture of Nerve Agent Surrogate. <i>Journal of the American Chemical Society</i> , 2010, 132, 17996-17999.	6.6	66
51	Predicting crystalline polyamic acids as precursors to porous polyimides. <i>CrystEngComm</i> , 2010, 12, 2315.	1.3	9
52	Synthesis and Stability of Tagged UiO-66 Zr-MOFs. <i>Chemistry of Materials</i> , 2010, 22, 6632-6640.	3.2	1,547
53	Mechanochemical Synthesis of Metal-Organic Frameworks: A Fast and Facile Approach toward Quantitative Yields and High Specific Surface Areas. <i>Chemistry of Materials</i> , 2010, 22, 5216-5221.	3.2	445
54	Metal organic gels (MOGs): a new class of sorbents for CO ₂ separation applications. <i>Journal of Materials Chemistry</i> , 2010, 20, 7623.	6.7	80
55	Gas-Induced Expansion and Contraction of a Fluorinated Metal-Organic Framework. <i>Crystal Growth and Design</i> , 2010, 10, 1037-1039.	1.4	152
56	Topologies of Metal-Organic Frameworks Based on Pyrimidine-5-carboxylate and Unexpected Gas-Sorption Selectivity for CO ₂ . <i>Inorganic Chemistry</i> , 2010, 49, 10833-10839.	1.9	35
57	X-ray absorption spectroscopies: useful tools to understand metallorganic frameworks structure and reactivity. <i>Chemical Society Reviews</i> , 2010, 39, 4885.	18.7	130
58	Architecture of europium complexes with sulfobenzenedicarboxylates. <i>CrystEngComm</i> , 2010, 12, 3145.	1.3	30
59	Monitoring the Activation Process of the Giant Pore MIL-100(Al) by Solid State NMR. <i>Journal of Physical Chemistry C</i> , 2011, 115, 17934-17944.	1.5	70
60	High-Pressure in Situ ¹²⁹ Xe NMR Spectroscopy and Computer Simulations of Breathing Transitions in the Metal-Organic Framework Ni ₂ (2,6-ndc) ₂ (dabco) (DUT-8(Ni)). <i>Journal of the American Chemical Society</i> , 2011, 133, 8681-8690.	6.6	113
61	A General Thermolabile Protecting Group Strategy for Organocatalytic Metal-Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2011, 133, 5806-5809.	6.6	307
62	Characterisation of porous hydrogen storage materials: carbons, zeolites, MOFs and PIMs. <i>Faraday Discussions</i> , 2011, 151, 75.	1.6	75
63	Porous metal-organic frameworks as platforms for functional applications. <i>Chemical Communications</i> , 2011, 47, 3351.	2.2	798

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64	Aromatic, microporous polymer networks with high surface area generated in Friedelâ€“Crafts-type polycondensations. <i>Polymer Chemistry</i> , 2011, 2, 2186.	1.9	46
65	Control of catenation in CuTATB-n metalâ€“organic frameworks by sonochemical synthesis and its effect on CO ₂ adsorption. <i>Journal of Materials Chemistry</i> , 2011, 21, 3070.	6.7	225
66	Selective CO ₂ adsorption in a flexible non-interpenetrated metalâ€“organic framework. <i>Chemical Communications</i> , 2011, 47, 4258.	2.2	129
67	Pore with gate: modulating hydrogen storage in metal-organic framework materials via cation exchange. <i>Faraday Discussions</i> , 2011, 151, 19.	1.6	48
68	Porous organic molecular solids by dynamic covalent scrambling. <i>Nature Communications</i> , 2011, 2, 207.	5.8	155
69	Asymmetric Catalysis with Chiral Porous Metalâ€“Organic Frameworks: Critical Issues. <i>Journal of Physical Chemistry Letters</i> , 2011, 2, 1701-1709.	2.1	125
70	A non-interpenetrated porous metalâ€“organic framework with high gas-uptake capacity. <i>Chemical Communications</i> , 2011, 47, 9861.	2.2	106
71	Reconciling the Discrepancies between Crystallographic Porosity and Guest Access As Exemplified by Zn-HKUST-1. <i>Journal of the American Chemical Society</i> , 2011, 133, 18257-18263.	6.6	195
72	The current status of hydrogen storage in metalâ€“organic frameworksâ€”updated. <i>Energy and Environmental Science</i> , 2011, 4, 2721.	15.6	429
73	Hydrogen Uptake by {H[Mg(HCOO) ₃] ₂ âŠƒNHMe ₂ } ₂ and Determination of Its H ₂ Adsorption Sites through Monte Carlo Simulations. <i>Langmuir</i> , 2011, 27, 10124-10131.	1.6	21
74	Post-Synthesis Modification of a Metalâ€“Organic Framework To Form Metallosalen-Containing MOF Materials. <i>Journal of the American Chemical Society</i> , 2011, 133, 13252-13255.	6.6	243
75	Disclosing the Complex Structure of UiO-66 Metal Organic Framework: A Synergic Combination of Experiment and Theory. <i>Chemistry of Materials</i> , 2011, 23, 1700-1718.	3.2	1,420
76	Complete Series of Monohalogenated Isoreticular Metalâ€“Organic Frameworks: Synthesis and the Importance of Activation Method. <i>Crystal Growth and Design</i> , 2011, 11, 4309-4312.	1.4	53
77	Active-Site-Accessible, Porphyrinic Metalâ€“Organic Framework Materials. <i>Journal of the American Chemical Society</i> , 2011, 133, 5652-5655.	6.6	415
78	Selective Surface and Near-Surface Modification of a Noncatenated, Catalytically Active Metal-Organic Framework Material Based on Mn(salen) Struts. <i>Inorganic Chemistry</i> , 2011, 50, 3174-3176.	1.9	111
79	A highly porous flexible Metalâ€“Organic Framework with corundum topology. <i>Chemical Communications</i> , 2011, 47, 490-492.	2.2	57
80	Synthesis of MOF having functional side group. <i>Inorganica Chimica Acta</i> , 2011, 370, 76-81.	1.2	14
82	Coordination Chemistry of Thiazole-Based Ligands: New Complexes Generating 3D Hydrogen-Bonded Architectures. <i>European Journal of Inorganic Chemistry</i> , 2011, 2011, 539-548.	1.0	23

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84	Metal-Organic Framework Nanospheres with Well-Ordered Mesopores Synthesized in an Ionic Liquid/CO ₂ /Surfactant System. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 636-639.	7.2	280
85	A Highly Porous Metal-Organic Framework: Structural Transformations of a Guest-Free MOF Depending on Activation Method and Temperature. <i>Chemistry - A European Journal</i> , 2011, 17, 7251-7260.	1.7	145
86	Flexible Metal-Organic Framework with Hydrophobic Pores. <i>Chemistry - A European Journal</i> , 2011, 17, 13653-13656.	1.7	56
87	Synthesis, structure and properties of microporous metal-organic frameworks constructed from Ni(II)/Cd(II), Tpt and H4bpta. <i>Inorganic Chemistry Communication</i> , 2011, 14, 1082-1085.	1.8	18
88	Reverse shape selectivity in the adsorption of hexane and xylene isomers in MOF UiO-66. <i>Microporous and Mesoporous Materials</i> , 2011, 139, 67-73.	2.2	257
89	Solid-State NMR Spectroscopy of Metal-Organic Framework Compounds (MOFs). <i>Materials</i> , 2012, 5, 2537-2572.	1.3	130
90	Fine-tuning the balance between crystallization and gelation and enhancement of CO ₂ uptake on functionalized calcium based MOFs and metallogels. <i>Journal of Materials Chemistry</i> , 2012, 22, 14951.	6.7	75
91	Giant metal-organic frameworks with bulky scaffolds: from microporous to mesoporous functional materials. <i>Dalton Transactions</i> , 2012, 41, 5437.	1.6	42
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93	Oxozinc carboxylates: a pre-designed platform for modelling prototypical Zn-MOFs' reactivity toward water and donor solvents. <i>Chemical Communications</i> , 2012, 48, 7362.	2.2	28
94	Structural diversity and properties of coordination polymers built from a semi-rigid tetradentate carboxylic acid. <i>CrystEngComm</i> , 2012, 14, 824-831.	1.3	22
95	Metal-Organic Framework Materials with Ultrahigh Surface Areas: Is the Sky the Limit?. <i>Journal of the American Chemical Society</i> , 2012, 134, 15016-15021.	6.6	1,497
96	Tuning MOF Stability and Porosity via Adding Rigid Pillars. <i>Inorganic Chemistry</i> , 2012, 51, 9649-9654.	1.9	79
97	Porosity in metal-organic frameworks following thermolytic postsynthetic deprotection: gas sorption, dye uptake and covalent derivatisation. <i>CrystEngComm</i> , 2012, 14, 5701.	1.3	32
98	Robust Metal-Organic Framework with An Octatopic Ligand for Gas Adsorption and Separation: Combined Characterization by Experiments and Molecular Simulation. <i>Chemistry of Materials</i> , 2012, 24, 18-25.	3.2	88
99	Progress in adsorption-based CO ₂ capture by metal-organic frameworks. <i>Chemical Society Reviews</i> , 2012, 41, 2308-2322.	18.7	1,205
100	Cytotoxicity and slow release of the anti-cancer drug doxorubicin from ZIF-8. <i>RSC Advances</i> , 2012, 2, 9437.	1.7	247
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104	Exceptional surface area from coordination copolymers derived from two linear linkers of differing lengths. <i>Chemical Science</i> , 2012, 3, 2429.	3.7	63
105	Metal-adeninate vertices for the construction of an exceptionally porous metal-organic framework. <i>Nature Communications</i> , 2012, 3, 604.	5.8	356
106	Photolabile protecting groups in metal-organic frameworks: preventing interpenetration and masking functional groups. <i>Chemical Communications</i> , 2012, 48, 1574-1576.	2.2	77
107	Designing Higher Surface Area Metal-Organic Frameworks: Are Triple Bonds Better Than Phenyls?. <i>Journal of the American Chemical Society</i> , 2012, 134, 9860-9863.	6.6	198
108	The effect of carboxylate and N,N'-ditopic ligand lengths on the structures of copper and zinc coordination polymers. <i>CrystEngComm</i> , 2012, 14, 3658.	1.3	46
109	Non-interpenetrated IRMOF-8: synthesis, activation, and gas sorption. <i>Chemical Communications</i> , 2012, 48, 9828.	2.2	49
110	High H ₂ Uptake in Li-, Na-, K-Metalated Covalent Organic Frameworks and Metal Organic Frameworks at 298 K. <i>Journal of Physical Chemistry A</i> , 2012, 116, 1621-1631.	1.1	72
111	Systematic morphology and phase control of Mg-ptcda coordination polymers by Ostwald ripening and self-templating. <i>Journal of Materials Chemistry</i> , 2012, 22, 8470.	6.7	23
112	Postsynthetic Methods for the Functionalization of Metal-Organic Frameworks. <i>Chemical Reviews</i> , 2012, 112, 970-1000.	23.0	1,986
113	Hydrogen Storage in Metal-Organic Frameworks. <i>Chemical Reviews</i> , 2012, 112, 782-835.	23.0	3,283
114	Post-Synthetic Modifications of Framework Metal Ions in Isostructural Metal-Organic Frameworks: Core-Shell Heterostructures via Selective Transmetalations. <i>Chemistry of Materials</i> , 2012, 24, 3065-3073.	3.2	192
115	Mesoporous metal-organic framework materials. <i>Chemical Society Reviews</i> , 2012, 41, 1677-1695.	18.7	830
116	Permanent Porous Materials from Discrete Organic Molecules Towards Ultra-High Surface Areas. <i>Chemistry - A European Journal</i> , 2012, 18, 10082-10091.	1.7	201
117	A robust microporous metal-organic framework constructed from a flexible organic linker for acetylene storage at ambient temperature. <i>Journal of Materials Chemistry</i> , 2012, 22, 10195.	6.7	55
119	Molecular Organic Crystals: From Barely Porous to Really Porous. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 7892-7894.	7.2	81
120	A Guest-Dependent Approach to Retain Permanent Pores in Flexible Metal-Organic Frameworks by Cation Exchange. <i>Chemistry - A European Journal</i> , 2012, 18, 7896-7902.	1.7	66
121	Vertex-directed self-assembly of a high symmetry supermolecular building block using a custom-designed porphyrin. <i>Chemical Science</i> , 2012, 3, 2823.	3.7	92

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122	Homochiral Metal-Organic Frameworks for Asymmetric Heterogeneous Catalysis. <i>Chemical Reviews</i> , 2012, 112, 1196-1231.	23.0	2,699
123	Structure-activity relationships of simple molecules adsorbed on CPO-27-Ni metal-organic framework: In situ experiments vs. theory. <i>Catalysis Today</i> , 2012, 182, 67-79.	2.2	67
124	Lithium doping on metal-organic frameworks for enhancing H ₂ Storage. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 946-950.	3.8	64
125	Amino-modified MIL-68(In) with enhanced hydrogen and carbon dioxide sorption enthalpy. <i>Microporous and Mesoporous Materials</i> , 2012, 157, 75-81.	2.2	88
126	A porous layered metal-organic framework from π - π -stacking of layers based on a Co ₆ building unit. <i>Microporous and Mesoporous Materials</i> , 2012, 157, 24-32.	2.2	9
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128	Supercritical fluids in fuel cell research and development. <i>Journal of Supercritical Fluids</i> , 2012, 62, 1-31.	1.6	45
129	Synthesis of nanostructured materials using supercritical CO ₂ : Part I. Physical transformations. <i>Journal of Materials Science</i> , 2012, 47, 2995-3025.	1.7	115
130	Hydrogen Storage in Metal-Organic Frameworks. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2013, 23, 270-285.	1.9	65
131	High CO ₂ -Capture Ability of a Porous Organic Polymer Bifunctionalized with Carboxy and Triazole Groups. <i>Chemistry - A European Journal</i> , 2013, 19, 11590-11597.	1.7	130
132	Carborane-Based Metal-Organic Framework with High Methane and Hydrogen Storage Capacities. <i>Chemistry of Materials</i> , 2013, 25, 3539-3543.	3.2	115
133	Nanostructured Adsorbents for Hydrogen Storage. , 2013, , 137-164.		6
134	Opening Metal-Organic Frameworks Vol. 2: Inserting Longer Pillars into Pillared-Paddlewheel Structures through Solvent-Assisted Linker Exchange. <i>Chemistry of Materials</i> , 2013, 25, 3499-3503.	3.2	109
135	Organosilicon linkers in metal organic frameworks: the tetrahedral tetrakis(4-tetrazolylphenyl)silane ligand. <i>Dalton Transactions</i> , 2013, 42, 13806.	1.6	16
136	Metal-Organic Frameworks as A Tunable Platform for Designing Functional Molecular Materials. <i>Journal of the American Chemical Society</i> , 2013, 135, 13222-13234.	6.6	801
137	Using hinged ligands to target structurally flexible copper(ii) MOFs. <i>CrystEngComm</i> , 2013, 15, 9663.	1.3	27
138	A Porous Metal-Organic Framework Constructed from Carboxylate-Pyrazolate Shared Heptanuclear Zinc Clusters: Synthesis, Gas Adsorption, and Guest-Dependent Luminescent Properties. <i>Inorganic Chemistry</i> , 2013, 52, 10368-10374.	1.9	82
139	An rht type metal-organic framework based on small cuboctahedron supermolecular building blocks and its gas adsorption properties. <i>New Journal of Chemistry</i> , 2013, 37, 3662.	1.4	21

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140	Mapping of Functional Groups in Metal-Organic Frameworks. <i>Science</i> , 2013, 341, 882-885.	6.0	411
141	Hydrogen and methane storage in ultrahigh surface area Metal-Organic Frameworks. <i>Microporous and Mesoporous Materials</i> , 2013, 182, 185-190.	2.2	36
142	Nanostructured adsorbents for hydrogen storage at ambient temperature: high-pressure measurements and factors influencing hydrogen spillover. <i>RSC Advances</i> , 2013, 3, 23935.	1.7	35
143	Activation of metal-organic framework materials. <i>CrystEngComm</i> , 2013, 15, 9258.	1.3	239
144	Carbothermal Reduction of Ti-Modified IRMOF-3: An Adaptable Synthetic Method to Support Catalytic Nanoparticles on Carbon. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 11479-11487.	4.0	63
145	Enhanced Catalytic Activity through the Tuning of Micropore Environment and Supercritical CO ₂ Processing: Al(Porphyrin)-Based Porous Organic Polymers for the Degradation of a Nerve Agent Simulant. <i>Journal of the American Chemical Society</i> , 2013, 135, 11720-11723.	6.6	147
146	Hybrid Bimetallic Metal-Organic Frameworks: Modulation of the Framework Stability and Ultralarge CO ₂ Uptake Capacity. <i>Inorganic Chemistry</i> , 2013, 52, 10869-10876.	1.9	77
147	Inclined 1D+2D polycatenation of chiral chains with large π -surfaces. <i>CrystEngComm</i> , 2013, 15, 8234.	1.3	29
148	Wings waving: coordinating solvent-induced structural diversity of new Cu(ii) flexible MOFs with crystal to crystal transformation and gas sorption capability. <i>CrystEngComm</i> , 2013, 15, 9513.	1.3	20
149	Significant improvement of surface area and CO ₂ adsorption of Cu-BTC via solvent exchange activation. <i>RSC Advances</i> , 2013, 3, 17065.	1.7	88
150	Post-synthetic incorporation of nickel into CPO-27(Mg) to give materials with enhanced permanent porosity. <i>CrystEngComm</i> , 2013, 15, 9779.	1.3	33
151	Synthesis of MOF having hydroxyl functional side groups and optimization of activation process for the maximization of its BET surface area. <i>Journal of Solid State Chemistry</i> , 2013, 197, 261-265.	1.4	26
152	Rapid and enhanced activation of microporous coordination polymers by flowing supercritical CO ₂ . <i>Chemical Communications</i> , 2013, 49, 1419.	2.2	63
153	A Straight Forward Route for the Development of Metal-Organic Frameworks Functionalized with Aromatic π -OH Groups: Synthesis, Characterization, and Gas (N ₂ , Ar, H ₂), Tj ETQq1 1 0.784314 rgBTj/Over 855-862.	1.9	107
154	Metal-Organic Frameworks and Self-Assembled Supramolecular Coordination Complexes: Comparing and Contrasting the Design, Synthesis, and Functionality of Metal-Organic Materials. <i>Chemical Reviews</i> , 2013, 113, 734-777.	23.0	2,588
155	Gram-scale, high-yield synthesis of a robust metal-organic framework for storing methane and other gases. <i>Energy and Environmental Science</i> , 2013, 6, 1158.	15.6	219
156	A novel photochromic calcium-based metal-organic framework derived from a naphthalene diimide chromophore. <i>Chemical Communications</i> , 2013, 49, 406-408.	2.2	173
157	Single-Crystal-to-Single-Crystal Transformation of a Novel 2-Fold Interpenetrated Cadmium-Organic Framework with Trimesate and 1,2-Bis(4-pyridyl)ethane into the Thermally Desolvated Form Which Exhibits Liquid and Gas Sorption Properties. <i>Crystal Growth and Design</i> , 2013, 13, 1526-1534.	1.4	30

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