

# Storage of Hydrogen, Methane, and Carbon Dioxide in F Frameworks for Clean Energy Applications

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Citation Report

#	ARTICLE	IF	CITATIONS
14	Reticular Chemistry and Metal-Organic Frameworks for Clean Energy. <i>MRS Bulletin</i> , 2009, 34, 682-690.	1.7	75
15	Channel-forming solvates of 6-chloro-2,5-dihydropyridine and its solvent-free tautomer 6-chloro-5-hydroxy-2-pyridone. <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 2009, 65, o529-o533.	0.4	4
16	An Ab Initio Force Field for Predicting Hydrogen Storage in IRMOF Materials. <i>Journal of Physical Chemistry C</i> , 2009, 113, 21815-21824.	1.5	47
17	Li <sub>2</sub> Si <sub>6</sub> O <sub>6</sub> H <sub>60</sub> Fullerene Composite: A Promising Hydrogen Storage Medium. <i>ACS Nano</i> , 2009, 3, 3294-3300.	7.3	45
18	Hydrogen Storage in Mesoporous Coordination Frameworks: Experiment and Molecular Simulation. <i>Journal of Physical Chemistry C</i> , 2009, 113, 15106-15109.	1.5	52
19	Hydrogen, Methane and Carbon Dioxide Adsorption in Metal-Organic Framework Materials. <i>Topics in Current Chemistry</i> , 2009, 293, 35-76.	4.0	110
20	Evaluation of Heterogeneous Metal-Organic Framework Organocatalysts Prepared by Postsynthetic Modification. <i>Inorganic Chemistry</i> , 2010, 49, 8086-8091.	1.9	114
21	Comparative Study of Separation Performance of COFs and MOFs for CH <sub>4</sub> /CO <sub>2</sub> /H <sub>2</sub> Mixtures. <i>Industrial &amp; Engineering Chemistry Research</i> , 2010, 49, 2902-2906.	1.8	88
22	MOFs, MILs and more: concepts, properties and applications for porous coordination networks (PCNs). <i>New Journal of Chemistry</i> , 2010, 34, 2366.	1.4	1,039
23	Doping of Alkali, Alkaline-Earth, and Transition Metals in Covalent-Organic Frameworks for Enhancing CO <sub>2</sub> Capture by First-Principles Calculations and Molecular Simulations. <i>ACS Nano</i> , 2010, 4, 4225-4237.	7.3	206
24	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
25	Synthesis and textural characterization of covalent organic framework-1: Comparison of pore size distribution models. <i>Materials Chemistry and Physics</i> , 2010, 123, 5-8.	2.0	19
26	Template-free synthesis of crystalline polyimide spheres with radiate branches. <i>Materials Letters</i> , 2010, 64, 625-627.	1.3	3
27	Can Metal-Organic Framework Materials Play a Useful Role in Large-Scale Carbon Dioxide Separations?. <i>ChemSusChem</i> , 2010, 3, 879-891.	3.6	556
28	Crystallization-Controlled Dynamic Self-Assembly and an On/Off Switch for Equilibration Using Boronic Ester Formation. <i>Chemistry - A European Journal</i> , 2010, 16, 13680-13688.	1.7	23
29	Synthesis and Enhanced H <sub>2</sub> Adsorption Properties of a Mesoporous Nanocrystal of MOF-5: Controlling Nano-Mesostructures of MOFs To Improve Their H <sub>2</sub> Heat of Adsorption. <i>Chemistry - A European Journal</i> , 2010, 16, 13049-13052.	1.7	69
35	Porous Organic Polymers: Distinction from Disorder?. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 1533-1535.	7.2	156
36	Functional Materials: From Hard to Soft Porous Frameworks. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 8328-8344.	7.2	724

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37	A Highly Porous Metal-Organic Framework with Open Nickel Sites. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 8489-8492.	7.2	149
38	Molecular-Sieve Membrane with Hydrogen Permselectivity: ZIF-22 in LTA Topology Prepared with 3-Aminopropyltriethoxysilane as Covalent Linker. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 4958-4961.	7.2	354
39	Organic Sol-Gel Synthesis: Solution-Processable Microporous Organic Networks. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 9504-9508.	7.2	79
40	In situ Self-Assembly of Zigzag Polyimide Chains to Crystalline Branched Supramolecular Structures with High Surface Area. <i>Macromolecular Chemistry and Physics</i> , 2010, 211, 698-705.	1.1	11
41	Correlation between adsorption and thermal properties of lanthanide(III) dinicotinates. <i>Applied Surface Science</i> , 2010, 257, 1736-1739.	3.1	5
42	Adsorption of hydrogen in covalent organic frameworks: Comparison of simulations and experiments. <i>Microporous and Mesoporous Materials</i> , 2010, 133, 59-65.	2.2	58
43	Improving hydrogen storage properties of covalent organic frameworks by substitutional doping. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 266-271.	3.8	46
44	Computer simulation for storage of methane and capture of carbon dioxide in carbon nanoscrolls by expansion of interlayer spacing. <i>Carbon</i> , 2010, 48, 3760-3768.	5.4	54
45	Hydrogen adsorption sites and energies in 2D and 3D covalent organic frameworks. <i>Chemical Physics Letters</i> , 2010, 489, 86-91.	1.2	27
46	Structural stability and elastic properties of prototypical covalent organic frameworks. <i>Chemical Physics Letters</i> , 2010, 499, 103-107.	1.2	62
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48	Lewis acid-catalysed formation of two-dimensional phthalocyanine covalent organic frameworks. <i>Nature Chemistry</i> , 2010, 2, 672-677.	6.6	636
49	Adsorption of Methane in Porous Materials as the Basis for the Storage of Natural Gas. , 0, , .		9
50	Crystal structure of cis-diaquabis(1,10-phenanthroline)zinc(II) bis(3-amino-4-chlorobenzensulphonate) dihydrate, $[Zn(H_2O)_2(C_{12}H_8N_2)_2](H_2NC_6H_3ClSO_3)_2 \cdot 2H_2O$ . <i>Zeitschrift Fur Kristallographie - New Crystal Structures</i> , 2010, 225, 410-412.	0.1	1
51	Hole-Mediated Hydrogen Spillover Mechanism in Metal-Organic Frameworks. <i>Physical Review Letters</i> , 2010, 104, 236101.	2.9	34
52	Synthesis, crystal structure, and fluorescence of a 2-D coordination polymer. <i>Journal of Coordination Chemistry</i> , 2010, 63, 1737-1743.	0.8	23
53	Hydrogen storage behavior of one-dimensional TiB <sub>2</sub> chains. <i>Nanotechnology</i> , 2010, 21, 134006.	1.3	9
54	High Surface Area Conjugated Microporous Polymers: The Importance of Reaction Solvent Choice. <i>Macromolecules</i> , 2010, 43, 8524-8530.	2.2	195

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57	DABCO-functionalized metal-organic framework bearing a C <sub>2h</sub> -symmetric terphenyl dicarboxylate linker. Dalton Transactions, 2010, 39, 5608.	1.6	58
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59	Volumetric hydrogen sorption capacity of monoliths prepared by mechanical densification of MOF-177. Journal of Materials Chemistry, 2010, 20, 2145.	6.7	122
60	Estimation of Framework Charges in Covalent Organic Frameworks Using Connectivity-Based Atom Contribution Method. Journal of Physical Chemistry C, 2010, 114, 9945-9951.	1.5	42
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63	Porous Polymer Networks: Synthesis, Porosity, and Applications in Gas Storage/Separation. Chemistry of Materials, 2010, 22, 5964-5972.	3.2	512
64	Towards two-dimensional nanoporous networks: crystal engineering at the solid-liquid interface. CrystEngComm, 2010, 12, 3369.	1.3	41
65	Exploitation of Intrinsic Microporosity in Polymer-Based Materials. Macromolecules, 2010, 43, 5163-5176.	2.2	725
66	Carbon Adsorbents from Polycarbonate Pyrolysis Char Residue: Hydrogen and Methane Storage Capacities. Energy & Fuels, 2010, 24, 3394-3400.	2.5	29
67	High-Capacity Hydrogen Storage in Porous Aromatic Frameworks with Diamond-like Structure. Journal of Physical Chemistry Letters, 2010, 1, 978-981.	2.1	98
68	Exceptional Thermal Stability in a Supramolecular Organic Framework: Porosity and Gas Storage. Journal of the American Chemical Society, 2010, 132, 14457-14469.	6.6	369
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71	Acetylene Gas Mediated Conjugated Microporous Polymers (ACMPs): First Use of Acetylene Gas as a Building Unit. Macromolecules, 2010, 43, 5508-5511.	2.2	64
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74	the microporous framework MOF-74 analyzed using infrared spectroscopy. <i>Physical Review B</i> , 2010, 81, Solvothermal Synthesis and Structural Characterization of Ultralight Metal Coordination Networks. <i>Crystal Growth and Design</i> , 2010, 10, 709-715.	1.4	32
75	Beryllosilicate Frameworks and Zeolites. <i>Journal of the American Chemical Society</i> , 2010, 132, 15679-15686.	6.6	42
76	First-principles study of hydrogen adsorption in metal-doped COF-10. <i>Journal of Chemical Physics</i> , 2010, 133, 154706.	1.2	25
77	Designing 3D COFs with Enhanced Hydrogen Storage Capacity. <i>Nano Letters</i> , 2010, 10, 452-454.	4.5	144
78	Sorbents for CO <sub>2</sub> capture from flue gas— aspects from materials and theoretical chemistry. <i>Nanoscale</i> , 2010, 2, 1819.	2.8	213
79	Highly energy- and time-efficient synthesis of porous triazine-based framework: microwave-enhanced ionothermal polymerization and hydrogen uptake. <i>Journal of Materials Chemistry</i> , 2010, 20, 6413.	6.7	99
80	Zeolitic Imidazolate Frameworks as H <sub>2</sub> Adsorbents: Ab Initio Based Grand Canonical Monte Carlo Simulation. <i>Journal of Physical Chemistry C</i> , 2010, 114, 12039-12047.	1.5	57
81	High Uptakes of Methane in Li-Doped 3D Covalent Organic Frameworks. <i>Langmuir</i> , 2010, 26, 220-226.	1.6	99
82	Prediction of framework “guest systems using molecular docking. <i>Chemical Communications</i> , 2010, 46, 3318.	2.2	9
83	Dehydrated Prussian blues for CO <sub>2</sub> storage and separation applications. <i>CrystEngComm</i> , 2010, 12, 4003.	1.3	35
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85	Synthesis of uniform microporous polymer nanoparticles and their applications for hydrogen storage. <i>Journal of Materials Chemistry</i> , 2010, 20, 7444.	6.7	98
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88	Targeted synthesis of a porous aromatic framework with a high adsorption capacity for organic molecules. <i>Journal of Materials Chemistry</i> , 2011, 21, 13498.	6.7	146
89	A Covalent Organic Framework with 4 nm open pores. <i>Chemical Communications</i> , 2011, 47, 1707.	2.2	168
90	Adsorption Equilibrium and Kinetics of CO <sub>2</sub> on Chromium Terephthalate MIL-101. <i>Energy &amp; Fuels</i> , 2011, 25, 835-842.	2.5	149

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91	Effect of Composition on Dehydrogenation of Mesoporous Silica/Ammonia Borane Nanocomposites. <i>Industrial &amp; Engineering Chemistry Research</i> , 2011, 50, 10024-10028.	1.8	23
92	Enhanced Hydrolytic Stability of Self-Assembling Alkylated Two-Dimensional Covalent Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2011, 133, 13975-13983.	6.6	242
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94	Kinetic Separation of Propene and Propane in Metal-Organic Frameworks: Controlling Diffusion Rates in Plate-Shaped Crystals via Tuning of Pore Apertures and Crystallite Aspect Ratios. <i>Journal of the American Chemical Society</i> , 2011, 133, 5228-5231.	6.6	263
95	Synthesis of a porous aromatic framework for adsorbing organic pollutants application. <i>Journal of Materials Chemistry</i> , 2011, 21, 10348.	6.7	138
96	Spontaneous and Selective CO <sub>2</sub> Sorption under Ambient Conditions in Seemingly Nonporous Molecular Crystal of Azacalix[5]arene Pentamethyl Ether. <i>Organic Letters</i> , 2011, 13, 490-493.	2.4	35
97	A New Strategy to Microporous Polymers: Knitting Rigid Aromatic Building Blocks by External Cross-Linker. <i>Macromolecules</i> , 2011, 44, 2410-2414.	2.2	530
98	Enhanced CO <sub>2</sub> Binding Affinity of a High-Uptake <i>z</i> -Type Metal-Organic Framework Decorated with Acylamide Groups. <i>Journal of the American Chemical Society</i> , 2011, 133, 748-751.	6.6	722
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100	Microporous carbon adsorbents with high CO <sub>2</sub> capacities for industrial applications. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 16063.	1.3	53
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105	High-Pressure Adsorption Equilibrium of CO <sub>2</sub> , CH <sub>4</sub> , and CO on an Impregnated Activated Carbon. <i>Journal of Chemical &amp; Engineering Data</i> , 2011, 56, 390-397.	1.0	21
106	Temperature-controlled synthesis of two novel coordination polymers modeled by semi-rigid tetrapyrindines. <i>CrystEngComm</i> , 2011, 13, 7025.	1.3	30
107	Crystalline Covalent Organic Frameworks with Hydrazone Linkages. <i>Journal of the American Chemical Society</i> , 2011, 133, 11478-11481.	6.6	731
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117	Container Molecules Based on Imine Type Ligands. <i>Topics in Current Chemistry</i> , 2011, 319, 79-98.	4.0	6
118	A Porous Coordination Polymer Assembled from 8-Connected {Co <sup>II</sup> <sub>3</sub> (OH)} Clusters and Isonicotinate: Multiple Active Metal Sites, Apical Ligand Substitution, H <sub>2</sub> Adsorption, and Magnetism. <i>Inorganic Chemistry</i> , 2011, 50, 2321-2328.	1.9	101
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125	Covalent Organic Frameworks with High Charge Carrier Mobility. <i>Chemistry of Materials</i> , 2011, 23, 4094-4097.	3.2	659
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129	Effect of zeolitic imidazolate frameworks on the gas transport performance of ZIF8-poly(1,4-phenylene) Tj ETQq1 1,0,784314 rgBT /Ome	4.1	108
130	Computer Simulation of Adsorption and Separation of CO <sub>2</sub> /CH <sub>4</sub> in Modified COF-102. <i>Chinese Journal of Chemical Engineering</i> , 2011, 19, 709-716.	1.7	12
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136	Covalent organic frameworks for extremely high reversible CO <sub>2</sub> uptake capacity: a theoretical approach. <i>Journal of Materials Chemistry</i> , 2011, 21, 1073-1078.	6.7	64
137	Linear and Hyperbranched Electron-Acceptor Supramolecular Oligomers. <i>Chemistry - an Asian Journal</i> , 2011, 6, 1848-1853.	1.7	11
138	Design of Covalent Organic Frameworks for Methane Storage. <i>Journal of Physical Chemistry A</i> , 2011, 115, 13852-13857.	1.1	92
139	A highly porous flexible Metal-Organic Framework with corundum topology. <i>Chemical Communications</i> , 2011, 47, 490-492.	2.2	57
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155	Synthesis of Metallophthalocyanine Covalent Organic Frameworks That Exhibit High Carrier Mobility and Photoconductivity. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 1289-1293.	7.2	462
156	Self-Assembled Polymeric Supramolecular Frameworks. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 2516-2520.	7.2	39
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159	Enhancing Gas Adsorption and Separation Capacity through Ligand Functionalization of Microporous Metal-Organic Framework Structures. <i>Chemistry - A European Journal</i> , 2011, 17, 5101-5109.	1.7	176
160	Synthesis and characterization of porous Al(III) metal-organic framework nanoparticles as a new precursor for preparation of Al <sub>2</sub> O <sub>3</sub> Nanoparticles. <i>Inorganic Chemistry Communication</i> , 2011, 14, 645-648.	1.8	30
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163	New yttrium(III) and copper(II) coordination polymers with partially protonated cyclohexane-1,2,3,4,5,6-hexacarboxylato ligands: Synthesis, crystal structures and properties. <i>Inorganica Chimica Acta</i> , 2011, 370, 36-44.	1.2	6
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166	Research Progress of Application of Porous Polymer in Energy Storage. <i>Advanced Materials Research</i> , 0, 621, 27-30.	0.3	2
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#	ARTICLE	IF	CITATIONS
168	Pre-combustion CO <sub>2</sub> capture by transition metal ions embedded in phthalocyanine sheets. <i>Journal of Chemical Physics</i> , 2012, 136, 234703.	1.2	30
169	High CO <sub>2</sub> uptake and selectivity by triptycene-derived benzimidazole-linked polymers. <i>Chemical Communications</i> , 2012, 48, 1141-1143.	2.2	217
170	(2,4,6-Trimethylphenyl)boronic acid-triphenylphosphine oxide (1/1). <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2012, 68, o31-o31.	0.2	1
171	Crystal structure of catena-(1,4,4'-bipyridine)silver(I)hydrogen-bis-(5-ethyl-2-thiophenyl)-1,10-phenanthroline. <i>Zeitschrift Fur Kristallographie - New Crystal Structures</i> , 2012, 227, 571-573.	0.1	0
172	Crystal structure of (1,10-phenanthroline) (tetrafluorophthalato) copper(II) [Cu(C <sub>8</sub> F <sub>4</sub> O <sub>4</sub> )(C <sub>12</sub> H <sub>8</sub> N <sub>2</sub> ) <sub>2</sub> ](C <sub>8</sub> H <sub>2</sub> F <sub>4</sub> O <sub>4</sub> ), C <sub>40</sub> H <sub>18</sub> CuF <sub>8</sub> N <sub>4</sub> O <sub>8</sub> . <i>Zeitschrift Fur Kristallographie - New Crystal Structures</i> , 2012, 227, 568-570.	0.1	1
173	Synthesis, Crystal Structures, and Properties of a Series of Coordination Polymers Employing R <sup>4</sup> -Terephthalate (R = H, F, Cl, Br) and 4,4'-Bipyridine as Bridging Ligands. <i>Bulletin of the Chemical Society of Japan</i> , 2012, 85, 1102-1111.	2.0	4
174	Construction of Crystalline 2D Covalent Organic Frameworks with Remarkable Chemical (Acid/Base) Stability via a Combined Reversible and Irreversible Route. <i>Journal of the American Chemical Society</i> , 2012, 134, 19524-19527.	6.6	1,442
175	User-friendly synthesis of nitrogen-containing polymer and microporous carbon spheres for efficient CO <sub>2</sub> capture. <i>Journal of Materials Chemistry</i> , 2012, 22, 15540.	6.7	130
176	Targeted Synthesis of a 3D Crystalline Porous Aromatic Framework with Luminescence Quenching Ability for Hazardous and Explosive Molecules. <i>Journal of Physical Chemistry C</i> , 2012, 116, 26431-26435.	1.5	36
177	Superior CO <sub>2</sub> uptake of N-doped activated carbon through hydrogen-bonding interaction. <i>Energy and Environmental Science</i> , 2012, 5, 7323.	15.6	434
178	Synthesis of Hierarchical Porous Carbon Monoliths with Incorporated Metal-Organic Frameworks for Enhancing Volumetric Based CO <sub>2</sub> Capture Capability. <i>ACS Applied Materials &amp; Interfaces</i> , 2012, 4, 6125-6132.	4.0	126
179	Triptycene-Based Microporous Polymers: Synthesis and Their Gas Storage Properties. <i>ACS Macro Letters</i> , 2012, 1, 190-193.	2.3	135
180	Synthesis of mesoporous titania thin films (MTTFs) with two different structures as photocatalysts for generating hydrogen from water splitting. <i>Applied Energy</i> , 2012, 100, 75-80.	5.1	52
181	Synthesis of Superparamagnetic Nanoporous Iron Oxide Particles with Hollow Interiors by Using Prussian Blue Coordination Polymers. <i>Chemistry of Materials</i> , 2012, 24, 2698-2707.	3.2	163
182	Facile Approach to Preparing Microporous Organic Polymers through Benzoin Condensation. <i>ACS Applied Materials &amp; Interfaces</i> , 2012, 4, 6975-6981.	4.0	54
183	Microporous Cyanate Resins: Synthesis, Porous Structure, and Correlations with Gas and Vapor Adsorptions. <i>Macromolecules</i> , 2012, 45, 5140-5150.	2.2	98
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185	Variable architectures of Zinc coordination polymers modeled by tetra-pyridine ligands with different anions. <i>CrystEngComm</i> , 2012, 14, 6770.	1.3	12

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187	Gas Adsorption Properties and Selectivity in Cull/Adeninato/Carboxylato Metal-Biomolecule Frameworks. <i>European Journal of Inorganic Chemistry</i> , 2012, 2012, 5921-5933.	1.0	31
188	Lewis base-directed assembly of two cobalt-based metal-organic frameworks. <i>Inorganic Chemistry Communication</i> , 2012, 25, 83-85.	1.8	3
189	Two novel isostructural Ln (III) 3D frameworks supported by 3,6-dibromobenzene-1,2,4,5-tetracarboxylic acid and in situ generated oxalate: Syntheses, characterization and photoluminescent property. <i>Inorganic Chemistry Communication</i> , 2012, 26, 51-55.	1.8	14
190	Window effect on CO <sub>2</sub> /N <sub>2</sub> selectivity in metal organic framework materials. <i>Chemical Physics Letters</i> , 2012, 552, 136-140.	1.2	4
191	Synthesis, crystal structure, and spectral analysis of a 1-D Mn(II) coordination polymer. <i>Journal of Coordination Chemistry</i> , 2012, 65, 1518-1524.	0.8	1
192	Tuning delamination of layered covalent organic frameworks through structural design. <i>Chemical Communications</i> , 2012, 48, 7976.	2.2	92
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194	Reversible water uptake by a stable imine-based porous organic cage. <i>Chemical Communications</i> , 2012, 48, 4689.	2.2	91
195	Unprecedented CO <sub>2</sub> uptake over highly porous N-doped activated carbon monoliths prepared by physical activation. <i>Chemical Communications</i> , 2012, 48, 10283.	2.2	252
196	Sensitive detection of hazardous explosives via highly fluorescent crystalline porous aromatic frameworks. <i>Journal of Materials Chemistry</i> , 2012, 22, 24558.	6.7	54
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198	Conducting metallophthalocyanine 2D covalent organic frameworks: the role of central metals in controlling I $\pi$ -electronic functions. <i>Chemical Communications</i> , 2012, 48, 8952.	2.2	133
199	Targeted synthesis of a porous borazine-linked covalent organic framework. <i>Chemical Communications</i> , 2012, 48, 8823.	2.2	200
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201	Acetylene and argon adsorption in a supramolecular organic zeolite. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 311-317.	1.3	20
202	Storage of hydrogen, methane, carbon dioxide in electron-rich porous aromatic framework (JUC-Z2). <i>Adsorption</i> , 2012, 18, 375-380.	1.4	33
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205	Multiscale Study of Hydrogen Adsorption, Diffusion, and Desorption on Li-Doped Phthalocyanine Covalent Organic Frameworks. <i>Journal of Physical Chemistry C</i> , 2012, 116, 15908-15917.	1.5	28
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209	Hypothetical High-Surface-Area Carbons with Exceptional Hydrogen Storage Capacities: Open Carbon Frameworks. <i>Journal of the American Chemical Society</i> , 2012, 134, 15130-15137.	6.6	66
210	Diamondoid Porous Organic Salts toward Applicable Strategy for Construction of Versatile Porous Structures. <i>Crystal Growth and Design</i> , 2012, 12, 4600-4606.	1.4	49
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215	In situ NMR study of hydrogenation/dehydrogenation of ZrCr <sub>2</sub> and physisorbed hydrogen. <i>Journal of Alloys and Compounds</i> , 2012, 540, 222-227.	2.8	11
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218	Construction and adsorption properties of microporous tetrazine-based organic frameworks. <i>RSC Advances</i> , 2012, 2, 408-410.	1.7	46
219	Synthesis of porous aromatic framework with tuning porosity via ionothermal reaction. <i>Dalton Transactions</i> , 2012, 41, 3933.	1.6	43
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223	From Biomass Wastes to Highly Efficient CO <sub>2</sub> Adsorbents: Graphitisation of Chitosan and Alginate Biopolymers. <i>ChemSusChem</i> , 2012, 5, 2207-2214.	3.6	93
224	A classification scheme for the stacking of two-dimensional boronate ester-linked covalent organic frameworks. <i>Journal of Materials Chemistry</i> , 2012, 22, 17460.	6.7	73
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226	Storage Capacity of Metal-Organic and Covalent-Organic Frameworks by Hydrogen Spillover. <i>Journal of Physical Chemistry C</i> , 2012, 116, 3661-3666.	1.5	35
227	Lightweight nanoporous metal hydroxide-rich zeotypes. <i>Nature Communications</i> , 2012, 3, 1114.	5.8	15
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229	Facile synthesis of covalent organic frameworks COF-1 and COF-5 by sonochemical method. <i>RSC Advances</i> , 2012, 2, 10179.	1.7	159
230	Methane storage in advanced porous materials. <i>Chemical Society Reviews</i> , 2012, 41, 7761.	18.7	716
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232	Methane and carbon dioxide adsorption on edge-functionalized graphene: A comparative DFT study. <i>Journal of Chemical Physics</i> , 2012, 137, 054702.	1.2	105
233	Graphene oxide derived carbons (GODCs): synthesis and gas adsorption properties. <i>Energy and Environmental Science</i> , 2012, 5, 6453.	15.6	169
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236	Adsorption of selected gases on metal-organic frameworks and covalent organic frameworks: A comparative grand canonical Monte Carlo simulation. <i>Journal of Applied Physics</i> , 2012, 111, 112628.	1.1	20
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238	Activated carbon monoliths for gas storage at room temperature. <i>Energy and Environmental Science</i> , 2012, 5, 9833.	15.6	109
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240	Highly selective CO <sub>2</sub> capture of an agw-type metal-organic framework with inserted amides: experimental and theoretical studies. <i>Chemical Communications</i> , 2012, 48, 3058.	2.2	166

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242	Precombustion CO <sub>2</sub> capture by means of phenol-formaldehyde resin-derived carbons: From equilibrium to dynamic conditions. <i>Separation and Purification Technology</i> , 2012, 98, 531-538.	3.9	20
243	Self-assembly, crystal structures, and properties of metal-2-sulfoterephthalate frameworks based on [M <sub>4</sub> (1/43-OH) <sub>2</sub> ] <sub>6+</sub> clusters (M = Co, Mn, Zn and Cd). <i>Dalton Transactions</i> , 2012, 41, 2639.	1.6	30
244	High capacity carbon dioxide adsorption by inexpensive covalent organic polymers. <i>Journal of Materials Chemistry</i> , 2012, 22, 8431.	6.7	187
245	Covalent-organic polymers for carbon dioxide capture. <i>Journal of Materials Chemistry</i> , 2012, 22, 22663.	6.7	143
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247	Highly selective CO <sub>2</sub> /CH <sub>4</sub> gas uptake by a halogen-decorated borazine-linked polymer. <i>Journal of Materials Chemistry</i> , 2012, 22, 13524.	6.7	95
248	Semiconducting and conducting transition of covalent-organic polymers induced by defects. <i>Nanotechnology</i> , 2012, 23, 395702.	1.3	4
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250	Superior Capture of CO <sub>2</sub> Achieved by Introducing Extra-framework Cations into N-doped Microporous Carbon. <i>Chemistry of Materials</i> , 2012, 24, 4725-4734.	3.2	199
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285	A [Fe(CB <sub>6</sub> ) <sub>6</sub> ] platform for binding of small molecules: Insights from DFT calculations. <i>Journal of Computational Chemistry</i> , 2012, 33, 1047-1054.	1.5	4
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305	Synthesis of a phthalocyanine and porphyrin 2D covalent organic framework. <i>CrystEngComm</i> , 2013, 15, 6892.	1.3	45
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1030	Selectivity Behavior of a Robust Porous Organic Salt Based on the Pamoate Ion. <i>Crystal Growth and Design</i> , 2018, 18, 944-953.	1.4	12
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1038	Benzoxazole-Linked Ultrastable Covalent Organic Frameworks for Photocatalysis. <i>Journal of the American Chemical Society</i> , 2018, 140, 4623-4631.	6.6	555
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1040	Robust multifunctional Zr-based metal-organic polyhedra for high proton conductivity and selective CO <sub>2</sub> capture. <i>Journal of Materials Chemistry A</i> , 2018, 6, 7724-7730.	5.2	101
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1043	Hierarchical porous membrane via electrospinning PIM-1 for micropollutants removal. <i>Applied Surface Science</i> , 2018, 443, 441-451.	3.1	27
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1045	A ferrocene-containing porous organic polymer linked by tetrahedral silicon-centered units for gas sorption. <i>Applied Organometallic Chemistry</i> , 2018, 32, e3935.	1.7	22
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1048	High-throughput computational screening and design of nanoporous materials for methane storage and carbon dioxide capture. <i>Green Energy and Environment</i> , 2018, 3, 107-119.	4.7	40
1049	Doped phosphorene for hydrogen capture: A DFT study. <i>Applied Surface Science</i> , 2018, 433, 249-255.	3.1	48
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1063	Scalable ambient pressure synthesis of covalent organic frameworks and their colorimetric nanocomposites through dynamic imine exchange reactions. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2018, 36, 1-7.	2.0	35
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1068	Surface-Supported Boronic Acid Condensation. , 2018, , 424-435.		0
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1188	Adsorption-Induced Expansion of Graphene Oxide Frameworks: Observation by in Situ Neutron Diffraction. <i>ACS Omega</i> , 2019, 4, 18668-18676.	1.6	7
1189	Construction of Covalent-Organic Frameworks (COFs) from Amorphous Covalent Organic Polymers via Linkage Replacement. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 17679-17683.	7.2	78
1190	Benzene-Based Hyper-Cross-Linked Polymer with Enhanced Adsorption Capacity for CO <sub>2</sub> Capture. <i>Energy &amp; Fuels</i> , 2019, 33, 12578-12586.	2.5	68
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1202	Covalent Organic Framework-Based Li <sup>+</sup> CO <sub>2</sub> Batteries. <i>Advanced Materials</i> , 2019, 31, e1905879.	1.1	129
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1325	A combined experimental and theoretical study on gas adsorption performance of amine and amide porous polymers. <i>Microporous and Mesoporous Materials</i> , 2019, 279, 61-72.	2.2	15
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1937	Scalable Mechanochemical Synthesis of <i>β</i> -Ketoenamine-Linked Covalent Organic Frameworks for Methane Storage. <i>Chemistry - an Asian Journal</i> , 2022, 17, .	1.7	8
1938	Tunable Interlayer Shifting in Two-Dimensional Covalent Organic Frameworks Triggered by CO <sub>2</sub> Sorption. <i>Journal of the American Chemical Society</i> , 2022, 144, 20363-20371.	6.6	33
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1940	Reticular Synthesis of One-Dimensional Covalent Organic Frameworks with 4 <sup>sq</sup> Topology for Enhanced Fluorescence Emission. <i>Angewandte Chemie</i> , 0, , .	1.6	2
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1960	Study on colorimetric sensing performance of covalent organic framework for highly selective and sensitive detection of Fe <sup>2+</sup> and Fe <sup>3+</sup> ions. <i>Journal of Molecular Structure</i> , 2023, 1276, 134779.	1.8	7
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1962	Unconventional CO <sub>2</sub> -Binding and Catalytic Activity of Urea-Derived Histidines. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 15813-15823.	3.2	5
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2002	Self-Activating Approach for Synthesis of 2,6-Naphthalene Disulfonate Acid Disodium Salt-Derived Porous Carbon and CO <sub>2</sub> Capture Performance. <i>Energy &amp; Fuels</i> , 2023, 37, 3886-3893.	2.5	7
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2007	Porous Nanomaterials for CO <sub>2</sub> Remediation for a Sustainable Environment. , 2023, , 1-28.		0
2008	Construction of Multiform Hollow-Structured Covalent Organic Frameworks via a Facile and Universal Strategy for Enhanced Sonodynamic Cancer Therapy. <i>Angewandte Chemie</i> , 2023, 135, .	1.6	2
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2011	Construction of Multiform Hollow-Structured Covalent Organic Frameworks via a Facile and Universal Strategy for Enhanced Sonodynamic Cancer Therapy. <i>Angewandte Chemie - International Edition</i> , 2023, 62, .	7.2	13
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2021	Carbazolylene-Ethynylene Macrocycle based Conductive Covalent Organic Frameworks. <i>Angewandte Chemie - International Edition</i> , 2023, 62, .	7.2	7
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2063	From conventional inorganic semiconductors to covalent organic frameworks: advances and opportunities in heterogeneous photocatalytic CO <sub>2</sub> reduction. <i>Journal of Materials Chemistry A</i> , 2023, 11, 13815-13843.	5.2	4
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