

# Large breathing effects in three-dimensional porous hydrogels and consequences

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Citation Report

#	ARTICLE	IF	CITATIONS
2	MPFs (Metal-Organic Peptide Frameworks)., 2004, , 1-13.		0
3	Facile Purification of Porous Metal Terephthalates with Ultrasonic Treatment in the Presence of Amides. Chemistry - A European Journal, 2009, 15, 11730-11736.	1.7	50
4	A 3D Copper(II) Coordination Framework Showing Different Kinetic and Thermodynamic Crystal Transformations through Removal of Guest Water Cubes. Chemistry - A European Journal, 2009, 15, 12974-12977.	1.7	110
7	Transport Diffusivity of CO <sub>2</sub> in the Highly Flexible Metal-Organic Framework MIL-53(Cr). Angewandte Chemie - International Edition, 2009, 48, 8335-8339.	7.2	109
8	Breathing Transitions in MIL-53(Al) Metal-Organic Framework Upon Xenon Adsorption. Angewandte Chemie - International Edition, 2009, 48, 8314-8317.	7.2	176
9	Virtual High Throughput Screening Confirmed Experimentally: Porous Coordination Polymer Hydration. Journal of the American Chemical Society, 2009, 131, 15834-15842.	6.6	848
10	Modulating Metal-Organic Frameworks To Breathe: A Postsynthetic Covalent Modification Approach. Journal of the American Chemical Society, 2009, 131, 16675-16677.	6.6	216
11	Cobalt(II) Sheet-Like Systems Based on Diacetic Ligands: from Subtle Structural Variances to Different Magnetic Behaviors. Inorganic Chemistry, 2009, 48, 6086-6095.	1.9	51
12	Guest-Induced Irreversible Sliding in a Flexible 2D Rectangular Grid with Selective Sorption Characteristics. Inorganic Chemistry, 2009, 48, 10886-10888.	1.9	67
13	A New Photoactive Crystalline Highly Porous Titanium(IV) Dicarboxylate. Journal of the American Chemical Society, 2009, 131, 10857-10859.	6.6	1,127
14	Response of CPO-27-Ni towards CO, N <sub>2</sub> and C <sub>2</sub> H <sub>4</sub> . Physical Chemistry Chemical Physics, 2009, 11, 9811.	1.3	87
15	Describing the Diffusion of Guest Molecules Inside Porous Structures. Journal of Physical Chemistry C, 2009, 113, 19756-19781.	1.5	263
16	A Pillared-Layer Coordination Polymer with a Rotatable Pillar Acting as a Molecular Gate for Guest Molecules. Journal of the American Chemical Society, 2009, 131, 12792-12800.	6.6	298
17	Turning MIL-53(Al) Redox-Active by Functionalization of the Bridging OH-Group with 1,1'-Ferrocenediyl-Dimethylsilane. Journal of the American Chemical Society, 2009, 131, 9644-9645.	6.6	96
18	Some suggested perspectives for multifunctional hybrid porous solids. Dalton Transactions, 2009, , 4400.	1.6	168
19	Host-guest transformational correlations for a gas inclusion co-crystal on changing gas pressure and temperature. Chemical Communications, 2009, , 6625.	2.2	27
20	Polymorphism and variable structural dimensionality in the iron(III) phosphate oxalate system: a new polymorph of 3D [Fe <sub>2</sub> (HPO <sub>4</sub> ) <sub>2</sub> (C <sub>2</sub> O <sub>4</sub> )(H <sub>2</sub> O) <sub>2</sub> ]·2H <sub>2</sub> O and the layered material [Fe <sub>2</sub> (HPO <sub>4</sub> ) <sub>2</sub> (C <sub>2</sub> O <sub>4</sub> )(H <sub>2</sub> O) <sub>2</sub> ]. Dalton Transactions, 2009, , 9176.	1.6	16
21	Lotus-Root-like One-Dimensional Polymetallocages with Drastic Void Adaptability Constructed from 4,4'-Bis(1,2,4-triazol-1-ylmethyl)biphenyl and Zn(II) or Co(II) and Their Fluorescein Encapsulation Properties. Crystal Growth and Design, 2010, 10, 943-951.	1.4	35

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23	Coordination Assemblies of Co <sup>II</sup> /Cu <sup>II</sup> /Zn <sup>II</sup> /Cd <sup>II</sup> with 2,5-Bipyridyl-1,3,4-Oxadiazole and Dicyanamide Anion: Structural Diversification and Properties. Crystal Growth and Design, 2010, 10, 3285-3296.	1.4	36
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26	Stress-Based Model for the Breathing of Metal-Organic Frameworks. Journal of Physical Chemistry Letters, 2010, 1, 445-449.	2.1	209
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28	Layer-pillared zinc(II) metal-organic framework built from 4,4'-azo(bis)pyridine and 1,4-BDC. Microporous and Mesoporous Materials, 2010, 129, 354-359.	2.2	25
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30	Effect of Water Concentration and Acidity on the Synthesis of Porous Chromium Benzenedicarboxylates. European Journal of Inorganic Chemistry, 2010, 2010, 1043-1048.	1.0	46
31	A Triple-Decker Heptadecanuclear (Cu <sup>II</sup> ) <sub>15</sub> (Cr <sup>III</sup> ) <sub>2</sub> Complex Assembled from Pentanuclear Metallacrowns. European Journal of Inorganic Chemistry, 2010, 2010, 4851-4858.	1.0	51
32	Dynamic Calcium Metal-Organic Framework Acts as a Selective Organic Solvent Sponge. Chemistry - A European Journal, 2010, 16, 11632-11640.	1.7	53
33	Flexibility and Sorption Selectivity in Rigid Metal-Organic Frameworks: The Impact of Ether-Functionalised Linkers. Chemistry - A European Journal, 2010, 16, 14296-14306.	1.7	128
34	Highly Selective CO <sub>2</sub> Capture by a Flexible Microporous Metal-Organic Framework (MMOF) Material. Chemistry - A European Journal, 2010, 16, 13951-13954.	1.7	167
42	Flexibility in a Metal-Organic Framework Material Controlled by Weak Dispersion Forces: The Bistability of MIL-53(Al). Angewandte Chemie, 2010, 122, 7663-7665.	1.6	35
43	Using Pressure to Provoke the Structural Transition of Metal-Organic Frameworks. Angewandte Chemie, 2010, 122, 7688-7691.	1.6	34
44	Local Vibrational Mechanism for Negative Thermal Expansion: A Combined Neutron Scattering and First-Principles Study. Angewandte Chemie - International Edition, 2010, 49, 585-588.	7.2	87
45	Carbon Dioxide Capture: Prospects for New Materials. Angewandte Chemie - International Edition, 2010, 49, 6058-6082.	7.2	3,452
46	Solid Solutions of Soft Porous Coordination Polymers: Fine-Tuning of Gas Adsorption Properties. Angewandte Chemie - International Edition, 2010, 49, 4820-4824.	7.2	291

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49	Oriented Nanoscale Films of Metal-Organic Frameworks By Room-Temperature Gel-Layer Synthesis. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 7225-7228.	7.2	132
50	Control of Interpenetration for Tuning Structural Flexibility Influences Sorption Properties. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 7660-7664.	7.2	184
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52	Using Pressure to Provoke the Structural Transition of Metal-Organic Frameworks. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 7526-7529.	7.2	200
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54	Vapor-phase adsorption of alkylaromatics on aluminum-trimesate MIL-96: An unusual increase of adsorption capacity with temperature. <i>Microporous and Mesoporous Materials</i> , 2010, 129, 274-277.	2.2	24
55	Three New Iron(II) Thiocyanato Coordination Polymers Based on 4,4'-bipyridine as Ligand and the Influence of Methanol on Their Structures. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2010, 636, 1061-1068.	0.6	5
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84	Physics Behind the Guest-Assisted Structural Transitions of a Porous Metal-Organic Framework Material. <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 2810-2815.	2.1	59
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111	Chirality and magnetism of an open-framework cobalt phosphite containing helical channels from achiral materials. <i>Chemical Communications</i> , 2010, 46, 2614.	2.2	55
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1008	Controllable Fluorescence Switching of a Coordination Chain Based on the Photoinduced Single-Crystal-to-Single-Crystal Reversible Transformation of a $\langle i \rangle \text{syn} \langle /i \rangle$ -[2.2]Metacyclophane. <i>Inorganic Chemistry</i> , 2018, 57, 849-856.	1.9	67

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1010	Mechanochemical solvent-free in situ synthesis of drug-loaded $\{Cu_2(1,4-bdc)_2(dabco)\}_n$ MOFs for controlled drug delivery. <i>Journal of Solid State Chemistry</i> , 2018, 259, 35-42.	1.4	27
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1012	Supramolecular solvatochromism: mechanistic insight from crystallography, spectroscopy and theory. <i>Chemical Communications</i> , 2018, 54, 6975-6978.	2.2	13
1013	Polymer-stabilized Percolation Membranes Based on Nanosized Zeolitic Imidazolate Frameworks for $H_2/CO_2$ Separation. <i>ChemNanoMat</i> , 2018, 4, 698-703.	1.5	4
1014	Dye confined in metal-organic framework for two-photon fluorescent temperature sensing. <i>Microporous and Mesoporous Materials</i> , 2018, 268, 202-206.	2.2	20
1015	Readily accessible shape-memory effect in a porous interpenetrated coordination network. <i>Science Advances</i> , 2018, 4, eaaq1636.	4.7	61
1016	One-of-a-kind: a microporous metal-organic framework capable of adsorptive separation of linear, mono- and di-branched alkane isomers <i>via</i> temperature- and adsorbate-dependent molecular sieving. <i>Energy and Environmental Science</i> , 2018, 11, 1226-1231.	15.6	103
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1019	CO <sub>2</sub> Sequestration: Processes and Methodologies. , 2018, , 1-50.		1
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1022	Dynamic sorption properties of Metal-Organic Frameworks for the capture of methyl iodide. <i>Microporous and Mesoporous Materials</i> , 2018, 259, 244-254.	2.2	48
1023	Controlling flexibility of metal-organic frameworks. <i>National Science Review</i> , 2018, 5, 907-919.	4.6	240
1024	Two new zinc(II) coordination polymers based on asymmetric tetracarboxylic acid for fluorescent sensing. <i>Inorganica Chimica Acta</i> , 2018, 469, 298-305.	1.2	7
1025	1D and 3D coordination polymers based on the $Cu_3(\frac{1}{4}3-OH)(\frac{1}{4}pz)_3$ and $Cu(Hpz)_3$ SBUs connected by the flexible glutarate dianion. <i>Inorganica Chimica Acta</i> , 2018, 470, 385-392.	1.2	7
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1028	Smart Metal-Organic Frameworks (MOFs): Switching Gas Permeation through MOF Membranes by External Stimuli. <i>Chemical Engineering and Technology</i> , 2018, 41, 224-234.	0.9	40
1029	Purely Physisorption-Based CO <sub>2</sub> -Selective Gate-Opening in Microporous Organically Pillared Layered Silicates. <i>Angewandte Chemie</i> , 2018, 130, 573-577.	1.6	4
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1034	A Metal-Organic Framework with Exceptional Activity for C-H Bond Amination. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 511-515.	7.2	47
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1041	Influence of Metal Substitution on the Pressure-Induced Phase Change in Flexible Zeolitic Imidazolate Frameworks. <i>Journal of the American Chemical Society</i> , 2018, 140, 15924-15933.	6.6	62
1042	Dynamic Nuclear Polarization of Metal-Organic Frameworks Using Photoexcited Triplet Electrons. <i>Journal of the American Chemical Society</i> , 2018, 140, 15606-15610.	6.6	29
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1057	A Self-Folding Polymer Film Based on Swelling Metal-Organic Frameworks. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 15420-15424.	7.2	71
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1071	The Influence of Chemical Modification on Linker Rotational Dynamics in Metal-Organic Frameworks. <i>Angewandte Chemie</i> , 2018, 130, 8814-8817.	1.6	11
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