

Separation of CO₂/CH₄ mixtures with the MIL-53(Al) m

Microporous and Mesoporous Materials

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Citation Report

#	ARTICLE	IF	CITATIONS
2	Syntheses and structures of the MOF-type series of metal 1,4,5,8-naphthalenetetracarboxylates $M_2(OH)_2[C_{14}O_8H_4]$ (Al, Ga, In) with infinite trans-connected $M-OH-M$ chains (MIL-122). <i>Solid State Sciences</i> , 2009, 11, 1507-1512.	1.5	56
3	Framework Breathing in the Vapour-Phase Adsorption and Separation of Xylene Isomers with the Metal-Organic Framework MIL-53. <i>Chemistry - A European Journal</i> , 2009, 15, 7724-7731.	1.7	158
4	Co-adsorption and Separation of CO_2 and CH_4 Mixtures in the Highly Flexible MIL-53(Cr) MOF. <i>Journal of the American Chemical Society</i> , 2009, 131, 17490-17499.	6.6	398
5	An Amine-Functionalized MIL-53 Metal-Organic Framework with Large Separation Power for CO_2 and CH_4 . <i>Journal of the American Chemical Society</i> , 2009, 131, 6326-6327.	6.6	926
6	Application of metal-organic frameworks with coordinatively unsaturated metal sites in storage and separation of methane and carbon dioxide. <i>Journal of Materials Chemistry</i> , 2009, 19, 7362.	6.7	633
7	Gas Adsorption Properties of the Chromium-Based Metal Organic Framework MIL-101. <i>Journal of Physical Chemistry C</i> , 2009, 113, 6616-6621.	1.5	226
8	Prediction of Breathing and Gate-Opening Transitions Upon Binary Mixture Adsorption in Metal-Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2009, 131, 11329-11331.	6.6	144
9	Doping of Alkali, Alkaline-Earth, and Transition Metals in Covalent-Organic Frameworks for Enhancing CO_2 Capture by First-Principles Calculations and Molecular Simulations. <i>ACS Nano</i> , 2010, 4, 4225-4237.	7.3	206
10	A layered coordination polymer based on an azodibenzoate linker connected to aluminium (MIL-129). <i>CrystEngComm</i> , 2010, 12, 3225.	1.3	18
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12	Insights on Adsorption Characterization of Metal-Organic Frameworks: A Benchmark Study on the Novel soc-MOF. <i>Microporous and Mesoporous Materials</i> , 2010, 129, 345-353.	2.2	148
13	Computational study of the effect of organic linkers on natural gas upgrading in metal-organic frameworks. <i>Microporous and Mesoporous Materials</i> , 2010, 130, 76-82.	2.2	65
14	Flexible Two-Dimensional Square-Grid Coordination Polymers: Structures and Functions. <i>International Journal of Molecular Sciences</i> , 2010, 11, 3803-3845.	1.8	113
15	The osmotic framework adsorbed solution theory: predicting mixture coadsorption in flexible nanoporous materials. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 10904.	1.3	76
16	Effect of Dehydration on the Local Structure of Framework Aluminum Atoms in Mixed Linker MIL-53(Al) Materials Studied by Solid-State NMR Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 2886-2890.	2.1	54
17	Molecular Simulations and Experimental Studies of CO_2 , CO, and N_2 Adsorption in Metal-Organic Frameworks. <i>Journal of Physical Chemistry C</i> , 2010, 114, 15735-15740.	1.5	169
18	Selective Sorption of Organic Molecules by the Flexible Porous Hybrid Metal-Organic Framework MIL-53(Fe) Controlled by Various Host-Guest Interactions. <i>Chemistry of Materials</i> , 2010, 22, 4237-4245.	3.2	104
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21	A novel microporous MOF with the capability of selective adsorption of xylenes. <i>Chemical Communications</i> , 2010, 46, 8612.	2.2	111
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27	Metal-organic framework membranes fabricated via reactive seeding. <i>Chemical Communications</i> , 2011, 47, 737-739.	2.2	350
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37	Superuniform Molecular Nanogate Fabrication on Graphene Sheets of Single Wall Carbon Nanohorns for Selective Molecular Separation of CO ₂ and CH ₄ . <i>Chemistry Letters</i> , 2011, 40, 1089-1091.	0.7	23
38	MOF-containing mixed-matrix membranes for CO ₂ /CH ₄ and CO ₂ /N ₂ binary gas mixture separations. <i>Separation and Purification Technology</i> , 2011, 81, 31-40.	3.9	364
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98	Selective Dynamic CO ₂ Separations on Mg-MOF-74 at Low Pressures: A Detailed Comparison with 13X. <i>Journal of Physical Chemistry C</i> , 2013, 117, 9301-9310.	1.5	79
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299	Preparation and redistribution mechanism of dimethyldichlorosilane catalyzed by the AlCl ₃ /ZSM-5(5T)@MIL-53(Al) core-shell catalyst. <i>New Journal of Chemistry</i> , 2022, 46, 23282-23291.	1.4	2
300	A monolithic gold nanoparticle@metal-organic framework composite as CO ₂ photoreduction catalyst. <i>Materials Today Nano</i> , 2023, 21, 100293.	2.3	4
301	Molecular insight into the structure of heterometallic metal-organic frameworks MIL-53-M (M=Al and) Tj ETQq1 1 0.784314 rgBT /Ov Inorganic Chemistry Communication, 2023, 150, 110531.	1.8	0
302	Kinetics of Guest-Induced Structural Transitions in Metal-Organic-Framework MIL-53(Al)-NH ₂ Probed by High-Pressure Nuclear Magnetic Resonance. <i>Journal of Physical Chemistry Letters</i> , 2023, 14, 3391-3396.	2.1	1