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Shaping metalorganic framework (MOF) powder materials for CO₂ capture applicationsa thermogravimetric study

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Journal of Thermal Analysis and Calorimetry, 2019, 138, 4139-4144.

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#	Paper	IF	Citations
20	The potential utility of HKUST-1 for adsorptive removal of benzene vapor from gaseous streams using a denuder versus a packed-bed adsorption system. <i>Journal of Cleaner Production</i> , 2020 , 275, 122359	10.3	15
19	Transport properties in porous coordination polymers. <i>Coordination Chemistry Reviews</i> , 2020 , 421, 213447	47.2	36
18	Densification-Induced Structure Changes in Basolite MOFs: Effect on Low-Pressure CH ₄ Adsorption. <i>Nanomaterials</i> , 2020 , 10,	5.4	8
17	Recent advances in process engineering and upcoming applications of metal-organic frameworks. <i>Coordination Chemistry Reviews</i> , 2021 , 426, 213544	23.2	100
16	From metal-organic framework powders to shaped solids: recent developments and challenges. <i>Materials Advances</i> ,	3.3	7
15	Experimental investigation and thermodynamic modeling of CO ₂ absorption by a chemical solution. <i>Journal of Thermal Analysis and Calorimetry</i> , 1	4.1	2
14	Structure Effects Induced by High Mechanical Compaction of STAM-17-OEt MOF Powders. <i>European Journal of Inorganic Chemistry</i> , 2021 , 2021, 2334-2342	2.3	2
13	Shaping of metal-organic frameworks through a calcium alginate method towards ethylene/ethane separation. <i>Chinese Journal of Chemical Engineering</i> , 2021 ,	3.2	
12	Enhanced CO ₂ capture capacity of amine-functionalized MOF-177 metal organic framework. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 105523	6.8	13
11	Shaping of ZIF-8 and MIL-53(Al) adsorbents for CH ₄ /N ₂ separation. <i>Microporous and Mesoporous Materials</i> , 2022 , 331, 111648	5.3	2
10	ZrBDC-Based Functional Adsorbents for Small-Scale Methane Storage Systems. <i>Adsorption Science and Technology</i> , 2022 , 2022, 1-20	3.6	0
9	Binding Materials for MOF Monolith Shaping Processes: A Review towards Real Life Application. <i>Energies</i> , 2022 , 15, 1489	3.1	0
8	Dynamic carbon dioxide uptake capacity of metal organic framework using thermogravimetric evaluation at different CO ₂ pressure. <i>Materials Letters</i> , 2022 , 317, 132086	3.3	2
7	In-situ detoxification of schedule-I chemical warfare agents utilizing Zr(OH)@W-ACF functional material for the development of next generation NBC protective gears.. <i>Scientific Reports</i> , 2021 , 11, 24449	4.9	2
6	Regeneration and Reconstruction of Metal-Organic Frameworks: Opportunities for Industrial Usage. <i>SSRN Electronic Journal</i> ,	1	
5	Engineering structured metal-organic frameworks for environmental applications. 2022 , 175-194		
4	Regeneration strategies for metal-organic frameworks post acidic gas capture. <i>Coordination Chemistry Reviews</i> , 2022 , 467, 214629	23.2	

3	Remarkable dynamic adsorption of Hg ²⁺ ions on the magnetic MOF nanocomposite (CuNi-BTC@Fe ₃ O ₄): Experimental and modeling using GA+CFD+ANFIS method. 2022 , 371, 133304	1
2	Regeneration and reconstruction of metal-organic frameworks: Opportunities for industrial usage. 2022 , 472, 214776	0
1	Shaping metal-organic framework (MOF) with activated carbon and silica powder materials for CO ₂ capture. 2023 , 11, 109593	0