

# Mehrdad Asgari

## List of Publications by Year in descending order

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docs citations

28  
times ranked

1138  
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent Progress in Adsorptive Removal of Water Pollutants by Metal-Organic Frameworks. ChemNanoMat, 2022, 8, .	2.8	16
2	Recent Advances in MOF-Based Adsorbents for Dye Removal from the Aquatic Environment. Energies, 2022, 15, 2023.	3.1	37
3	Metal organic frameworks for photocatalytic water treatment. , 2022, , 37-72.		0
4	3D vs. turbostratic: controlling metal-organic framework dimensionality via N-heterocyclic carbene chemistry. Chemical Science, 2022, 13, 6418-6428.	7.4	2
5	Large anisotropic negative thermal expansion in Cu-TDPAT metal-organic framework: A combined in situ X-ray diffraction and DRIFTS study. Nano Research, 2021, 14, 404-410.	10.4	10
6	Enhancing MOF performance through the introduction of polymer guests. Coordination Chemistry Reviews, 2021, 427, 213525.	18.8	109
7	Mechanistic Study on Thermally Induced Lattice Stiffening of ZIF-8. Chemistry of Materials, 2021, 33, 4035-4044.	6.7	12
8	Synergistic material and process development: Application of a metal-organic framework, Cu-TDPAT, in single-cycle hydrogen purification and CO <sub>2</sub> capture from synthesis gas. Chemical Engineering Journal, 2021, 414, 128778.	12.7	23
9	A Two Step Postsynthetic Modification Strategy: Appending Short Chain Polyamines to Zn-NH <sub>2</sub> -BDC MOF for Enhanced CO <sub>2</sub> Adsorption. Inorganic Chemistry, 2021, 60, 11720-11729.	4.0	21
10	Efficient production of polymer-grade propylene from the propane/propylene binary mixture using Cu-MOF-74 framework. Separation and Purification Technology, 2021, 276, 119172.	7.9	9
11	A data-driven perspective on the colours of metal-organic frameworks. Chemical Science, 2021, 12, 3587-3598.	7.4	16
12	A metal-organic framework/polymer derived catalyst containing single-atom nickel species for electrocatalysis. Chemical Science, 2020, 11, 10991-10997.	7.4	32
13	Understanding How Ligand Functionalization Influences CO <sub>2</sub> and N <sub>2</sub> Adsorption in a Sodalite Metal-Organic Framework. Chemistry of Materials, 2020, 32, 1526-1536.	6.7	19
14	Preserving Porosity of Mesoporous Metal-Organic Frameworks through the Introduction of Polymer Guests. Journal of the American Chemical Society, 2019, 141, 12397-12405.	13.7	68
15	A new post-synthetic polymerization strategy makes metal-organic frameworks more stable. Chemical Science, 2019, 10, 4542-4549.	7.4	112
16	An In Situ Neutron Diffraction and DFT Study of Hydrogen Adsorption in a Sodalite-Type Metal-Organic Framework, Cu-BTTri. European Journal of Inorganic Chemistry, 2019, 2019, 1147-1154.	2.0	15
17	An experimental and computational study of CO <sub>2</sub> adsorption in the sodalite-type M-BTT (M = Cr, Mn, Fe,) Tj ETQq1 1 0.784314 rgBT / Ov	7.4	43
18	MOF-Derived Cobalt Phosphide/Carbon Nanocubes for Selective Hydrogenation of Nitroarenes to Anilines. Chemistry - A European Journal, 2018, 24, 4234-4238.	3.3	73

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19	Selective CO <sub>2</sub> adsorption by a new metal-organic framework: synergy between open metal sites and a charged imidazolium backbone. Dalton Transactions, 2018, 47, 10527-10535.	3.3	31
20	MOF/polymer composite synthesized using a double solvent method offers enhanced water and CO <sub>2</sub> adsorption properties. Chemical Communications, 2018, 54, 10602-10605.	4.1	33
21	SnO <sub>2</sub> decorated SiO <sub>2</sub> chemical sensors: Enhanced sensing performance toward ethanol and acetone. Materials Science in Semiconductor Processing, 2017, 68, 87-96.	4.0	22
22	Using Predefined M <sub>3</sub> ( $\mu_4$ -O) Clusters as Building Blocks for an Isostructural Series of Metal-Organic Frameworks. ACS Applied Materials & Interfaces, 2017, 9, 23957-23966.	8.0	43
23	Microemulsion synthesized silica/ZnO stable core/shell sensors highly selective to ethanol with minimum sensitivity to humidity. Sensors and Actuators B: Chemical, 2017, 238, 1070-1083.	7.8	34
24	Simulation of a forward feed multiple effect desalination plant with vertical tube evaporators. Chemical Engineering and Processing: Process Intensification, 2014, 75, 110-118.	3.6	29
25	Enhancing MOF performance through the Introduction of polymer guests. , 0, , .		0