

Mehrdad Asgari

List of Publications by Year in descending order

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Version: 2024-02-01

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papers

811
citations

516710

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28
docs citations

28
times ranked

1138
citing authors

#	ARTICLE	IF	CITATIONS
1	A new post-synthetic polymerization strategy makes metal-organic frameworks more stable. <i>Chemical Science</i> , 2019, 10, 4542-4549.	7.4	112
2	Enhancing MOF performance through the introduction of polymer guests. <i>Coordination Chemistry Reviews</i> , 2021, 427, 213525.	18.8	109
3	MOF-Derived Cobalt Phosphide/Carbon Nanocubes for Selective Hydrogenation of Nitroarenes to Anilines. <i>Chemistry - A European Journal</i> , 2018, 24, 4234-4238.	3.3	73
4	Preserving Porosity of Mesoporous Metal-Organic Frameworks through the Introduction of Polymer Guests. <i>Journal of the American Chemical Society</i> , 2019, 141, 12397-12405.	13.7	68
5	Using Predefined $M_3(\mu_3-O)_4$ Clusters as Building Blocks for an Isostructural Series of Metal-Organic Frameworks. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 23957-23966.	8.0	43
6	An experimental and computational study of CO ₂ adsorption in the sodalite-type M-BTT (M = Cr, Mn, Fe). <i>Journal of Physical Chemistry C</i> , 2017, 121, 10000-10008.	7.4	43
7	Recent Advances in MOF-Based Adsorbents for Dye Removal from the Aquatic Environment. <i>Energies</i> , 2022, 15, 2023.	3.1	37
8	Microemulsion synthesized silica/ZnO stable core/shell sensors highly selective to ethanol with minimum sensitivity to humidity. <i>Sensors and Actuators B: Chemical</i> , 2017, 238, 1070-1083.	7.8	34
9	MOF/polymer composite synthesized using a double solvent method offers enhanced water and CO ₂ adsorption properties. <i>Chemical Communications</i> , 2018, 54, 10602-10605.	4.1	33
10	A metal-organic framework/polymer derived catalyst containing single-atom nickel species for electrocatalysis. <i>Chemical Science</i> , 2020, 11, 10991-10997.	7.4	32
11	Selective CO ₂ adsorption by a new metal-organic framework: synergy between open metal sites and a charged imidazolium backbone. <i>Dalton Transactions</i> , 2018, 47, 10527-10535.	3.3	31
12	Simulation of a forward feed multiple effect desalination plant with vertical tube evaporators. <i>Chemical Engineering and Processing: Process Intensification</i> , 2014, 75, 110-118.	3.6	29
13	Synergistic material and process development: Application of a metal-organic framework, Cu-TDPAT, in single-cycle hydrogen purification and CO ₂ capture from synthesis gas. <i>Chemical Engineering Journal</i> , 2021, 414, 128778.	12.7	23
14	SnO ₂ decorated SiO ₂ chemical sensors: Enhanced sensing performance toward ethanol and acetone. <i>Materials Science in Semiconductor Processing</i> , 2017, 68, 87-96.	4.0	22
15	A Two Step Postsynthetic Modification Strategy: Appending Short Chain Polyamines to Zn-NH ₂ -BDC MOF for Enhanced CO ₂ Adsorption. <i>Inorganic Chemistry</i> , 2021, 60, 11720-11729.	4.0	21
16	Understanding How Ligand Functionalization Influences CO ₂ and N ₂ Adsorption in a Sodalite Metal-Organic Framework. <i>Chemistry of Materials</i> , 2020, 32, 1526-1536.	6.7	19
17	A data-driven perspective on the colours of metal-organic frameworks. <i>Chemical Science</i> , 2021, 12, 3587-3598.	7.4	16
18	Recent Progress in Adsorptive Removal of Water Pollutants by Metal-Organic Frameworks. <i>ChemNanoMat</i> , 2022, 8, .	2.8	16

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19	An <i>In Situ</i> Neutron Diffraction and DFT Study of Hydrogen Adsorption in a Sodalite-Type Metal-Organic Framework, Cu-Tri. European Journal of Inorganic Chemistry, 2019, 2019, 1147-1154.	2.0	15
20	Mechanistic Study on Thermally Induced Lattice Stiffening of ZIF-8. Chemistry of Materials, 2021, 33, 4035-4044.	6.7	12
21	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
22	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
23	3D <i>vs.</i> turbostratic: controlling metal-organic framework dimensionality <i>via</i> N-heterocyclic carbene chemistry. Chemical Science, 2022, 13, 6418-6428.	7.4	2
24	Enhancing MOF performance through the Introduction of polymer guests. , 0, , .		0
25	Metal organic frameworks for photocatalytic water treatment. , 2022, , 37-72.		0