

# Hossein Molavi

## List of Publications by Year in descending order

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Version: 2024-02-01

30  
papers

2,541  
citations

201674

27  
h-index

454955

30  
g-index

30  
all docs

30  
docs citations

30  
times ranked

1765  
citing authors

#	ARTICLE	IF	CITATIONS
1	Superior chemical stability of UiO-66 metal-organic frameworks (MOFs) for selective dye adsorption. <i>Chemical Engineering Journal</i> , 2020, 399, 125346.	12.7	305
2	Selective dye adsorption by highly water stable metal-organic framework: Long term stability analysis in aqueous media. <i>Applied Surface Science</i> , 2018, 445, 424-436.	6.1	240
3	Ethylenediamine-functionalized Zr-based MOF for efficient removal of heavy metal ions from water. <i>Chemosphere</i> , 2021, 264, 128466.	8.2	179
4	Enhancing CO <sub>2</sub> /N <sub>2</sub> adsorption selectivity via post-synthetic modification of NH <sub>2</sub> -UiO-66(Zr). <i>Microporous and Mesoporous Materials</i> , 2018, 257, 193-201.	4.4	170
5	UiO-66 metal-organic frameworks in water treatment: A critical review. <i>Progress in Materials Science</i> , 2022, 125, 100904.	32.8	161
6	Preparation of Metal-Organic Frameworks UiO-66 for Adsorptive Removal of Methotrexate from Aqueous Solution. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2018, 28, 177-186.	3.7	129
7	Improving mixed-matrix membrane performance <i>via</i> PMMA grafting from functionalized NH <sub>2</sub> -UiO-66. <i>Journal of Materials Chemistry A</i> , 2018, 6, 2775-2791.	10.3	117
8	Rapid and tunable selective adsorption of dyes using thermally oxidized nanodiamond. <i>Journal of Colloid and Interface Science</i> , 2018, 524, 52-64.	9.4	99
9	Magnetic Fe <sub>3</sub> O <sub>4</sub> @UiO-66 nanocomposite for rapid adsorption of organic dyes from aqueous solution. <i>Journal of Molecular Liquids</i> , 2021, 322, 114910.	4.9	97
10	Evaluation of UiO-66 metal organic framework as an effective sorbent for Curcumin's overdose. <i>Applied Organometallic Chemistry</i> , 2018, 32, e4221.	3.5	93
11	Simultaneous detection and removal of fluoride from water using smart metal-organic framework-based adsorbents. <i>Coordination Chemistry Reviews</i> , 2021, 445, 214037.	18.8	76
12	Coordination chemistry of metal-organic frameworks: Detection, adsorption, and photodegradation of tetracycline antibiotics and beyond. <i>Coordination Chemistry Reviews</i> , 2022, 464, 214562.	18.8	76
13	Mixed-Matrix Composite Membranes Based on UiO-66-Derived MOFs for CO <sub>2</sub> Separation. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 9448-9461.	8.0	70
14	Nanodiamond-filled chitosan as an efficient adsorbent for anionic dye removal from aqueous solutions. <i>Journal of Environmental Chemical Engineering</i> , 2018, 6, 3283-3294.	6.7	62
15	Aluminum-based metal-organic frameworks for adsorptive removal of anti-cancer (methotrexate) drug from aqueous solutions. <i>Journal of Environmental Management</i> , 2021, 277, 111448.	7.8	59
16	Ultrafast and simultaneous removal of anionic and cationic dyes by nanodiamond/UiO-66 hybrid nanocomposite. <i>Chemosphere</i> , 2020, 247, 125882.	8.2	56
17	Impact of scale, activation solvents, and aged conditions on gas adsorption properties of UiO-66. <i>Journal of Environmental Management</i> , 2020, 274, 111155.	7.8	53
18	Ethylenediamine Grafting to Functionalized NH <sub>2</sub> -UiO-66 Using Green Aza-Michael Addition Reaction to Improve CO <sub>2</sub> /CH <sub>4</sub> Adsorption Selectivity. <i>Industrial &amp; Engineering Chemistry Research</i> , 2018, 57, 7030-7039.	3.7	52

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19	Fe <sub>3</sub> O <sub>4</sub> @PAA@UiO-66-NH <sub>2</sub> magnetic nanocomposite for selective adsorption of Quercetin. <i>Chemosphere</i> , 2021, 275, 130087.	8.2	47
20	Effective gas separation through graphene oxide containing mixed matrix membranes. <i>Journal of Applied Polymer Science</i> , 2018, 135, 46271.	2.6	45
21	Amino-silane-grafted NH <sub>2</sub> -MIL-53(Al)/polyethersulfone mixed matrix membranes for CO <sub>2</sub> /CH <sub>4</sub> separation. <i>Dalton Transactions</i> , 2019, 48, 13555-13566.	3.3	45
22	Enhanced adsorption removal performance of UiO-66 by rational hybridization with nanodiamond. <i>Microporous and Mesoporous Materials</i> , 2020, 296, 110008.	4.4	44
23	Zr-Based MOFs with High Drug Loading for Adsorption Removal of Anti-Cancer Drugs: A Potential Drug Storage. <i>Applied Organometallic Chemistry</i> , 2020, 34, e5549.	3.5	43
24	Experimental Study on the Influence of Initial pH, Ionic Strength, and Temperature on the Selective Adsorption of Dyes onto Nanodiamonds. <i>Journal of Chemical &amp; Engineering Data</i> , 2019, 64, 1508-1514.	1.9	42
25	Adsorption performance of UiO-66 towards organic dyes: Effect of activation conditions. <i>Journal of Molecular Liquids</i> , 2021, 321, 114487.	4.9	42
26	Grafting of sulfonated monomer onto an amino-silane functionalized 2-aminoterephthalate metal-organic framework via surface-initiated redox polymerization: proton-conducting solid electrolytes. <i>Polymer International</i> , 2015, 64, 1578-1584.	3.1	35
27	CO <sub>2</sub> /CH <sub>4</sub> separation by mixed-matrix membranes holding functionalized NH <sub>2</sub> -MIL-101(Al) nanoparticles: Effect of amino-silane functionalization. <i>Chemical Engineering Research and Design</i> , 2021, 176, 49-59.	5.6	34
28	Efficient removal of heavy metal ions from aqueous media by unmodified and modified nanodiamonds. <i>Journal of Environmental Management</i> , 2022, 316, 115214.	7.8	31
29	Photo-curable acrylate polyurethane as efficient composite membrane for CO <sub>2</sub> separation. <i>Polymer</i> , 2018, 149, 178-191.	3.8	20
30	Thermally Oxidized Nanodiamond: An Effective Sorbent for Separation of Methotrexate from Aqueous Media: Synthesis, Characterization, In Vivo and In Vitro Biocompatibility Study. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2019, 29, 701-709.	3.7	19