

Milad Rabbani Esfahani

List of Publications by Year in descending order

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34
papers

2,160
citations

270111

25
h-index

425179

34
g-index

34
all docs

34
docs citations

34
times ranked

2670
citing authors

#	ARTICLE	IF	CITATIONS
1	Silver metal organic frameworks and copper metal organic frameworks immobilized on graphene oxide for enhanced adsorption in water treatment. <i>Chemical Engineering Journal</i> , 2022, 439, 135542.	6.6	34
2	Functionalized-MXene Thin-Film Nanocomposite Hollow Fiber Membranes for Enhanced PFAS Removal from Water. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 25397-25408.	4.0	23
3	The computational quantum mechanical study of sulfamide drug adsorption onto X ₁₂ Y ₁₂ fullerene-like nanocages: detailed DFT and QTAIM investigations. <i>Journal of Biomolecular Structure and Dynamics</i> , 2021, 39, 5427-5437.	2.0	59
4	DFT calculations towards the geometry optimization, electronic structure, infrared spectroscopy and UV-vis analyses of Favipiravir adsorption on the first-row transition metals doped fullerenes; a new strategy for COVID-19 therapy. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021, 247, 119082.	2.0	72
5	Cu-MOF-Polydopamine-Incorporated Functionalized Nanofiltration Membranes for Water Treatment: Effect of Surficial Adhesive Modification Techniques. <i>ACS ES&T Water</i> , 2021, 1, 430-439.	2.3	34
6	Are nickel- and titanium- doped fullerenes suitable adsorbents for dopamine in an aqueous solution? Detailed DFT and AIM studies. <i>Journal of Molecular Liquids</i> , 2021, 322, 114942.	2.3	28
7	Polymer-Based Devices and Remediation Strategies for Emerging Contaminants in Water. <i>ACS Applied Polymer Materials</i> , 2021, 3, 549-577.	2.0	39
8	An Evolving Insight into Metal Organic Framework-Functionalized Membranes for Water and Wastewater Treatment and Resource Recovery. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 6869-6907.	1.8	45
9	The role of support layer properties on the fabrication and performance of thin-film composite membranes: The significance of selective layer-support layer connectivity. <i>Separation and Purification Technology</i> , 2021, 278, 119451.	3.9	25
10	A Review on the Nanofiltration Process for Treating Wastewaters from the Petroleum Industry. <i>Separations</i> , 2021, 8, 206.	1.1	22
11	Recent advances in functionalized polymer membranes for biofouling control and mitigation in forward osmosis. <i>Journal of Membrane Science</i> , 2020, 596, 117604.	4.1	138
12	Improved antifouling and antibacterial properties of forward osmosis membranes through surface modification with zwitterions and silver-based metal organic frameworks. <i>Journal of Membrane Science</i> , 2020, 611, 118352.	4.1	80
13	Sustainable Novel Bamboo-Based Membranes for Water Treatment Fabricated by Regeneration of Bamboo Waste Fibers. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 4225-4235.	3.2	40
14	Experimental and molecular dynamics study on dye removal from water by a graphene oxide-copper-metal organic framework nanocomposite. <i>Journal of Water Process Engineering</i> , 2020, 34, 101180.	2.6	95
15	Tailoring the Biocidal Activity of Novel Silver-Based Metal Azolate Frameworks. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 7588-7599.	3.2	48
16	Synthesis and application of chitosan/tripolyphosphate/graphene oxide hydrogel as a new drug delivery system for Sumatriptan Succinate. <i>Journal of Molecular Liquids</i> , 2020, 315, 113835.	2.3	59
17	Experimental study on heat transfer and pressure drop of in-house synthesized graphene oxide nanofluids. <i>Heat Transfer Engineering</i> , 2019, 40, 1722-1735.	1.2	9
18	Facile Cu-BTC surface modification of thin chitosan film coated polyethersulfone membranes with improved antifouling properties for sustainable removal of manganese. <i>Journal of Membrane Science</i> , 2019, 588, 117200.	4.1	69

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19	Nanocomposite membranes for water separation and purification: Fabrication, modification, and applications. <i>Separation and Purification Technology</i> , 2019, 213, 465-499.	3.9	346
20	A novel gold nanocomposite membrane with enhanced permeation, rejection and self-cleaning ability. <i>Journal of Membrane Science</i> , 2019, 573, 309-319.	4.1	47
21	Core-size regulated aggregation/disaggregation of citrate-coated gold nanoparticles (50 nm) and dissolved organic matter: Extinction, emission, and scattering evidence. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018, 189, 415-426.	2.0	13
22	Exploiting Synergetic Effects of Graphene Oxide and a Silver-Based Metal-Organic Framework To Enhance Antifouling and Anti-Biofouling Properties of Thin-Film Nanocomposite Membranes. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 42967-42978.	4.0	161
23	Enhanced performance of polyhedral oligomeric silsesquioxanes/polysulfone nanocomposite membrane with improved permeability and antifouling properties for water treatment. <i>Journal of Environmental Chemical Engineering</i> , 2018, 6, 5683-5692.	3.3	25
24	Extinction, emission, and scattering spectroscopy of 50 nm citrate-coated gold nanoparticles: An argument for curvature effects on aggregation. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2017, 175, 100-109.	2.0	25
25	Exergy analysis of a shell-and-tube heat exchanger using graphene oxide nanofluids. <i>Experimental Thermal and Fluid Science</i> , 2017, 83, 100-106.	1.5	93
26	Investigation of UV/H ₂ O ₂ pretreatment effects on humic acid fouling on polysulfone/titanium dioxide and polysulfone/multiwall carbon nanotube Nanocomposite ultrafiltration membranes. <i>Environmental Progress and Sustainable Energy</i> , 2017, 36, 27-37.	1.3	11
27	Humic acid disaggregation with/of gold nanoparticles: Effects of nanoparticle size and pH. <i>Environmental Nanotechnology, Monitoring and Management</i> , 2016, 6, 54-63.	1.7	16
28	Sequential Use of UV/H ₂ O ₂ (PSF/TiO ₂ /MWCNT) Mixed Matrix Membranes for Dye Removal in Water Purification: Membrane Permeation, Fouling, Rejection, and Decolorization. <i>Environmental Engineering Science</i> , 2016, 33, 430-440.	0.8	45
29	Effect of particle size and viscosity on thermal conductivity enhancement of graphene oxide nanofluid. <i>International Communications in Heat and Mass Transfer</i> , 2016, 76, 308-315.	2.9	190
30	Removal of Acid Black 1 from water by the pulsed corona discharge advanced oxidation method. <i>Journal of Water Process Engineering</i> , 2016, 10, 1-8.	2.6	29
31	Effects of a dual nanofiller, nano-TiO ₂ and MWCNT, for polysulfone-based nanocomposite membranes for water purification. <i>Desalination</i> , 2015, 372, 47-56.	4.0	108
32	Comparing humic acid and protein fouling on polysulfone ultrafiltration membranes: Adsorption and reversibility. <i>Journal of Water Process Engineering</i> , 2015, 6, 83-92.	2.6	33
33	Abiotic reversible self-assembly of fulvic and humic acid aggregates in low electrolytic conductivity solutions by dynamic light scattering and zeta potential investigation. <i>Science of the Total Environment</i> , 2015, 537, 81-92.	3.9	74
34	Pretreatment of sugarcane bagasse by ultrasound energy and dilute acid. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2012, 7, 274-278.	0.8	25