

Milad Rabbani Esfahani

List of Publications by Year in descending order

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34
papers

2,160
citations

236925

25
h-index

377865

34
g-index

34
all docs

34
docs citations

34
times ranked

2359
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanocomposite membranes for water separation and purification: Fabrication, modification, and applications. <i>Separation and Purification Technology</i> , 2019, 213, 465-499.	7.9	346
2	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.	5.6	190
3	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.	8.0	161
4	Recent advances in functionalized polymer membranes for biofouling control and mitigation in forward osmosis. <i>Journal of Membrane Science</i> , 2020, 596, 117604.	8.2	138
5	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.	8.2	108
6	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.	5.6	95
7	Exergy analysis of a shell-and-tube heat exchanger using graphene oxide nanofluids. <i>Experimental Thermal and Fluid Science</i> , 2017, 83, 100-106.	2.7	93
8	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.	8.2	80
9	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.	8.0	74
10	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.	3.9	72
11	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.	8.2	69
12	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.	3.5	59
13	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.	4.9	59
14	Tailoring the Biocidal Activity of Novel Silver-Based Metal Azolate Frameworks. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 7588-7599.	6.7	48
15	A novel gold nanocomposite membrane with enhanced permeation, rejection and self-cleaning ability. <i>Journal of Membrane Science</i> , 2019, 573, 309-319.	8.2	47
16	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.	1.6	45
17	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.	3.7	45
18	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.	6.7	40

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19	Polymer-Based Devices and Remediation Strategies for Emerging Contaminants in Water. ACS Applied Polymer Materials, 2021, 3, 549-577.	4.4	39
20	Cu-MOF-Polydopamine-Incorporated Functionalized Nanofiltration Membranes for Water Treatment: Effect of Surficial Adhesive Modification Techniques. ACS ES&T Water, 2021, 1, 430-439.	4.6	34
21	Silver metal organic frameworks and copper metal organic frameworks immobilized on graphene oxide for enhanced adsorption in water treatment. Chemical Engineering Journal, 2022, 439, 135542.	12.7	34
22	Comparing humic acid and protein fouling on polysulfone ultrafiltration membranes: Adsorption and reversibility. Journal of Water Process Engineering, 2015, 6, 83-92.	5.6	33
23	Removal of Acid Black 1 from water by the pulsed corona discharge advanced oxidation method. Journal of Water Process Engineering, 2016, 10, 1-8.	5.6	29
24	Are nickel- and titanium- doped fullerenes suitable adsorbents for dopamine in an aqueous solution? Detailed DFT and AIM studies. Journal of Molecular Liquids, 2021, 322, 114942.	4.9	28
25	Pretreatment of sugarcane bagasse by ultrasound energy and dilute acid. Asia-Pacific Journal of Chemical Engineering, 2012, 7, 274-278.	1.5	25
26	Extinction, emission, and scattering spectroscopy of 50 nm citrate-coated gold nanoparticles: An argument for curvature effects on aggregation. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2017, 175, 100-109.	3.9	25
27	Enhanced performance of polyhedral oligomeric silsesquioxanes /polysulfone nanocomposite membrane with improved permeability and antifouling properties for water treatment. Journal of Environmental Chemical Engineering, 2018, 6, 5683-5692.	6.7	25
28	The role of support layer properties on the fabrication and performance of thin-film composite membranes: The significance of selective layer-support layer connectivity. Separation and Purification Technology, 2021, 278, 119451.	7.9	25
29	Functionalized-MXene Thin-Film Nanocomposite Hollow Fiber Membranes for Enhanced PFAS Removal from Water. ACS Applied Materials & Interfaces, 2022, 14, 25397-25408.	8.0	23
30	A Review on the Nanofiltration Process for Treating Wastewaters from the Petroleum Industry. Separations, 2021, 8, 206.	2.4	22
31	Humic acid disaggregation with/of gold nanoparticles: Effects of nanoparticle size and pH. Environmental Nanotechnology, Monitoring and Management, 2016, 6, 54-63.	2.9	16
32	Core-size regulated aggregation/disaggregation of citrate-coated gold nanoparticles (50 nm) and dissolved organic matter: Extinction, emission, and scattering evidence. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2018, 189, 415-426.	3.9	13
33	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. Environmental Progress and Sustainable Energy, 2017, 36, 27-37.	2.3	11
34	Experimental study on heat transfer and pressure drop of in-house synthesized graphene oxide nanofluids. Heat Transfer Engineering, 2019, 40, 1722-1735.	1.9	9