

Maryam Homayoonfal

List of Publications by Year in descending order

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34
papers

1,063
citations

430843

18
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414395

32
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all docs

34
docs citations

34
times ranked

1211
citing authors

#	ARTICLE	IF	CITATIONS
1	Preparation of polysulfone nanofiltration membranes by UV-assisted grafting polymerization for water softening. <i>Desalination</i> , 2010, 263, 217-225.	8.2	134
2	Degradation of diphenhydramine by the photocatalysts of ZnO/Fe ₂ O ₃ and TiO ₂ /Fe ₂ O ₃ based on clinoptilolite: Structural and operational comparison. <i>Journal of Environmental Chemical Engineering</i> , 2017, 5, 5707-5720.	6.7	84
3	Amoxicillin separation from pharmaceutical solution by pH sensitive nanofiltration membranes. <i>Separation and Purification Technology</i> , 2014, 130, 74-83.	7.9	83
4	Novel sulfonated polyamide thin-film composite nanofiltration membranes with improved water flux and anti-fouling properties. <i>Desalination</i> , 2016, 377, 11-22.	8.2	76
5	Fabrication of alumina/polysulfone nanocomposite membranes with biofouling mitigation approach in membrane bioreactors. <i>Journal of Industrial and Engineering Chemistry</i> , 2015, 22, 357-367.	5.8	58
6	Zeolitic imidazolate framework membranes for gas and water purification. <i>Environmental Chemistry Letters</i> , 2020, 18, 1-52.	16.2	56
7	Effect of metal and metal oxide nanoparticle impregnation route on structure and liquid filtration performance of polymeric nanocomposite membranes: a comprehensive review. <i>Desalination and Water Treatment</i> , 2013, 51, 3295-3316.	1.0	55
8	A comparison between blending and surface deposition methods for the preparation of iron oxide/polysulfone nanocomposite membranes. <i>Desalination</i> , 2014, 354, 125-142.	8.2	52
9	Effect of lemon juice on microstructure, phase changes, and magnetic performance of CoFe ₂ O ₄ nanoparticles and their use on release of anti-cancer drugs. <i>Ceramics International</i> , 2021, 47, 20210-20219.	4.8	48
10	Amoxicillin separation from pharmaceutical wastewater by high permeability polysulfone nanofiltration membrane. <i>Journal of Environmental Health Science & Engineering</i> , 2013, 11, 9.	3.0	45
11	What is the concentration threshold of nanoparticles within the membrane structure? A case study of Al ₂ O ₃ /PSf nanocomposite membrane. <i>Desalination</i> , 2015, 372, 75-88.	8.2	43
12	Fouling mitigation behavior of magnetic responsive nanocomposite membranes in a magnetic membrane bioreactor. <i>Journal of Membrane Science</i> , 2016, 520, 881-894.	8.2	39
13	Fabrication of Al ₂ O ₃ /PSf nanocomposite membranes: efficiency comparison of coating and blending methods in modification of filtration performance. <i>Desalination and Water Treatment</i> , 2013, 51, 6736-6742.	1.0	32
14	Engineering design of a biofilm formed on a pH-sensitive ZnO/PSf nanocomposite membrane with antibacterial properties. <i>RSC Advances</i> , 2016, 6, 112269-112281.	3.6	23
15	Synergistic effect of concurrent presence of zirconium oxide and iron oxide in the form of core-shell nanoparticles on the performance of Fe ₃ O ₄ @ZrO ₂ /PAN nanocomposite membrane. <i>Ceramics International</i> , 2017, 43, 17174-17185.	4.8	22
16	Coating carboxylic and sulfate functional groups on ZrO ₂ nanoparticles: Antifouling enhancement of nanocomposite membranes during water treatment. <i>Reactive and Functional Polymers</i> , 2018, 131, 299-314.	4.1	21
17	Fabrication of polysulfone/zinc oxide nanocomposite membrane: Investigation of pore forming agent on fouling behavior. <i>Korean Journal of Chemical Engineering</i> , 2016, 33, 3184-3193.	2.7	19
18	Employing magnetism of Fe ₃ O ₄ and hydrophilicity of ZrO ₂ to mitigate biofouling in magnetic MBR by Fe ₃ O ₄ -coated ZrO ₂ /PAN nanocomposite membrane. <i>Environmental Technology (United Kingdom)</i> , 2020, 41, 2683-2704.	2.2	18

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19	Fabrication of magnetic nanocomposite membrane for separation of organic contaminant from water. <i>Desalination and Water Treatment</i> , 2015, 54, 3603-3609.	1.0	17
20	Assessment of operating parameters for photocatalytic degradation of a textile dye by Fe ₂ O ₃ /TiO ₂ /clinoptilolite nanocatalyst using Taguchi experimental design. <i>Research on Chemical Intermediates</i> , 2016, 42, 4021-4040.	2.7	17
21	Application of UV irradiation enhanced by CuS photosensitive nanoparticles to mitigate polysulfone membrane fouling. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2020, 390, 112304.	3.9	17
22	Application of zinc oxide and sodium alginate for biofouling mitigation in a membrane bioreactor treating urban wastewater. <i>Biofouling</i> , 2020, 36, 660-678.	2.2	14
23	Al ₂ O ₃ /poly acrylonitrile nanocomposite membrane: from engineering design of pores to efficient biological macromolecules separation. <i>Journal of Porous Materials</i> , 2018, 25, 1161-1181.	2.6	13
24	Sulfonation and mixing with TiO ₂ nanoparticles as two simultaneous solutions for reducing fouling of polysulfone loose nanofiltration membrane. <i>Korean Journal of Chemical Engineering</i> , 2016, 33, 2439-2452.	2.7	12
25	Role of Organic Acids in Flux Enhancement of Polyamide Nanofiltration Membranes. <i>Chemical Engineering and Technology</i> , 2017, 40, 76-87.	1.5	11
26	Effect of solution chemistry and operating conditions on the nanofiltration of acid dyes by a nanocomposite membrane. <i>Water Science and Technology</i> , 2011, 64, 2404-2409.	2.5	9
27	Where is the best site for loading nanoparticles in a membrane? To achieve a high flux and cephalixin separation simultaneously. <i>Journal of Water Process Engineering</i> , 2020, 38, 101578.	5.6	7
28	The supplement role of iron oxide and zirconium oxide nanoparticles as an advanced composite compound for enhancing the efficiency of thin-film nanocomposite membranes. <i>Polymers for Advanced Technologies</i> , 2021, 32, 1345-1362.	3.2	7
29	Achieving high separation of cephalixin in a photocatalytic membrane reactor: What is the best method for embedding catalyst within the polysulfone membrane structure?. <i>Chemical Engineering Journal</i> , 2022, 450, 138150.	12.7	7
30	Sodium alginate coating: A strategy to fabricate a membrane surface resistant against sodium alginate fouling. <i>Chemical Engineering Research and Design</i> , 2021, 176, 202-217.	5.6	6
31	Modification and characterization of prepared polysulfone ultrafiltration membranes via photografted polymerization: Effect of different additives. <i>Desalination and Water Treatment</i> , 2009, 9, 43-48.	1.0	5
32	Engineering arrangement of nanoparticles within nanocomposite membranes matrix: a suggested way to enhance water flux. <i>Polymer-Plastics Technology and Materials</i> , 2020, 59, 733-752.	1.3	5
33	Membrane pH responsibility as a remote control for pore size arrangement and surface charge adjustment in order to efficient separation of doxorubicin antitumor drug. <i>Separation and Purification Technology</i> , 2022, 282, 120116.	7.9	5
34	Strategies to modify the structure of thin-film composite membranes for advanced separation of metronidazole antibiotic from wastewater. <i>Polymers for Advanced Technologies</i> , 2021, 32, 4765-4786.	3.2	3