## Mohammad Reza Mehrnia

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Preparation of polysulfone nanofiltration membranes by UV-assisted grafting polymerization for water softening. Desalination, 2010, 263, 217-225.	8.2	134
2	Amoxicillin separation from pharmaceutical solution by pH sensitive nanofiltration membranes. Separation and Purification Technology, 2014, 130, 74-83.	7.9	83
3	Membrane bioreactor for treatment of pharmaceutical wastewater containing acetaminophen. Desalination, 2010, 250, 798-800.	8.2	66
4	Fabrication of alumina/polysulfone nanocomposite membranes with biofouling mitigation approach in membrane bioreactors. Journal of Industrial and Engineering Chemistry, 2015, 22, 357-367.	5.8	58
5	Analyze and control fouling in an airlift membrane bioreactor: CFD simulation and experimental studies. Process Biochemistry, 2011, 46, 1138-1145.	3.7	57
6	Effect of metal and metal oxide nanoparticle impregnation route on structure and liquid filtration performance of polymeric nanocomposite membranes: a comprehensive review. Desalination and Water Treatment, 2013, 51, 3295-3316.	1.0	55
7	A comparison between blending and surface deposition methods for the preparation of iron oxide/polysulfone nanocomposite membranes. Desalination, 2014, 354, 125-142.	8.2	52
8	Gas hold-up and oxygen transfer in a draft-tube airlift bioreactor with petroleum-based liquids. Biochemical Engineering Journal, 2005, 22, 105-110.	3.6	45
9	Amoxicillin separation from pharmaceutical wastewater by high permeability polysulfone nanofiltration membrane. Journal of Environmental Health Science & Engineering, 2013, 11, 9.	3.0	45
10	Effect of surface contaminants on oxygen transfer in bubble column reactors. Biochemical Engineering Journal, 2010, 49, 351-360.	3.6	44
11	What is the concentration threshold of nanoparticles within the membrane structure? A case study of Al2O3/PSf nanocomposite membrane. Desalination, 2015, 372, 75-88.	8.2	43
12	Analysis of petroleum biodesulfurization in an airlift bioreactor using response surface methodology. Bioresource Technology, 2011, 102, 10585-10591.	9.6	39
13	Fouling mitigation behavior of magnetic responsive nanocomposite membranes in a magnetic membrane bioreactor. Journal of Membrane Science, 2016, 520, 881-894.	8.2	39
14	Hydrodynamics and oxygen transfer behaviour of water in diesel microemulsions in a draft tube airlift bioreactor. Chemical Engineering and Processing: Process Intensification, 2007, 46, 334-342.	3.6	38
15	Experimental Study and Computational Fluid Dynamics Simulation of a Full-Scale Membrane Bioreactor for Municipal Wastewater Treatment Application. Industrial & Engineering Chemistry Research, 2013, 52, 9930-9939.	3.7	36
16	Municipal wastewater treatment by semi-continuous and membrane algal-bacterial photo-bioreactors. Journal of Water Process Engineering, 2020, 36, 101274.	5.6	36
17	Soluble microbial products (SMPs) release in activated sludge systems: a review. Iranian Journal of Environmental Health Science & Engineering, 2012, 9, 30.	1.8	35
18	Optimal operating strategies of SFDM formation for MBR application. Separation and Purification Technology, 2014, 124, 124-133.	7.9	33

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19	Fabrication of Al <sub>2</sub> O <sub>3</sub> /PSf nanocomposite membranes: efficiency comparison of coating and blending methods in modification of filtration performance. Desalination and Water Treatment, 2013, 51, 6736-6742.	1.0	32
20	Investigation of mercury removal by Micro-Algae dynamic membrane bioreactor from simulated dental waste water. Journal of Environmental Chemical Engineering, 2017, 5, 366-372.	6.7	31
21	Fouling in membrane bioreactors with various concentrations of dead cells. Desalination, 2011, 278, 373-380.	8.2	30
22	Chitosanâ€based nanocomposite membranes with improved properties: Effect of cellulose acetate blending and TiO <sub>2</sub> nanoparticles incorporation. Polymer Composites, 2018, 39, 4452-4466.	4.6	29
23	Low-cost monofilament mesh filter used in membrane bioreactor process: Filtration characteristics and resistance analysis. Desalination, 2012, 286, 429-435.	8.2	28
24	Petrochemical wastewater treatment and reuse by MBR: A pilot study for ethylene oxide/ethylene glycol and olefin units. Journal of Industrial and Engineering Chemistry, 2015, 25, 265-271.	5.8	28
25	Fouling in a novel airlift oxidation ditch membrane bioreactor (AOXMBR) at different high organic loading rate. Separation and Purification Technology, 2013, 105, 69-78.	7.9	27
26	Functional synergy of anti-mir221 and nanohydroxyapatite scaffold in bone tissue engineering of rat skull. Journal of Materials Science: Materials in Medicine, 2016, 27, 132.	3.6	26
27	Application of response surface methodology for investigation of membrane fouling behaviours in microalgal membrane bioreactor: the effect of aeration rate and biomass concentration. RSC Advances, 2016, 6, 111182-111189.	3.6	25
28	Fouling mitigation in membrane bioreactors using multivalent cations. Colloids and Surfaces B: Biointerfaces, 2013, 109, 90-96.	5.0	24
29	Influence of top-section design and draft-tube height on the performance of airlift bioreactors containing water-in-oil microemulsion. Journal of Chemical Technology and Biotechnology, 2004, 79, 260-267.	3.2	23
30	Engineering design of a biofilm formed on a pH-sensitive ZnO/PSf nanocomposite membrane with antibacterial properties. RSC Advances, 2016, 6, 112269-112281.	3.6	23
31	Evaluation of Nutrient Removal and Biomass Production Through Mixotrophic, Heterotrophic, and Photoautotrophic Cultivation of Chlorella in Nitrate and Ammonium Wastewater. International Journal of Environmental Research, 2018, 12, 167-178.	2.3	23
32	Biomass characterization by dielectric monitoring of viability and oxygen uptake rate measurements in a novel membrane bioreactor. Bioresource Technology, 2013, 140, 357-362.	9.6	22
33	Synergistic effect of concurrent presence of zirconium oxide and iron oxide in the form of core-shell nanoparticles on the performance of Fe3O4@ZrO2 /PAN nanocomposite membrane. Ceramics International, 2017, 43, 17174-17185.	4.8	22
34	Design and operational aspects of airlift bioreactors for petroleum biodesulfurization. Environmental Progress, 2004, 23, 206-214.	0.7	20
35	Effect of Microalgae/Activated Sludge Ratio on Cooperative Treatment of Anaerobic Effluent of Municipal Wastewater. Applied Biochemistry and Biotechnology, 2014, 172, 131-140.	2.9	20
36	Comparison of different trophic cultivations in microalgal membrane bioreactor containing N-riched wastewater for simultaneous nutrient removal and biomass production. Process Biochemistry, 2016, 51, 1568-1575.	3.7	20

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37	Fabrication of polysulfone/zinc oxide nanocomposite membrane: Investigation of pore forming agent on fouling behavior. Korean Journal of Chemical Engineering, 2016, 33, 3184-3193.	2.7	19
38	Removal of personal care products (PCPs) from greywater using a submerged membrane bioreactor (SMBR): The effect of hydraulic retention time. Journal of Environmental Chemical Engineering, 2020, 8, 104432.	6.7	19
39	Employing magnetism of Fe <sub>3</sub> O <sub>4</sub> and hydrophilicity of ZrO <sub>2</sub> to mitigate biofouling in magnetic MBR by Fe <sub>3</sub> O <sub>4</sub> -coated ZrO <sub>2</sub> /PAN nanocomposite membrane. Environmental Technology (United Kingdom), 2020, 41, 2683-2704.	2.2	18
40	Fabrication of magnetic nanocomposite membrane for separation of organic contaminant from water. Desalination and Water Treatment, 2015, 54, 3603-3609.	1.0	17
41	Pharmaceutical wastewater treatment using membrane bioreactorâ€ozonation system. Water and Environment Journal, 2017, 31, 57-63.	2.2	17
42	Influence of sludge rheological properties on the membrane fouling in submerged membrane bioreactor. Desalination and Water Treatment, 2011, 34, 117-122.	1.0	16
43	An artificial neural network for prediction of gas holdup in bubble columns with oily solutions. Neural Computing and Applications, 2011, 20, 487-494.	5.6	14
44	Improved Modeling of Bubble Column Reactors by Considering the Bubble Size Distribution. Industrial & amp; Engineering Chemistry Research, 2012, 51, 5705-5714.	3.7	14
45	Evaluation of agarose-entrapped magnetic nanoparticles influence on protein adsorption isotherm and kinetics using nickel-iminodiacetic acid ligand. Separation and Purification Technology, 2017, 188, 423-430.	7.9	13
46	Al2O3/poly acrylonitrile nanocomposite membrane: from engineering design of pores to efficient biological macromolecules separation. Journal of Porous Materials, 2018, 25, 1161-1181.	2.6	13
47	Influence of static mixer on the formation and performance of dynamic membrane in a dynamic membrane bioreactor. Separation and Purification Technology, 2018, 206, 324-334.	7.9	13
48	Heterologous production of porcine derived antimicrobial peptide PR-39 in Escherichia coli using SUMO and intein fusion systems. Protein Expression and Purification, 2020, 169, 105568.	1.3	13
49	Rapid separation of microalga <i>Chlorella vulgaris</i> using magnetic chitosan: Process optimization using response surface methodology. Particulate Science and Technology, 2016, 34, 165-172.	2.1	12
50	Fouling in microalgal membrane bioreactor containing nitrate-enriched wastewater under different trophic conditions. Algal Research, 2018, 36, 167-174.	4.6	12
51	Performance of membrane bioreactor in presence of flocculants. Desalination and Water Treatment, 2014, 52, 2933-2938.	1.0	11
52	Influence of alumina nanoparticles on the performance of polyacrylonitrile membranes in MBR. Journal of Environmental Health Science & Engineering, 2022, 20, 375-384.	3.0	10
53	Dynamic membrane behaviours during constant flux filtration in membrane bioreactor coupled with mesh filter. Environmental Technology (United Kingdom), 2015, 36, 1751-1758.	2.2	9
54	Control of mixing for optimal formation of dynamic membrane in MBRs. Desalination and Water Treatment, 2016, 57, 15759-15771.	1.0	9

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55	MBR technology: A practical approach for petrochemical wastewater treatment. Petroleum Science and Technology, 2017, 35, 222-228.	1.5	8
56	Biodegradation of long chain alkanes in halophilic conditions by Alcanivorax sp. strain Est-02 isolated from saline soil. 3 Biotech, 2019, 9, 141.	2.2	8
57	Magnetic MBR technology: from the fabrication of membrane to application in wastewater treatment. Journal of Environmental Health Science & Engineering, 2021, 19, 1015-1023.	3.0	7
58	Determination of bubble size distribution in a bubble column reactor using artificial neural network. Asia-Pacific Journal of Chemical Engineering, 2012, 7, 613-623.	1.5	6
59	Treatment of Synthetic Olefin Plant Wastewater at Various Salt Concentrations in a Membrane Bioreactor. Clean - Soil, Air, Water, 2012, 40, 416-421.	1.1	5
60	Investigating the effect of sparger configuration on the hydrodynamics of a full-scale membrane bioreactor using computational fluid dynamics. RSC Advances, 2015, 5, 105218-105226.	3.6	5
61	Formation of pre-coating dynamic membrane on mesh filter by cross-flow filtration of PAC–water suspension in a bioreactor: experimental and modeling. Desalination and Water Treatment, 2015, 55, 17-27.	1.0	5
62	Towards rational design of porous nanostructured biopolymeric microparticles for biomacromolecules separation: A case study of intraparticle diffusion facilitation and BSA adsorption on agarose microspheres. Materials Science and Engineering C, 2018, 93, 518-528.	7.3	5
63	Experimental Study and Modeling of Fouling in Immersed Membrane Bioreactor Operating in Constant Pressure Filtration. Mathematical Problems in Engineering, 2013, 2013, 1-7.	1.1	4
64	Effect of clinoptilolite addition on nutrient removal in a membrane bioreactor. Desalination and Water Treatment, 2015, 54, 2920-2927.	1.0	4
65	Influence of controlled particle size on pore size distribution and mechanical resistance of agarose beads for bioadsorption application. Particulate Science and Technology, 2019, 37, 843-850.	2.1	4
66	Immobilization of recombinant nanobiofiber CS3 fimbriae onto alginate beads for improvement of cadmium biosorption. Biotechnology and Bioprocess Engineering, 2011, 16, 1019-1026.	2.6	2
67	Improvement of fouling resistance and mechanical reinforcement of polyacrylonitrile membranes by aminoâ€functionalized multiwalled carbon nanotubes for membrane bioreactors applications. Journal of Applied Polymer Science, 0, , .	2.6	2
68	Hybrid powdered activated carbon-activated sludge biofilm formation to mitigate biofouling in dynamic membrane bioreactor for wastewater treatment. Biofouling, 2022, 38, 415-426.	2.2	2
69	Application of dielectric permittivity measurements in physiological state monitoring of bacillus subtilis culture. , 2010, , .		1