

# Mohammad Reza Mehrnia

## List of Publications by Year in descending order

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69  
papers

1,708  
citations

236612

25  
h-index

315357

38  
g-index

69  
all docs

69  
docs citations

69  
times ranked

1965  
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.	4.0	134
2	Amoxicillin separation from pharmaceutical solution by pH sensitive nanofiltration membranes. <i>Separation and Purification Technology</i> , 2014, 130, 74-83.	3.9	83
3	Membrane bioreactor for treatment of pharmaceutical wastewater containing acetaminophen. <i>Desalination</i> , 2010, 250, 798-800.	4.0	66
4	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.	2.9	58
5	Analyze and control fouling in an airlift membrane bioreactor: CFD simulation and experimental studies. <i>Process Biochemistry</i> , 2011, 46, 1138-1145.	1.8	57
6	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
7	A comparison between blending and surface deposition methods for the preparation of iron oxide/polysulfone nanocomposite membranes. <i>Desalination</i> , 2014, 354, 125-142.	4.0	52
8	Gas hold-up and oxygen transfer in a draft-tube airlift bioreactor with petroleum-based liquids. <i>Biochemical Engineering Journal</i> , 2005, 22, 105-110.	1.8	45
9	Amoxicillin separation from pharmaceutical wastewater by high permeability polysulfone nanofiltration membrane. <i>Journal of Environmental Health Science &amp; Engineering</i> , 2013, 11, 9.	1.4	45
10	Effect of surface contaminants on oxygen transfer in bubble column reactors. <i>Biochemical Engineering Journal</i> , 2010, 49, 351-360.	1.8	44
11	What is the concentration threshold of nanoparticles within the membrane structure? A case study of Al <sub>2</sub> O <sub>3</sub> /PSf nanocomposite membrane. <i>Desalination</i> , 2015, 372, 75-88.	4.0	43
12	Analysis of petroleum biodesulfurization in an airlift bioreactor using response surface methodology. <i>Bioresource Technology</i> , 2011, 102, 10585-10591.	4.8	39
13	Fouling mitigation behavior of magnetic responsive nanocomposite membranes in a magnetic membrane bioreactor. <i>Journal of Membrane Science</i> , 2016, 520, 881-894.	4.1	39
14	Hydrodynamics and oxygen transfer behaviour of water in diesel microemulsions in a draft tube airlift bioreactor. <i>Chemical Engineering and Processing: Process Intensification</i> , 2007, 46, 334-342.	1.8	38
15	Experimental Study and Computational Fluid Dynamics Simulation of a Full-Scale Membrane Bioreactor for Municipal Wastewater Treatment Application. <i>Industrial &amp; Engineering Chemistry Research</i> , 2013, 52, 9930-9939.	1.8	36
16	Municipal wastewater treatment by semi-continuous and membrane algal-bacterial photo-bioreactors. <i>Journal of Water Process Engineering</i> , 2020, 36, 101274.	2.6	36
17	Soluble microbial products (SMPs) release in activated sludge systems: a review. <i>Iranian Journal of Environmental Health Science &amp; Engineering</i> , 2012, 9, 30.	1.8	35
18	Optimal operating strategies of SFDM formation for MBR application. <i>Separation and Purification Technology</i> , 2014, 124, 124-133.	3.9	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. <i>Desalination and Water Treatment</i> , 2013, 51, 6736-6742.	1.0	32
20	Investigation of mercury removal by Micro-Algae dynamic membrane bioreactor from simulated dental waste water. <i>Journal of Environmental Chemical Engineering</i> , 2017, 5, 366-372.	3.3	31
21	Fouling in membrane bioreactors with various concentrations of dead cells. <i>Desalination</i> , 2011, 278, 373-380.	4.0	30
22	Chitosan-based nanocomposite membranes with improved properties: Effect of cellulose acetate blending and TiO <sub>2</sub> nanoparticles incorporation. <i>Polymer Composites</i> , 2018, 39, 4452-4466.	2.3	29
23	Low-cost monofilament mesh filter used in membrane bioreactor process: Filtration characteristics and resistance analysis. <i>Desalination</i> , 2012, 286, 429-435.	4.0	28
24	Petrochemical wastewater treatment and reuse by MBR: A pilot study for ethylene oxide/ethylene glycol and olefin units. <i>Journal of Industrial and Engineering Chemistry</i> , 2015, 25, 265-271.	2.9	28
25	Fouling in a novel airlift oxidation ditch membrane bioreactor (AOXMBR) at different high organic loading rate. <i>Separation and Purification Technology</i> , 2013, 105, 69-78.	3.9	27
26	Functional synergy of anti-mir221 and nanohydroxyapatite scaffold in bone tissue engineering of rat skull. <i>Journal of Materials Science: Materials in Medicine</i> , 2016, 27, 132.	1.7	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. <i>RSC Advances</i> , 2016, 6, 111182-111189.	1.7	25
28	Fouling mitigation in membrane bioreactors using multivalent cations. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013, 109, 90-96.	2.5	24
29	Influence of top-section design and draft-tube height on the performance of airlift bioreactors containing water-in-oil microemulsion. <i>Journal of Chemical Technology and Biotechnology</i> , 2004, 79, 260-267.	1.6	23
30	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.	1.7	23
31	Evaluation of Nutrient Removal and Biomass Production Through Mixotrophic, Heterotrophic, and Photoautotrophic Cultivation of <i>Chlorella</i> in Nitrate and Ammonium Wastewater. <i>International Journal of Environmental Research</i> , 2018, 12, 167-178.	1.1	23
32	Biomass characterization by dielectric monitoring of viability and oxygen uptake rate measurements in a novel membrane bioreactor. <i>Bioresource Technology</i> , 2013, 140, 357-362.	4.8	22
33	Synergistic effect of concurrent presence of zirconium oxide and iron oxide in the form of core-shell nanoparticles on the performance of Fe <sub>3</sub> O <sub>4</sub> @ZrO <sub>2</sub> /PAN nanocomposite membrane. <i>Ceramics International</i> , 2017, 43, 17174-17185.	2.3	22
34	Design and operational aspects of airlift bioreactors for petroleum biodesulfurization. <i>Environmental Progress</i> , 2004, 23, 206-214.	0.8	20
35	Effect of Microalgae/Activated Sludge Ratio on Cooperative Treatment of Anaerobic Effluent of Municipal Wastewater. <i>Applied Biochemistry and Biotechnology</i> , 2014, 172, 131-140.	1.4	20
36	Comparison of different trophic cultivations in microalgal membrane bioreactor containing N-riched wastewater for simultaneous nutrient removal and biomass production. <i>Process Biochemistry</i> , 2016, 51, 1568-1575.	1.8	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.	1.2	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.	3.3	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.	1.2	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 bioreactor&Ozonation system. Water and Environment Journal, 2017, 31, 57-63.	1.0	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.	3.2	14
44	Improved Modeling of Bubble Column Reactors by Considering the Bubble Size Distribution. Industrial & Engineering Chemistry Research, 2012, 51, 5705-5714.	1.8	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.	3.9	13
46	Al <sub>2</sub> O <sub>3</sub> /poly acrylonitrile nanocomposite membrane: from engineering design of pores to efficient biological macromolecules separation. Journal of Porous Materials, 2018, 25, 1161-1181.	1.3	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.	3.9	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.	0.6	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.	1.1	12
50	Fouling in microalgal membrane bioreactor containing nitrate-enriched wastewater under different trophic conditions. Algal Research, 2018, 36, 167-174.	2.4	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.	1.4	10
53	Dynamic membrane behaviours during constant flux filtration in membrane bioreactor coupled with mesh filter. Environmental Technology (United Kingdom), 2015, 36, 1751-1758.	1.2	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. <i>Petroleum Science and Technology</i> , 2017, 35, 222-228.	0.7	8
56	Biodegradation of long chain alkanes in halophilic conditions by <i>Alcanivorax</i> sp. strain Est-02 isolated from saline soil. <i>3 Biotech</i> , 2019, 9, 141.	1.1	8
57	Magnetic MBR technology: from the fabrication of membrane to application in wastewater treatment. <i>Journal of Environmental Health Science &amp; Engineering</i> , 2021, 19, 1015-1023.	1.4	7
58	Determination of bubble size distribution in a bubble column reactor using artificial neural network. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2012, 7, 613-623.	0.8	6
59	Treatment of Synthetic Olefin Plant Wastewater at Various Salt Concentrations in a Membrane Bioreactor. <i>Clean - Soil, Air, Water</i> , 2012, 40, 416-421.	0.7	5
60	Investigating the effect of sparger configuration on the hydrodynamics of a full-scale membrane bioreactor using computational fluid dynamics. <i>RSC Advances</i> , 2015, 5, 105218-105226.	1.7	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. <i>Desalination and Water Treatment</i> , 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. <i>Materials Science and Engineering C</i> , 2018, 93, 518-528.	3.8	5
63	Experimental Study and Modeling of Fouling in Immersed Membrane Bioreactor Operating in Constant Pressure Filtration. <i>Mathematical Problems in Engineering</i> , 2013, 2013, 1-7.	0.6	4
64	Effect of clinoptilolite addition on nutrient removal in a membrane bioreactor. <i>Desalination and Water Treatment</i> , 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. <i>Particulate Science and Technology</i> , 2019, 37, 843-850.	1.1	4
66	Immobilization of recombinant nanobiofiber CS3 fimbriae onto alginate beads for improvement of cadmium biosorption. <i>Biotechnology and Bioprocess Engineering</i> , 2011, 16, 1019-1026.	1.4	2
67	Improvement of fouling resistance and mechanical reinforcement of polyacrylonitrile membranes by amino functionalized multiwalled carbon nanotubes for membrane bioreactors applications. <i>Journal of Applied Polymer Science</i> , 0, , .	1.3	2
68	Hybrid powdered activated carbon-activated sludge biofilm formation to mitigate biofouling in dynamic membrane bioreactor for wastewater treatment. <i>Biofouling</i> , 2022, 38, 415-426.	0.8	2
69	Application of dielectric permittivity measurements in physiological state monitoring of <i>Bacillus subtilis</i> culture. , 2010, , .		1