

# Mohammad Reza Mehrnia

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

67

papers

1,329

citations

22

h-index

32

g-index

69

ext. papers

1,515

ext. citations

5.1

avg, IF

4.94

L-index

#	Paper	IF	Citations
67	Magnetic MBR technology: from the fabrication of membrane to application in wastewater treatment. <i>Journal of Environmental Health Science &amp; Engineering</i> , <b>2021</b> , 19, 1015-1023	2.9	2
66	Municipal wastewater treatment by semi-continuous and membrane algal-bacterial photo-bioreactors. <i>Journal of Water Process Engineering</i> , <b>2020</b> , 36, 101274	6.7	18
65	Heterologous production of porcine derived antimicrobial peptide PR-39 in Escherichia coli using SUMO and intein fusion systems. <i>Protein Expression and Purification</i> , <b>2020</b> , 169, 105568	2	6
64	Removal of personal care products (PCPs) from greywater using a submerged membrane bioreactor (SMBR): The effect of hydraulic retention time. <i>Journal of Environmental Chemical Engineering</i> , <b>2020</b> , 8, 104432	6.8	8
63	Employing magnetism of FeO and hydrophilicity of ZrO to mitigate biofouling in magnetic MBR by FeO-coated ZrO/PAN nanocomposite membrane. <i>Environmental Technology (United Kingdom)</i> , <b>2020</b> , 41, 2683-2704	2.6	13
62	Biodegradation of long chain alkanes in halophilic conditions by sp. strain Est-02 isolated from saline soil. <i>3 Biotech</i> , <b>2019</b> , 9, 141	2.8	5
61	Influence of controlled particle size on pore size distribution and mechanical resistance of agarose beads for bioadsorption application. <i>Particulate Science and Technology</i> , <b>2019</b> , 37, 843-850	2	3
60	Evaluation of Nutrient Removal and Biomass Production Through Mixotrophic, Heterotrophic, and Photoautotrophic Cultivation of Chlorella in Nitrate and Ammonium Wastewater. <i>International Journal of Environmental Research</i> , <b>2018</b> , 12, 167-178	2.9	15
59	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> , <b>2018</b> , 93, 518-528	8.3	4
58	Influence of static mixer on the formation and performance of dynamic membrane in a dynamic membrane bioreactor. <i>Separation and Purification Technology</i> , <b>2018</b> , 206, 324-334	8.3	11
57	Al <sub>2</sub> O <sub>3</sub> /poly acrylonitrile nanocomposite membrane: from engineering design of pores to efficient biological macromolecules separation. <i>Journal of Porous Materials</i> , <b>2018</b> , 25, 1161-1181	2.4	7
56	Chitosan-based nanocomposite membranes with improved properties: Effect of cellulose acetate blending and TiO <sub>2</sub> nanoparticles incorporation. <i>Polymer Composites</i> , <b>2018</b> , 39, 4452-4466	3	19
55	Fouling in microalgal membrane bioreactor containing nitrate-enriched wastewater under different trophic conditions. <i>Algal Research</i> , <b>2018</b> , 36, 167-174	5	9
54	Pharmaceutical wastewater treatment using membrane bioreactor-ozonation system. <i>Water and Environment Journal</i> , <b>2017</b> , 31, 57-63	1.7	11
53	MBR technology: A practical approach for petrochemical wastewater treatment. <i>Petroleum Science and Technology</i> , <b>2017</b> , 35, 222-228	1.4	7
52	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> , <b>2017</b> , 43, 17174-17185	5.1	17
51	Evaluation of agarose-entrapped magnetic nanoparticles influence on protein adsorption isotherm and kinetics using nickel-iminodiacetic acid ligand. <i>Separation and Purification Technology</i> , <b>2017</b> , 188, 423-430	8.3	7

50	Investigation of mercury removal by Micro-Algae dynamic membrane bioreactor from simulated dental waste water. <i>Journal of Environmental Chemical Engineering</i> , <b>2017</b> , 5, 366-372	6.8	18
49	Control of mixing for optimal formation of dynamic membrane in MBRs. <i>Desalination and Water Treatment</i> , <b>2016</b> , 57, 15759-15771		7
48	Rapid separation of microalga <i>Chlorella vulgaris</i> using magnetic chitosan: Process optimization using response surface methodology. <i>Particulate Science and Technology</i> , <b>2016</b> , 34, 165-172	2	10
47	Engineering design of a biofilm formed on a pH-sensitive ZnO/PSf nanocomposite membrane with antibacterial properties. <i>RSC Advances</i> , <b>2016</b> , 6, 112269-112281	3.7	21
46	Fabrication of polysulfone/zinc oxide nanocomposite membrane: Investigation of pore forming agent on fouling behavior. <i>Korean Journal of Chemical Engineering</i> , <b>2016</b> , 33, 3184-3193	2.8	18
45	Functional synergy of anti-mir221 and nanohydroxyapatite scaffold in bone tissue engineering of rat skull. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2016</b> , 27, 132	4.5	14
44	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> , <b>2016</b> , 6, 111182-111189	3.7	19
43	Comparison of different trophic cultivations in microalgal membrane bioreactor containing N-riched wastewater for simultaneous nutrient removal and biomass production. <i>Process Biochemistry</i> , <b>2016</b> , 51, 1568-1575	4.8	16
42	Fouling mitigation behavior of magnetic responsive nanocomposite membranes in a magnetic membrane bioreactor. <i>Journal of Membrane Science</i> , <b>2016</b> , 520, 881-894	9.6	31
41	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> , <b>2015</b> , 372, 75-88	10.3	37
40	Investigating the effect of sparger configuration on the hydrodynamics of a full-scale membrane bioreactor using computational fluid dynamics. <i>RSC Advances</i> , <b>2015</b> , 5, 105218-105226	3.7	4
39	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> , <b>2015</b> , 25, 265-271	6.3	25
38	Formation of pre-coating dynamic membrane on mesh filter by cross-flow filtration of PACl/water suspension in a bioreactor: experimental and modeling. <i>Desalination and Water Treatment</i> , <b>2015</b> , 55, 17-27		3
37	Fabrication of alumina/polysulfone nanocomposite membranes with biofouling mitigation approach in membrane bioreactors. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2015</b> , 22, 357-367	6.3	45
36	Fabrication of magnetic nanocomposite membrane for separation of organic contaminant from water. <i>Desalination and Water Treatment</i> , <b>2015</b> , 54, 3603-3609		15
35	Dynamic membrane behaviours during constant flux filtration in membrane bioreactor coupled with mesh filter. <i>Environmental Technology (United Kingdom)</i> , <b>2015</b> , 36, 1751-8	2.6	7
34	Effect of clinoptilolite addition on nutrient removal in a membrane bioreactor. <i>Desalination and Water Treatment</i> , <b>2015</b> , 54, 2920-2927		4
33	Effect of microalgae/activated sludge ratio on cooperative treatment of anaerobic effluent of municipal wastewater. <i>Applied Biochemistry and Biotechnology</i> , <b>2014</b> , 172, 131-40	3.2	16

32	A comparison between blending and surface deposition methods for the preparation of iron oxide/polysulfone nanocomposite membranes. <i>Desalination</i> , <b>2014</b> , 354, 125-142	10.3	39
31	Amoxicillin separation from pharmaceutical solution by pH sensitive nanofiltration membranes. <i>Separation and Purification Technology</i> , <b>2014</b> , 130, 74-83	8.3	66
30	Optimal operating strategies of SFDM formation for MBR application. <i>Separation and Purification Technology</i> , <b>2014</b> , 124, 124-133	8.3	26
29	Performance of membrane bioreactor in presence of flocculants. <i>Desalination and Water Treatment</i> , <b>2014</b> , 52, 2933-2938		10
28	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> , <b>2013</b> , 51, 3295-3316		50
27	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> , <b>2013</b> , 52, 9930-9939	3.9	27
26	Amoxicillin separation from pharmaceutical wastewater by high permeability polysulfone nanofiltration membrane. <i>Journal of Environmental Health Science &amp; Engineering</i> , <b>2013</b> , 11, 9	2.9	34
25	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> , <b>2013</b> , 51, 6736-6742		28
24	Fouling in a novel airlift oxidation ditch membrane bioreactor (AOXMBR) at different high organic loading rate. <i>Separation and Purification Technology</i> , <b>2013</b> , 105, 69-78	8.3	18
23	Fouling mitigation in membrane bioreactors using multivalent cations. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2013</b> , 109, 90-6	6	20
22	Biomass characterization by dielectric monitoring of viability and oxygen uptake rate measurements in a novel membrane bioreactor. <i>Bioresource Technology</i> , <b>2013</b> , 140, 357-62	11	18
21	Experimental Study and Modeling of Fouling in Immersed Membrane Bioreactor Operating in Constant Pressure Filtration. <i>Mathematical Problems in Engineering</i> , <b>2013</b> , 2013, 1-7	1.1	4
20	Low-cost monofilament mesh filter used in membrane bioreactor process: Filtration characteristics and resistance analysis. <i>Desalination</i> , <b>2012</b> , 286, 429-435	10.3	25
19	Soluble microbial products (SMPs) release in activated sludge systems: a review. <i>Iranian Journal of Environmental Health Science &amp; Engineering</i> , <b>2012</b> , 9, 30		29
18	Improved Modeling of Bubble Column Reactors by Considering the Bubble Size Distribution. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2012</b> , 51, 5705-5714	3.9	13
17	Determination of bubble size distribution in a bubble column reactor using artificial neural network. <i>Asia-Pacific Journal of Chemical Engineering</i> , <b>2012</b> , 7, 613-623	1.3	2
16	Treatment of Synthetic Olefin Plant Wastewater at Various Salt Concentrations in a Membrane Bioreactor. <i>Clean - Soil, Air, Water</i> , <b>2012</b> , 40, 416-421	1.6	5
15	Fouling in membrane bioreactors with various concentrations of dead cells. <i>Desalination</i> , <b>2011</b> , 278, 373-380	1.8	27

14	Analysis of petroleum biodesulfurization in an airlift bioreactor using response surface methodology. <i>Bioresource Technology</i> , <b>2011</b> , 102, 10585-91	11	33
13	An artificial neural network for prediction of gas holdup in bubble columns with oily solutions. <i>Neural Computing and Applications</i> , <b>2011</b> , 20, 487-494	4.8	9
12	Immobilization of recombinant nanobiofiber CS3 fimbriae onto alginate beads for improvement of cadmium biosorption. <i>Biotechnology and Bioprocess Engineering</i> , <b>2011</b> , 16, 1019-1026	3.1	2
11	Influence of sludge rheological properties on the membrane fouling in submerged membrane bioreactor. <i>Desalination and Water Treatment</i> , <b>2011</b> , 34, 117-122		13
10	Analyze and control fouling in an airlift membrane bioreactor: CFD simulation and experimental studies. <i>Process Biochemistry</i> , <b>2011</b> , 46, 1138-1145	4.8	49
9	Application of dielectric permittivity measurements in physiological state monitoring of bacillus subtilis culture <b>2010</b> ,		1
8	Effect of surface contaminants on oxygen transfer in bubble column reactors. <i>Biochemical Engineering Journal</i> , <b>2010</b> , 49, 351-360	4.2	36
7	Membrane bioreactor for treatment of pharmaceutical wastewater containing acetaminophen. <i>Desalination</i> , <b>2010</b> , 250, 798-800	10.3	52
6	Preparation of polysulfone nanofiltration membranes by UV-assisted grafting polymerization for water softening. <i>Desalination</i> , <b>2010</b> , 263, 217-225	10.3	107
5	Hydrodynamics and oxygen transfer behaviour of water in diesel microemulsions in a draft tube airlift bioreactor. <i>Chemical Engineering and Processing: Process Intensification</i> , <b>2007</b> , 46, 334-342	3.7	34
4	Gas hold-up and oxygen transfer in a draft-tube airlift bioreactor with petroleum-based liquids. <i>Biochemical Engineering Journal</i> , <b>2005</b> , 22, 105-110	4.2	42
3	Design and operational aspects of airlift bioreactors for petroleum biodesulfurization. <i>Environmental Progress</i> , <b>2004</b> , 23, 206-214		15
2	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> , <b>2004</b> , 79, 260-267	3.5	22
1	Influence of alumina nanoparticles on the performance of polyacrylonitrile membranes in MBR. <i>Journal of Environmental Health Science &amp; Engineering</i> , 1	2.9	1