

# Mohammad-Hossein Sarrafzadeh

## List of Publications by Year in descending order

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79  
papers

4,110  
citations

218677

26  
h-index

114465

63  
g-index

83  
all docs

83  
docs citations

83  
times ranked

4856  
citing authors

#	ARTICLE	IF	CITATIONS
1	A coupled hydrodynamic&biokinetic simulation of three&phase flow in an oxidation ditch using <sc>CFD</sc>. Canadian Journal of Chemical Engineering, 2022, 100, 223-236.	1.7	7
2	Surface modification of thin-film nanocomposite forward osmosis membrane with super-hydrophilic MIL-53 (Al) for doxycycline removal as an emerging contaminant and membrane antifouling property enhancement. Chemical Engineering Journal, 2022, 431, 133469.	12.7	33
3	Foulant layer degradation of dye in Photocatalytic Membrane Reactor (PMR) containing immobilized and suspended NH2-MIL125(Ti) MOF led to water flux recovery. Journal of Environmental Chemical Engineering, 2022, 10, 106999.	6.7	23
4	Circular economy in petroleum industries: implementing Water Closed Loop System. , 2022, , 249-262.		1
5	Developing Water Source Diagram method for effective utilization of regeneration unit in water networks: Multiple-contaminant problems. Journal of Water Process Engineering, 2022, 47, 102758.	5.6	5
6	Integrated CO2 Capture and Nutrient Removal by Microalgae Chlorella vulgaris and Optimization Using Neural Network and Support Vector Regression. Waste and Biomass Valorization, 2022, 13, 4749-4770.	3.4	10
7	Aquatic center sewage reclamation and water reuse, using an integrated system combining adsorption, RO membrane system, and TiO2/Fe3O4 photocatalytic oxidation. Journal of Environmental Chemical Engineering, 2021, 9, 104957.	6.7	22
8	Nitrate and Phosphate Removal Efficiency of Synechococcus elongatus Under Mixotrophic and Heterotrophic Conditions for Wastewater Treatment. Iranian Journal of Science and Technology - Transactions of Civil Engineering, 2021, 45, 1831-1843.	1.9	5
9	EVALUATION OF PHOSPHATE AND AMMONIUM ADSORPTION&DESORPTION OF SLOW PYROLYZED WOOD BIOCHAR. Environmental Engineering and Management Journal, 2021, 20, 217-227.	0.6	6
10	Biomass quantification and 3-D topography reconstruction of microalgal biofilms using digital image processing. Algal Research, 2021, 55, 102243.	4.6	11
11	Interaction between Chlorella vulgaris and nitrifying-enriched activated sludge in the treatment of wastewater with low C/N ratio. Journal of Cleaner Production, 2020, 247, 119164.	9.3	388
12	Hydrogen producer microalgae in interaction with hydrogen consumer denitrifiers as a novel strategy for nitrate removal from groundwater and biomass production. Algal Research, 2020, 45, 101747.	4.6	23
13	Development of Digital Image Processing as an Innovative Method for Activated Sludge Biomass Quantification. Frontiers in Microbiology, 2020, 11, 574966.	3.5	11
14	A pH-sensitive delivery system based on N-succinyl chitosan-ZnO nanoparticles for improving antibacterial and anticancer activities of curcumin. International Journal of Biological Macromolecules, 2020, 151, 428-440.	7.5	83
15	Enhancing the desalination performance of forward osmosis membrane through the incorporation of green nanocrystalline cellulose and halloysite dual nanofillers. Journal of Chemical Technology and Biotechnology, 2020, 95, 2359-2370.	3.2	20
16	Autotrophic granulation of hydrogen consumer denitrifiers and microalgae for nitrate removal from drinking water resources at different hydraulic retention times. Journal of Environmental Management, 2020, 268, 110674.	7.8	11
17	Recent advances in the treatment of dye-containing wastewater from textile industries: Overview and perspectives. Chemical Engineering Research and Design, 2020, 143, 138-163.	5.6	475
18	Cultivation of Mixed Microalgae Using Municipal Wastewater: Biomass Productivity, Nutrient Removal, and Biochemical Content. Iranian Journal of Biotechnology, 2020, 18, e2586.	0.3	1

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19	Activity enhancement of ammonia-oxidizing bacteria and nitrite-oxidizing bacteria in activated sludge process: metabolite reduction and CO <sub>2</sub> mitigation intensification process. <i>Applied Water Science</i> , 2019, 9, 1.	5.6	339
20	Flower-like curcumin-loaded folic acid-conjugated ZnO-MPA- $\beta$ -cyclodextrin nanostructures enhanced anticancer activity and cellular uptake of curcumin in breast cancer cells. <i>Materials Science and Engineering C</i> , 2019, 103, 109827.	7.3	38
21	The impact of morphology and size of zinc oxide nanoparticles on its toxicity to the freshwater microalga, <i>Raphidocelis subcapitata</i> . <i>Environmental Science and Pollution Research</i> , 2019, 26, 2409-2420.	5.3	53
22	Modeling of Fermentation Process of <i>Bacillus Thuringiensis</i> as a Sporulating Bacterium. <i>Chemical Product and Process Modeling</i> , 2019, 14, .	0.9	0
23	Nitrate removal from drinking water with a focus on biological methods: a review. <i>Environmental Science and Pollution Research</i> , 2019, 26, 1124-1141.	5.3	189
24	Effect of nitrifiers community on fouling mitigation and nitrification efficiency in a membrane bioreactor. <i>Chemical Engineering and Processing: Process Intensification</i> , 2018, 128, 10-18.	3.6	911
25	Technical, economic and energy assessment of an alternative strategy for mass production of biomass and lipid from microalgae. <i>Journal of Environmental Chemical Engineering</i> , 2018, 6, 866-873.	6.7	38
26	Cost-effective batch production process of scFv antibody in <i>Escherichia coli</i> . <i>Human Antibodies</i> , 2018, 26, 149-157.	1.5	3
27	Batch adsorption/desorption for purification of scFv antibodies using nanozeolite microspheres. <i>Microporous and Mesoporous Materials</i> , 2018, 264, 167-175.	4.4	11
28	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.	2.3	23
29	Variation of fatty acids composition in the hydrocarbon producer <i>Botryococcus braunii</i> BOT 22. <i>Biomass and Bioenergy</i> , 2018, 119, 456-461.	5.7	5
30	Development of novel thin film nanocomposite forward osmosis membranes containing halloysite/graphitic carbon nitride nanoparticles towards enhanced desalination performance. <i>Desalination</i> , 2018, 447, 18-28.	8.2	62
31	Optimal strategies for bioremediation of nitrate-contaminated groundwater and microalgae biomass production. <i>Environmental Science and Pollution Research</i> , 2018, 25, 27471-27482.	5.3	14
32	Investigating the Effect of Multiple Reference Frame Approach on the Modelling of an Oxidation Ditch. <i>International Journal of Environmental Research</i> , 2018, 12, 429-437.	2.3	4
33	Water management methods in food industry: Corn refinery as a case study. <i>Journal of Food Engineering</i> , 2018, 238, 78-84.	5.2	22
34	Cellulose acetate electrospun nanofibers for drug delivery systems: Applications and recent advances. <i>Carbohydrate Polymers</i> , 2018, 198, 131-141.	10.2	239
35	Potential for biodiesel production and carbon capturing from <i>Synechococcus Elongatus</i> : An isolation and evaluation study. <i>Biocatalysis and Agricultural Biotechnology</i> , 2017, 9, 230-235.	3.1	15
36	Functionalization of ZnO nanoparticles by 3-mercaptopropionic acid for aqueous curcumin delivery: Synthesis, characterization, and anticancer assessment. <i>Materials Science and Engineering C</i> , 2017, 79, 465-472.	7.3	76

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37	MBR technology: A practical approach for petrochemical wastewater treatment. <i>Petroleum Science and Technology</i> , 2017, 35, 222-228.	1.5	8
38	Phosphorus optimization for simultaneous nitrate-contaminated groundwater treatment and algae biomass production using <i>Ettlia</i> sp.. <i>Bioresource Technology</i> , 2017, 244, 785-792.	9.6	15
39	Experimental optimization of SC-CO <sub>2</sub> extraction of carotenoids from <i>Dunaliella salina</i> . <i>Journal of Supercritical Fluids</i> , 2017, 121, 89-95.	3.2	71
40	Osmotic conditions could promote scFv antibody production in the <i>Escherichia coli</i> HB2151. <i>BioImpacts</i> , 2017, 7, 199-206.	1.5	12
41	Modelling a Multiple Reference Frame Approach in an Oxidation Ditch of Activated Sludge Wastewater Treatment. <i>Lecture Notes in Civil Engineering</i> , 2017, , 713-717.	0.4	1
42	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.	3.7	20
43	Effect of clinoptilolite addition on nutrient removal in a membrane bioreactor. <i>Desalination and Water Treatment</i> , 2015, 54, 2920-2927.	1.0	4
44	Evaluation of various techniques for microalgal biomass quantification. <i>Journal of Biotechnology</i> , 2015, 216, 90-97.	3.8	48
45	Microalgae biomass quantification by digital image processing and RGB color analysis. <i>Journal of Applied Phycology</i> , 2015, 27, 205-209.	2.8	33
46	Determination of ozone adsorption in activated sludge system and its effect on sludge properties. <i>Desalination and Water Treatment</i> , 2015, 54, 3575-3581.	1.0	4
47	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
48	Performance of membrane bioreactor in presence of flocculants. <i>Desalination and Water Treatment</i> , 2014, 52, 2933-2938.	1.0	11
49	Assessment of In Situ Bioremediation of Oil Contaminated Soil and Groundwater in a Petroleum Refinery: A Laboratory Soil Column Study. <i>Petroleum Science and Technology</i> , 2014, 32, 1553-1561.	1.5	3
50	Dielectric monitoring and respirometric activity of a high cell density activated sludge. <i>Environmental Technology (United Kingdom)</i> , 2014, 35, 425-431.	2.2	6
51	Aeration effects on metabolic events during sporulation of <i>Bacillus thuringiensis</i> . <i>Journal of Microbiology</i> , 2014, 52, 597-603.	2.8	7
52	The Surveying of Soil and Groundwater Pollution in a Petroleum Refinery and the Potential of Bioremediation for Oil Decontamination. <i>Petroleum Science and Technology</i> , 2013, 31, 2585-2595.	1.5	6
53	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.	7.9	27
54	Fouling mitigation in membrane bioreactors using multivalent cations. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013, 109, 90-96.	5.0	24

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55	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.	9.6	22
56	The comparison of <i>Coprinus cinereus</i> peroxidase enzyme and TiO <sub>2</sub> catalyst for phenol removal. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2013, 48, 300-307.	1.7	6
57	An adsorption diffusion model for removal of copper (II) from aqueous solution by pyrolytic tyre char. <i>Desalination and Water Treatment</i> , 2013, 51, 5664-5673.	1.0	6
58	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
59	Carbon dioxide biofixation and biomass production from flue gas of power plant using microalgae. , 2012, , .		6
60	Treatment of Synthetic Olefin Plant Wastewater at Various Salt Concentrations in a Membrane Bioreactor. <i>Clean - Soil, Air, Water</i> , 2012, 40, 416-421.	1.1	5
61	Low-cost monofilament mesh filter used in membrane bioreactor process: Filtration characteristics and resistance analysis. <i>Desalination</i> , 2012, 286, 429-435.	8.2	28
62	Optimization of the Production of Biosurfactant From Iranian Indigenous Bacteria for the Reduction of Surface Tension and Enhanced Oil Recovery. <i>Petroleum Science and Technology</i> , 2011, 29, 301-311.	1.5	8
63	Influence of sludge rheological properties on the membrane fouling in submerged membrane bioreactor. <i>Desalination and Water Treatment</i> , 2011, 34, 117-122.	1.0	16
64	Effects of biofilm formation on membrane performance in submerged membrane bioreactors. <i>Biofouling</i> , 2011, 27, 477-485.	2.2	32
65	Fouling in membrane bioreactors with various concentrations of dead cells. <i>Desalination</i> , 2011, 278, 373-380.	8.2	30
66	Analyze and control fouling in an airlift membrane bioreactor: CFD simulation and experimental studies. <i>Process Biochemistry</i> , 2011, 46, 1138-1145.	3.7	57
67	Biological treatment of toluene contaminated wastewater by <i>Alcaligenese faecalis</i> in an extractive membrane bioreactor; experiments and modeling. <i>Water Science and Technology</i> , 2011, 64, 1239-1246.	2.5	17
68	Effect of membrane characteristics on the performance of membrane bioreactors for oily wastewater treatment. <i>Water Science and Technology</i> , 2011, 64, 1154-1160.	2.5	13
69	Scale up and Application of Biosurfactant from <i>Bacillus subtilis</i> in Enhanced Oil Recovery. <i>Applied Biochemistry and Biotechnology</i> , 2010, 162, 510-523.	2.9	54
70	Comparative study of biosurfactant producing bacteria in MEOR applications. <i>Journal of Petroleum Science and Engineering</i> , 2010, 75, 209-214.	4.2	80
71	Membrane bioreactor for treatment of pharmaceutical wastewater containing acetaminophen. <i>Desalination</i> , 2010, 250, 798-800.	8.2	66
72	Application of dielectric permittivity measurements in physiological state monitoring of <i>bacillus subtilis</i> culture. , 2010, , .		1

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73	Flow Characteristics in an Airlift Membrane Bioreactor. Chemical Product and Process Modeling, 2009, 4, .	0.9	3
74	Simple indicators of plasmid loss during fermentation of Bacillus thuringiensis. Enzyme and Microbial Technology, 2007, 40, 1052-1058.	3.2	6
75	Effect of Stirrer Speed and Aeration Rate on the Production of Glucose Oxidase by Aspergillus niger. Journal of Biological Sciences, 2007, 7, 270-275.	0.3	15
76	The effect of oxygen on the sporulation, $\hat{\Gamma}$ -endotoxin synthesis and toxicity of Bacillus thuringiensis H14. World Journal of Microbiology and Biotechnology, 2006, 22, 305-310.	3.6	20
77	Growth, Sporulation, $\hat{\Gamma}$ -Endotoxins Synthesis, and Toxicity During Culture of Bacillus thuringiensis H14. Current Microbiology, 2005, 51, 75-81.	2.2	31
78	Dielectric monitoring of growth and sporulation of Bacillus thuringiensis. Biotechnology Letters, 2005, 27, 511-517.	2.2	55
79	Editorial: Artificial Intelligence in Environmental Microbiology. Frontiers in Microbiology, 0, 13, .	3.5	0