

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	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
2	Recent advances in the treatment of dye-containing wastewater from textile industries: Overview and perspectives. <i>Chemical Engineering Research and Design</i> , 2020, 143, 138-163.	5.6	475
3	Interaction between <i>Chlorella vulgaris</i> and nitrifying-enriched activated sludge in the treatment of wastewater with low C/N ratio. <i>Journal of Cleaner Production</i> , 2020, 247, 119164.	9.3	388
4	Activity enhancement of ammonia-oxidizing bacteria and nitrite-oxidizing bacteria in activated sludge process: metabolite reduction and CO ₂ mitigation intensification process. <i>Applied Water Science</i> , 2019, 9, 1.	5.6	339
5	Cellulose acetate electrospun nanofibers for drug delivery systems: Applications and recent advances. <i>Carbohydrate Polymers</i> , 2018, 198, 131-141.	10.2	239
6	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
7	A pH-sensitive delivery system based on N-succinyl chitosan-ZnO nanoparticles for improving antibacterial and anticancer activities of curcumin. <i>International Journal of Biological Macromolecules</i> , 2020, 151, 428-440.	7.5	83
8	Comparative study of biosurfactant producing bacteria in MEOR applications. <i>Journal of Petroleum Science and Engineering</i> , 2010, 75, 209-214.	4.2	80
9	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
10	Experimental optimization of SC-CO ₂ extraction of carotenoids from <i>Dunaliella salina</i> . <i>Journal of Supercritical Fluids</i> , 2017, 121, 89-95.	3.2	71
11	Membrane bioreactor for treatment of pharmaceutical wastewater containing acetaminophen. <i>Desalination</i> , 2010, 250, 798-800.	8.2	66
12	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
13	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
14	Dielectric monitoring of growth and sporulation of <i>Bacillus thuringiensis</i> . <i>Biotechnology Letters</i> , 2005, 27, 511-517.	2.2	55
15	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
16	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
17	Evaluation of various techniques for microalgal biomass quantification. <i>Journal of Biotechnology</i> , 2015, 216, 90-97.	3.8	48
18	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

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19	Flower-like curcumin-loaded folic acid-conjugated ZnO-MPA- β -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
20	Soluble microbial products (SMPs) release in activated sludge systems: a review. <i>Iranian Journal of Environmental Health Science & Engineering</i> , 2012, 9, 30.	1.8	35
21	Microalgae biomass quantification by digital image processing and RGB color analysis. <i>Journal of Applied Phycology</i> , 2015, 27, 205-209.	2.8	33
22	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. <i>Chemical Engineering Journal</i> , 2022, 431, 133469.	12.7	33
23	Effects of biofilm formation on membrane performance in submerged membrane bioreactors. <i>Biofouling</i> , 2011, 27, 477-485.	2.2	32
24	Growth, Sporulation, β -Endotoxins Synthesis, and Toxicity During Culture of <i>Bacillus thuringiensis</i> H14. <i>Current Microbiology</i> , 2005, 51, 75-81.	2.2	31
25	Fouling in membrane bioreactors with various concentrations of dead cells. <i>Desalination</i> , 2011, 278, 373-380.	8.2	30
26	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
27	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
28	Fouling mitigation in membrane bioreactors using multivalent cations. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013, 109, 90-96.	5.0	24
29	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
30	Hydrogen producer microalgae in interaction with hydrogen consumer denitrifiers as a novel strategy for nitrate removal from groundwater and biomass production. <i>Algal Research</i> , 2020, 45, 101747.	4.6	23
31	Foulant layer degradation of dye in Photocatalytic Membrane Reactor (PMR) containing immobilized and suspended NH ₂ -MIL125(Ti) MOF led to water flux recovery. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 106999.	6.7	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.	9.6	22
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	Aquatic center sewage reclamation and water reuse, using an integrated system combining adsorption, RO membrane system, and TiO ₂ /Fe ₃ O ₄ photocatalytic oxidation. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 104957.	6.7	22
35	The effect of oxygen on the sporulation, β -endotoxin synthesis and toxicity of <i>Bacillus thuringiensis</i> H14. <i>World Journal of Microbiology and Biotechnology</i> , 2006, 22, 305-310.	3.6	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.	3.7	20

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37	Enhancing the desalination performance of forward osmosis membrane through the incorporation of green nanocrystalline cellulose and halloysite dual nanofillers. <i>Journal of Chemical Technology and Biotechnology</i> , 2020, 95, 2359-2370.	3.2	20
38	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
39	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
40	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
41	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
42	Phosphorus optimization for simultaneous nitrate-contaminated groundwater treatment and algae biomass production using <i>Ettlia sp.</i> . <i>Bioresource Technology</i> , 2017, 244, 785-792.	9.6	15
43	Effect of Stirrer Speed and Aeration Rate on the Production of Glucose Oxidase by <i>Aspergillus niger</i> . <i>Journal of Biological Sciences</i> , 2007, 7, 270-275.	0.3	15
44	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
45	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
46	Osmotic conditions could promote scFv antibody production in the <i>Escherichia coli</i> HB2151. <i>BioImpacts</i> , 2017, 7, 199-206.	1.5	12
47	Performance of membrane bioreactor in presence of flocculants. <i>Desalination and Water Treatment</i> , 2014, 52, 2933-2938.	1.0	11
48	Batch adsorption/desorption for purification of scFv antibodies using nanozeolite microspheres. <i>Microporous and Mesoporous Materials</i> , 2018, 264, 167-175.	4.4	11
49	Development of Digital Image Processing as an Innovative Method for Activated Sludge Biomass Quantification. <i>Frontiers in Microbiology</i> , 2020, 11, 574966.	3.5	11
50	Biomass quantification and 3-D topography reconstruction of microalgal biofilms using digital image processing. <i>Algal Research</i> , 2021, 55, 102243.	4.6	11
51	Autotrophic granulation of hydrogen consumer denitrifiers and microalgae for nitrate removal from drinking water resources at different hydraulic retention times. <i>Journal of Environmental Management</i> , 2020, 268, 110674.	7.8	11
52	Integrated CO ₂ Capture and Nutrient Removal by Microalgae <i>Chlorella vulgaris</i> and Optimization Using Neural Network and Support Vector Regression. <i>Waste and Biomass Valorization</i> , 2022, 13, 4749-4770.	3.4	10
53	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
54	MBR technology: A practical approach for petrochemical wastewater treatment. <i>Petroleum Science and Technology</i> , 2017, 35, 222-228.	1.5	8

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55	Aeration effects on metabolic events during sporulation of <i>Bacillus thuringiensis</i> . <i>Journal of Microbiology</i> , 2014, 52, 597-603.	2.8	7
56	A coupled hydrodynamicâ€biokinetic simulation of threeâ€phase flow in an oxidation ditch using <sc>CFD</sc>. <i>Canadian Journal of Chemical Engineering</i> , 2022, 100, 223-236.	1.7	7
57	Simple indicators of plasmid loss during fermentation of <i>Bacillus thuringiensis</i> . <i>Enzyme and Microbial Technology</i> , 2007, 40, 1052-1058.	3.2	6
58	Carbon dioxide biofixation and biomass production from flue gas of power plant using microalgae. , 2012, , .		6
59	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
60	The comparison of <i>Coprinus cinereus</i> peroxidase enzyme and TiO ₂ 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
61	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
62	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
63	EVALUATION OF PHOSPHATE AND AMMONIUM ADSORPTION/DESORPTION OF SLOW PYROLYZED WOOD BIOCHAR. <i>Environmental Engineering and Management Journal</i> , 2021, 20, 217-227.	0.6	6
64	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
65	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
66	Nitrate and Phosphate Removal Efficiency of <i>Synechococcus elongatus</i> Under Mixotrophic and Heterotrophic Conditions for Wastewater Treatment. <i>Iranian Journal of Science and Technology - Transactions of Civil Engineering</i> , 2021, 45, 1831-1843.	1.9	5
67	Developing Water Source Diagram method for effective utilization of regeneration unit in water networks: Multiple-contaminant problems. <i>Journal of Water Process Engineering</i> , 2022, 47, 102758.	5.6	5
68	Effect of clinoptilolite addition on nutrient removal in a membrane bioreactor. <i>Desalination and Water Treatment</i> , 2015, 54, 2920-2927.	1.0	4
69	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
70	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
71	Flow Characteristics in an Airlift Membrane Bioreactor. <i>Chemical Product and Process Modeling</i> , 2009, 4, .	0.9	3
72	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

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73	Cost-effective batch production process of scFv antibody in Escherichia coli. Human Antibodies, 2018, 26, 149-157.	1.5	3
74	Application of dielectric permittivity measurements in physiological state monitoring of bacillus subtilis culture. , 2010, , .		1
75	Modelling a Multiple Reference Frame Approach in an Oxidation Ditch of Activated Sludge Wastewater Treatment. Lecture Notes in Civil Engineering, 2017, , 713-717.	0.4	1
76	Cultivation of Mixed Microalgae Using Municipal Wastewater: Biomass Productivity, Nutrient Removal, and Biochemical Content. Iranian Journal of Biotechnology, 2020, 18, e2586.	0.3	1
77	Circular economy in petroleum industries: implementing Water Closed Loop System. , 2022, , 249-262.		1
78	Modeling of Fermentation Process of Bacillus Thuringiensis as a Sporulating Bacterium. Chemical Product and Process Modeling, 2019, 14, .	0.9	0
79	Editorial: Artificial Intelligence in Environmental Microbiology. Frontiers in Microbiology, 0, 13, .	3.5	0