

Babak Bonakdarpour

List of Publications by Year in descending order

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53
papers

1,885
citations

257450

24
h-index

265206

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53
docs citations

53
times ranked

2363
citing authors

#	ARTICLE	IF	CITATIONS
1	Application of the central composite design and response surface methodology to the advanced treatment of olive oil processing wastewater using Fenton's peroxidation. <i>Journal of Hazardous Materials</i> , 2005, 123, 187-195.	12.4	380
2	The development of aerobic granules from conventional activated sludge under anaerobic-aerobic cycles and their adaptation for treatment of dyeing wastewater. <i>Chemical Engineering Journal</i> , 2017, 312, 375-384.	12.7	102
3	Long-term operation of submerged membrane bioreactor (MBR) for the treatment of synthetic wastewater containing styrene as volatile organic compound (VOC): Effect of hydraulic retention time (HRT). <i>Journal of Hazardous Materials</i> , 2010, 178, 718-724.	12.4	100
4	The effect of hydraulic retention time on the performance and fouling characteristics of membrane sequencing batch reactors used for the treatment of synthetic petroleum refinery wastewater. <i>Bioresource Technology</i> , 2011, 102, 7692-7699.	9.6	97
5	Comparison of the performance of one stage and two stage sequential anaerobic-aerobic biological processes for the treatment of reactive-azo-dye-containing synthetic wastewaters. <i>International Biodeterioration and Biodegradation</i> , 2011, 65, 591-599.	3.9	66
6	The effect of salt on the performance and characteristics of a combined anaerobic-aerobic biological process for the treatment of synthetic wastewaters containing Reactive Black 5. <i>Chemical Engineering Journal</i> , 2013, 221, 363-372.	12.7	62
7	Optimization of physicochemical parameters for bioleaching of sphalerite by <i>Acidithiobacillus ferrooxidans</i> using shaking bioreactors. <i>Hydrometallurgy</i> , 2012, 111-112, 22-28.	4.3	56
8	Kinetics of sphalerite bioleaching by <i>Acidithiobacillus ferrooxidans</i> . <i>Hydrometallurgy</i> , 2009, 99, 202-208.	4.3	50
9	Treatment of hypersaline produced water employing a moderately halophilic bacterial consortium in a membrane bioreactor: Effect of salt concentration on organic removal performance, mixed liquor characteristics and membrane fouling. <i>Bioresource Technology</i> , 2014, 164, 203-213.	9.6	50
10	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.	3.6	45
11	The study of organic removal efficiency and halophilic bacterial mixed liquor characteristics in a membrane bioreactor treating hypersaline produced water at varying organic loading rates. <i>Bioresource Technology</i> , 2013, 149, 486-495.	9.6	45
12	The use of electrical resistance tomography for the characterization of gas holdup inside a bubble column bioreactor containing activated sludge. <i>Chemical Engineering Journal</i> , 2015, 268, 260-269.	12.7	44
13	Adaptation of <i>Acidithiobacillus ferrooxidans</i> to high grade sphalerite concentrate. <i>Minerals Engineering</i> , 2009, 22, 1299-1306.	4.3	42
14	Phenolic removal in olive oil mill wastewater using loofah-immobilized <i>Phanerochaete chrysosporium</i> . <i>World Journal of Microbiology and Biotechnology</i> , 2006, 22, 119-127.	3.6	41
15	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.	3.6	38
16	Effects of irrigation and water content of packings on alpha-pinene vapours biofiltration performance. <i>Biochemical Engineering Journal</i> , 2005, 24, 185-193.	3.6	37
17	Analysis of gas phase characteristics and mixing performance in an activated sludge bioreactor using electrical resistance tomography. <i>Chemical Engineering Journal</i> , 2015, 279, 874-884.	12.7	35
18	Kinetics of styrene biodegradation in synthetic wastewaters using an industrial activated sludge. <i>Journal of Hazardous Materials</i> , 2010, 184, 111-117.	12.4	33

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19	Considering membrane sequencing batch reactors for the biological treatment of petroleum refinery wastewaters. <i>Journal of Membrane Science</i> , 2017, 523, 542-550.	8.2	33
20	Identification of dust storm origin in South West of Iran. <i>Journal of Environmental Health Science & Engineering</i> , 2017, 15, 16.	3.0	33
21	Use of <i>Phanerochaete chrysosporium</i> Immobilized on Kissiris for Synthetic Dye Decolourization: Involvement of Manganese Peroxidase. <i>World Journal of Microbiology and Biotechnology</i> , 2006, 22, 1251-1257.	3.6	30
22	Sequential anaerobic-aerobic biological treatment of colored wastewaters: case study of a textile dyeing factory wastewater. <i>Water Science and Technology</i> , 2017, 75, 1261-1269.	2.5	30
23	The biological treatment of high salinity synthetic oilfield produced water in a submerged membrane bioreactor using a halophilic bacterial consortium. <i>Journal of Chemical Technology and Biotechnology</i> , 2013, 88, 2016-2026.	3.2	28
24	Hydrodynamic and mass transfer characterization of a down flow jet loop bioreactor. <i>Biochemical Engineering Journal</i> , 2001, 8, 241-250.	3.6	25
25	Application of down flow jet loop bioreactors in implementation and kinetic determination of solid-liquid enzyme reactions. <i>Process Biochemistry</i> , 2005, 40, 2455-2460.	3.7	25
26	The enzymatic production of lactulose via transglycosylation in conventional and non-conventional media. <i>International Dairy Journal</i> , 2014, 34, 74-79.	3.0	24
27	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.	3.2	23
28	Evaluation of oil recovery by rhamnolipid produced with isolated strain from Iranian oil wells. <i>Annals of Microbiology</i> , 2009, 59, 573-577.	2.6	23
29	Gaining deeper insights into the bioflocculation process occurring in a high loaded membrane bioreactor used for the treatment of synthetic greywater. <i>Chemosphere</i> , 2019, 230, 316-326.	8.2	21
30	Design and operational aspects of airlift bioreactors for petroleum biodesulfurization. <i>Environmental Progress</i> , 2004, 23, 206-214.	0.7	20
31	The development of aerobic granules from slaughterhouse wastewater in treating real dyeing wastewater by Sequencing Batch Reactor (SBR). <i>Journal of Environmental Chemical Engineering</i> , 2018, 6, 5536-5543.	6.7	18
32	Using enriched water and soil-based indigenous halophilic consortia of an oilfield for the biological removal of organic pollutants in hypersaline produced water generated in the same oilfield. <i>Chemical Engineering Research and Design</i> , 2019, 127, 151-161.	5.6	18
33	Effect of different light-dark cycles on the membrane fouling, EPS and SMP production in a novel reciprocal membrane photobioreactor (RMPBR) by <i>C. vulgaris</i> species. <i>Journal of Water Process Engineering</i> , 2021, 43, 102256.	5.6	18
34	pH reduction through amendment of cement mortar with silica fume enhances its biological treatment using bacterial carbonate precipitation. <i>Materials and Structures/Materiaux Et Constructions</i> , 2015, 48, 3205-3215.	3.1	17
35	Considering a membrane bioreactor for the treatment of vegetable oil refinery wastewaters at industrially relevant organic loading rates. <i>Bioprocess and Biosystems Engineering</i> , 2020, 43, 981-995.	3.4	17
36	Studies on the hydrodynamic behavior and mass transfer in a down-flow jet loop reactor with a coaxial draft tube. <i>Journal of Chemical Technology and Biotechnology</i> , 2001, 76, 39-46.	3.2	16

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37	Salinity effects on biodegradation of Reactive Black 5 for one stage and two stages sequential anaerobic aerobic biological processes employing different anaerobic sludge. <i>International Biodeterioration and Biodegradation</i> , 2014, 95, 294-300.	3.9	16
38	Anaerobic-aerobic processes for the treatment of textile dyeing wastewater containing three commercial reactive azo dyes: Effect of number of stages and bioreactor type. <i>Chinese Journal of Chemical Engineering</i> , 2021, 39, 228-239.	3.5	14
39	The use of membrane bioreactors in high rate activated sludge processes: How and why sludge retention time affects membrane fouling. <i>Journal of Water Process Engineering</i> , 2022, 47, 102807.	5.6	13
40	Statistical Optimization of Anaerobic Biological Processes for Dye Treatment. <i>Clean - Soil, Air, Water</i> , 2010, 38, 942-950.	1.1	12
41	Hydrogen sulfide removal performance of a bio-trickling filter employing <i>Thiobacillus thiparus</i> immobilized on polyurethane foam under various starvation regimes. <i>Biotechnology and Bioprocess Engineering</i> , 2012, 17, 1278-1283.	2.6	12
42	Quantifying the organic content of saline wastewaters: Is chemical oxygen demand always an achievable parameter?. <i>Talanta</i> , 2019, 197, 509-516.	5.5	10
43	Mineralogical and Chemical Characterization of Suspended Atmospheric Particles in Ahvaz. <i>International Journal of Environmental Research</i> , 2017, 11, 55-62.	2.3	9
44	Simulation of mineral dust aerosols in southwestern iran through numerical prediction models. <i>Environmental Progress and Sustainable Energy</i> , 2018, 37, 1380-1393.	2.3	9
45	Application of the SAFT-VR equation of state in estimation of physicochemical properties of amino acid solutions. <i>Journal of Molecular Liquids</i> , 2013, 184, 24-32.	4.9	8
46	The effect of mechanical cleaning technology (MCT) on membrane fouling in a novel hybrid membrane photobioreactor (HMPBR) containing <i>Arthrospira platensis</i> (Spirulina). <i>Journal of Applied Phycology</i> , 2020, 32, 83-91.	2.8	8
47	Fouling identification in reciprocal membrane photobioreactor (RMPBR) containing <i>Chlorella vulgaris</i> species: Hydraulic resistances assessment. <i>Journal of Chemical Technology and Biotechnology</i> , 2021, 96, 404-411.	3.2	8
48	The Influence of Sugar Cane Bagasse Type and Its Particle Size on Xylose Production and Xylose-to-Xylitol Bioconversion with the Yeast <i>Debaryomyces hansenii</i> . <i>Applied Biochemistry and Biotechnology</i> , 2016, 180, 1141-1151.	2.9	7
49	The effect of temperature and styrene concentration on biogas production and degradation characteristics during anaerobic removal of styrene from wastewater. <i>Bioresource Technology</i> , 2021, 342, 125988.	9.6	7
50	Effect of Operating Parameters on the Performance of a <i>Thiobacillus thioiparus</i> Immobilized Polyurethane Foam Biotrickling Filter for Hydrogen Sulfide Removal. <i>Clean - Soil, Air, Water</i> , 2014, 42, 1311-1317.	1.1	5
51	Growth kinetics and Pho84 phosphate transporter activity of <i>Saccharomyces cerevisiae</i> under phosphate-limited conditions. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2006, 34, 17-25.	3.0	3
52	The application of membrane sequencing batch reactors in high rate activated sludge processes: the effect of the organic loading rate on the bioflocculation and fouling phenomenon. <i>Environmental Science: Water Research and Technology</i> , 2022, 8, 1561-1578.	2.4	2
53	Integrating electrocoagulation process with up-flow anaerobic sludge blanket for in-situ biomethanation and performance improvement. <i>Bioresource Technology</i> , 2022, 360, 127536.	9.6	0