Mehdi Nemati

List of Publications by Year
in descending order

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49 papers	1,595 citations	394421 19 h-index	302126 39 g-index
49 all docs	49 docs citations	49 times ranked	1503 citing authors

#	Article	IF	Citations
1	Bacteria of the sulphur cycle: An overview of microbiology, biokinetics and their role in petroleum and mining industries. Biochemical Engineering Journal, 2009, 44, 73-94.	3.6	343
2	Corrosion risk associated with microbial souring control using nitrate or nitrite. Applied Microbiology and Biotechnology, 2005, 68, 272-282.	3.6	138
3	Batch and continuous biooxidation of sulphide by Thiomicrospira sp. CVO: Reaction kinetics and stoichiometry. Water Research, 2006, 40, 2436-2446.	11.3	113
4	Containment of Biogenic Sulfide Production in Continuous Up-Flow Packed-Bed Bioreactors with Nitrate or Nitrite. Biotechnology Progress, 2003, 19, 338-345.	2.6	112
5	Simultaneous biodesulphurization and denitrification using an oil reservoir microbial culture: Effects of sulphide loading rate and sulphide to nitrate loading ratio. Water Research, 2010, 44, 1531-1541.	11.3	100
6	Evaluation of sulfur-based autotrophic denitrification and denitritation for biological removal of nitrate and nitrite from contaminated waters. Bioresource Technology, 2012, 114, 207-216.	9.6	93
7	Impact of Nitrate-Mediated Microbial Control of Souring in Oil Reservoirs on the Extent of Corrosion. Biotechnology Progress, 2001, 17, 852-859.	2.6	70
8	Anaerobic reduction of sulfate in immobilized cell bioreactors, using a microbial culture originated from an oil reservoir. Biochemical Engineering Journal, 2006, 31, 148-159.	3.6	58
9	A kinetic study on anaerobic reduction of sulphate, part II: incorporation of temperature effects in the kinetic model. Chemical Engineering Science, 2005, 60, 3517-3524.	3.8	47
10	Evaluation of autotrophic and heterotrophic processes in biofilm reactors used for removal of sulphide, nitrate and COD. Bioresource Technology, 2010, 101, 8109-8118.	9.6	39
11	Control of H2S emission from swine manure using Na-nitrite and Na-molybdate. Journal of Hazardous Materials, 2008, 154, 300-309.	12.4	34
12	Biodegradation of a surrogate naphthenic acid under denitrifying conditions. Water Research, 2014, 51, 11-24.	11.3	33
13	Evaluation of metal oxide nanoparticles for adsorption of gas phase ammonia. Journal of Environmental Chemical Engineering, 2017, 5, 422-431.	6.7	32
14	Biodegradation kinetics of trans-4-methyl-1-cyclohexane carboxylic acid. Biodegradation, 2009, 20, 125-133.	3.0	29
15	Batch and continuous biodegradation of three model naphthenic acids in a circulating packed-bed bioreactor. Journal of Hazardous Materials, 2012, 201-202, 132-140.	12.4	28
16	Combined biological and chemical oxidation of ferrous sulfate using immobilised Thiobacillus ferrooxidans. Journal of Chemical Technology and Biotechnology, 1999, 74, 562-570.	3.2	24
17	Gas phase adsorption of ammonia using nano TiO2-activated carbon composites â€“ Effect of TiO2 loading and composite characterization. Journal of Environmental Chemical Engineering, 2017, 5, 5902-5911.	6.7	22
18	Biodegradation kinetics of transâ€4â€methylâ€1â€cyclohexane carboxylic acid in continuously stirred tank and immobilized cell bioreactors. Journal of Chemical Technology and Biotechnology, 2009, 84, 992-1000.	3.2	20

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19	Laboratory, semi-pilot and room scale study of nitrite and molybdate mediated control of H2S emission from swine manure. Bioresource Technology, 2010, 101, 2141-2151.	9.6	20
20	Biological removal of nitrate by an oil reservoir culture capable of autotrophic and heterotrophic activities: Kinetic evaluation and modeling of heterotrophic process. Journal of Hazardous Materials, 2011, 190, 686-693.	12.4	20
21	Biodegradation of phenol in batch and continuous flow microbial fuel cells with rod and granular graphite electrodes. Environmental Technology (United Kingdom), 2018, 39, 144-156.	2.2	19
22	Treatment of Waters Contaminated by Phenol and Cresols in Circulating Packed Bed Bioreactorsâ€"Biodegradation and Toxicity Evaluations. Water, Air, and Soil Pollution, 2018, 229, 1.	2.4	17
23	Mass Transfer and Bioremediation of Naphthalene and Methyl Naphthalenes in Baffled and Bead Mill Bioreactors. Canadian Journal of Chemical Engineering, 2006, 84, 349-355.	1.7	16
24	Adsorptive removal of tetracycline and lincomycin from contaminated water using magnetized activated carbon. Journal of Environmental Chemical Engineering, 2021, 9, 105998.	6.7	15
25	Improved mass transfer and biodegradation rates of naphthalene particles using a novel bead mill bioreactor. Journal of Chemical Technology and Biotechnology, 2005, 80, 662-668.	3.2	12
26	Biodegradation of diesel oil in a baffled roller bioreactor. Journal of Chemical Technology and Biotechnology, 2009, 84, 525-532.	3.2	12
27	Ammonia loading rate: an effective variable to control partial nitrification and generate the anaerobic ammonium oxidation influent. Environmental Technology (United Kingdom), 2014, 35, 523-531.	2.2	12
28	Continuous Coâ€biodegradation of linear and cyclic naphthenic acids in circulating packedâ€bed bioreactors. Environmental Progress and Sustainable Energy, 2014, 33, 835-843.	2.3	11
29	Scale-up impacts on mass transfer and bioremediation of suspended naphthalene particles in bead mill bioreactors. Bioresource Technology, 2008, 99, 8143-8150.	9.6	10
30	Mass transfer and bioremediation of aromatics from NAPL in a baffled roller bioreactor. Chemical Engineering Research and Design, 2008, 86, 252-258.	5.6	9
31	Simultaneous capture of NH3 and H2S using TiO2 and ZnO nanoparticles - laboratory evaluation and application in a livestock facility. Journal of Environmental Chemical Engineering, 2020, 8, 103615.	6.7	9
32	Oxidation of phenol in a bioremediation medium using chlorine dioxide. Journal of Chemical Technology and Biotechnology, 2010, 85, 720-725.	3.2	8
33	Title is missing!. Biotechnology Letters, 1997, 19, 39-43.	2.2	7
34	Anoxic biodegradation of a surrogate naphthenic acid coupled to reduction of nitrite. Biochemical Engineering Journal, 2016, 110, 84-94.	3.6	7
35	Application of ZnO Nanoparticles in Control of H2S Emission from Low-Temperature Gases and Swine Manure Gas. Water, Air, and Soil Pollution, 2017, 228, 1.	2.4	7
36	Biodegradation kinetics of 1,4-benzoquinone in batch and continuous systems. Biodegradation, 2011, 22, 1087-1093.	3.0	6

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37	Evaluation of heterotrophic nitrite removal by a sulphide and acetate oxidizing mixed culture originated from an oil reservoir. Journal of Chemical Technology and Biotechnology, 2012, 87, 410-417.	3.2	6
38	Oxygen mass transfer and scale-up studies in baffled roller bioreactors. Bioprocess and Biosystems Engineering, 2014, 37, 193-203.	3.4	6
39	Physical and Biological Treatment of Oil-Contaminated Soil in a Baffled Roller Bioreactor. Bioremediation Journal, 2009, 13, 130-140.	2.0	5
40	Scale up of diesel oil biodegradation in a baffled roller bioreactor. Chemosphere, 2010, 79, 1010-1016.	8.2	5
41	Co-biodegradation of Phenol, o-Cresol, and p-Cresol in Binary and Ternary Mixtures: Evaluation of Bioreactor Performance and Toxicity of Treated Effluents. Water, Air, and Soil Pollution, 2022, 233, 1.	2.4	5
42	Model for biodegradation of a naphthenic acid in an immobilized cell reactor. Canadian Journal of Chemical Engineering, 2009, 87, 507-513.	1.7	4
43	Biokinetic evaluation of fatty acids degradation in microbial fuel cell type bioreactors. Bioprocess and Biosystems Engineering, 2015, 38, 25-38.	3.4	4
44	Biodegradation of surrogate naphthenic acids and electricity generation in microbial fuel cells: bioelectrochemical and microbial characterizations. Bioprocess and Biosystems Engineering, 2018, 41, 1635-1649.	3.4	4
45	Naphthalene Mass Transfer from a Non-Aqueous Phase Liquid (NAPL) in Rotating Baffled and Bead Mill Bioreactors. Separation Science and Technology, 2008, 43, 2103-2116.	2.5	2
46	Kinetic Modelling of Phenol Oxidation in a Bioremediation Medium Using Fenton's Reagent. International Journal of Chemical Reactor Engineering, 2011, 9, .	1.1	1
47	Co-biodegradation of naphthenic acids in anoxic denitrifying biofilm reactors. Environmental Technology (United Kingdom), 2021, 42, 984-1000.	2.2	1
48	NANOTECHNOLOGY-BASED CONTROL OF HAZARDOUS AIR POLLUTANTS EMISSION: PILOT SCALE TRIALS FOR SIMULTANEOUS CAPTURE OF H2S, NH3, AND ODOURS FROM LIVESTOCK FACILITIES. , 2019, , .		0
49	Impacts of bioreactor operating parameters on removal efficiency, biodegradation rate, molecular distribution, and toxicity of commercial naphthenic acids. Bioprocess and Biosystems Engineering, 2022, 45, 391-407.	3.4	0