

Xinbai Jiang

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

1,644
citations

279798

23
h-index

289244

40
g-index

50
all docs

50
docs citations

50
times ranked

1449
citing authors

#	ARTICLE	IF	CITATIONS
1	Efficient nitro reduction and dechlorination of 2,4-dinitrochlorobenzene through the integration of bioelectrochemical system into upflow anaerobic sludge blanket: A comprehensive study. <i>Water Research</i> , 2016, 88, 257-265.	11.3	102
2	Substantial enhancement of anaerobic pyridine bio-mineralization by electrical stimulation. <i>Water Research</i> , 2018, 130, 291-299.	11.3	101
3	Microbial degradation mechanism of pyridine by <i>Paracoccus</i> sp. NJUST30 newly isolated from aerobic granules. <i>Chemical Engineering Journal</i> , 2018, 344, 86-94.	12.7	86
4	Coupling of a bioelectrochemical system for p-nitrophenol removal in an upflow anaerobic sludge blanket reactor. <i>Water Research</i> , 2014, 67, 11-18.	11.3	85
5	Aerobic granulation accelerated by biochar for the treatment of refractory wastewater. <i>Chemical Engineering Journal</i> , 2017, 314, 88-97.	12.7	77
6	Biochar supported sulfide-modified nanoscale zero-valent iron for the reduction of nitrobenzene. <i>RSC Advances</i> , 2018, 8, 22161-22168.	3.6	68
7	Synthesis of Cu ₂ O@CuFe ₂ O ₄ microparticles from Fenton sludge and its application in the Fenton process: the key role of Cu ₂ O in the catalytic degradation of phenol. <i>RSC Advances</i> , 2018, 8, 5740-5748.	3.6	67
8	Aerobic granulation strategy for bioaugmentation of a sequencing batch reactor (SBR) treating high strength pyridine wastewater. <i>Journal of Hazardous Materials</i> , 2015, 295, 153-160.	12.4	64
9	Facilitated bio-mineralization of N,N-dimethylformamide in anoxic denitrification system: Long-term performance and biological mechanism. <i>Water Research</i> , 2020, 186, 116306.	11.3	60
10	Substantially enhanced anaerobic reduction of nitrobenzene by biochar stabilized sulfide-modified nanoscale zero-valent iron: Process and mechanisms. <i>Environment International</i> , 2019, 131, 105020.	10.0	59
11	Enhanced nitrobenzene reduction by modified biochar supported sulfidated nano zerovalent iron: Comparison of surface modification methods. <i>Science of the Total Environment</i> , 2019, 694, 133701.	8.0	52
12	Simultaneous debromination and mineralization of bromophenol in an up-flow electricity-stimulated anaerobic system. <i>Water Research</i> , 2019, 157, 8-18.	11.3	50
13	Coaggregation mechanism of pyridine-degrading strains for the acceleration of the aerobic granulation process. <i>Chemical Engineering Journal</i> , 2018, 338, 176-183.	12.7	49
14	Fabrication of polypyrrole/Fe ₂ -MnO ₂ modified graphite felt anode for enhancing recalcitrant phenol degradation in a bioelectrochemical system. <i>Electrochimica Acta</i> , 2017, 244, 119-128.	5.2	45
15	Comprehensive comparison of bacterial communities in a membrane-free bioelectrochemical system for removing different mononitrophenols from wastewater. <i>Bioresource Technology</i> , 2016, 216, 645-652.	9.6	44
16	Bioaugmentation potential of a newly isolated strain <i>Sphingomonas</i> sp. NJUST37 for the treatment of wastewater containing highly toxic and recalcitrant tricyclazole. <i>Bioresource Technology</i> , 2018, 264, 98-105.	9.6	44
17	Enhanced anoxic biodegradation of pyridine coupled to nitrification in an inner loop anoxic/oxic-dynamic membrane bioreactor (A/O-DMBR). <i>Bioresource Technology</i> , 2018, 267, 626-633.	9.6	42
18	Nanoscale zero-valent iron supported on biochar for the highly efficient removal of nitrobenzene. <i>Frontiers of Environmental Science and Engineering</i> , 2019, 13, 1.	6.0	40

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19	Fabrication of polyaniline/graphene oxide composite for graphite felt electrode modification and its performance in the bioelectrochemical system. <i>Journal of Electroanalytical Chemistry</i> , 2015, 744, 95-100.	3.8	38
20	Bioaugmentation strategy for the treatment of fungicide wastewater by two triazole-degrading strains. <i>Chemical Engineering Journal</i> , 2018, 349, 17-24.	12.7	36
21	Recycle of Fenton sludge through one-step synthesis of aminated magnetic hydrochar for Pb ²⁺ removal from wastewater. <i>Journal of Hazardous Materials</i> , 2021, 406, 124581.	12.4	34
22	Co-metabolic enhancement of 1H-1,2,4-triazole biodegradation through nitrification. <i>Bioresource Technology</i> , 2019, 271, 236-243.	9.6	29
23	Nitrate stimulation of N-Methylpyrrolidone biodegradation by <i>Paracoccus pantotrophus</i> : Metabolite mechanism and Genomic characterization. <i>Bioresource Technology</i> , 2019, 294, 122185.	9.6	28
24	Electricity-stimulated anaerobic system (ESAS) for enhanced energy recovery and pollutant removal: A critical review. <i>Chemical Engineering Journal</i> , 2021, 411, 128548.	12.7	25
25	BiVO ₄ /FeOOH semiconductor-microbe interface for enhanced visible-light-driven biodegradation of pyridine. <i>Water Research</i> , 2020, 187, 116464.	11.3	24
26	Optimization of S/Fe ratio for enhanced nitrobenzene biological removal in anaerobic system amended with sulfide-modified nanoscale zerovalent iron. <i>Chemosphere</i> , 2020, 247, 125832.	8.2	23
27	Simultaneous removal of pyridine and denitrification in an integrated bioelectro-photocatalytic system utilizing N-doped graphene/±-Fe ₂ O ₃ modified photoanode. <i>Electrochimica Acta</i> , 2021, 366, 137425.	5.2	22
28	Enhanced bio-photodegradation of p-chlorophenol by CdS/g-C ₃ N ₄ 3D semiconductor-microbe interfaces. <i>Science of the Total Environment</i> , 2022, 807, 151006.	8.0	22
29	Ag-TiO ₂ /biofilm/nitrate interface enhanced visible light-assisted biodegradation of tetracycline: The key role of nitrate as the electron acceptor. <i>Water Research</i> , 2022, 215, 118212.	11.3	20
30	Laccase-catalyzed electrochemical fabrication of polyaniline/graphene oxide composite onto graphite felt electrode and its application in bioelectrochemical system. <i>Electrochimica Acta</i> , 2016, 190, 16-24.	5.2	19
31	Coupled biodegradation of p-nitrophenol and p-aminophenol in bioelectrochemical system: Mechanism and microbial functional diversity. <i>Journal of Environmental Sciences</i> , 2021, 108, 134-144.	6.1	19
32	Enhanced bioelectrochemical reduction of p-nitrophenols in the cathode of self-driven microbial fuel cells. <i>RSC Advances</i> , 2016, 6, 29072-29079.	3.6	18
33	Simultaneous high-concentration pyridine removal and denitrification in an electricity assisted bio-photodegradation system. <i>Chemical Engineering Journal</i> , 2022, 430, 132598.	12.7	18
34	Promotion of Para-Chlorophenol Reduction and Extracellular Electron Transfer in an Anaerobic System at the Presence of Iron-Oxides. <i>Frontiers in Microbiology</i> , 2018, 9, 2052.	3.5	17
35	Synergistic effect of pyrrolic N and graphitic N for the enhanced nitrophenol reduction of nitrogen-doped graphene-modified cathode in the bioelectrochemical system. <i>Journal of Electroanalytical Chemistry</i> , 2018, 823, 32-39.	3.8	17
36	Synthesis of magnetic hydrochar from Fenton sludge and sewage sludge for enhanced anaerobic decolorization of azo dye AO7. <i>Journal of Hazardous Materials</i> , 2022, 424, 127622.	12.4	15

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37	The key role of biogenic manganese oxides in enhanced removal of highly recalcitrant 1,2,4-triazole from bio-treated chemical industrial wastewater. <i>Environmental Science and Pollution Research</i> , 2017, 24, 10570-10583.	5.3	12
38	Structural characteristics and microbial function of biofilm in membrane-aerated biofilm reactor for the biodegradation of volatile pyridine. <i>Journal of Hazardous Materials</i> , 2022, 437, 129370.	12.4	12
39	Evaluation of N-methylpyrrolidone bio-mineralization mechanism and bacterial community evolution under denitrification environment. <i>Journal of Cleaner Production</i> , 2022, 343, 130945.	9.3	11
40	Development of a Microalgal (<i>Chlorella</i>)-Bacterial (<i>Paracoccus</i>) Symbiotic System for Pyridine Biodegradation under Photosynthetic Oxygenation. <i>ACS ES&T Water</i> , 2021, 1, 356-365.	4.6	10
41	Enhanced p-nitrophenol removal in a membrane-free bio-contact coupled bioelectrochemical system. <i>RSC Advances</i> , 2015, 5, 27052-27059.	3.6	9
42	1H-1,2,4-Triazole biodegradation by newly isolated Raoultella sp.: A novel biodegradation pathway. <i>Bioresource Technology Reports</i> , 2019, 6, 63-69.	2.7	8
43	Carbon black supported on a Mn-MIL-100 framework as high-efficiency electrocatalysts for nitrophenol reduction. <i>Journal of Electroanalytical Chemistry</i> , 2021, 903, 115824.	3.8	8
44	Reductive potential from cathode electrode as an option for the achievement of short-cut nitrification in bioelectrochemical systems. <i>Bioresource Technology</i> , 2021, 338, 125553.	9.6	5
45	Enhanced 4-chlorophenol biodegradation by integrating Fe ₂ O ₃ nanoparticles into an anaerobic reactor: Long-term performance and underlying mechanism. <i>Frontiers of Environmental Science and Engineering</i> , 2022, 16, 1.	6.0	3
46	Degradation of p-nitrophenol by coupled cathodic reduction and anodic oxidation in a self-powered bioelectrochemical system and analysis of microbial community. , 0, 132, 179-187.		2
47	The catalytic properties of manganese oxides supported on a novel type of copper-containing silica gel for tricyclazole degradation with ozone. , 0, 171, 196-204.		2
48	Assembling nanoscale zero-valent iron on magnetic Fe ₃ O ₄ /reduced graphene oxide composite for efficient reduction of hexanitrohexaazaisowurtzitane (CL-20). , 0, 182, 225-236.		2
49	Bioelectrodegradation of Hazardous Organic Contaminants from Industrial Wastewater. , 2019, , 93-119.		1
50	Synthesis of hollow anatase nanospheres with excellent adsorption and photocatalytic performances. <i>RSC Advances</i> , 2017, 7, 41399-41402.	3.6	0