Weimin Zeng

List of Publications by Year in descending order

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59 papers	1,393 citations	361413 20 h-index	377865 34 g-index
60 all docs	60 docs citations	60 times ranked	1005 citing authors

#	Article	IF	Citations
1	Adsorption characteristics of Cr(VI) on microalgae immobilized by different carriers. International Journal of Phytoremediation, 2022, 24, 704-720.	3.1	6
2	Optimization and Characterization of an Antioxidant Exopolysaccharide Produced by Cupriavidus pauculus 1490. Journal of Polymers and the Environment, 2022, 30, 2077-2086.	5.0	4
3	Impact of bamboo sphere amendment on composting performance and microbial community succession in food waste composting. Journal of Environmental Management, 2022, 303, 114144.	7.8	18
4	Insights into the role of extracellular DNA in heavy metal adsorption. Science of the Total Environment, 2022, 808, 152067.	8.0	14
5	Recovery of heavy metals from industrial wastewater using bioelectrochemical system inoculated with novel Castellaniella species. Environmental Research, 2022, 205, 112467.	7.5	28
6	A novel polysaccharides-based bioflocculant produced by Bacillus subtilis ZHX3 and its application in the treatment of multiple pollutants. Chemosphere, 2022, 289, 133185.	8.2	9
7	Microbial community structures and their driving factors in a typical gathering area of antimony mining and smelting in South China. Environmental Science and Pollution Research, 2022, 29, 50070-50084.	5.3	8
8	Enhancing microbial fuel cell performance using anode modified with Fe3O4 nanoparticles. Bioprocess and Biosystems Engineering, 2022, 45, 877-890.	3.4	12
9	Longitudinal physiological and transcriptomic analyses reveal the short term and long term response of Synechocystis sp. PCC6803 to cadmium stress. Chemosphere, 2022, 303, 134727.	8.2	13
10	Insight into the microbial mechanisms for the improvement of composting efficiency driven by Aneurinibacillus sp. LD3. Bioresource Technology, 2022, 359, 127487.	9.6	10
11	Optimization of whole-cell immobilization system constructed with two-species microorganism and its ability of tetracycline wastewater treatment. International Journal of Environmental Science and Technology, 2021, 18, 471-482.	3.5	7
12	Biosorption behavior and mechanism of cadmium from aqueous solutions by Synechocystis sp. PCC6803. RSC Advances, 2021, 11, 18637-18650.	3.6	16
13	A high-efficiency Klebsiella variicola H12-CMC-FeS@biochar for chromium removal from aqueous solution. Scientific Reports, 2021, 11, 6611.	3.3	9
14	Bioleaching and Electrochemical Behavior of Chalcopyrite by a Mixed Culture at Low Temperature. Frontiers in Microbiology, 2021, 12, 663757.	3.5	10
15	Dynamic Response of Soil Enzymes and Microbial Diversity to Continuous Application of Atrazine in Black Soil of a Cornfield without Rotation in Northeast China. Diversity, 2021, 13, 259.	1.7	11
16	Effects of Atrazine on Chernozem Microbial Communities Evaluated by Traditional Detection and Modern Sequencing Technology. Microorganisms, 2021, 9, 1832.	3.6	5
17	Construction of fungi-microalgae symbiotic system and adsorption study of heavy metal ions. Separation and Purification Technology, 2021, 268, 118689.	7.9	56
18	Deciphering the Endophytic and Rhizospheric Microbial Communities of a Metallophyte Commelina communis in Different Cu-Polluted Soils. Microorganisms, 2021, 9, 1689.	3.6	4

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19	Effect of bamboo sphere amendment on the organic matter decomposition and humification of food waste composting. Waste Management, 2021, 133, 19-27.	7.4	34
20	Optimization of ultrasound-assisted aqueous extraction of polyphenols from Psidium guajava leaves using response surface methodology. Separation Science and Technology, 2020, 55, 728-738.	2.5	11
21	Role of extracellular polymeric substance (EPS) in toxicity response of soil bacteria Bacillus sp. S3 to multiple heavy metals. Bioprocess and Biosystems Engineering, 2020, 43, 153-167.	3.4	116
22	A high-efficiency Fe2O3@Microalgae composite for heavy metal removal from aqueous solution. Journal of Water Process Engineering, 2020, 33, 101026.	5.6	55
23	Recovery of Metals from Acid Mine Drainage by Bioelectrochemical System Inoculated with a Novel Exoelectrogen, Pseudomonas sp. E8. Microorganisms, 2020, 8, 41.	3.6	25
24	Sequentially recover heavy metals from smelting wastewater using bioelectrochemical system coupled with thermoelectric generators. Ecotoxicology and Environmental Safety, 2020, 205, 111174.	6.0	23
25	Complete genome sequencing and comparative genomic analyses of Bacillus sp. S3, a novel hyper Sb(III)-oxidizing bacterium. BMC Microbiology, 2020, 20, 106.	3.3	11
26	Antimony-oxidizing bacteria alleviate Sb stress in Arabidopsis by attenuating Sb toxicity and reducing Sb uptake. Plant and Soil, 2020, 452, 397-412.	3.7	20
27	Whole Genome Sequencing and Comparative Genomic Analyses of Lysinibacillus pakistanensis LZH-9, a Halotolerant Strain with Excellent COD Removal Capability. Microorganisms, 2020, 8, 716.	3.6	3
28	Insights into the production of extracellular polymeric substances of Cupriavidus pauculus 1490 under the stimulation of heavy metal ions. RSC Advances, 2020, 10, 20385-20394.	3.6	30
29	The roles of extracellular polymeric substances of Pandoraea sp. XY-2 in the removal of tetracycline. Bioprocess and Biosystems Engineering, 2020, 43, 1951-1960.	3.4	4
30	Effective Treatment of Acid Mine Drainage with Microbial Fuel Cells: An Emphasis on Typical Energy Substrates. Minerals (Basel, Switzerland), 2020, 10, 443.	2.0	24
31	Bioinformatics and Transcriptional Study of the Nramp Gene in the Extreme Acidophile Acidithiobacillus ferrooxidans Strain DC. Minerals (Basel, Switzerland), 2020, 10, 544.	2.0	7
32	Effect of Arsenic Pollution Extent on Microbial Community in Shimen Long-Term Arsenic-Contaminated Soil. Water, Air, and Soil Pollution, 2020, 231, 1.	2.4	21
33	Bioleaching of low-grade copper sulfide ore by extremely thermoacidophilic consortia at 70 Â°C in column reactors. Journal of Central South University, 2020, 27, 1404-1415.	3.0	7
34	Comparison of bioleaching of chalcopyrite concentrates with mixed culture after cryopreservation with PEG-2000 in liquid nitrogen. Journal of Central South University, 2020, 27, 1386-1394.	3.0	5
35	Construction of a Tetracycline Degrading Bacterial Consortium and Its Application Evaluation in Laboratory-Scale Soil Remediation. Microorganisms, 2020, 8, 292.	3.6	27
36	Exploration of potential jarosite biomineralization mechanism based on extracellular polymer substances of Purpureocillium lilacinum Y3. International Biodeterioration and Biodegradation, 2020, 150, 104941.	3.9	13

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37	Behavior and Mechanism of Cesium Biosorption from Aqueous Solution by Living Synechococcus PCC7002. Microorganisms, 2020, 8, 491.	3.6	21
38	Extraction and characterization of extracellular polymeric substances from a mixed fungal culture during the adaptation process with waste printed circuit boards. Environmental Science and Pollution Research, 2019, 26, 22137-22146.	5.3	7
39	Whole Genome Sequencing and Comparative Genomics Analyses of Pandoraea sp. XY-2, a New Species Capable of Biodegrade Tetracycline. Frontiers in Microbiology, 2019, 10, 33.	3.5	43
40	Optimization of Mixed Cultivation of the Moderate Thermophilic Bioleaching Microorganisms for High Cell Density Using Statistical Methodology. Geomicrobiology Journal, 2019, 36, 224-231.	2.0	6
41	Application of the kinetic and isotherm models for better understanding of the mechanism of biomineralization process induced by Purpureocillium lilacinum Y3. Colloids and Surfaces B: Biointerfaces, 2019, 181, 207-214.	5.0	11
42	Increased chalcopyrite bioleaching capabilities of extremely thermoacidophilic Metallosphaera sedula inocula by mixotrophic propagation. Journal of Industrial Microbiology and Biotechnology, 2019, 46, 1113-1127.	3.0	21
43	The potential role of brassinosteroids (BRs) in alleviating antimony (Sb) stress in Arabidopsis thaliana. Plant Physiology and Biochemistry, 2019, 141, 51-59.	5.8	46
44	Effects of pH value on the expression of key iron/sulfur oxidation genes during bioleaching of chalcopyrite on thermophilic condition. Annals of Microbiology, 2019, 69, 627-635.	2.6	32
45	Metagenomic Insights into the Effects of Seasonal Temperature Variation on the Activities of Activated Sludge. Microorganisms, 2019, 7, 713.	3.6	14
46	Optimization of ultrasound-assisted water extraction of flavonoids from Psidium guajava leaves by response surface analysis. Preparative Biochemistry and Biotechnology, 2019, 49, 21-29.	1.9	13
47	Identification and Analysis of a Novel Gene Cluster Involves in Fe2+ Oxidation in Acidithiobacillus ferrooxidans ATCC 23270, a Typical Biomining Acidophile. Current Microbiology, 2018, 75, 818-826.	2.2	12
48	Extracellular DNA enhances the adsorption of Sulfobacillus thermosulfidooxidans strain ST on chalcopyrite surface. Hydrometallurgy, 2018, 176, 97-103.	4.3	33
49	Characterization of extracellular polysaccharide/protein contents during the adsorption of Cd(II) by Synechocystis sp. PCC6803. Environmental Science and Pollution Research, 2018, 25, 20713-20722.	5.3	61
50	Extracellular polymeric substances (EPS) secreted byPurpureocillium lilacinumstrain Y3 promote biosynthesis of jarosite. RSC Advances, 2018, 8, 22635-22642.	3.6	19
51	Bioleaching of low-grade waste printed circuit boards by mixed fungal culture and its community structure analysis. Resources, Conservation and Recycling, 2018, 136, 267-275.	10.8	76
52	Evolution ofSulfobacillus thermosulfidooxidanssecreting alginate during bioleaching of chalcopyrite concentrate. Journal of Applied Microbiology, 2017, 122, 1586-1594.	3.1	10
53	Genomic and transcriptomic analyses reveal adaptation mechanisms of an Acidithiobacillus ferrivorans strain YL15 to alpine acid mine drainage. PLoS ONE, 2017, 12, e0178008.	2.5	34
54	Geography Plays a More Important Role than Soil Composition on Structuring Genetic Variation of Pseudometallophyte Commelina communis. Frontiers in Plant Science, 2016, 7, 1085.	3.6	7

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55	Effect of the Super Network on Rubber Reinforcement. Journal of Macromolecular Science - Physics, 2014, 53, 40-51.	1.0	0
56	The shift of microbial community under the adjustment of initial and processing pH during bioleaching of chalcopyrite concentrate by moderate thermophiles. Bioresource Technology, 2014, 162, 300-307.	9.6	65
57	Characterization of extracellular polymeric substances extracted during the bioleaching of chalcopyrite concentrate. Hydrometallurgy, 2010, 100, 177-180.	4.3	72
58	Community structure and dynamics of the free and attached microorganisms during moderately thermophilic bioleaching of chalcopyrite concentrate. Bioresource Technology, 2010, 101, 7068-7075.	9.6	105
59	Variations of airborne bacterial community with seasons and environmental factors in Changsha, China. Air Quality, Atmosphere and Health, 0, , 1.	3.3	8