

# Weimin Zeng

## List of Publications by Year in descending order

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Version: 2024-02-01

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	Role of extracellular polymeric substance (EPS) in toxicity response of soil bacteria <i>Bacillus</i> sp. S3 to multiple heavy metals. <i>Bioprocess and Biosystems Engineering</i> , 2020, 43, 153-167.	3.4	116
2	Community structure and dynamics of the free and attached microorganisms during moderately thermophilic bioleaching of chalcopyrite concentrate. <i>Bioresource Technology</i> , 2010, 101, 7068-7075.	9.6	105
3	Bioleaching of low-grade waste printed circuit boards by mixed fungal culture and its community structure analysis. <i>Resources, Conservation and Recycling</i> , 2018, 136, 267-275.	10.8	76
4	Characterization of extracellular polymeric substances extracted during the bioleaching of chalcopyrite concentrate. <i>Hydrometallurgy</i> , 2010, 100, 177-180.	4.3	72
5	The shift of microbial community under the adjustment of initial and processing pH during bioleaching of chalcopyrite concentrate by moderate thermophiles. <i>Bioresource Technology</i> , 2014, 162, 300-307.	9.6	65
6	Characterization of extracellular polysaccharide/protein contents during the adsorption of Cd(II) by <i>Synechocystis</i> sp. PCC6803. <i>Environmental Science and Pollution Research</i> , 2018, 25, 20713-20722.	5.3	61
7	Construction of fungi-microalgae symbiotic system and adsorption study of heavy metal ions. <i>Separation and Purification Technology</i> , 2021, 268, 118689.	7.9	56
8	A high-efficiency Fe <sub>2</sub> O <sub>3</sub> @Microalgae composite for heavy metal removal from aqueous solution. <i>Journal of Water Process Engineering</i> , 2020, 33, 101026.	5.6	55
9	The potential role of brassinosteroids (BRs) in alleviating antimony (Sb) stress in <i>Arabidopsis thaliana</i> . <i>Plant Physiology and Biochemistry</i> , 2019, 141, 51-59.	5.8	46
10	Whole Genome Sequencing and Comparative Genomics Analyses of <i>Pandoraea</i> sp. XY-2, a New Species Capable of Biodegrade Tetracycline. <i>Frontiers in Microbiology</i> , 2019, 10, 33.	3.5	43
11	Genomic and transcriptomic analyses reveal adaptation mechanisms of an <i>Acidithiobacillus ferrivorans</i> strain YL15 to alpine acid mine drainage. <i>PLoS ONE</i> , 2017, 12, e0178008.	2.5	34
12	Effect of bamboo sphere amendment on the organic matter decomposition and humification of food waste composting. <i>Waste Management</i> , 2021, 133, 19-27.	7.4	34
13	Extracellular DNA enhances the adsorption of <i>Sulfobacillus thermosulfidooxidans</i> strain ST on chalcopyrite surface. <i>Hydrometallurgy</i> , 2018, 176, 97-103.	4.3	33
14	Effects of pH value on the expression of key iron/sulfur oxidation genes during bioleaching of chalcopyrite on thermophilic condition. <i>Annals of Microbiology</i> , 2019, 69, 627-635.	2.6	32
15	Insights into the production of extracellular polymeric substances of <i>Cupriavidus pauculus</i> 1490 under the stimulation of heavy metal ions. <i>RSC Advances</i> , 2020, 10, 20385-20394.	3.6	30
16	Recovery of heavy metals from industrial wastewater using bioelectrochemical system inoculated with novel <i>Castellaniella</i> species. <i>Environmental Research</i> , 2022, 205, 112467.	7.5	28
17	Construction of a Tetracycline Degrading Bacterial Consortium and Its Application Evaluation in Laboratory-Scale Soil Remediation. <i>Microorganisms</i> , 2020, 8, 292.	3.6	27
18	Recovery of Metals from Acid Mine Drainage by Bioelectrochemical System Inoculated with a Novel Exoelectrogen, <i>Pseudomonas</i> sp. E8. <i>Microorganisms</i> , 2020, 8, 41.	3.6	25

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19	Effective Treatment of Acid Mine Drainage with Microbial Fuel Cells: An Emphasis on Typical Energy Substrates. <i>Minerals (Basel, Switzerland)</i> , 2020, 10, 443.	2.0	24
20	Sequentially recover heavy metals from smelting wastewater using bioelectrochemical system coupled with thermoelectric generators. <i>Ecotoxicology and Environmental Safety</i> , 2020, 205, 111174.	6.0	23
21	Increased chalcopyrite bioleaching capabilities of extremely thermoacidophilic <i>Metallosphaera sedula</i> inocula by mixotrophic propagation. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2019, 46, 1113-1127.	3.0	21
22	Effect of Arsenic Pollution Extent on Microbial Community in Shimen Long-Term Arsenic-Contaminated Soil. <i>Water, Air, and Soil Pollution</i> , 2020, 231, 1.	2.4	21
23	Behavior and Mechanism of Cesium Biosorption from Aqueous Solution by Living <i>Synechococcus</i> PCC7002. <i>Microorganisms</i> , 2020, 8, 491.	3.6	21
24	Antimony-oxidizing bacteria alleviate Sb stress in <i>Arabidopsis</i> by attenuating Sb toxicity and reducing Sb uptake. <i>Plant and Soil</i> , 2020, 452, 397-412.	3.7	20
25	Extracellular polymeric substances (EPS) secreted by <i>Purpureocillium lilacinum</i> strain Y3 promote biosynthesis of jarosite. <i>RSC Advances</i> , 2018, 8, 22635-22642.	3.6	19
26	Impact of bamboo sphere amendment on composting performance and microbial community succession in food waste composting. <i>Journal of Environmental Management</i> , 2022, 303, 114144.	7.8	18
27	Biosorption behavior and mechanism of cadmium from aqueous solutions by <i>Synechocystis</i> sp. PCC6803. <i>RSC Advances</i> , 2021, 11, 18637-18650.	3.6	16
28	Metagenomic Insights into the Effects of Seasonal Temperature Variation on the Activities of Activated Sludge. <i>Microorganisms</i> , 2019, 7, 713.	3.6	14
29	Insights into the role of extracellular DNA in heavy metal adsorption. <i>Science of the Total Environment</i> , 2022, 808, 152067.	8.0	14
30	Optimization of ultrasound-assisted water extraction of flavonoids from <i>Psidium guajava</i> leaves by response surface analysis. <i>Preparative Biochemistry and Biotechnology</i> , 2019, 49, 21-29.	1.9	13
31	Exploration of potential jarosite biomineralization mechanism based on extracellular polymer substances of <i>Purpureocillium lilacinum</i> Y3. <i>International Biodeterioration and Biodegradation</i> , 2020, 150, 104941.	3.9	13
32	Longitudinal physiological and transcriptomic analyses reveal the short term and long term response of <i>Synechocystis</i> sp. PCC6803 to cadmium stress. <i>Chemosphere</i> , 2022, 303, 134727.	8.2	13
33	Identification and Analysis of a Novel Gene Cluster Involved in Fe <sup>2+</sup> Oxidation in <i>Acidithiobacillus ferrooxidans</i> ATCC 23270, a Typical Biomining Acidophile. <i>Current Microbiology</i> , 2018, 75, 818-826.	2.2	12
34	Enhancing microbial fuel cell performance using anode modified with Fe <sub>3</sub> O <sub>4</sub> nanoparticles. <i>Bioprocess and Biosystems Engineering</i> , 2022, 45, 877-890.	3.4	12
35	Application of the kinetic and isotherm models for better understanding of the mechanism of biomineralization process induced by <i>Purpureocillium lilacinum</i> Y3. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019, 181, 207-214.	5.0	11
36	Optimization of ultrasound-assisted aqueous extraction of polyphenols from <i>Psidium guajava</i> leaves using response surface methodology. <i>Separation Science and Technology</i> , 2020, 55, 728-738.	2.5	11

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37	Complete genome sequencing and comparative genomic analyses of <i>Bacillus</i> sp. S3, a novel hyper Sb(III)-oxidizing bacterium. <i>BMC Microbiology</i> , 2020, 20, 106.	3.3	11
38	Dynamic Response of Soil Enzymes and Microbial Diversity to Continuous Application of Atrazine in Black Soil of a Cornfield without Rotation in Northeast China. <i>Diversity</i> , 2021, 13, 259.	1.7	11
39	Evolution of <i>Sulfobacillus thermosulfidooxidans</i> secreting alginate during bioleaching of chalcopyrite concentrate. <i>Journal of Applied Microbiology</i> , 2017, 122, 1586-1594.	3.1	10
40	Bioleaching and Electrochemical Behavior of Chalcopyrite by a Mixed Culture at Low Temperature. <i>Frontiers in Microbiology</i> , 2021, 12, 663757.	3.5	10
41	Insight into the microbial mechanisms for the improvement of composting efficiency driven by <i>Aneurinibacillus</i> sp. LD3. <i>Bioresource Technology</i> , 2022, 359, 127487.	9.6	10
42	A high-efficiency <i>Klebsiella variicola</i> H12-CMC-FeS@biochar for chromium removal from aqueous solution. <i>Scientific Reports</i> , 2021, 11, 6611.	3.3	9
43	A novel polysaccharides-based biofloculant produced by <i>Bacillus subtilis</i> ZHX3 and its application in the treatment of multiple pollutants. <i>Chemosphere</i> , 2022, 289, 133185.	8.2	9
44	Microbial community structures and their driving factors in a typical gathering area of antimony mining and smelting in South China. <i>Environmental Science and Pollution Research</i> , 2022, 29, 50070-50084.	5.3	8
45	Variations of airborne bacterial community with seasons and environmental factors in Changsha, China. <i>Air Quality, Atmosphere and Health</i> , 0, , 1.	3.3	8
46	Geography Plays a More Important Role than Soil Composition on Structuring Genetic Variation of Pseudometallophyte <i>Commelina communis</i> . <i>Frontiers in Plant Science</i> , 2016, 7, 1085.	3.6	7
47	Extraction and characterization of extracellular polymeric substances from a mixed fungal culture during the adaptation process with waste printed circuit boards. <i>Environmental Science and Pollution Research</i> , 2019, 26, 22137-22146.	5.3	7
48	Bioinformatics and Transcriptional Study of the <i>Nramp</i> Gene in the Extreme Acidophile <i>Acidithiobacillus ferrooxidans</i> Strain DC. <i>Minerals (Basel, Switzerland)</i> , 2020, 10, 544.	2.0	7
49	Bioleaching of low-grade copper sulfide ore by extremely thermoacidophilic consortia at 70 °C in column reactors. <i>Journal of Central South University</i> , 2020, 27, 1404-1415.	3.0	7
50	Optimization of whole-cell immobilization system constructed with two-species microorganism and its ability of tetracycline wastewater treatment. <i>International Journal of Environmental Science and Technology</i> , 2021, 18, 471-482.	3.5	7
51	Optimization of Mixed Cultivation of the Moderate Thermophilic Bioleaching Microorganisms for High Cell Density Using Statistical Methodology. <i>Geomicrobiology Journal</i> , 2019, 36, 224-231.	2.0	6
52	Adsorption characteristics of Cr(VI) on microalgae immobilized by different carriers. <i>International Journal of Phytoremediation</i> , 2022, 24, 704-720.	3.1	6
53	Comparison of bioleaching of chalcopyrite concentrates with mixed culture after cryopreservation with PEG-2000 in liquid nitrogen. <i>Journal of Central South University</i> , 2020, 27, 1386-1394.	3.0	5
54	Effects of Atrazine on Chernozem Microbial Communities Evaluated by Traditional Detection and Modern Sequencing Technology. <i>Microorganisms</i> , 2021, 9, 1832.	3.6	5

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55	The roles of extracellular polymeric substances of <i>Pandoraea</i> sp. XY-2 in the removal of tetracycline. <i>Bioprocess and Biosystems Engineering</i> , 2020, 43, 1951-1960.	3.4	4
56	Deciphering the Endophytic and Rhizospheric Microbial Communities of a Metallophyte <i>Commelina communis</i> in Different Cu-Polluted Soils. <i>Microorganisms</i> , 2021, 9, 1689.	3.6	4
57	Optimization and Characterization of an Antioxidant Exopolysaccharide Produced by <i>Cupriavidus pauculus</i> 1490. <i>Journal of Polymers and the Environment</i> , 2022, 30, 2077-2086.	5.0	4
58	Whole Genome Sequencing and Comparative Genomic Analyses of <i>Lysinibacillus pakistanensis</i> LZH-9, a Halotolerant Strain with Excellent COD Removal Capability. <i>Microorganisms</i> , 2020, 8, 716.	3.6	3
59	Effect of the Super Network on Rubber Reinforcement. <i>Journal of Macromolecular Science - Physics</i> , 2014, 53, 40-51.	1.0	0