

Zhiguo He

List of Publications by Year in descending order

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Version: 2024-02-01

58
papers

1,786
citations

279798

23
h-index

289244

40
g-index

58
all docs

58
docs citations

58
times ranked

1588
citing authors

#	ARTICLE	IF	CITATIONS
1	A comprehensive survey on the horizontal and vertical distribution of heavy metals and microorganisms in soils of a Pb/Zn smelter. <i>Journal of Hazardous Materials</i> , 2020, 400, 123255.	12.4	143
2	Isolation and characterization of a Cr(VI)-reduction <i>Ochrobactrum</i> sp. strain CScr-3 from chromium landfill. <i>Journal of Hazardous Materials</i> , 2009, 163, 869-873.	12.4	128
3	Research on the Adsorption Behavior of Heavy Metal Ions by Porous Material Prepared with Silicate Tailings. <i>Minerals (Basel, Switzerland)</i> , 2019, 9, 291.	2.0	119
4	Cell envelop is the key site for Cr(VI) reduction by <i>Oceanobacillus oncorhynchi</i> W4, a newly isolated Cr(VI) reducing bacterium. <i>Journal of Hazardous Materials</i> , 2019, 368, 149-155.	12.4	101
5	The (d)evolution of methanotrophy in the <i>Beijerinckiaceae</i> a comparative genomics analysis. <i>ISME Journal</i> , 2014, 8, 369-382.	9.8	91
6	Vertical distribution of microbial communities in chromium-contaminated soil and isolation of Cr(VI)-Reducing strains. <i>Ecotoxicology and Environmental Safety</i> , 2019, 180, 242-251.	6.0	63
7	Both cell envelope and cytoplasm were the locations for chromium(VI) reduction by <i>Bacillus</i> sp. M6. <i>Bioresource Technology</i> , 2019, 273, 130-135.	9.6	63
8	Bioreduction performances and mechanisms of Cr(VI) by <i>Sporosarcina saromensis</i> W5, a novel Cr(VI)-reducing facultative anaerobic bacteria. <i>Journal of Hazardous Materials</i> , 2021, 413, 125411.	12.4	59
9	Bioleaching of a low-grade nickel-copper sulfide by mixture of four thermophiles. <i>Bioresource Technology</i> , 2014, 153, 300-306.	9.6	57
10	Microbial Diversity of Chromium-Contaminated Soils and Characterization of Six Chromium-Removing Bacteria. <i>Environmental Management</i> , 2016, 57, 1319-1328.	2.7	54
11	Molecular diversity of microbial community in acid mine drainages of Yunfu sulfide mine. <i>Extremophiles</i> , 2007, 11, 305-314.	2.3	51
12	Efficient activation of peroxymonosulfate by a novel catalyst prepared directly from electrolytic manganese slag for degradation of recalcitrant organic pollutants. <i>Chemical Engineering Journal</i> , 2020, 401, 126085.	12.7	50
13	Cr(VI) reductase activity locates in the cytoplasm of <i>Aeribacillus pallidus</i> BK1, a novel Cr(VI)-reducing thermophile isolated from Tengchong geothermal region, China. <i>Chemical Engineering Journal</i> , 2019, 371, 524-534.	12.7	45
14	Microbial populations in acid mineral bioleaching systems of Tong Shankou Copper Mine, China. <i>Journal of Applied Microbiology</i> , 2007, 103, 1227-1238.	3.1	42
15	Preparation of metallic iron powder from red mud by sodium salt roasting and magnetic separation. <i>Canadian Metallurgical Quarterly</i> , 2014, 53, 183-189.	1.2	37
16	Toxicity evaluation of cadmium-containing quantum dots: A review of optimizing physicochemical properties to diminish toxicity. <i>Colloids and Surfaces B: Biointerfaces</i> , 2021, 200, 111609.	5.0	37
17	Microbial diversity in acid mineral bioleaching systems of dongxiang copper mine and Yinshan lead-zinc mine. <i>Extremophiles</i> , 2008, 12, 225-234.	2.3	36
18	High adsorption capacity and super selectivity for Pb(II) by a novel adsorbent: Nano humboldtine/almandine composite prepared from natural almandine. <i>Chemosphere</i> , 2020, 253, 126650.	8.2	35

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19	Exploration on the bioreduction mechanisms of Cr(VI) and Hg(II) by a newly isolated bacterial strain <i>Pseudomonas umsungensis</i> CY-1. <i>Ecotoxicology and Environmental Safety</i> , 2020, 201, 110850.	6.0	32
20	Multi-walled carbon nanotubes facilitated Roxarsone elimination in SR-AOPs by accelerating electron transfer in modified electrolytic manganese residue and forming surface activated-complexes. <i>Water Research</i> , 2021, 200, 117266.	11.3	32
21	Microbial diversity of mine water at Zhong Tiaoshan copper mine, China. <i>Journal of Basic Microbiology</i> , 2007, 47, 485-495.	3.3	30
22	Characterization of Five Chromium-Removing Bacteria Isolated from Chromium-Contaminated Soil. <i>Water, Air, and Soil Pollution</i> , 2014, 225, 1.	2.4	29
23	Efficient removal of Hg ²⁺ from aqueous solution by a novel composite of nano humboldtine decorated almandine (NHDA): Ion exchange, reducing-oxidation and adsorption. <i>Journal of Hazardous Materials</i> , 2021, 404, 124035.	12.4	28
24	Efficient removal of hexavalent chromium in a wide pH range by composite of SiO ₂ supported nano ferrous oxalate. <i>Chemical Engineering Journal</i> , 2020, 383, 123209.	12.7	24
25	Insights into the dynamics of bacterial communities during chalcopyrite bioleaching. <i>FEMS Microbiology Ecology</i> , 2010, 74, 155-164.	2.7	23
26	Effects of L-cysteine on Ni ²⁺ -Cu sulfide and marmatite bioleaching by <i>Acidithiobacillus caldus</i> . <i>Bioresource Technology</i> , 2009, 100, 1383-1387.	9.6	22
27	The cytotoxicities in prokaryote and eukaryote varied for CdSe and CdSe/ZnS quantum dots and differed from cadmium ions. <i>Ecotoxicology and Environmental Safety</i> , 2019, 181, 336-344.	6.0	22
28	A novel composite of SiO ₂ decorated with nano ferrous oxalate (SDNF) for efficient and highly selective removal of Pb ²⁺ from aqueous solutions. <i>Journal of Hazardous Materials</i> , 2020, 391, 122193.	12.4	21
29	Efficient removal of diethyl dithiocarbamate with EDTA functionalized electrolytic manganese residue and mechanism exploration. <i>Journal of Hazardous Materials</i> , 2021, 410, 124582.	12.4	21
30	(Fe _{0.67} Mn _{0.33})OOH riched in oxygen vacancies facilitated the PMS activation of modified EMR for refractory foaming agent removal from mineral processing wastewater. <i>Chemical Engineering Journal</i> , 2022, 441, 136024.	12.7	21
31	A novel composite of almandine supported humboldtine nanospheres, in situ synthesized from natural almandine, possesses high removal efficiency of Cr(VI) over a wide pH range. <i>Journal of Hazardous Materials</i> , 2020, 383, 121199.	12.4	20
32	Study on the oxidative stress and transcriptional level in Cr(VI) and Hg(II) reducing strain <i>Acinetobacter indicus</i> yy-1 isolated from chromium-contaminated soil. <i>Chemosphere</i> , 2021, 269, 128741.	8.2	20
33	Heavy metal ions removed from imitating acid mine drainages with a thermoacidophilic archaea: <i>Acidianus manzaensis</i> YN25. <i>Ecotoxicology and Environmental Safety</i> , 2020, 190, 110084.	6.0	18
34	Monitoring bacterial community shifts in bioleaching of Ni ²⁺ -Cu sulfide. <i>Bioresource Technology</i> , 2010, 101, 8287-8293.	9.6	17
35	Column study of enhanced Cr(VI) removal and removal mechanisms by <i>Sporosarcina saromensis</i> W5 assisted bio-permeable reactive barrier. <i>Journal of Hazardous Materials</i> , 2021, 405, 124115.	12.4	16
36	Process optimization on the extraction of rubidium from rubidium-bearing biotite. <i>Minerals Engineering</i> , 2019, 137, 87-93.	4.3	15

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37	Eco-friendly leaching of rubidium from biotite-containing minerals with oxalic acid and effective removal of Hg ²⁺ from aqueous solution using the leaching residues. <i>Journal of Cleaner Production</i> , 2021, 306, 127167.	9.3	15
38	The effect of culture condition and ionic strength on proton adsorption at the surface of the extreme thermophile <i>Acidianus manzaensis</i> . <i>Colloids and Surfaces B: Biointerfaces</i> , 2013, 102, 667-673.	5.0	13
39	Oxalic acid modified copper tailings as an efficient adsorbent with super high capacities for the removal of Pb ²⁺ . <i>Chemosphere</i> , 2021, 263, 127833.	8.2	13
40	Low concentration of Tween-20 enhanced the adhesion and biofilm formation of <i>Acidianus manzaensis</i> YN-25 on chalcopyrite surface. <i>Chemosphere</i> , 2021, 284, 131403.	8.2	12
41	Mineralization of lead by <i>Phanerochaete chrysosporium</i> microcapsules loaded with hydroxyapatite. <i>Journal of Hazardous Materials</i> , 2022, 422, 126902.	12.4	11
42	Comparative analysis of early-stage adsorption and biofilm formation of thermoacidophilic archaeon <i>Acidianus manzaensis</i> YN-25 on chalcopyrite and pyrite surfaces. <i>Biochemical Engineering Journal</i> , 2020, 163, 107744.	3.6	10
43	Effect of panchakavya (organic formulation) on phytoremediation of lead and zinc using <i>Zea mays</i> . <i>Chemosphere</i> , 2020, 246, 125810.	8.2	9
44	The Contribution of Long-Term Static Interactions Between Minerals and Flotation Reagents for the Separation of Fluorite and Calcite. <i>Minerals (Basel, Switzerland)</i> , 2019, 9, 699.	2.0	8
45	<i>Sulfobacillus thermosulfidooxidans</i> : an acidophile isolated from acid hot spring for the biosorption of heavy metal ions. <i>International Journal of Environmental Science and Technology</i> , 2020, 17, 2655-2666.	3.5	8
46	Analysis of Differential-expressed Proteins of <i>Acidithiobacillus ferrooxidans</i> Grown under Phosphate Starvation. <i>BMB Reports</i> , 2005, 38, 545-549.	2.4	8
47	Rubidium chloride modulated the fecal microbiota community in mice. <i>BMC Microbiology</i> , 2021, 21, 46.	3.3	7
48	Extracellular polymeric substances of acidophilic microorganisms play a crucial role in heavy metal ions adsorption. <i>International Journal of Environmental Science and Technology</i> , 2022, 19, 4857-4868.	3.5	7
49	Efficient removal of arsenite by a composite of amino modified silica supported MnO ₂ /Fe ³⁺ /Al hydroxide (SNMFA) prepared from biotite. <i>Journal of Environmental Management</i> , 2021, 291, 112678.	7.8	7
50	Efficient and selective removal of Ag ⁺ as nano silver particles by the composite of SiO ₂ supported nano ferrous oxalate. <i>Environmental Research</i> , 2021, 202, 111696.	7.5	6
51	Oxygen vacancy enhances the catalytic activity of trimetallic oxide catalysts for efficient peroxymonosulfate activation. <i>Environmental Science: Nano</i> , 2022, 9, 1037-1051.	4.3	6
52	Exploration on the Cr(VI) resistance mechanism of a novel thermophilic Cr(VI)-reducing bacteria <i>Anoxybacillus flavithermus</i> ABF1 isolated from Tengchong geothermal region, China. <i>Environmental Microbiology Reports</i> , 2022, 14, 795-803.	2.4	6
53	Ag ⁺ significantly promoted the biofilm formation of thermoacidophilic archaeon <i>Acidianus manzaensis</i> YN-25 on chalcopyrite surface. <i>Chemosphere</i> , 2021, 276, 130208.	8.2	5
54	Analysis of differential protein expression in <i>Acidithiobacillus ferrooxidans</i> grown under different energy resources respectively using SELDI-ProteinChip technologies. <i>Journal of Microbiological Methods</i> , 2006, 65, 10-20.	1.6	4

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55	Efficient removal of Cd ²⁺ from aqueous solution with a novel composite of silicon supported nano iron/aluminum/magnesium (hydr)oxides prepared from biotite. <i>Journal of Environmental Management</i> , 2022, 305, 114288.	7.8	4
56	Column study of enhanced Cr(VI) removal by bio-permeable reactive barrier constructed from novel iron-based material and <i>Sporosarcina saromensis</i> W5. <i>Environmental Science and Pollution Research</i> , 2022, 29, 44893-44905.	5.3	4
57	Alleviating the toxicity of quantum dots to <i>Phanerochaete chrysosporium</i> by sodium hydrosulfide and cysteine. <i>Environmental Science and Pollution Research</i> , 2020, 27, 11116-11126.	5.3	1
58	Microbial community shifts during the process of marmatite bioleaching. <i>Hydrometallurgy</i> , 2014, 149, 127-131.	4.3	0