

# Baoping Xin

## List of Publications by Year in descending order

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Version: 2024-02-01

52  
papers

1,669  
citations

361413  
20  
h-index

289244  
40  
g-index

52  
all docs

52  
docs citations

52  
times ranked

1353  
citing authors

#	ARTICLE	IF	CITATIONS
1	Efficient removal of As, Cu and Cd and synthesis of photo-catalyst from Cu-smelting waste acid through sulfide precipitation by biogenic gaseous H <sub>2</sub> S produced by anaerobic membrane bioreactor. <i>Chemical Engineering Journal</i> , 2023, 451, 138096.	12.7	8
2	Pyrometallurgy coupling bioleaching for recycling of waste printed circuit boards. <i>Resources, Conservation and Recycling</i> , 2022, 178, 106018.	10.8	24
3	Indirect bioleaching recovery of valuable metals from electroplating sludge and optimization of various parameters using response surface methodology (RSM). <i>Journal of Environmental Management</i> , 2022, 312, 114927.	7.8	16
4	Utilizing waste Zn-Mn batteries in combination with waste SCR catalyst to construct a magnetically recoverable and highly photocatalytic materials. <i>Chemical Physics Letters</i> , 2022, 796, 139530.	2.6	6
5	Enhanced metal bioleaching mechanisms of extracellular polymeric substance for obsolete LiNi <sub>x</sub> Co <sub>y</sub> Mn <sub>1-x-y</sub> O <sub>2</sub> at high pulp density. <i>Journal of Environmental Management</i> , 2022, 318, 115429.	7.8	8
6	Deep removal of arsenic from regenerated products of spent V <sub>2</sub> O <sub>5</sub> -WO <sub>3</sub> /TiO <sub>2</sub> SCR catalysts and its concurrent activation by bioleaching through a novel mechanism. <i>Chemical Engineering Journal</i> , 2021, 420, 127722.	12.7	23
7	Quick extracellular biosynthesis of low-cadmium Zn <sub>x</sub> Cd <sub>1-x</sub> S quantum dots with full-visible-region tuneable high fluorescence and its application potential assessment in cell imaging. <i>RSC Advances</i> , 2021, 11, 21813-21823.	3.6	6
8	Controlled Biosynthesis of ZnCdS Quantum Dots with Visible-Light-Driven Photocatalytic Hydrogen Production Activity. <i>Nanomaterials</i> , 2021, 11, 1357.	4.1	21
9	Generation behavior of extracellular polymeric substances and its correlation with extraction efficiency of valuable metals and change of process parameters during bioleaching of spent petroleum catalyst. <i>Chemosphere</i> , 2021, 275, 130006.	8.2	15
10	Efficient and industrial production of H <sub>2</sub> SO <sub>4</sub> from sulfur sludge by acidophilic cells in a membrane bioreactor via optimizing process. <i>Journal of Cleaner Production</i> , 2020, 250, 119444.	9.3	4
11	Optimization of thermal pre-treatment for simultaneous and efficient release of both Co and Mo from used Co Mo catalyst by bioleaching and their mechanisms. <i>Hydrometallurgy</i> , 2020, 198, 105389.	4.3	5
12	Synthesis of nano-sized Zn-Mn ferrite from the resulting bioleachate of obsolete Zn-Mn batteries at a high pulp density of 5.0% enhanced by the added Fe <sup>3+</sup> . <i>Journal of Cleaner Production</i> , 2019, 229, 299-307.	9.3	8
13	Improved bioleaching of copper and zinc from brake pad waste by low-temperature thermal pretreatment and its mechanisms. <i>Waste Management</i> , 2019, 87, 629-635.	7.4	18
14	High-Yield Extracellular Biosynthesis of ZnS Quantum Dots through a Unique Molecular Mediation Mechanism by the Peculiar Extracellular Proteins Secreted by a Mixed Sulfate Reducing Bacteria. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 10442-10451.	8.0	28
15	Extracellular biosynthesis of Cu <sub>2</sub> -xSe nanocrystallites with photocatalytic activity. <i>Materials Research Bulletin</i> , 2019, 111, 126-132.	5.2	18
16	New insight into cleaner control of heavy metal anode slime from aqueous sulfate electrolytes containing Mn (...): Preliminary characterization and mechanism analysis. <i>Journal of Cleaner Production</i> , 2018, 177, 276-283.	9.3	23
17	Gallium recovery from aluminum smelting slag via a novel combined process of bioleaching and chemical methods. <i>Hydrometallurgy</i> , 2018, 177, 140-145.	4.3	10
18	Functional exploration of extracellular polymeric substances (EPS) in the bioleaching of obsolete electric vehicle LiNi <sub>x</sub> Co <sub>y</sub> Mn <sub>1-x-y</sub> O <sub>2</sub> Li-ion batteries. <i>Journal of Hazardous Materials</i> , 2018, 354, 250-257.	12.4	58

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19	Mn bio-dissolution from low-grade MnO <sub>2</sub> ore and simultaneous Fe precipitation in presence of waste electrolytic manganese anolyte as nitrogen source and iron scavenger. <i>Journal of Cleaner Production</i> , 2017, 158, 182-191.	9.3	20
20	Simultaneous oxidative degradation of toxic acid wastewater from production of nitrocellulose and release of Mn <sup>2+</sup> from low-grade MnO <sub>2</sub> ore as oxidant. <i>Journal of Chemical Technology and Biotechnology</i> , 2017, 92, 1638-1644.	3.2	4
21	Controlled extracellular biosynthesis of ZnS quantum dots by sulphate reduction bacteria in the presence of hydroxypropyl starch as a mediator. <i>Journal of Nanoparticle Research</i> , 2017, 19, 1.	1.9	16
22	Screening Bioleaching Systems and Operational Conditions for Optimal Ni Recovery from Dry Electroplating Sludge and Exploration of the Leaching Mechanisms Involved. <i>Geomicrobiology Journal</i> , 2016, 33, 179-184.	2.0	13
23	Reductive leaching of manganese from manganese dioxide ores by bacterial-catalyzed two-ores method. <i>International Journal of Mineral Processing</i> , 2016, 150, 24-31.	2.6	11
24	Life cycle assessment of a bio-hydrometallurgical treatment of spent ZnMn batteries. <i>Journal of Cleaner Production</i> , 2016, 129, 350-358.	9.3	36
25	Extracellular synthesis of cuprous selenide nanospheres by a biological-chemical coupling reduction process in an anaerobic microbial system. <i>Biotechnology Progress</i> , 2016, 32, 1264-1270.	2.6	7
26	Controllable biosynthesis and characterization of $\beta$ -ZnS and $\gamma$ -ZnS quantum dots: Comparing their optical properties. <i>Materials Science in Semiconductor Processing</i> , 2016, 56, 115-118.	4.0	19
27	Controllable biosynthesis of high-purity lead-sulfide (PbS) nanocrystals by regulating the concentration of polyethylene glycol in microbial system. <i>Bioprocess and Biosystems Engineering</i> , 2016, 39, 1839-1846.	3.4	21
28	Optimization of bioleaching conditions for metal removal from spent zinc-manganese batteries using response surface methodology. <i>Journal of Chemical Technology and Biotechnology</i> , 2016, 91, 608-617.	3.2	30
29	Complete mitochondrial genome of freshwater shark <i>Wallago attu</i> (Bloch & Schneider) from Indus River Sindh, Pakistan. <i>Mitochondrial DNA</i> , 2016, 27, 518-519.	0.6	0
30	Bioleaching of valuable metals Li, Co, Ni and Mn from spent electric vehicle Li-ion batteries for the purpose of recovery. <i>Journal of Cleaner Production</i> , 2016, 116, 249-258.	9.3	206
31	Extracellular Biosynthesis of High-Purity $\beta$ -MnS by the Sulfate-Reducing Bacterium <i>Anaerofilum</i> sp. through Selective Precipitation of a Mn <sup>2+</sup> -Eriochrome Black T Chelate Complex. <i>Geomicrobiology Journal</i> , 2016, 33, 194-198.	2.0	6
32	Bioleaching mechanism of Zn, Pb, In, Ag, Cd and As from Pb/Zn smelting slag by autotrophic bacteria. <i>Journal of Environmental Management</i> , 2015, 159, 11-17.	7.8	37
33	Metallic ions catalysis for improving bioleaching yield of Zn and Mn from spent Zn-Mn batteries at high pulp density of 10%. <i>Journal of Hazardous Materials</i> , 2015, 298, 170-177.	12.4	50
34	Reductive dissolution of manganese from manganese dioxide ore by autotrophic mixed culture under aerobic conditions. <i>Journal of Cleaner Production</i> , 2015, 92, 54-64.	9.3	20
35	Preparation of Zn-Mn ferrite from spent Zn-Mn batteries using a novel multi-step process of bioleaching and co-precipitation and boiling reflux. <i>Hydrometallurgy</i> , 2015, 153, 66-73.	4.3	19
36	Mercury (II) Adsorption on Three Contrasting Chinese Soils Treated with Two Sources of Dissolved Organic Matter: II. Spectroscopic Characterization. <i>Soil and Sediment Contamination</i> , 2015, 24, 719-730.	1.9	13

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37	Biosynthesis of high-purity $\text{In}^{3+}$ -MnS nanoparticle by newly isolated Clostridiaceae sp. and its properties characterization. <i>Bioprocess and Biosystems Engineering</i> , 2015, 38, 219-227.	3.4	19
38	Controllable extracellular biosynthesis of bismuth sulfide nanostructure by sulfate-reducing bacteria in water-oil two-phase system. <i>Biotechnology Progress</i> , 2014, 30, 960-966.	2.6	14
39	Process controls for improving bioleaching performance of both Li and Co from spent lithium ion batteries at high pulp density and its thermodynamics and kinetics exploration. <i>Chemosphere</i> , 2014, 109, 92-98.	8.2	104
40	Cell immobilization technique for biotrickle filtering of isopropyl alcohol waste vapor generated by high-technology industries. <i>Journal of Chemical Technology and Biotechnology</i> , 2013, 88, 364-371.	3.2	8
41	Quantitative trait loci (QTL) associated with growth rate trait in common carp ( <i>Cyprinus carpio</i> ). <i>Aquaculture International</i> , 2013, 21, 1373-1379.	2.2	25
42	A feasible method for growing fungal pellets in a column reactor inoculated with mycelium fragments and their application for dye bioaccumulation from aqueous solution. <i>Bioresource Technology</i> , 2012, 105, 100-105.	9.6	27
43	Bioleaching of zinc and manganese from spent Zn-Mn batteries and mechanism exploration. <i>Bioresource Technology</i> , 2012, 106, 147-153.	9.6	93
44	Analysis of reasons for decline of bioleaching efficiency of spent Zn-Mn batteries at high pulp densities and exploration measure for improving performance. <i>Bioresource Technology</i> , 2012, 112, 186-192.	9.6	52
45	Comparison of specific adsorption capacity of different forms of fungal pellets for removal of Acid Brilliant Red B from aqueous solution and mechanisms exploration. <i>Process Biochemistry</i> , 2012, 47, 1197-1201.	3.7	12
46	Bioleaching of Mn from manganese residues by the mixed culture of <i>Acidithiobacillus</i> and mechanism. <i>Journal of Chemical Technology and Biotechnology</i> , 2011, 86, 832-837.	3.2	18
47	Extraction of manganese from electrolytic manganese residue by bioleaching. <i>Bioresource Technology</i> , 2011, 102, 1683-1687.	9.6	100
48	Bioaccumulation of Cu-complex reactive dye by growing pellets of <i>Penicillium oxalicum</i> and its mechanism. <i>Water Research</i> , 2010, 44, 3565-3572.	11.3	23
49	Bioleaching mechanism of Co and Li from spent lithium-ion battery by the mixed culture of acidophilic sulfur-oxidizing and iron-oxidizing bacteria. <i>Bioresource Technology</i> , 2009, 100, 6163-6169.	9.6	273
50	High-purity nano particles ZnS production by a simple coupling reaction process of biological reduction and chemical precipitation mediated with EDTA. <i>Biotechnology Progress</i> , 2008, 24, 1171-1177.	2.6	13
51	Extraction and Mechanisms of Acid Dyes Into a Room Temperature Ionic Liquid. , 2008, , .		0
52	Study on the extraction of dyes into a room-temperature ionic liquid and their mechanisms. <i>Journal of Chemical Technology and Biotechnology</i> , 2007, 82, 196-204.	3.2	61