

# Ruiyong Zhang

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

61  
papers

751  
citations

17  
h-index

24  
g-index

66  
ext. papers

989  
ext. citations

4.1  
avg, IF

4.17  
L-index

#	Paper	IF	Citations
61	Inadequate dosing of THPS treatment increases microbially influenced corrosion of pipeline steel by inducing biofilm growth of <i>Desulfovibrio hontreensis</i> SY-21.. <i>Bioelectrochemistry</i> , <b>2022</b> , 145, 108048	5.6	1
60	Bioleaching of Chalcopyrite Waste Rock in the Presence of the Copper Solvent Extractant LIX984N.. <i>Frontiers in Microbiology</i> , <b>2022</b> , 13, 820052	5.7	
59	Stirred-tank bioleaching of copper and cobalt from mine tailings in Chile. <i>Minerals Engineering</i> , <b>2022</b> , 180, 107514	4.9	3
58	Fe(II) bio-oxidation mediates red mud transformations to form Fe(III)/Al (hydr)oxide adsorbent for efficient As(V) removal under acidic conditions. <i>Chemical Engineering Journal</i> , <b>2022</b> , 439, 135753	14.7	0
57	Distinctive roles of graphene oxide, ZnO quantum dots, and their nanohybrids in anti-corrosion and anti-fouling performance of waterborne epoxy coatings. <i>Chemical Engineering Journal</i> , <b>2022</b> , 439, 135765	14.7	1
56	Corrosion of an AZ31B Magnesium Alloy by Sulfate-Reducing Prokaryotes in a Mudflat Environment. <i>Microorganisms</i> , <b>2022</b> , 10, 839	4.9	3
55	Microbiologically influenced corrosion of steel in coastal surface seawater contaminated by crude oil. <i>Npj Materials Degradation</i> , <b>2022</b> , 6,	5.7	1
54	Extracellular Polymeric Substances and Biocorrosion/Biofouling: Recent Advances and Future Perspectives. <i>International Journal of Molecular Sciences</i> , <b>2022</b> , 23, 5566	6.3	1
53	Arsenate and Arsenite Sorption Using Biogenic Iron Compounds: Treatment of Real Polluted Waters in Batch and Continuous Systems. <i>Metals</i> , <b>2021</b> , 11, 1608	2.3	2
52	The Effect of Metal Ions on the Growth and Ferrous Iron Oxidation by <i>Leptospirillum ferriphilum</i> CC Isolated from Armenia Mine Sites. <i>Metals</i> , <b>2021</b> , 11, 425	2.3	3
51	sp. nov., an acidophilic bacterium inhabiting mine tailings from a polymetallic mine. <i>International Journal of Systematic and Evolutionary Microbiology</i> , <b>2021</b> , 71,	2.2	3
50	Red mud regulates arsenic fate at acidic pH via regulating arsenopyrite bio-oxidation and S, Fe, Al, Si speciation transformation. <i>Water Research</i> , <b>2021</b> , 203, 117539	12.5	1
49	Diversity of bacteria and archaea in the groundwater contaminated by chlorinated solvents undergoing natural attenuation. <i>Environmental Research</i> , <b>2020</b> , 185, 109457	7.9	9
48	Interactions Between Cells of and During Pyrite Bioleaching. <i>Frontiers in Microbiology</i> , <b>2020</b> , 11, 44	5.7	11
47	Microbiologically influenced corrosion of marine steels within the interaction between steel and biofilms: a brief view. <i>Applied Microbiology and Biotechnology</i> , <b>2020</b> , 104, 515-525	5.7	24
46	Bioleaching of cobalt from Cu/Co-rich sulfidic mine tailings from the polymetallic Rammelsberg mine, Germany. <i>Hydrometallurgy</i> , <b>2020</b> , 197, 105443	4	24
45	Newly Isolated sp. Ksh From Kashen Copper Ore: Peculiarities of EPS and Colloidal Exopolysaccharide. <i>Frontiers in Microbiology</i> , <b>2020</b> , 11, 1802	5.7	4

44	Combined effects of jarosite and visible light on chalcopyrite dissolution mediated by Acidithiobacillus ferrooxidans. <i>Science of the Total Environment</i> , <b>2020</b> , 698, 134175	10.2	31
43	Adhesion to Mineral Surfaces by Cells of Leptospirillum, Acidithiobacillus and Sulfolobus from Armenian Sulfide Ores. <i>Minerals (Basel, Switzerland)</i> , <b>2019</b> , 9, 69	2.4	10
42	Insight Into Interactions of Thermoacidophilic Archaea With Elemental Sulfur: Biofilm Dynamics and EPS Analysis. <i>Frontiers in Microbiology</i> , <b>2019</b> , 10, 896	5.7	17
41	Euonymus japonicus phyllosphere microbiome is significantly changed by powdery mildew. <i>Archives of Microbiology</i> , <b>2019</b> , 201, 1099-1109	3	6
40	Biofilm dynamics and EPS production of a thermoacidophilic bioleaching archaeon. <i>New Biotechnology</i> , <b>2019</b> , 51, 21-30	6.4	26
39	Metagenomic Resolution of Functional Diversity in Copper Surface-Associated Marine Biofilms. <i>Frontiers in Microbiology</i> , <b>2019</b> , 10, 2863	5.7	14
38	Investigation on adhesion of Sulfolobus thermosulfidooxidans via atomic force microscopy equipped with mineral probes. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2019</b> , 173, 639-646	6	12
37	Effect of elevated pressure on ferric iron reduction coupled to sulfur oxidation by biomining microorganisms. <i>Hydrometallurgy</i> , <b>2018</b> , 178, 215-223	4	8
36	Impact of Short-Term Fasting on The Rhythmic Expression of the Core Circadian Clock and Clock-Controlled Genes in Skeletal Muscle of Crucian Carp ( <i>Carrasius auratus</i> ). <i>Genes</i> , <b>2018</b> , 9,	4.2	3
35	Comparative Analysis of Attachment to Chalcopyrite of Three Mesophilic Iron and/or Sulfur-Oxidizing Acidophiles. <i>Minerals (Basel, Switzerland)</i> , <b>2018</b> , 8, 406	2.4	12
34	Reduction of Iron(III) Ions at Elevated Pressure by Acidophilic Microorganisms. <i>Solid State Phenomena</i> , <b>2017</b> , 262, 88-92	0.4	4
33	EPS Characterization of a Cell Wall-Lacking Archaeon Ferroplasma acidiphilum. <i>Solid State Phenomena</i> , <b>2017</b> , 262, 434-438	0.4	
32	Interactions of the extremely acidophilic archaeon Ferroplasma acidiphilum with acidophilic bacteria during pyrite bioleaching. <i>Applied Environmental Biotechnology</i> , <b>2016</b> , 1, 43	1.8	5
31	Enhancement of Biofilm Formation on Pyrite by Sulfolobus thermosulfidooxidans. <i>Minerals (Basel, Switzerland)</i> , <b>2016</b> , 6, 71	2.4	17
30	Influence of Sulfolobus thermosulfidooxidans on Initial Attachment and Pyrite Leaching by Thermoacidophilic Archaeon Acidianus sp. DSM 29099. <i>Minerals (Basel, Switzerland)</i> , <b>2016</b> , 6, 76	2.4	6
29	Biofilm formation and interspecies interactions in mixed cultures of thermo-acidophilic archaea Acidianus spp. and Sulfolobus metallicus. <i>Research in Microbiology</i> , <b>2016</b> , 167, 604-12	4	10
28	The Biofilm Lifestyle of Acidophilic Metal/Sulfur-Oxidizing Microorganisms. <i>Grand Challenges in Biology and Biotechnology</i> , <b>2016</b> , 177-213	2.4	8
27	Visualization and analysis of EPS glycoconjugates of the thermoacidophilic archaeon Sulfolobus metallicus. <i>Applied Microbiology and Biotechnology</i> , <b>2015</b> , 99, 7343-56	5.7	27

26	Use of lectins to in situ visualize glycoconjugates of extracellular polymeric substances in acidophilic archaeal biofilms. <i>Microbial Biotechnology</i> , <b>2015</b> , 8, 448-61	6.3	37
25	Manipulation of pyrite colonization and leaching by iron-oxidizing <i>Acidithiobacillus</i> species. <i>Applied Microbiology and Biotechnology</i> , <b>2015</b> , 99, 1435-49	5.7	42
24	Initial Attachment and Biofilm Formation of a Novel Crenarchaeote on Mineral Sulfides. <i>Advanced Materials Research</i> , <b>2015</b> , 1130, 127-130	0.5	2
23	Study and assessment of microbial communities in natural and commercial bioleaching systems. <i>Minerals Engineering</i> , <b>2015</b> , 81, 167-172	4.9	16
22	Biofilm Formation and Extracellular Polymeric Substances (EPS) Analysis by New Isolates of <i>Leptospirillum</i> , <i>Acidithiobacillus</i> and <i>Sulfobacillus</i> from Armenia. <i>Advanced Materials Research</i> , <b>2015</b> , 1130, 153-156	0.5	3
21	Interspecies Interactions of Metal-Oxidizing Thermo-Acidophilic Archaea <i>Acidianus</i> and <i>Sulfolobus</i> . <i>Advanced Materials Research</i> , <b>2015</b> , 1130, 105-108	0.5	2
20	Biofilm Formation of <i>Sulfobacillus</i> thermosulfidooxidans on Pyrite in the Presence of <i>Leptospirillum ferriphilum</i> . <i>Advanced Materials Research</i> , <b>2015</b> , 1130, 141-144	0.5	2
19	Characterization of exopolymeric substances (EPS) produced by <i>Aeromonas hydrophila</i> under reducing conditions. <i>Biofouling</i> , <b>2014</b> , 30, 501-11	3.3	39
18	Colonization and biofilm formation of the extremely acidophilic archaeon <i>Ferroplasma acidiphilum</i> . <i>Hydrometallurgy</i> , <b>2014</b> , 150, 245-252	4	36
17	Isolation and characterization of a novel <i>Acidithiobacillus ferrivorans</i> strain from the Chilean Altiplano: attachment and biofilm formation on pyrite at low temperature. <i>Research in Microbiology</i> , <b>2014</b> , 165, 782-93	4	14
16	The effect of energy substrates on PHB accumulation of <i>Acidiphilium cryptum</i> DX1-1. <i>Current Microbiology</i> , <b>2013</b> , 67, 379-87	2.4	2
15	Attachment to Minerals and Biofilm Development of Extremely Acidophilic Archaea. <i>Advanced Materials Research</i> , <b>2013</b> , 825, 103-106	0.5	2
14	Thiol-Rich Proteins Play Important Role in Adhesion and Sulfur Oxidation Process of <i>Acidithiobacillus ferrooxidans</i> . <i>Advanced Materials Research</i> , <b>2013</b> , 825, 137-140	0.5	7
13	A novel acidophilic, thermophilic iron and sulfur-oxidizing archaeon isolated from a hot spring of tengchong, yunnan, China. <i>Brazilian Journal of Microbiology</i> , <b>2011</b> , 42, 514-525	2.2	22
12	Effects of copper exposure on expression of glutathione-related genes in <i>Acidithiobacillus ferrooxidans</i> . <i>Current Microbiology</i> , <b>2011</b> , 62, 1460-6	2.4	18
11	Production of Chitinase and its Optimization from a Novel Isolate <i>Serratia marcescens</i> XJ-01. <i>Indian Journal of Microbiology</i> , <b>2011</b> , 51, 301-6	3.7	14
10	Sulfur oxidation activities of pure and mixed thermophiles and sulfur speciation in bioleaching of chalcopyrite. <i>Bioresource Technology</i> , <b>2011</b> , 102, 3877-82	11	69
9	A novel acidophilic, thermophilic iron and sulfur-oxidizing archaeon isolated from a hot spring of tengchong, yunnan, China. <i>Brazilian Journal of Microbiology</i> , <b>2011</b> , 42, 514-25	2.2	5

8	Differential expression of genes encoding sulfur metabolism-related periplasmic proteins of <i>Acidithiobacillus ferrooxidans</i> ATCC 23270. <i>Transactions of Nonferrous Metals Society of China</i> , <b>2010</b> , 20, 2366-2370	3-3	3
7	A new strain <i>Leptospirillum ferriphilum</i> YTW315 for bioleaching of metal sulfides ores. <i>Transactions of Nonferrous Metals Society of China</i> , <b>2010</b> , 20, 135-141	3-3	16
6	Isolation and characterization of acidophilic bacterium from Dongxiangshan Mine in Xinjiang Province, China. <i>Central South University</i> , <b>2010</b> , 17, 50-55		5
5	Biodegradation of di-n-butyl phthalate by <i>Rhodococcus</i> sp. JDC-11 and molecular detection of 3, 4-phthalate dioxygenase gene. <i>Journal of Microbiology and Biotechnology</i> , <b>2010</b> , 20, 1440-5	3-3	32
4	Purification and characterization of extracellular chitinase from a novel strain <i>Aspergillus fumigatus</i> CS-01. <i>Central South University</i> , <b>2009</b> , 16, 552-557		3
3	Comparative study on effects of Tween-80 and sodium isobutyl-xanthate on growth and sulfur-oxidizing activities of <i>Acidithiobacillus albertensis</i> BY-05. <i>Transactions of Nonferrous Metals Society of China</i> , <b>2008</b> , 18, 1003-1007	3-3	22
2	Sulfur activation-related extracellular proteins of <i>Acidithiobacillus ferrooxidans</i> . <i>Transactions of Nonferrous Metals Society of China</i> , <b>2008</b> , 18, 1398-1402	3-3	22
1	Screening and characterization of <i>Acidiphilium</i> sp. PJH and its role in bioleaching. <i>Transactions of Nonferrous Metals Society of China</i> , <b>2008</b> , 18, 1443-1449	3-3	6