

Jin-lan Xia

List of Publications by Year in descending order

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90
papers

1,984
citations

236612

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288905

40
g-index

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90
docs citations

90
times ranked

1889
citing authors

#	ARTICLE	IF	CITATIONS
1	The effect of mixotrophy on microalgal growth, lipid content, and expression levels of three pathway genes in <i>Chlorella sorokiniana</i> . <i>Applied Microbiology and Biotechnology</i> , 2011, 91, 835-844.	1.7	248
2	Pectic oligosaccharides hydrolyzed from orange peel by fungal multi-enzyme complexes and their prebiotic and antibacterial potentials. <i>LWT - Food Science and Technology</i> , 2016, 69, 203-210.	2.5	92
3	Sulfur oxidation activities of pure and mixed thermophiles and sulfur speciation in bioleaching of chalcopyrite. <i>Bioresource Technology</i> , 2011, 102, 3877-3882.	4.8	85
4	The effect of iron on growth, lipid accumulation, and gene expression profile of the freshwater microalga <i>Chlorella sorokiniana</i> . <i>Applied Microbiology and Biotechnology</i> , 2014, 98, 9473-9481.	1.7	72
5	Surface analysis of sulfur speciation on pyrite bioleached by extreme thermophile <i>Acidianus manzaensis</i> using Raman and XANES spectroscopy. <i>Hydrometallurgy</i> , 2010, 100, 129-135.	1.8	58
6	Characterization of the thermo-reduction process of chalcopyrite at 65Å°C by cyclic voltammetry and XANES spectroscopy. <i>Hydrometallurgy</i> , 2011, 107, 13-21.	1.8	53
7	Extraction of Al and rare earths (Ce, Gd, Sc, Y) from red mud by aerobic and anaerobic bi-stage bioleaching. <i>Chemical Engineering Journal</i> , 2020, 401, 125914.	6.6	51
8	Effect of activated carbon on chalcopyrite bioleaching with extreme thermophile <i>Acidianus manzaensis</i> . <i>Hydrometallurgy</i> , 2010, 105, 179-185.	1.8	50
9	Investigation of the sulfur speciation during chalcopyrite leaching by moderate thermophile <i>Sulfobacillus thermosulfidooxidans</i> . <i>International Journal of Mineral Processing</i> , 2010, 94, 52-57.	2.6	50
10	Humic acid promotes arsenopyrite bio-oxidation and arsenic immobilization. <i>Journal of Hazardous Materials</i> , 2020, 384, 121359.	6.5	46
11	Sulfur speciation on the surface of chalcopyrite leached by <i>Acidianus manzaensis</i> . <i>Hydrometallurgy</i> , 2009, 99, 45-50.	1.8	43
12	Effect of surfactant Tween-80 on sulfur oxidation and expression of sulfur metabolism relevant genes of <i>Acidithiobacillus ferrooxidans</i> . <i>Transactions of Nonferrous Metals Society of China</i> , 2012, 22, 3147-3155.	1.7	42
13	Extraction of Al and Ce from coal fly ash by biogenic Fe ³⁺ and H ₂ SO ₄ . <i>Chemical Engineering Journal</i> , 2019, 370, 1407-1424.	6.6	39
14	Relatedness of Cu and Fe speciation to chalcopyrite bioleaching by <i>Acidithiobacillus ferrooxidans</i> . <i>Hydrometallurgy</i> , 2015, 156, 40-46.	1.8	37
15	The differential adsorption mechanism of hexahydrated iron and hydroxyl irons on a pyrite (1â€°0â€°0) surface: A DFT study and XPS characterization. <i>Minerals Engineering</i> , 2019, 138, 215-225.	1.8	37
16	Optimizing Production of Pectinase from Orange Peel by <i>Penicillium oxalicum</i> PJ02 Using Response Surface Methodology. <i>Waste and Biomass Valorization</i> , 2015, 6, 13-22.	1.8	34
17	Comparative study of S, Fe and Cu speciation transformation during chalcopyrite bioleaching by mixed mesophiles and mixed thermophiles. <i>Minerals Engineering</i> , 2017, 106, 22-32.	1.8	34
18	Bioleaching of chalcopyrite by <i>Acidianus manzaensis</i> under different constant pH. <i>Minerals Engineering</i> , 2016, 98, 80-89.	1.8	32

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19	Study on catalytic mechanism of silver ions in bioleaching of chalcopyrite by SR-XRD and XANES. Hydrometallurgy, 2018, 180, 26-35.	1.8	31
20	Mechanism by which ferric iron promotes the bioleaching of arsenopyrite by the moderate thermophile <i>Sulfobacillus thermosulfidooxidans</i> . Process Biochemistry, 2019, 81, 11-21.	1.8	30
21	Investigation of Elemental Sulfur Speciation Transformation Mediated by <i>Acidithiobacillus ferrooxidans</i> . Current Microbiology, 2009, 58, 300-307.	1.0	29
22	Effects of Surfactants and Microwave-assisted Pretreatment of Orange Peel on Extracellular Enzymes Production by <i>Aspergillus japonicus</i> PJ01. Applied Biochemistry and Biotechnology, 2015, 176, 758-771.	1.4	29
23	Thermophilic archaeal community succession and function change associated with the leaching rate in bioleaching of chalcopyrite. Bioresource Technology, 2013, 133, 405-413.	4.8	28
24	Effects of Copper Exposure on Expression of Glutathione-Related Genes in <i>Acidithiobacillus ferrooxidans</i> . Current Microbiology, 2011, 62, 1460-1466.	1.0	27
25	Growth and surface properties of new thermoacidophilic Archaea strain <i>Acidianus manzaensis</i> YN-25 grown on different substrates. Transactions of Nonferrous Metals Society of China, 2008, 18, 1374-1378.	1.7	26
26	Sulfur activation-related extracellular proteins of <i>Acidithiobacillus ferrooxidans</i> . Transactions of Nonferrous Metals Society of China, 2008, 18, 1398-1402.	1.7	26
27	A novel acidophilic, thermophilic iron and sulfur-oxidizing archaeon isolated from a hot spring of tengchong, yunnan, China. Brazilian Journal of Microbiology, 2011, 42, 514-525.	0.8	25
28	Comparative study on effects of Tween-80 and sodium isobutyl-xanthate on growth and sulfur-oxidizing activities of <i>Acidithiobacillus albertensis</i> BY-05. Transactions of Nonferrous Metals Society of China, 2008, 18, 1003-1007.	1.7	24
29	Comparative study of multi-enzyme production from typical agro-industrial residues and ultrasound-assisted extraction of crude enzyme in fermentation with <i>Aspergillus japonicus</i> PJ01. Bioprocess and Biosystems Engineering, 2015, 38, 2013-2022.	1.7	24
30	Potential microalgal strains for converting flue gas CO ₂ into biomass. Journal of Applied Phycology, 2021, 33, 47-55.	1.5	24
31	Comparative study of sulfur utilization and speciation transformation of two elemental sulfur species by thermoacidophilic Archaea <i>Acidianus manzaensis</i> YN-25. Process Biochemistry, 2013, 48, 1855-1860.	1.8	22
32	Relatedness between catalytic effect of activated carbon and passivation phenomenon during chalcopyrite bioleaching by mixed thermophilic Archaea culture at 65 Å°C. Transactions of Nonferrous Metals Society of China, 2017, 27, 1374-1384.	1.7	22
33	Biosorption mechanism of Cr (VI) onto cells of <i>Synechococcus</i> sp.. Central South University, 2007, 14, 157-162.	0.5	20
34	Synchrotron radiation based STXM analysis and micro-XRF mapping of differential expression of extracellular thiol groups by <i>Acidithiobacillus ferrooxidans</i> grown on Fe ²⁺ and S ₀ . Journal of Microbiological Methods, 2013, 94, 257-261.	0.7	20
35	Investigation of copper, iron and sulfur speciation during bioleaching of chalcopyrite by moderate thermophile <i>Sulfobacillus thermosulfidooxidans</i> . International Journal of Mineral Processing, 2015, 137, 1-8.	2.6	20
36	Title is missing!. Journal of Applied Phycology, 2001, 13, 359-367.	1.5	18

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37	Analysis of sulfur speciation on chalcopyrite surface bioleached with <i>Acidithiobacillus ferrooxidans</i> . <i>Minerals Engineering</i> , 2012, 27-28, 60-64.	1.8	18
38	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> , 2022, 439, 135753.	6.6	17
39	Analysis of the elemental sulfur bio-oxidation by <i>Acidithiobacillus ferrooxidans</i> with sulfur K-edge XANES. <i>World Journal of Microbiology and Biotechnology</i> , 2011, 27, 1927-1931.	1.7	15
40	Effects of simulated flue gases on growth and lipid production of <i>Chlorella sorokiniana</i> CS-01. <i>Journal of Central South University</i> , 2013, 20, 730-736.	1.2	15
41	Formation and evolution of secondary minerals during bioleaching of chalcopyrite by thermoacidophilic Archaea <i>Acidianus manzaensis</i> . <i>Transactions of Nonferrous Metals Society of China</i> , 2016, 26, 2485-2494.	1.7	15
42	Taking insights into phenomics of microbe-mineral interaction in bioleaching and acid mine drainage: Concepts and methodology. <i>Science of the Total Environment</i> , 2020, 729, 139005.	3.9	15
43	Fractionation and characterization of polysaccharides from cyanobacterium <i>Spirulina (Arthrospira) maxima</i> in nitrogen-limited batch culture. <i>Central South University</i> , 2002, 9, 81-86.	0.5	14
44	Production and characterization of alkaline extracellular lipase from newly isolated strain <i>Aspergillus awamori</i> HB-03. <i>Journal of Central South University</i> , 2011, 18, 1425-1433.	1.2	14
45	Iron L-edge and sulfur K-edge XANES spectroscopy analysis of pyrite leached by <i>Acidianus manzaensis</i> . <i>Transactions of Nonferrous Metals Society of China</i> , 2015, 25, 2407-2414.	1.7	14
46	An in vitro evaluation of the effects of different statins on the structure and function of human gut bacterial community. <i>PLoS ONE</i> , 2020, 15, e0230200.	1.1	14
47	Sulfur Species Investigation in Extra- and Intracellular Sulfur Globules of <i>Acidithiobacillus ferrooxidans</i> and <i>Acidithiobacillus caldus</i> . <i>Geomicrobiology Journal</i> , 2010, 27, 707-713.	1.0	13
48	Differential utilization and transformation of sulfur allotropes, $\frac{1}{4}$ -S and $\frac{1}{8}$ -S ₈ , by moderate thermoacidophile <i>Sulfobacillus thermosulfidooxidans</i> . <i>Research in Microbiology</i> , 2014, 165, 639-646.	1.0	13
49	Combined DFT and XPS Investigation of Cysteine Adsorption on the Pyrite (1 0 0) Surface. <i>Minerals (Basel, Switzerland)</i> , 2018, 8, 366.	0.8	13
50	Impact of mechanical activation on bioleaching of pyrite: A DFT study. <i>Minerals Engineering</i> , 2020, 148, 106209.	1.8	13
51	Effect of initial pH on chalcopyrite oxidation dissolution in the presence of extreme thermophile <i>Acidianus manzaensis</i> . <i>Transactions of Nonferrous Metals Society of China</i> , 2014, 24, 1890-1897.	1.7	12
52	Differential expression of extracellular thiol groups of moderately thermophilic <i>Sulfobacillus thermosulfidooxidans</i> and extremely thermophilic <i>Acidianus manzaensis</i> grown on S ₀ and Fe ²⁺ . <i>Archives of Microbiology</i> , 2015, 197, 823-831.	1.0	12
53	Biogenic FeS promotes dechlorination and thus de-cytotoxicity of trichloroethylene. <i>Bioprocess and Biosystems Engineering</i> , 2020, 43, 1791-1800.	1.7	12
54	Saccharification of orange peel wastes with crude enzymes from new isolated <i>Aspergillus japonicus</i> PJ01. <i>Bioprocess and Biosystems Engineering</i> , 2016, 39, 485-492.	1.7	11

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55	Evidence of cell surface iron speciation of acidophilic iron-oxidizing microorganisms in indirect bioleaching process. <i>BioMetals</i> , 2016, 29, 25-37.	1.8	11
56	A novel acidophilic, thermophilic iron and sulfur-oxidizing archaeon isolated from a hot spring of tengchong, yunnan, China. <i>Brazilian Journal of Microbiology</i> , 2011, 42, 514-25.	0.8	11
57	Extraction and characterization of PHB from <i>Acidiphilium cryptum</i> DX1-1. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2010, 25, 938-943.	0.4	10
58	In situ characterization of change in superficial organic components of thermoacidophilic archaeon <i>Acidianus manzaensis</i> YN-25. <i>Research in Microbiology</i> , 2018, 169, 590-597.	1.0	10
59	Red mud regulates arsenic fate at acidic pH via regulating arsenopyrite bio-oxidation and S, Fe, Al, Si speciation transformation. <i>Water Research</i> , 2021, 203, 117539.	5.3	10
60	Bioleaching of chalcopyrite with different crystal phases by <i>Acidianus manzaensis</i> . <i>Transactions of Nonferrous Metals Society of China</i> , 2019, 29, 617-624.	1.7	9
61	Mechanical Activation on Bioleaching of Chalcopyrite: A New Insight. <i>Minerals (Basel, Switzerland)</i> , 2020, 10, 788.	0.8	9
62	Real-time PCR Analysis of metabolic pathway of PHB in <i>Acidiphilium cryptum</i> DX1-1. <i>Journal of Microbiology and Biotechnology</i> , 2010, 20, 71-77.	0.9	9
63	The Evidence of Decisive Effect of Both Surface Microstructure and Speciation of Chalcopyrite on Attachment Behaviors of Extreme Thermoacidophile <i>Sulfolobus metallicus</i> . <i>Minerals (Basel, Switzerland)</i> , 2021, 11, 107233.	0.784314	9
64	The mechanism by which FeS ₂ promotes the bioleaching of CuFeS ₂ : An electrochemical and DFT study. <i>Minerals Engineering</i> , 2021, 173, 107233.	1.8	8
65	Purification and characterization of extracellular chitinase from a novel strain <i>Aspergillus fumigatus</i> CS-01. <i>Central South University</i> , 2009, 16, 552-557.	0.5	7
66	Sulfur speciation transformation during bioleaching of pyrite-containing sphalerite concentrate by thermophile <i>Sulfolobus metallicus</i> at 65 °C. <i>Journal of Central South University</i> , 2012, 19, 1961-1966.	1.2	7
67	Differential utilization and speciation transformation of orthorhombic S ⁰ -S ₈ and amorphous S ⁰ -S by substrate-acclimated mesophilic <i>Acidithiobacillus ferrooxidans</i> . <i>Transactions of Nonferrous Metals Society of China</i> , 2015, 25, 3096-3102.	1.7	6
68	Structure, properties and application to water-soluble coatings of complex antimicrobial agent Ag-carboxymethyl chitosan-thiabendazole. <i>Central South University</i> , 2005, 12, 526-530.	0.5	5
69	Acidophilic bacterial community reflecting pollution level of sulphide mine impacted by acid mine drainage. <i>Central South University</i> , 2009, 16, 223-229.	0.5	5
70	Isolation and characterization of acidophilic bacterium from Dongxiangshan Mine in Xinjiang Province, China. <i>Central South University</i> , 2010, 17, 50-55.	0.5	5
71	Differential utilization of cyclic, orthorhombic S ⁰ - and chain-like polymeric S ⁰ -sulfur by <i>Acidithiobacillus ferrooxidans</i> . <i>Transactions of Nonferrous Metals Society of China</i> , 2014, 24, 1562-1570.	1.7	5
72	Identification and fermentation optimization of protopectinase-overproducing strain <i>Aspergillus niger</i> CD-01 for pectin production. <i>Central South University</i> , 2009, 16, 53-60.	0.5	4

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73	The Effect of Energy Substrates on PHB Accumulation of <i>Acidiphilium cryptum</i> DX1-1. <i>Current Microbiology</i> , 2013, 67, 379-387.	1.0	4
74	Global analysis of transcriptome sequences highlights accelerated evolution of immune genes in <i>Danio choprae</i> and <i>Danio albolineatus</i> . <i>Fish and Shellfish Immunology</i> , 2017, 66, 390-397.	1.6	4
75	Synchrotron Radiation Based Study of the Catalytic Mechanism of Ag ⁺ to Chalcopyrite Bioleaching by Mesophilic and Thermophilic Cultures. <i>Minerals (Basel, Switzerland)</i> , 2018, 8, 382.	0.8	4
76	Editorial: Bioleaching and Biocorrosion: Advances in Interfacial Processes. <i>Frontiers in Microbiology</i> , 2021, 12, 653029.	1.5	4
77	Enhancement Mechanism of Stibnite Dissolution Mediated by <i>Acidithiobacillus ferrooxidans</i> under Extremely Acidic Condition. <i>International Journal of Molecular Sciences</i> , 2022, 23, 3580.	1.8	4
78	S site doped-pyrite by single atom for efficiently catalyzing N ₂ electrochemical reduction. <i>Chemical Engineering Journal</i> , 2022, 442, 136350.	6.6	4
79	Reductive dissolution of jarosite by inorganic sulfur compounds catalyzed by <i>Acidithiobacillus thiooxidans</i> . <i>Hydrometallurgy</i> , 2022, 212, 105908.	1.8	4
80	Pectic Enzymes. , 2019, , 270-276.		3
81	Effect of the surface microstructure of arsenopyrite on the attachment of <i>Sulfobacillus thermosulfidooxidans</i> in the presence of dissolved As(III). <i>International Journal of Minerals, Metallurgy and Materials</i> , 2021, 28, 1135-1144.	2.4	3
82	The differential inhibitive effects and fates of As(III) and As(V) mediated by <i>Sulfobacillus thermosulfidooxidans</i> grown on S ₀ , Fe ²⁺ and FeS ₂ . <i>Ecotoxicology and Environmental Safety</i> , 2021, 222, 112502.	2.9	3
83	Real-time PCR analysis of metabolic pathway of PHB in <i>Acidiphilium cryptum</i> DX1-1. <i>Journal of Microbiology and Biotechnology</i> , 2010, 20, 71-7.	0.9	3
84	Achieving high throughput sequencing of a cDNA library utilizing an alternative protocol for the bench top next-generation sequencing system. <i>Journal of Microbiological Methods</i> , 2013, 92, 122-126.	0.7	2
85	Complete Genome Sequence of the Extremely Thermoacidophilic Archaeon <i>Acidianus manzaensis</i> YN-25. <i>Genome Announcements</i> , 2017, 5, .	0.8	2
86	Methodology of factorial design deriving guidelines for simulation of growth curve and production of sugars by <i>Spirulina (Arthrospira) maxima</i> . <i>Central South University</i> , 2001, 8, 228-233.	0.5	1
87	Preparation, optical properties and cell staining of water soluble amine-terminated PAMAM G2.0-Au nanocomposites. <i>Central South University</i> , 2005, 12, 641-646.	0.5	1
88	Correlation Between Fe/S/As Speciation Transformation and Depth Distribution of <i>Acidithiobacillus ferrooxidans</i> and <i>Acidiphilium acidophilum</i> in Simulated Acidic Water Column. <i>Frontiers in Microbiology</i> , 2021, 12, 819804.	1.5	1
89	The differential effect of amorphous 1/4-S and orthorhombic 8-S on chalcopyrite bioleaching by <i>Acidithiobacillus ferrooxidans</i> . <i>Minerals Engineering</i> , 2022, 184, 107660.	1.8	0
90	Biosynthesis and detection of domoic acid from diatom <i>Pseudo-nitzschia</i> : A review. <i>Current Pharmaceutical Biotechnology</i> , 2022, 23, .	0.9	0