

Wen-qing Qin

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/273086/publications.pdf>

Version: 2024-02-01

223
papers

5,668
citations

66234

42
h-index

161609

54
g-index

225
all docs

225
docs citations

225
times ranked

2788
citing authors

#	ARTICLE	IF	CITATIONS
1	Pyrolysis and physical separation for the recovery of spent LiFePO ₄ batteries. Waste Management, 2019, 89, 83-93.	3.7	120
2	Dissolution and passivation mechanisms of chalcopyrite during bioleaching: DFT calculation, XPS and electrochemistry analysis. Minerals Engineering, 2016, 98, 264-278.	1.8	99
3	Selective flotation of scheelite from calcite using xanthan gum as depressant. Minerals Engineering, 2019, 138, 14-23.	1.8	90
4	Flotation separation of scheelite from calcite using pectin as depressant. Minerals Engineering, 2019, 136, 120-128.	1.8	77
5	Kinetic Study and Pyrolysis Behaviors of Spent LiFePO ₄ Batteries. ACS Sustainable Chemistry and Engineering, 2019, 7, 1289-1299.	3.2	77
6	Effect of redox potential on bioleaching of chalcopyrite by moderately thermophilic bacteria: An emphasis on solution compositions. Hydrometallurgy, 2015, 151, 141-150.	1.8	72
7	Production and resource utilization of flue gas desulfurized gypsum in China - A review. Environmental Pollution, 2021, 288, 117799.	3.7	72
8	Flotation separation of chalcopyrite from galena by sodium humate and ammonium persulfate. Transactions of Nonferrous Metals Society of China, 2016, 26, 265-271.	1.7	66
9	Flotation separation of fluorite from calcite using polyaspartate as depressant. Minerals Engineering, 2018, 120, 80-86.	1.8	66
10	Selective adsorption of sodium polyacrylate on calcite surface: Implications for flotation separation of apatite from calcite. Separation and Purification Technology, 2020, 241, 116415.	3.9	66
11	Adhesion forces between cells of Acidithiobacillus ferrooxidans, Acidithiobacillus thiooxidans or Leptospirillum ferrooxidans and chalcopyrite. Colloids and Surfaces B: Biointerfaces, 2012, 94, 95-100.	2.5	63
12	Bioleaching of chalcopyrite by moderately thermophilic microorganisms. Bioresource Technology, 2013, 129, 200-208.	4.8	63
13	Cadmium(II) adsorption on esterified spent grain: Equilibrium modeling and possible mechanisms. Chemical Engineering Journal, 2012, 197, 173-180.	6.6	60
14	Arsenic removal from lead-zinc smelter ash by NaOH-H ₂ O ₂ leaching. Separation and Purification Technology, 2019, 209, 128-135.	3.9	60
15	Effects of pyrite and bornite on bioleaching of two different types of chalcopyrite in the presence of Leptospirillum ferriphilum. Bioresource Technology, 2015, 194, 28-35.	4.8	58
16	New insights into the carboxymethyl cellulose adsorption on scheelite and calcite: adsorption mechanism, AFM imaging and adsorption model. Applied Surface Science, 2019, 463, 105-114.	3.1	58
17	Synergistic bioleaching of chalcopyrite and bornite in the presence of Acidithiobacillus ferrooxidans. Bioresource Technology, 2013, 149, 71-76.	4.8	56
18	Recovery of zinc and iron from high iron-bearing zinc calcine by selective reduction roasting. Journal of Industrial and Engineering Chemistry, 2015, 22, 272-279.	2.9	56

#	ARTICLE	IF	CITATIONS
19	Selective depressive effect of sodium fluorosilicate on calcite during scheelite flotation. <i>Minerals Engineering</i> , 2019, 131, 262-271.	1.8	56
20	Comparison of bioleaching and dissolution process of p-type and n-type chalcopyrite. <i>Minerals Engineering</i> , 2017, 109, 153-161.	1.8	55
21	Solution chemistry and utilization of alkyl hydroxamic acid in flotation of fine cassiterite. <i>Transactions of Nonferrous Metals Society of China</i> , 2013, 23, 1789-1796.	1.7	54
22	Electrochemical dissolution process of chalcopyrite in the presence of mesophilic microorganisms. <i>Minerals Engineering</i> , 2015, 71, 159-169.	1.8	54
23	The Role of Nanobubbles in the Precipitation and Recovery of Organic-Phosphine-Containing Beneficiation Wastewater. <i>Langmuir</i> , 2018, 34, 6217-6224.	1.6	54
24	The effect of preferential flow on extraction and surface morphology of copper sulphides during heap leaching. <i>Hydrometallurgy</i> , 2009, 95, 76-81.	1.8	53
25	Role of pyrite in sulfuric acid leaching of chalcopyrite: An elimination of polysulfide by controlling redox potential. <i>Hydrometallurgy</i> , 2016, 164, 159-165.	1.8	53
26	Bioleaching of a low grade nickel-copper-cobalt sulfide ore. <i>Hydrometallurgy</i> , 2011, 106, 32-37.	1.8	51
27	Simulated small-scale pilot plant heap leaching of low-grade oxide zinc ore with integrated selective extraction of zinc. <i>Minerals Engineering</i> , 2007, 20, 694-700.	1.8	50
28	Comparison of electrochemical dissolution of chalcopyrite and bornite in acid culture medium. <i>Transactions of Nonferrous Metals Society of China</i> , 2015, 25, 303-313.	1.7	50
29	Pretreatment of tin anode slime using alkaline pressure oxidative leaching. <i>Separation and Purification Technology</i> , 2017, 174, 389-395.	3.9	50
30	Hydrothermal Synthesis and Characterization of Single-Crystalline Fe_2O_3 Nanocubes. <i>Journal of Nanomaterials</i> , 2011, 2011, 1-5.	1.5	49
31	Inhibition performance and adsorption of polycarboxylic acids in calcite flotation. <i>Minerals Engineering</i> , 2019, 133, 60-68.	1.8	49
32	Pretreatment for the recovery of spent lithium ion batteries: theoretical and practical aspects. <i>Journal of Cleaner Production</i> , 2020, 263, 121439.	4.6	49
33	Activation effect of lead ions on scheelite flotation: Adsorption mechanism, AFM imaging and adsorption model. <i>Separation and Purification Technology</i> , 2019, 209, 955-963.	3.9	48
34	Kinetic and Mechanism Studies on Pyrolysis of Printed Circuit Boards in the Absence and Presence of Copper. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 1879-1889.	3.2	48
35	Binding mechanisms of PVDF in lithium ion batteries. <i>Applied Surface Science</i> , 2021, 553, 149564.	3.1	48
36	Combined effects of jarosite and visible light on chalcopyrite dissolution mediated by <i>Acidithiobacillus ferrooxidans</i> . <i>Science of the Total Environment</i> , 2020, 698, 134175.	3.9	47

#	ARTICLE	IF	CITATIONS
37	Solvothermal synthesis and characterization of size-controlled monodisperse Fe ₃ O ₄ nanoparticles. <i>Journal of Materials Science</i> , 2010, 45, 3483-3489.	1.7	46
38	Flotation and Surface Behavior of Cassiterite with Salicylhydroxamic Acid. <i>Industrial & Engineering Chemistry Research</i> , 2011, 50, 10778-10783.	1.8	46
39	Reductive leaching of gallium from zinc residue. <i>Hydrometallurgy</i> , 2012, 113-114, 195-199.	1.8	46
40	Column bioleaching of a low grade nickel-bearing sulfide ore containing high magnesium as olivine, chlorite and antigorite. <i>Hydrometallurgy</i> , 2009, 96, 337-341.	1.8	45
41	Effect of sodium pyrophosphate on the flotation separation of calcite from apatite. <i>Separation and Purification Technology</i> , 2020, 242, 116408.	3.9	45
42	Electrochemical characteristics and collectorless flotation behavior of galena: With and without the presence of pyrite. <i>Minerals Engineering</i> , 2015, 74, 99-104.	1.8	44
43	Selective flotation of smithsonite, quartz and calcite using alkyl diamine ether as collector. <i>Transactions of Nonferrous Metals Society of China</i> , 2018, 28, 163-168.	1.7	44
44	Synergetic effect of pyrite on strengthening bornite bioleaching by <i>Leptospirillum ferriphilum</i> . <i>Hydrometallurgy</i> , 2018, 176, 9-16.	1.8	43
45	Bioleaching of chalcopyrite by pure and mixed culture. <i>Transactions of Nonferrous Metals Society of China</i> , 2008, 18, 1491-1496.	1.7	42
46	Utilization of polyepoxysuccinic acid as the green selective depressant for the clean flotation of phosphate ores. <i>Journal of Cleaner Production</i> , 2021, 282, 124532.	4.6	42
47	Microwave-assisted synthesis and characterization of ZnO-nanorod arrays. <i>Transactions of Nonferrous Metals Society of China</i> , 2009, 19, 1578-1582.	1.7	41
48	Effect of sodium pyrophosphate on the flotation separation of chalcopyrite from galena. <i>International Journal of Mining Science and Technology</i> , 2012, 22, 345-349.	4.6	41
49	Theoretical study of the surface energy and electronic structure of pyrite FeS ₂ (100) using a total-energy pseudopotential method, CASTEP. <i>Journal of Colloid and Interface Science</i> , 2004, 270, 127-132.	5.0	40
50	Cooperative bioleaching of chalcopyrite and silver-bearing tailing by mixed moderately thermophilic culture: An emphasis on the chalcopyrite dissolution with XPS and electrochemical analysis. <i>Minerals Engineering</i> , 2015, 81, 29-39.	1.8	40
51	Effect of surface oxidation on the flotation separation of chalcopyrite and galena using sodium humate as depressant. <i>Separation Science and Technology</i> , 2018, 53, 961-972.	1.3	38
52	Stepwise bioleaching of Cu-Zn mixed ores with comprehensive utilization of silver-bearing solid waste through a new technique process. <i>Hydrometallurgy</i> , 2017, 171, 374-386.	1.8	37
53	Use of citric acid and Fe(III) mixture as depressant in calcite flotation. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019, 578, 123579.	2.3	37
54	Heap bioleaching of a low-grade nickel-bearing sulfide ore containing high levels of magnesium as olivine, chlorite and antigorite. <i>Hydrometallurgy</i> , 2009, 98, 58-65.	1.8	35

#	ARTICLE	IF	CITATIONS
55	Effects of sodium salt of N,N-dimethyldi-thiocarbamate on floatability of chalcopyrite, sphalerite, marmatite and its adsorption properties. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2013, 421, 181-192.	2.3	35
56	Innovative Methodology for Comprehensive Utilization of Spent MgO-Cr ₂ O ₃ Bricks: Copper Flotation. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 5503-5510.	3.2	35
57	Bioleaching of low-grade copper sulfide ores by <i>Acidithiobacillus ferrooxidans</i> and <i>Acidithiobacillus thiooxidans</i> . <i>Journal of Central South University</i> , 2014, 21, 728-734.	1.2	34
58	Adsorption mechanism of 2-mercaptobenzothiazole on chalcopyrite and sphalerite surfaces: Ab initio and spectroscopy studies. <i>Transactions of Nonferrous Metals Society of China</i> , 2015, 25, 2388-2397.	1.7	34
59	Effects of galvanic interaction between galena and pyrite on their flotation in the presence of butyl xanthate. <i>Transactions of Nonferrous Metals Society of China</i> , 2015, 25, 3111-3118.	1.7	33
60	Roles of oxidants and reductants in bioleaching system of chalcopyrite at normal atmospheric pressure and 45 °C. <i>International Journal of Mineral Processing</i> , 2017, 162, 81-91.	2.6	33
61	Effect of surfactant OPD on the bioleaching of marmatite. <i>Minerals Engineering</i> , 2009, 22, 10-13.	1.8	32
62	Selective Sulfidation of Lead Smelter Slag with Sulfur. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2016, 47, 344-354.	1.0	32
63	Mechanism study on the sulfidation of ZnO with sulfur and iron oxide at high temperature. <i>Scientific Reports</i> , 2017, 7, 42536.	1.6	32
64	Inhibition of galena flotation by humic acid: Identification of the adsorption site for humic acid on moderately oxidized galena surface. <i>Minerals Engineering</i> , 2019, 137, 102-107.	1.8	32
65	Bacterial leaching of chalcopyrite and bornite with native bioleaching microorganism. <i>Transactions of Nonferrous Metals Society of China</i> , 2008, 18, 1468-1472.	1.7	31
66	Adsorption mechanism of mixed salicylhydroxamic acid and tributyl phosphate collectors in fine cassiterite electro-flotation system. <i>Journal of Central South University</i> , 2012, 19, 1711-1717.	1.2	31
67	Bioleaching of heavy metals from contaminated alkaline sediment by auto- and heterotrophic bacteria in stirred tank reactor. <i>Transactions of Nonferrous Metals Society of China</i> , 2014, 24, 2969-2975.	1.7	31
68	Hydrophobic flocculation flotation of rutile fines in presence of styryl phosphonic acid. <i>Transactions of Nonferrous Metals Society of China</i> , 2018, 28, 1424-1432.	1.7	31
69	Arsenic and antimony extraction from high arsenic smelter ash with alkaline pressure oxidative leaching followed by Na ₂ S leaching. <i>Separation and Purification Technology</i> , 2019, 222, 53-59.	3.9	31
70	Insights into the relation between adhesion force and chalcopyrite-bioleaching by <i>Acidithiobacillus ferrooxidans</i> . <i>Colloids and Surfaces B: Biointerfaces</i> , 2015, 126, 351-357.	2.5	30
71	Selective depression of copper-activated sphalerite by polyaspartic acid during chalcopyrite flotation. <i>Transactions of Nonferrous Metals Society of China</i> , 2021, 31, 1784-1795.	1.7	30
72	Biomolecule-assisted synthesis of flower-like NiS microcrystals via a hydrothermal process. <i>Journal of Alloys and Compounds</i> , 2010, 493, 529-534.	2.8	29

#	ARTICLE	IF	CITATIONS
73	Vanadium leaching from carbonaceous shale using fluosilicic acid. <i>International Journal of Mineral Processing</i> , 2011, 100, 184-187.	2.6	29
74	Sulfur composition on surface of chalcopyrite during its bioleaching at 50 Å°C. <i>Transactions of Nonferrous Metals Society of China</i> , 2015, 25, 4110-4118.	1.7	29
75	The effect of galvanic interaction between chalcopyrite and pyrite on the surface chemistry and collector adsorption: Flotation and DFT study. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 607, 125377.	2.3	29
76	Effect of iron ions as assistant depressant of citric acid on the flotation separation of scheelite from calcite. <i>Chemical Engineering Science</i> , 2021, 241, 116720.	1.9	29
77	Innovative methodology for comprehensive utilization of high iron bearing zinc calcine. <i>Separation and Purification Technology</i> , 2015, 154, 263-270.	3.9	28
78	Effects of sodium salts on the sulfidation of lead smelting slag. <i>Minerals Engineering</i> , 2017, 108, 1-11.	1.8	28
79	Mechanism study on flotation separation of molybdenite from chalcocite using thioglycollic acid as depressant. <i>International Journal of Mining Science and Technology</i> , 2017, 27, 1043-1049.	4.6	28
80	Interaction mechanism of Cu ²⁺ , Fe ³⁺ ions and extracellular polymeric substances during bioleaching chalcopyrite by <i>Acidithiobacillus ferrooxidans</i> ATCC2370. <i>Transactions of Nonferrous Metals Society of China</i> , 2013, 23, 231-236.	1.7	27
81	Surface species of chalcopyrite during bioleaching by moderately thermophilic bacteria. <i>Transactions of Nonferrous Metals Society of China</i> , 2015, 25, 2725-2733.	1.7	27
82	A comprehensive utilization of silver-bearing solid wastes in chalcopyrite bioleaching. <i>Hydrometallurgy</i> , 2017, 169, 152-157.	1.8	27
83	Adsorption behavior and mechanism of Bi(III) ions on rutile-water interface in the presence of nonyl hydroxamic acid. <i>Transactions of Nonferrous Metals Society of China</i> , 2018, 28, 348-355.	1.7	27
84	Synergistic depression mechanism of zinc sulfate and sodium dimethyl dithiocarbamate on sphalerite in Pb ²⁺ /Zn flotation system. <i>Transactions of Nonferrous Metals Society of China</i> , 2020, 30, 2547-2555.	1.7	27
85	Depression mechanism of the zinc sulfate and sodium carbonate combined inhibitor on talc. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2016, 501, 92-97.	2.3	26
86	Hydrophobic agglomeration of rhodochrosite fines in aqueous suspensions with sodium oleate. <i>Powder Technology</i> , 2021, 377, 186-193.	2.1	26
87	Understanding the formation of colloidal mercury in acidic wastewater with high concentration of chloride ions by electrocapillary curves. <i>Environmental Science and Pollution Research</i> , 2014, 21, 3866-3872.	2.7	25
88	Selective Sulfidation of Lead Smelter Slag with Pyrite and Flotation Behavior of Synthetic ZnS. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2016, 47, 2400-2410.	1.0	25
89	Flotation behavior and mechanism of rutile with nonyl hydroxamic acid. <i>Rare Metals</i> , 2016, 35, 419-424.	3.6	25
90	Recovery of chromium and magnesium from spent magnesia-chrome refractories by acid leaching combined with alkali precipitation and evaporation. <i>Separation and Purification Technology</i> , 2019, 227, 115705.	3.9	25

#	ARTICLE	IF	CITATIONS
91	Effect of nanobubbles on adsorption of sodium oleate on calcite surface. Minerals Engineering, 2019, 133, 127-137.	1.8	25
92	Selective flotation separation of fluorite from calcite by using sesbania gum as depressant. Minerals Engineering, 2021, 174, 107239.	1.8	25
93	Extraction of germanium(IV) from acid leaching solution with mixtures of P204 and TBP. Journal of Central South University, 2013, 20, 1978-1984.	1.2	24
94	The synergistic depression of lime and sodium humate on the flotation separation of sphalerite from pyrite. Minerals Engineering, 2021, 163, 106779.	1.8	24
95	Electro-flotation and collision-attachment mechanism of fine cassiterite. Transactions of Nonferrous Metals Society of China, 2012, 22, 917-924.	1.7	23
96	Mineralogical Reconstruction of Lead Smelter Slag for Zinc Recovery. Separation Science and Technology, 2014, 49, 783-791.	1.3	23
97	Influence of Mixing and Nanosolids on the Formation of Nanobubbles. Journal of Physical Chemistry B, 2019, 123, 317-323.	1.2	23
98	Effects of redox potential on chalcopyrite leaching: An overview. Minerals Engineering, 2021, 172, 107135.	1.8	23
99	Sulfonated brown coal: A novel depressant for the selective flotation of scheelite from calcite. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2020, 602, 125006.	2.3	23
100	Sulfidation roasting of lead and zinc carbonate with sulphur by temperature gradient method. Journal of Central South University, 2015, 22, 1635-1642.	1.2	22
101	Synergetic Effect of the Mixed Anionic/Non-Ionic Collectors in Low Temperature Flotation of Scheelite. Minerals (Basel, Switzerland), 2017, 7, 87.	0.8	22
102	Bioleaching of low grade nickel sulfide mineral in column reactor. Transactions of Nonferrous Metals Society of China, 2008, 18, 1480-1484.	1.7	21
103	Selective synthesis and characterization of metallic cobalt, cobalt/platinum, and platinum microspheres. Journal of Alloys and Compounds, 2011, 509, 338-342.	2.8	21
104	Interactions Between Sodium Oleate and Polyoxyethylene Ether and the Application in the Low Temperature Flotation of Scheelite at 283 K. Journal of Surfactants and Detergents, 2016, 19, 1289-1295.	1.0	21
105	Thermodynamic and Kinetic Studies for Intensifying Selective Decomposition of Zinc Ferrite. Jom, 2016, 68, 2543-2550.	0.9	21
106	Pneumatic separation for crushed spent lithium-ion batteries. Waste Management, 2020, 118, 331-340.	3.7	21
107	Selective flotation separation of spodumene from feldspar using mixed anionic/nonionic collector. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2020, 594, 124605.	2.3	21
108	Floc flotation of marmatite fines in aqueous suspensions induced by butyl xanthate and ammonium dibutyl dithiophosphate. Transactions of Nonferrous Metals Society of China, 2014, 24, 1578-1586.	1.7	20

#	ARTICLE	IF	CITATIONS
109	Interactions of tert dodecyl mercaptan with sphalerite and effects on its flotation behavior. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2016, 506, 104-113.	2.3	20
110	The Activation Mechanism of Bi ³⁺ Ions to Rutile Flotation in a Strong Acidic Environment. <i>Minerals (Basel, Switzerland)</i> , 2017, 7, 113.	0.8	20
111	Recovery of antimony and bismuth from tin anode slime after soda roasting“alkaline leaching. <i>Separation and Purification Technology</i> , 2020, 242, 116789.	3.9	20
112	Solvent extraction of zinc from zinc sulfate solution. <i>Central South University</i> , 2010, 17, 760-764.	0.5	19
113	Surface Analysis of Cassiterite with Sodium Oleate in Aqueous Solution. <i>Separation Science and Technology</i> , 2012, 47, 502-506.	1.3	19
114	Selective Flotation of Chalcopyrite and Marmatite by MBT and Electrochemical Analysis. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 11538-11546.	1.8	19
115	Collision and attachment behavior between fine cassiterite particles and H ₂ bubbles. <i>Transactions of Nonferrous Metals Society of China</i> , 2014, 24, 520-527.	1.7	19
116	Co-Bioleaching of Chalcopyrite and Silver-Bearing Bornite in a Mixed Moderately Thermophilic Culture. <i>Minerals (Basel, Switzerland)</i> , 2018, 8, 4.	0.8	19
117	Understanding bubble growth process under decompression and its effects on the flotation phenomena. <i>Minerals Engineering</i> , 2020, 145, 106066.	1.8	19
118	Selective co-adsorption mechanism of a new mixed collector on the flotation separation of lepidolite from quartz. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 612, 125973.	2.3	19
119	Pyrite depression in marmatite flotation by sodium glycerine-xanthate. <i>Transactions of Nonferrous Metals Society of China</i> , 2011, 21, 1161-1165.	1.7	18
120	Really active form of fluorine toxicity affecting <i>Acidithiobacillus ferrooxidans</i> activity in bioleaching uranium. <i>Transactions of Nonferrous Metals Society of China</i> , 2013, 23, 812-817.	1.7	18
121	Mechanism of stibnite volatilization at high temperature. <i>Journal of Central South University</i> , 2015, 22, 868-873.	1.2	18
122	Copper Recovery from Yulong Complex Copper Oxide Ore by Flotation and Magnetic Separation. <i>Jom</i> , 2017, 69, 1563-1569.	0.9	18
123	A novel approach to preparing ultra-lightweight ceramsite with a large amount of fly ash. <i>Frontiers of Environmental Science and Engineering</i> , 2020, 14, 1.	3.3	18
124	Oxygen adsorption on pyrite (100) surface by density functional theory. <i>Central South University</i> , 2004, 11, 385-390.	0.5	17
125	Mixed Potential Plays a Key Role in Leaching of Chalcopyrite: Experimental and Theoretical Analysis. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 1733-1744.	1.8	17
126	Mineralogy and Pretreatment of a Refractory Gold Deposit in Zambia. <i>Minerals (Basel, Switzerland)</i> , 2019, 9, 406.	0.8	17

#	ARTICLE	IF	CITATIONS
127	New insights into the contact angle and formation process of nanobubbles based on line tension and pinning. <i>Applied Surface Science</i> , 2019, 481, 1585-1594.	3.1	17
128	Relationship among the secretion of extracellular polymeric substances, heat resistance, and bioleaching ability of <i>Metallosphaera sedula</i> . <i>International Journal of Minerals, Metallurgy and Materials</i> , 2019, 26, 1504-1511.	2.4	17
129	The influence of galvanic interaction on the dissolution and surface composition of galena and pyrite in flotation system. <i>Minerals Engineering</i> , 2020, 156, 106525.	1.8	17
130	New insights into the depressive mechanism of citric acid in the selective flotation of scheelite from fluorite. <i>Minerals Engineering</i> , 2021, 171, 107117.	1.8	17
131	Investigation of energy gene expressions and community structures of free and attached acidophilic bacteria in chalcopyrite bioleaching. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2012, 39, 1833-1840.	1.4	16
132	Insights into the Surface Transformation and Electrochemical Dissolution Process of Bornite in Bioleaching. <i>Minerals (Basel, Switzerland)</i> , 2018, 8, 173.	0.8	16
133	Adsorption mechanism of sodium oleate and styryl phosphonic acid on rutile and amphibole surfaces. <i>Transactions of Nonferrous Metals Society of China</i> , 2019, 29, 1939-1947.	1.7	16
134	Selective Separation of Arsenic from Lead Smelter Flue Dust by Alkaline Pressure Oxidative Leaching. <i>Minerals (Basel, Switzerland)</i> , 2019, 9, 308.	0.8	16
135	Preparation of calcium stannate from lead refining slag by alkaline leaching-purification-causticization process. <i>Separation and Purification Technology</i> , 2019, 212, 119-125.	3.9	16
136	Flotation separation of sphalerite from galena using eco-friendly and efficient depressant pullulan. <i>Separation and Purification Technology</i> , 2022, 295, 121013.	3.9	16
137	Bioleaching of Pb-Zn-Sn chalcopyrite concentrate in tank bioreactor and microbial community succession analysis. <i>Transactions of Nonferrous Metals Society of China</i> , 2013, 23, 3758-3762.	1.7	15
138	Effect of pH values on the extracellular polysaccharide secreted by <i>Acidithiobacillus ferrooxidans</i> during chalcopyrite bioleaching. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2014, 21, 311-316.	2.4	15
139	Cu-state evolution during leaching of bornite at 50 °C. <i>Transactions of Nonferrous Metals Society of China</i> , 2018, 28, 1632-1639.	1.7	15
140	Selective separation of calcium from zinc-rich neutralization sludge by sulfidation roasting and HCl leaching. <i>Separation and Purification Technology</i> , 2021, 259, 118064.	3.9	15
141	Selective depression mechanism of combination of lime and sodium humate on arsenopyrite in flotation separation of Zn-As bulk concentrate. <i>Transactions of Nonferrous Metals Society of China</i> , 2022, 32, 668-681.	1.7	15
142	Optimization Study on the Leaching of High Iron-Bearing Zinc Calcine After Reduction Roasting. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2016, 47, 686-693.	1.0	14
143	Influence of NH ₄ HF ₂ activation on leaching of low-grade complex copper ore in NH ₃ -NH ₄ Cl solution. <i>Separation and Purification Technology</i> , 2017, 181, 29-36.	3.9	14
144	Direct preparation of sodium stannate from lead refining dross after NaOH roasting-water leaching. <i>Separation and Purification Technology</i> , 2019, 227, 115683.	3.9	14

#	ARTICLE	IF	CITATIONS
145	New insights into the mechanism of selective flotation of copper and copper-tin alloy. Separation and Purification Technology, 2020, 253, 117497.	3.9	14
146	Combination of Pyrolysis and Physical Separation to Recover Copper and Tin from Waste Printed Circuit Boards. Jom, 2020, 72, 3179-3185.	0.9	14
147	Flotation of rhodochrosite fines induced by octyl hydroxamic acid as hydrophobic agglomerates. Powder Technology, 2021, 392, 108-115.	2.1	14
148	Microbial leaching of marmatite by Acidithiobacillus ferrooxidans and Acidithiobacillus thiooxidans. Transactions of Nonferrous Metals Society of China, 2006, 16, 937-942.	1.7	13
149	Preparation of lead sulfate powder directly from galena concentrates. Transactions of Nonferrous Metals Society of China, 2009, 19, 479-483.	1.7	13
150	Galena-pyrolusite co-extraction in sodium chloride solution and its electrochemical analysis. Transactions of Nonferrous Metals Society of China, 2010, 20, 897-902.	1.7	13
151	Mineralogical characterization of tin-polymetallic ore occurred in Mengzi, Yunnan Province, China. Transactions of Nonferrous Metals Society of China, 2012, 22, 725-730.	1.7	13
152	Flotation performances of polymorphic pyrrhotite. Journal of Central South University, 2012, 19, 238-243.	1.2	13
153	Floc flotation of jamesonite fines in aqueous suspensions induced by ammonium dibutyl dithiophosphate. Journal of Central South University, 2015, 22, 1232-1240.	1.2	13
154	Effect of calcium ions on scheelite flotation using mixed collectors. Separation Science and Technology, 2019, 54, 153-162.	1.3	13
155	Thermal degradation behaviors and evolved products analysis of polyester paint and waste enameled wires during pyrolysis. Waste Management, 2020, 107, 82-90.	3.7	13
156	Comprehensive extraction of valuable metals from waste ternary lithium batteries via roasting and leaching: Thermodynamic and kinetic studies. Minerals Engineering, 2022, 186, 107736.	1.8	13
157	Recovery of zinc from low-grade zinc oxide ores by solvent extraction. Central South University, 2003, 10, 98-102.	0.5	12
158	Metabolic changes of <i>Acidithiobacillus caldus</i> under Cu ²⁺ stress. Journal of Basic Microbiology, 2010, 50, 591-598.	1.8	12
159	Bioleaching of complex polymetallic sulfide ores by mixed culture. Journal of Central South University, 2014, 21, 2633-2637.	1.2	12
160	Reduction of lead sulfate to lead sulfide with carbon monoxide. Journal of Central South University, 2015, 22, 2929-2935.	1.2	12
161	Leaching of chalcopyrite: An emphasis on effect of copper and iron ions. Journal of Central South University, 2018, 25, 2380-2386.	1.2	12
162	Inhibition mechanism of Ca ²⁺ , Mg ²⁺ and Fe ³⁺ in fine cassiterite flotation using octanohydroxamic acid. Royal Society Open Science, 2018, 5, 180158.	1.1	12

#	ARTICLE	IF	CITATIONS
163	Sulfide mineral bioleaching: Understanding of microbe-chemistry assisted hydrometallurgy technology and acid mine drainage environment protection. <i>Journal of Central South University</i> , 2020, 27, 1367-1372.	1.2	12
164	Utilization of iron ions to improve the depressive efficiency of tartaric acid on the flotation separation of scheelite from calcite. <i>Minerals Engineering</i> , 2021, 168, 106925.	1.8	12
165	Oxidation of arsenite (As(III)) by ferric iron in the presence of pyrite and a mixed moderately thermophilic culture. <i>Hydrometallurgy</i> , 2013, 137, 53-59.	1.8	11
166	Transformation of iron in pure culture process of extremely acidophilic microorganisms. <i>Transactions of Nonferrous Metals Society of China</i> , 2017, 27, 1150-1155.	1.7	11
167	Differential fluoride tolerance between sulfur- and ferrous iron-grown <i>Acidithiobacillus ferrooxidans</i> and its mechanism analysis. <i>Biochemical Engineering Journal</i> , 2017, 119, 59-66.	1.8	11
168	Synchrotron Radiation XRD Investigation of the Fine Phase Transformation during Synthetic Chalcocite Acidic Ferric Sulfate Leaching. <i>Minerals (Basel, Switzerland)</i> , 2018, 8, 461.	0.8	11
169	Extraction of Metal Arsenic from Waste Sodium Arsenate by Roasting with Charcoal Powder. <i>Metals</i> , 2018, 8, 542.	1.0	11
170	Adsorption Structure and Mechanism of Styryl Phosphoric Acid at the Rutile-Water Interface. <i>Minerals (Basel, Switzerland)</i> , 2018, 8, 360.	0.8	11
171	Sulfidation mechanism of ZnO roasted with pyrite. <i>Scientific Reports</i> , 2018, 8, 9516.	1.6	11
172	Effect of temperature-induced phase transitions on bioleaching of chalcopyrite. <i>Transactions of Nonferrous Metals Society of China</i> , 2019, 29, 2183-2191.	1.7	11
173	Cleaning of high antimony smelting slag from an oxygen-enriched bottom-blown by direct reduction. <i>Rare Metals</i> , 2019, 38, 800-804.	3.6	11
174	Understanding the depression mechanism of sodium citrate on apatite flotation. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 588, 124312.	2.3	11
175	Selective inhibition mechanism of PBTCA on flotation separation of magnesite from calcite. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 630, 127597.	2.3	11
176	Electrodeposition of dixanthogen(TETD) on pyrite surface. <i>Transactions of Nonferrous Metals Society of China</i> , 2007, 17, 154-158.	1.7	10
177	Bioleaching of sphalerite by <i>Acidithiobacillus ferrooxidans</i> and <i>Acidithiobacillus thiooxidans</i> cultured in 9K medium modified with pyrrhotite. <i>Central South University</i> , 2008, 15, 503-507.	0.5	10
178	Recovery of gallium from zinc concentrate by pressure oxygen leaching. <i>Rare Metals</i> , 2013, 32, 622-626.	3.6	10
179	Sulfidation and Sulfur Fixation of Jarosite Residues During Reduction Roasting. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2019, 50, 761-771.	1.0	10
180	Calculation of electron structure by density function theory and electrochemical process of surface (100) of FeS ₂ . <i>Central South University</i> , 2007, 14, 618-622.	0.5	9

#	ARTICLE	IF	CITATIONS
181	Fabrication and electrochemical performance of nanoflake MnO ₂ @carbon fiber coaxial nanocables for supercapacitors. <i>Journal of Applied Electrochemistry</i> , 2016, 46, 241-249.	1.5	9
182	Comprehensive utilization of spent magnesia-chrome refractories with gravity separation followed by flotation. <i>Minerals Engineering</i> , 2018, 127, 125-133.	1.8	9
183	Use of Sodium Hexametaphosphate and Citric Acid Mixture as Depressant in the Flotation Separation of Scheelite from Calcite. <i>Minerals (Basel, Switzerland)</i> , 2019, 9, 560.	0.8	9
184	Collecting performance of vegetable oils in scheelite flotation and differential analysis. <i>Journal of Central South University</i> , 2019, 26, 787-795.	1.2	9
185	Comparison of leaching of bornite from different regions mediated by mixed moderately thermophilic bacteria. <i>Journal of Central South University</i> , 2020, 27, 1373-1385.	1.2	9
186	Removal and reuse of arsenic from arsenic-bearing purified residue by alkaline pressure oxidative leaching and reduction of As (V). <i>Hydrometallurgy</i> , 2021, 199, 105541.	1.8	9
187	Global transcriptional analysis of stress-response strategies in <i>Acidithiobacillus ferrooxidans</i> ATCC 23270 exposed to organic extractant LiX984n. <i>World Journal of Microbiology and Biotechnology</i> , 2012, 28, 1045-1055.	1.7	8
188	Water leaching of arsenic trioxide from metallurgical dust with emphasis on its kinetics. <i>Journal of Central South University</i> , 2019, 26, 2328-2339.	1.2	8
189	Well-controlled column bioleaching of a low-grade copper ore by a novel equipment. <i>Journal of Central South University</i> , 2015, 22, 3318-3325.	1.2	7
190	Bioleaching of chalcopyrite and bornite by moderately thermophilic bacteria: an emphasis on their interactions. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2015, 22, 777-787.	2.4	7
191	Improving collecting performance of sodium oleate using a polyoxyethylene ether in scheelite flotation. <i>Journal of Central South University</i> , 2018, 25, 2971-2978.	1.2	7
192	Effect of pyrite with different semiconducting properties on bornite bioleaching in the presence of <i>Leptospirillum ferriphilum</i> . <i>Hydrometallurgy</i> , 2020, 196, 105414.	1.8	7
193	Effect of microwave irradiation on secondary structure of α -amylase by circular dichroism. <i>Central South University</i> , 2011, 18, 1029-1033.	0.5	6
194	Purification of Leachate from Simultaneous Leaching of Galena Concentrate and Pyrolusite and Preparation of PbSO ₄ and Mn ₃ O ₄ . <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 5596-5607.	1.8	6
195	Flotation mechanism of octylic hydroxamic acid on diaspore. <i>Diqu Huaxue</i> , 2013, 32, 191-194.	0.5	6
196	Effect of mixed moderately thermophilic adaptation on leachability and mechanism of high arsenic gold concentrate in an airlift bioreactor. <i>Journal of Central South University</i> , 2015, 22, 66-73.	1.2	6
197	Adsorption Mechanism of Pb ²⁺ Activator for the Flotation of Rutile. <i>Minerals (Basel, Switzerland)</i> , 2018, 8, 266.	0.8	6
198	Preparation of Calcium Stannate from Lead Refining Dross by Roast-Leach-Precipitation Process. <i>Minerals (Basel, Switzerland)</i> , 2019, 9, 283.	0.8	6

#	ARTICLE	IF	CITATIONS
199	A simple and rapid HPLC method for the quantitative determination of sodium oleate in flotation study. <i>Minerals Engineering</i> , 2019, 141, 105842.	1.8	6
200	Arsenic(V) removal from enargite leach solutions by precipitation of magnesium ammonium arsenate. <i>Separation Science and Technology</i> , 2019, 54, 1862-1870.	1.3	6
201	Review on development of low-grade scheelite recovery from molybdenum tailings in Luanchuan, China: A case study of Luoyang Yulu Mining Company. <i>Transactions of Nonferrous Metals Society of China</i> , 2022, 32, 980-998.	1.7	6
202	Hydrothermal Synthesis and Electrochemical Properties of Spherical MnO_2 for Supercapacitors. <i>Journal of Nanoscience and Nanotechnology</i> , 2015, 15, 9760-9765.	0.9	5
203	Adsorption and leaching of chalcopyrite by <i>Sulfolobus metallicus</i> YN24 cultured in the distinct energy sources. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2015, 22, 549-552.	2.4	5
204	Innovative methodology for comprehensive use of tin anode slime: Preparation of CaSnO_3 . <i>Minerals Engineering</i> , 2019, 143, 105945.	1.8	5
205	Role and maintenance of redox potential on chalcopyrite biohydrometallurgy: An overview. <i>Journal of Central South University</i> , 2020, 27, 1351-1366.	1.2	5
206	Dynamics of electrodeposition of tetraethylthioram disulphide (TETD) on pyrite surface. <i>Central South University</i> , 2001, 8, 164-168.	0.5	4
207	Effect of chloride ion on bacterial pre-oxidation of arsenic-containing gold concentrate. <i>Journal of Central South University</i> , 2011, 18, 1418-1424.	1.2	4
208	Uncovering the evolution of tin use in the United States and its implications. <i>Frontiers of Environmental Science and Engineering</i> , 2021, 15, 1.	3.3	4
209	Comprehensive Recovery of Valuable Metals From Spent Magnesia "Chrome Refractories by Ferric Chloride" Hydrochloride Leaching. <i>Journal of Sustainable Metallurgy</i> , 2021, 7, 898-907.	1.1	4
210	Ferrous ion oxidation by <i>Thiobacillus ferrooxidans</i> immobilized on activated carbon. <i>Transactions of Nonferrous Metals Society of China</i> , 2006, 16, 927-930.	1.7	3
211	Treatment of mine drainage generated by lead-zinc concentration plant. <i>Journal of Central South University</i> , 2014, 21, 1453-1460.	1.2	3
212	Enhanced flotation of refractory gold ore by using sulfur-oil agglomeration with $(\text{NH}_4)_2\text{S}_2\text{O}_3$ as regulator in weak acidic pulp. <i>Minerals Engineering</i> , 2016, 93, 24-31.	1.8	3
213	Adsorption and leaching behaviors of chalcopyrite by two extreme thermophilic archaea. <i>Transactions of Nonferrous Metals Society of China</i> , 2018, 28, 2538-2544.	1.7	3
214	Corrosive electrochemistry of jamesonite by cyclic voltammetry. <i>Central South University</i> , 2004, 11, 286-290.	0.5	2
215	Hydro-chemical conversion of galena in FeCl_3 -KCl solution. <i>Transactions of Nonferrous Metals Society of China</i> , 2009, 19, 1331-1335.	1.7	2
216	Expression and function of two chaperone proteins, AtGroEL and AtGroES, from <i>Acidithiobacillus ferrooxidans</i> ATCC 23270. <i>World Journal of Microbiology and Biotechnology</i> , 2011, 27, 2981-2988.	1.7	2

#	ARTICLE	IF	CITATIONS
217	Mechanism of different particle sizes of quartz activated by metallic ion in butyl xanthate solution. Journal of Central South University, 2017, 24, 56-61.	1.2	2
218	Using Magnesium Chloride to Volatilize Impurity Metals from Waste Magnesiaâ€“Chromium Refractories. Jom, 2022, 74, 1350-1359.	0.9	2
219	Separation and Stabilization of Arsenic from Lead Slime by the Combination of Acid Leaching and Forming Scorodite. Minerals (Basel, Switzerland), 2021, 11, 1319.	0.8	1
220	Electrode process of diethyldithiocarbamate on surface of pyrrhotite. Central South University, 2005, 12, 416-419.	0.5	0
221	Effect of Solution Compositions on Optimum Redox Potential in Bioleaching of Chalcopyrite by Moderately Thermophilic Bacteria. , 0, , 1-3.		0
222	Removal of Iron Impurity from Zinc Calcine after Magnetization Roasting. , 2016, , 543-550.		0
223	Pyrolysis of Waste Steel Tailings and Iron Recovery. Minerals, Metals and Materials Series, 2020, , 963-973.	0.3	0