

Bin Xu

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	A Review of Thiosulfate Leaching of Gold: Focus on Thiosulfate Consumption and Gold Recovery from Pregnant Solution. <i>Metals</i> , 2017, 7, 222.	2.3	120
2	Improved thiosulfate leaching of a refractory gold concentrate calcine with additives. <i>Hydrometallurgy</i> , 2015, 152, 214-222.	4.3	73
3	Kinetic studies of gold leaching from a gold concentrate calcine by thiosulfate with cobalt-ammonia catalysis and gold recovery by resin adsorption from its pregnant solution. <i>Separation and Purification Technology</i> , 2019, 213, 368-377.	7.9	69
4	An eco-friendly and efficient process of low potential thiosulfate leaching-resin adsorption recovery for extracting gold from a roasted gold concentrate. <i>Journal of Cleaner Production</i> , 2019, 229, 387-398.	9.3	68
5	Eco-friendly and economical gold extraction by nickel catalyzed ammoniacal thiosulfate leaching-resin adsorption recovery. <i>Journal of Cleaner Production</i> , 2019, 233, 1475-1485.	9.3	66
6	Comprehensive recoveries of selenium, copper, gold, silver and lead from a copper anode slime with a clean and economical hydrometallurgical process. <i>Chemical Engineering Journal</i> , 2020, 393, 124762.	12.7	64
7	The development of an environmentally friendly leaching process of a high C, As and Sb bearing sulfide gold concentrate. <i>Minerals Engineering</i> , 2016, 89, 138-147.	4.3	53
8	Thiosulfate leaching of Au, Ag and Pd from a high Sn, Pb and Sb bearing decopperized anode slime. <i>Hydrometallurgy</i> , 2016, 164, 278-287.	4.3	51
9	Effect of common associated sulfide minerals on thiosulfate leaching of gold and the role of humic acid additive. <i>Hydrometallurgy</i> , 2017, 171, 44-52.	4.3	51
10	Recovery of Gold from Pregnant Thiosulfate Solutions by the Resin Adsorption Technique. <i>Metals</i> , 2017, 7, 555.	2.3	51
11	Stage leaching of a complex polymetallic sulfide concentrate: Focus on the extraction of Ag and Au. <i>Hydrometallurgy</i> , 2016, 159, 87-94.	4.3	47
12	Study on the oxygen pressure alkaline leaching of gold with generated thiosulfate from sulfur oxidation. <i>Hydrometallurgy</i> , 2018, 177, 178-186.	4.3	42
13	Thermodynamic analysis of ammoniacal thiosulphate leaching of gold catalysed by Co(III)/Co(II) using Eh-pH and speciation diagrams. <i>Hydrometallurgy</i> , 2018, 178, 240-249.	4.3	36
14	Fluidized roasting-stage leaching of a silver and gold bearing polymetallic sulfide concentrate. <i>Hydrometallurgy</i> , 2014, 147-148, 79-82.	4.3	35
15	Effect of galena on thiosulfate leaching of gold. <i>Hydrometallurgy</i> , 2017, 171, 157-164.	4.3	34
16	Improving gold recovery from a refractory ore via Na ₂ SO ₄ assisted roasting and alkaline Na ₂ S leaching. <i>Hydrometallurgy</i> , 2019, 185, 133-141.	4.3	33
17	A Review of the Comprehensive Recovery of Valuable Elements from Copper Smelting Open-Circuit Dust and Arsenic Treatment. <i>Jom</i> , 2020, 72, 3860-3875.	1.9	33
18	Thiosulphate leaching of gold in the Cu-NH ₃ -S ₂ O ₃ ²⁻ -H ₂ O system: An updated thermodynamic analysis using predominance area and species distribution diagrams. <i>Minerals Engineering</i> , 2020, 151, 106336.	4.3	33

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19	Study on oxygen pressure thiosulfate leaching of gold without the catalysis of copper and ammonia. <i>Hydrometallurgy</i> , 2019, 187, 71-80.	4.3	30
20	Adsorption of lignite humic acid onto magnetite particle surface. <i>Journal of Central South University</i> , 2012, 19, 1967-1972.	3.0	29
21	Effect of Pyrite on Thiosulfate Leaching of Gold and the Role of Ammonium Alcohol Polyvinyl Phosphate (AAPP). <i>Metals</i> , 2017, 7, 278.	2.3	28
22	Eco-friendly and efficient extraction of valuable elements from copper anode mud using an integrated pyro-hydrometallurgical process. <i>Resources, Conservation and Recycling</i> , 2021, 164, 105195.	10.8	27
23	A Thermodynamic Analysis on the Roasting of Pyrite. <i>Minerals (Basel, Switzerland)</i> , 2019, 9, 220.	2.0	26
24	Hexaamminecobalt(III) catalyzed thiosulfate leaching of gold from a concentrate calcine and gold recovery from its pregnant leach solution via resin adsorption. <i>Minerals Engineering</i> , 2021, 171, 107079.	4.3	25
25	Comprehensive recovery of valuable metals from copper smelting open-circuit dust with a clean and economical hydrometallurgical process. <i>Chemical Engineering Journal</i> , 2021, 424, 130411.	12.7	24
26	Effect of arsenopyrite on thiosulfate leaching of gold. <i>Transactions of Nonferrous Metals Society of China</i> , 2015, 25, 3454-3460.	4.2	23
27	A systematic and comparative study of copper, nickel and cobalt-ammonia catalyzed thiosulfate processes for eco-friendly and efficient gold extraction from an oxide gold concentrate. <i>Separation and Purification Technology</i> , 2021, 272, 118929.	7.9	22
28	Synthesis of nano-silica and biogenic iron (oxyhydr)oxides composites mediated by iron oxidizing bacteria to remove antimonite and antimonate from aqueous solution: Performance and mechanisms. <i>Journal of Hazardous Materials</i> , 2022, 422, 126821.	12.4	21
29	The catalytic effect of copper ion in the bioleaching of arsenopyrite by <i>Acidithiobacillus ferrooxidans</i> in 9K culture medium. <i>Journal of Cleaner Production</i> , 2020, 256, 120391.	9.3	20
30	Flotation performance, structure-activity relationship and adsorption mechanism of a newly-synthesized collector for copper sulfide minerals in Gacun polymetallic ore. <i>Applied Surface Science</i> , 2021, 551, 149420.	6.1	20
31	A Review of Recovery of Palladium from the Spent Automobile Catalysts. <i>Metals</i> , 2022, 12, 533.	2.3	20
32	Removal of heavy metal(loid)s from aqueous solution by biogenic FeS-kaolin composite: Behaviors and mechanisms. <i>Chemosphere</i> , 2022, 299, 134382.	8.2	19
33	Electrochemical behaviour of the dissolution and passivation of arsenopyrite in 9K culture medium. <i>Applied Surface Science</i> , 2020, 508, 145269.	6.1	16
34	Thiosulfate leaching of gold catalyzed by hexaamminecobalt(III): Electrochemical behavior and mechanisms. <i>Electrochimica Acta</i> , 2021, 399, 139393.	5.2	16
35	Formation Process of the Passivating Products from Arsenopyrite Bioleaching by <i>Acidithiobacillus ferrooxidans</i> in 9K Culture Medium. <i>Metals</i> , 2019, 9, 1320.	2.3	14
36	Selective Flotation of Elemental Sulfur from Pressure Acid Leaching Residue of Zinc Sulfide. <i>Minerals (Basel, Switzerland)</i> , 2021, 11, 89.	2.0	13

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37	Analysis and Prediction of the Thiourea Gold Leaching Process Using Grey Relational Analysis and Artificial Neural Networks. Minerals (Basel, Switzerland), 2020, 10, 811.	2.0	12
38	Sodium-modification of Ca-based bentonite via semidry process. Central South University, 2010, 17, 1201-1206.	0.5	11
39	Effect of dolomite on reduction swelling property of iron ore pellets. Journal of Central South University, 2013, 20, 2806-2810.	3.0	11
40	Consolidation mechanism of gold concentrates containing sulfur and carbon during oxygen-enriched air roasting. International Journal of Minerals, Metallurgy and Materials, 2017, 24, 386-392.	4.9	10
41	Bio-Oxidation of a Double Refractory Gold Ore and Investigation of Preg-Robbing of Gold from Thiourea Solution. Metals, 2020, 10, 1216.	2.3	10
42	Selective flotation of galena using a novel collector S-benzyl-N-ethoxycarbonyl thiocarbamate: An experimental and theoretical investigation. Journal of Molecular Liquids, 2021, 330, 115643.	4.9	10
43	Density functional theory study on electronic structure of tetrahedrite and effect of natural impurities on its flotation property. Minerals Engineering, 2021, 169, 106980.	4.3	10
44	Leaching behavior of zinc from crude zinc oxide dust in ammonia leaching. Journal of Central South University, 2021, 28, 2711-2723.	3.0	10
45	Simultaneous Removal of S and As from a Refractory Gold Ore in a Single Stage O ₂ -Enriched Roasting Process. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2019, 50, 1588-1596.	2.1	8
46	An investigation of oxygen pressure acid leaching of Gacun complex Cu-Pb bulk concentrate. Rare Metals, 2012, 31, 96-101.	7.1	7
47	Combustion Behavior of Coals in Rotary Kiln and Their Interaction on Co-combustion. Energy & Fuels, 2018, 32, 3833-3841.	5.1	7
48	Lower fuel consumption model and air-flow segregation feeding system for sintering. Central South University, 2011, 18, 1917-1923.	0.5	6
49	Intensification Behavior of Mercury Ions on Gold Cyanide Leaching. Metals, 2018, 8, 80.	2.3	6
50	Study on Intensification Behavior of Bismuth Ions on Gold Cyanide Leaching. Metals, 2019, 9, 362.	2.3	5
51	Production of M-type strontium hexaferrite magnetic powder with the high-pure magnetite concentrate via the ceramic process. Journal of Asian Ceramic Societies, 2022, 10, 292-305.	2.3	4
52	Flotation Performance, Structure-Activity Relationship and Adsorption Mechanism of O-Isopropyl-N-Ethyl Thionocarbamate Collector for Elemental Sulfur in a High-Sulfur Residue. Metals, 2021, 11, 727.	2.3	3
53	An Electrochemical Study of Gold Dissolution in Thiosulfate Solution with Cobalt "Ammonia Catalysis. Metals, 2022, 12, 317.	2.3	2
54	Oxygen pressure acid leaching of Gacun complex Cu concentrates. Journal of Central South University, 2012, 19, 71-76.	3.0	1

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55	A Comprehensive Recovery Process for Selective Separation and Enrichment of Copper, Zinc and Iron Minerals from a Polymetallic Ore and the Adsorption Mechanism of Collector Z-200. Minerals (Basel,) Tj ETQq1 1 0.284314 rgBT /Ove	2.8	0
56	Utilization of Iron-Bearing Dusts in Iron Ore Sintering by Composite Agglomeration Process. , 2015, , 499-506.		0
57	Cohering Behavior of Coal Ash with Pellet Scrap Powder and Relationship Between Coal Ash and Kiln Ringing. , 2015, , 131-138.		0
58	Study on Thiosulfate Leaching of Gold by Cycling Barren Solution. Minerals, Metals and Materials Series, 2019, , 173-184.	0.4	0
59	Demulsification Behavior of Alkali and Organic Acid in Zinc Extraction. Metals, 2021, 11, 1833.	2.3	0