

Xu Longhua

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Adsorption mechanism of new mixed anionic/cationic collectors in a spodumene-feldspar flotation system. <i>Chemical Engineering Science</i> , 2017, 164, 99-107.	1.9	140
2	Flotation and adsorption of mixed cationic/anionic collectors on muscovite mica. <i>Minerals Engineering</i> , 2013, 41, 41-45.	1.8	135
3	One-pot synthesis of nanoscale carbon dots-embedded metal-organic frameworks at room temperature for enhanced chemical sensing. <i>Journal of Materials Chemistry A</i> , 2016, 4, 15880-15887.	5.2	133
4	Effect of Pb ²⁺ ions on ilmenite flotation and adsorption of benzohydroxamic acid as a collector. <i>Applied Surface Science</i> , 2017, 425, 796-802.	3.1	104
5	Synergistic effect of mixed cationic/anionic collectors on flotation and adsorption of muscovite. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2016, 492, 181-189.	2.3	96
6	Surface crystal chemistry of spodumene with different size fractions and implications for flotation. <i>Separation and Purification Technology</i> , 2016, 169, 33-42.	3.9	93
7	A novel approach for flotation recovery of spodumene, mica and feldspar from a lithium pegmatite ore. <i>Journal of Cleaner Production</i> , 2018, 174, 625-633.	4.6	85
8	Selective flotation separation of spodumene from feldspar using new mixed anionic/cationic collectors. <i>Minerals Engineering</i> , 2016, 89, 84-92.	1.8	83
9	Selective flotation separation of ilmenite from titanite using mixed anionic/cationic collectors. <i>International Journal of Mineral Processing</i> , 2017, 166, 102-107.	2.6	82
10	Flotation and adsorption of a new mixed anionic/cationic collector in the spodumene-feldspar system. <i>Minerals Engineering</i> , 2018, 127, 42-47.	1.8	77
11	The flotation and adsorption of mixed collectors on oxide and silicate minerals. <i>Advances in Colloid and Interface Science</i> , 2017, 250, 1-14.	7.0	74
12	Adsorption of Pb(II)/benzohydroxamic acid collector complexes for ilmenite flotation. <i>Minerals Engineering</i> , 2018, 126, 16-23.	1.8	73
13	Effect of dissolved fluorite and barite species on the flotation and adsorption behavior of bastnaesite. <i>Separation and Purification Technology</i> , 2020, 237, 116387.	3.9	72
14	One-pot synthesis of carbon dots-embedded molecularly imprinted polymer for specific recognition of stigmatocystin in grains. <i>Biosensors and Bioelectronics</i> , 2016, 77, 950-956.	5.3	68
15	The effect of dissolved calcite species on the flotation of bastnaesite using sodium oleate. <i>Minerals Engineering</i> , 2020, 145, 106095.	1.8	68
16	Anisotropic adsorption of oleate on diasporite and kaolinite crystals: Implications for their flotation separation. <i>Applied Surface Science</i> , 2014, 321, 331-338.	3.1	67
17	Comparative studies of flotation and adsorption of Pb(II)/benzohydroxamic acid collector complexes on ilmenite and titanite. <i>Powder Technology</i> , 2019, 345, 35-42.	2.1	64
18	Effects of ultrasonic pre-treatment on the flotation of ilmenite and collector adsorption. <i>Minerals Engineering</i> , 2019, 137, 124-132.	1.8	63

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19	Influence of surface dissolution on sodium oleate adsorption on ilmenite and its gangue minerals by ultrasonic treatment. <i>Applied Surface Science</i> , 2020, 500, 144038.	3.1	63
20	A preliminary study of aeolian sand-cement-modified gasification slag-paste backfill: Fluidity, microstructure, and leaching risks. <i>Science of the Total Environment</i> , 2022, 830, 154766.	3.9	62
21	Flotation and adsorption of mixed collectors octanohydroxamic acid/sodium oleate on bastnaesite. <i>Journal of Alloys and Compounds</i> , 2020, 819, 152948.	2.8	61
22	Anisotropic surface physicochemical properties of spodumene and albite crystals: Implications for flotation separation. <i>Applied Surface Science</i> , 2017, 426, 1005-1022.	3.1	56
23	Use of $Al_2(SO_4)_3$ and acidified water glass as mixture depressants in flotation separation of fluorite from calcite and celestite. <i>Minerals Engineering</i> , 2019, 137, 160-170.	1.8	51
24	Selective flotation separation of bastnaesite from calcite using xanthan gum as a depressant. <i>Applied Surface Science</i> , 2020, 512, 145714.	3.1	51
25	Anisotropic surface chemistry properties and adsorption behavior of silicate mineral crystals. <i>Advances in Colloid and Interface Science</i> , 2018, 256, 340-351.	7.0	50
26	In Situ Adsorption of Mixed Anionic/Cationic Collectors in a Spodumene-Feldspar Flotation System: Implications for Collector Design. <i>Langmuir</i> , 2020, 36, 8086-8099.	1.6	49
27	Selective flotation separation of spodumene from feldspar using sodium alginate as an organic depressant. <i>Separation and Purification Technology</i> , 2020, 248, 117122.	3.9	49
28	An in situ ATR-FTIR study of mixed collectors BHA/DDA adsorption in ilmenite-titanaugite flotation system. <i>International Journal of Mining Science and Technology</i> , 2021, 31, 689-697.	4.6	49
29	A comparison study of adsorption of benzohydroxamic acid and amyl xanthate on smithsonite with dodecylamine as co-collector. <i>Applied Surface Science</i> , 2017, 426, 1141-1147.	3.1	48
30	Selective flotation of ilmenite from olivine using the acidified water glass as depressant. <i>International Journal of Mineral Processing</i> , 2016, 157, 73-79.	2.6	47
31	In situ adsorption of mixed collectors BHA/DDA in spodumene-feldspar flotation system. <i>Separation and Purification Technology</i> , 2020, 251, 117325.	3.9	42
32	Effect of a CA depressant on flotation separation of celestite from fluorite and calcite using SDS as a collector. <i>Minerals Engineering</i> , 2017, 111, 201-208.	1.8	41
33	A comparison study of the flotation and adsorption behaviors of diasporite and kaolinite with quaternary ammonium collectors. <i>Minerals Engineering</i> , 2014, 65, 124-129.	1.8	40
34	Effect of glycerol on the preparation of phosphogypsum-based $CaSO_4 \cdot 0.5H_2O$ whiskers. <i>Journal of Materials Science</i> , 2014, 49, 1957-1963.	1.7	38
35	Flotation separation of ilmenite from titanaugite using mixed collectors. <i>Separation Science and Technology</i> , 2016, 51, 1840-1846.	1.3	34
36	The effect of citric acid in the flotation separation of bastnaesite from fluorite and calcite using mixed collectors. <i>Applied Surface Science</i> , 2020, 529, 147166.	3.1	34

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37	New insights into the oleate flotation response of feldspar particles of different sizes: Anisotropic adsorption model. <i>Journal of Colloid and Interface Science</i> , 2017, 505, 500-508.	5.0	32
38	Selective flotation and adsorption of ilmenite from titanite by a novel method: Ultrasonic treatment. <i>Powder Technology</i> , 2020, 363, 38-47.	2.1	29
39	Microscale insights into the influence of grinding media on spodumene micro-flotation using mixed anionic/cationic collectors. <i>International Journal of Mining Science and Technology</i> , 2022, 32, 171-179.	4.6	29
40	Flotation and adsorption of quaternary ammonium salts collectors on kaolinite of different particle size. <i>International Journal of Mining Science and Technology</i> , 2013, 23, 249-253.	4.6	27
41	Evaluation of L-cysteine as an eco-friendly depressant for the selective separation of MoS ₂ from PbS by flotation. <i>Journal of Molecular Liquids</i> , 2019, 282, 177-186.	2.3	27
42	The selective flotation separation of celestite from fluorite and calcite using a novel depressant EDTA. <i>Powder Technology</i> , 2019, 352, 62-71.	2.1	26
43	Effects of microwave pre-treatment on the flotation of ilmenite and titanite. <i>Minerals Engineering</i> , 2020, 155, 106452.	1.8	23
44	Flotation and Adsorption of a New Polysaccharide Depressant on Pyrite and Talc in the Presence of a Pre-Adsorbed Xanthate Collector. <i>Minerals (Basel, Switzerland)</i> , 2017, 7, 40.	0.8	21
45	Influence of ultrasound pre-treatment on ilmenite surface chemical properties and collectors' adsorption behaviour. <i>Ultrasonics Sonochemistry</i> , 2019, 57, 98-107.	3.8	21
46	Adsorption behaviors and mechanisms of dodecyltrimethyl ammonium chloride and cetyltrimethyl ammonium chloride on illite flotation. <i>Powder Technology</i> , 2018, 331, 218-225.	2.1	20
47	Adsorption and depression mechanism of an eco-friendly depressant dextrin onto fluorite and calcite for the efficiency flotation separation. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022, 635, 127987.	2.3	18
48	Depression mechanism of pyrophyllite by a novel polysaccharide xanthan gum. <i>Minerals Engineering</i> , 2019, 132, 134-141.	1.8	16
49	A novel depressant for selective flotation separation of pyrite and pyrophyllite. <i>Applied Surface Science</i> , 2019, 487, 9-16.	3.1	15
50	Microstructure and mechanical properties of metakaolin-based geopolymer composites containing high volume of spodumene tailings. <i>Applied Clay Science</i> , 2022, 218, 106412.	2.6	15
51	The activation mechanism of metal ions on spodumene flotation from the perspective of in situ ATR-FTIR and ToF-SIMS. <i>Minerals Engineering</i> , 2022, 182, 107567.	1.8	15
52	Synergistic Adsorption and Flotation of New Mixed Cationic/Nonionic Collectors on Muscovite. <i>Minerals (Basel, Switzerland)</i> , 2017, 7, 74.	0.8	13
53	The Effect of Polystyrene on the Carrier Flotation of Fine Smithsonite. <i>Minerals (Basel, Switzerland)</i> , 2017, 7, 52.	0.8	12
54	Strengthened flotation of molybdenite using oleate with suitable co-collector. <i>Minerals Engineering</i> , 2018, 122, 99-105.	1.8	12

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55	Surface Interaction of Nanoscale Water Film with SDS from Computational Simulation and Film Thermodynamics. <i>Entropy</i> , 2017, 19, 620.	1.1	10
56	Effects of grinding media on the flotation behavior of spodumene in mixed anionic/cationic collectors system. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 627, 127213.	2.3	10
57	Effects of particle size and chain length on flotation of quaternary ammonium salts onto kaolinite. <i>Mineralogy and Petrology</i> , 2015, 109, 309-316.	0.4	9
58	New insight into adsorption of novel ternary mixed collector in ilmenite-titanaugite flotation system. <i>Minerals Engineering</i> , 2022, 176, 107319.	1.8	9
59	Anisotropic surface chemistry properties of salt-type and oxide mineral crystals. <i>Minerals Engineering</i> , 2020, 154, 106411.	1.8	8
60	Influence of aluminum-sodium silicate on olivine flotation with sodium oleate. <i>Minerals Engineering</i> , 2019, 143, 106008.	1.8	7
61	Optimization of Genetic Algorithm through Use of Back Propagation Neural Network in Forecasting Smooth Wall Blasting Parameters. <i>Mathematics</i> , 2022, 10, 1271.	1.1	7
62	Comparative Studies of Quaternary Ammonium Salts on the Aggregation and Dispersion Behavior of Kaolinite and Quartz. <i>Minerals (Basel, Switzerland)</i> , 2019, 9, 473.	0.8	6
63	Improved flotation of artificial galena using a new cationic mixture. <i>Minerals Engineering</i> , 2020, 148, 106206.	1.8	6
64	Revealing the Multi-Electron Reaction Mechanism of $\text{Na}_3\text{V}_2\text{O}_7(\text{PO}_4)_2\text{F}$ Towards Improved Lithium Storage. <i>ChemSusChem</i> , 2021, 14, 2984-2991.	3.6	6
65	New insights into the mixed anionic/cationic collector adsorption on ilmenite and titanaugite: An in situ ATR-FTIR/2D-COS study. <i>Minerals Engineering</i> , 2021, 169, 106946.	1.8	6
66	Surface chemistry considerations of gangue dissolved species in the bastnaesite flotation system. <i>Fundamental Research</i> , 2022, 2, 748-756.	1.6	6
67	Recycling spodumene flotation tailings in cement mortar: A synergy with metakaolin. <i>Minerals Engineering</i> , 2021, 172, 107165.	1.8	5
68	Quantitative Investigation of Roasting-magnetic Separation for Hematite Oolitic-ores: Mechanisms and Industrial Application. <i>Open Chemistry</i> , 2017, 15, 389-399.	1.0	4
69	Is spodumene flotation tailings suitable for the preparation of ceramics?. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022, 649, 129465.	2.3	4
70	Sintering behavior and mechanical properties of sintered ceramics based on spodumene tailings. <i>Journal of Central South University</i> , 2021, 28, 1637-1651.	1.2	3
71	Effects of spodumene flotation tailings as aggregates on mechanical properties of cement mortar. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022, 640, 128346.	2.3	2
72	Study of Microscopic Structure of Ceramic Materials Prepared from Nonmetallic Mineral Group Associated with Skarn-Type Gold Deposits. <i>Journal of Nanoscience and Nanotechnology</i> , 2021, 21, 584-590.	0.9	0