

Wenbao Liu

List of Publications by Year in descending order

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29
papers

977
citations

489802

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all docs

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times ranked

366
citing authors

#	ARTICLE	IF	CITATIONS
1	A cost-effective approach to recycle serpentine tailings: Destruction of stable layered structure and solvent displacement crystallization. <i>International Journal of Mining Science and Technology</i> , 2022, 32, 595-603.	4.6	14
2	Development and utilization of a novel hydrogen bonding enhanced collector in the separation of apatite from quartz. <i>Minerals Engineering</i> , 2022, 180, 107477.	1.8	10
3	Preparation of efficient and economical adsorbent for Cu ²⁺ and Pb ²⁺ adsorption via modifying the silicon-oxygen structure of leaching residues. <i>Surfaces and Interfaces</i> , 2022, 31, 102008.	1.5	0
4	Design and selection of flotation collectors for zinc oxide minerals based on bond valence model. <i>Minerals Engineering</i> , 2021, 160, 106681.	1.8	13
5	The evaluation of immobilization behavior and potential ecological risk of heavy metals in bio-char with different alkaline activation. <i>Environmental Science and Pollution Research</i> , 2021, 28, 21396-21410.	2.7	9
6	Investigation on matching relationship between surface characters and collector properties: Achieving flotation separation of zinc oxide minerals from quartz. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 617, 126392.	2.3	3
7	Fluorite enhanced magnesium recovery from serpentine tailings: Kinetics and reaction mechanisms. <i>Hydrometallurgy</i> , 2021, 201, 105571.	1.8	12
8	An ion-tolerance collector AESNa for effective flotation of magnesite from dolomite. <i>Minerals Engineering</i> , 2021, 170, 106991.	1.8	44
9	Understanding adsorption of amine surfactants on the solvated quartz (1 0 1) surface by a jointed Dreiding-ClayFF force field. <i>Applied Surface Science</i> , 2021, 566, 150737.	3.1	12
10	Potential application of an eco-friendly amine oxide collector in flotation separation of quartz from hematite. <i>Separation and Purification Technology</i> , 2021, 278, 119668.	3.9	16
11	Investigating the performance of a novel polyamine derivative for separation of quartz and hematite based on theoretical prediction and experiment. <i>Separation and Purification Technology</i> , 2020, 237, 116370.	3.9	33
12	Quantitative structure-activity relationship between the toxicity of amine surfactant and its molecular structure. <i>Science of the Total Environment</i> , 2020, 702, 134593.	3.9	22
13	Effect mechanism of the iso-propanol substituent on amine collectors in the flotation of quartz and magnesite. <i>Powder Technology</i> , 2020, 360, 1117-1125.	2.1	80
14	Flotation separation of bastnaesite from calcite using novel octylmalon dihydroxamic acid as collector. <i>Journal of Molecular Liquids</i> , 2020, 312, 113484.	2.3	26
15	Effect of Tween 80 on flotation separation of magnesite and dolomite using NaOL as the collector. <i>Journal of Molecular Liquids</i> , 2020, 315, 113712.	2.3	43
16	Design and flotation performance of a novel hydroxy polyamine surfactant based on hematite reverse flotation desilication system. <i>Journal of Molecular Liquids</i> , 2020, 301, 112428.	2.3	32
17	Investigating flotation behavior and mechanism of modified mineral oil in the separation of apatite ore. <i>Physicochemical Problems of Mineral Processing</i> , 2020, 56, 471-482.	0.2	5
18	Molecular-level insights into the adsorption of a hydroxy-containing tertiary amine collector on the surface of magnesite ore. <i>Powder Technology</i> , 2019, 355, 700-707.	2.1	36

#	ARTICLE	IF	CITATIONS
19	Novel hydroxy polyamine surfactant N-(2-hydroxyethyl)-N-dodecyl-ethanediamine: Its synthesis and flotation performance study to quartz. <i>Minerals Engineering</i> , 2019, 142, 105894.	1.8	69
20	Synthesis and utilization of a gemini surfactant as a collector for the flotation of hemimorphite from quartz. <i>Minerals Engineering</i> , 2019, 134, 394-401.	1.8	44
21	Effect of secondary amino on the adsorption of N-Dodecylethylenediamine on quartz surface: A molecular dynamics study. <i>Powder Technology</i> , 2019, 351, 46-53.	2.1	29
22	Novel insights into the adsorption mechanism of the isopropanol amine collector on magnesite ore: A combined experimental and theoretical computational study. <i>Powder Technology</i> , 2019, 343, 366-374.	2.1	32
23	Effect of copper ions on the flotation separation of chalcopyrite and molybdenite using sodium sulfide as a depressant. <i>Minerals Engineering</i> , 2018, 115, 44-52.	1.8	79
24	Enhancing the purity of magnesite ore powder using an ethanolamine-based collector: Insights from experiment and theory. <i>Journal of Molecular Liquids</i> , 2018, 268, 215-222.	2.3	39
25	Adsorption of bis(2-hydroxy-3-chloropropyl) dodecylamine on quartz surface and its implication on flotation. <i>Results in Physics</i> , 2018, 9, 1096-1101.	2.0	40
26	Synthesis of N,N-Bis(2-hydroxypropyl)laurylamine and its flotation on quartz. <i>Chemical Engineering Journal</i> , 2017, 309, 63-69.	6.6	91
27	Effect of butanol on flotation separation of quartz from hematite with N-dodecyl ethylenediamine. <i>International Journal of Mining Science and Technology</i> , 2016, 26, 1059-1063.	4.6	17
28	Utilization of novel surfactant N-dodecyl-isopropanolamine as collector for efficient separation of quartz from hematite. <i>Separation and Purification Technology</i> , 2016, 162, 188-194.	3.9	66
29	Flotation separation of copper and molybdenum sulfides using chitosan as a selective depressant. <i>Minerals Engineering</i> , 2015, 83, 217-222.	1.8	60