Wenbao Liu

List of Publications by Year
in descending order

29 papers	977 citations	430874 18 h-index	501196 28 g-index
30 all docs	30 docs citations	30 times ranked	333 citing authors

#	Article	IF	Citations
1	Synthesis of N,N-Bis(2-hydroxypropyl)laurylamine and its flotation on quartz. Chemical Engineering Journal, 2017, 309, 63-69.	12.7	91
2	Effect mechanism of the iso-propanol substituent on amine collectors in the flotation of quartz and magnesite. Powder Technology, 2020, 360, 1117-1125.	4.2	80
3	Effect of copper ions on the flotation separation of chalcopyrite and molybdenite using sodium sulfide as a depressant. Minerals Engineering, 2018, 115, 44-52.	4.3	79
4	Novel hydroxy polyamine surfactant N-(2-hydroxyethyl)-N-dodecyl-ethanediamine: Its synthesis and flotation performance study to quartz. Minerals Engineering, 2019, 142, 105894.	4.3	69
5	Utilization of novel surfactant N-dodecyl-isopropanolamine as collector for efficient separation of quartz from hematite. Separation and Purification Technology, 2016, 162, 188-194.	7.9	66
6	Flotation separation of copperâ€“molybdenum sulfides using chitosan as a selective depressant. Minerals Engineering, 2015, 83, 217-222.	4.3	60
7	Synthesis and utilization of a gemini surfactant as a collector for the flotation of hemimorphite from quartz. Minerals Engineering, 2019, 134, 394-401.	4.3	44
8	An ion-tolerance collector AESNa for effective flotation of magnesite from dolomite. Minerals Engineering, 2021, 170, 106991.	4.3	44
9	Effect of Tween 80 on flotation separation of magnesite and dolomite using NaOL as the collector. Journal of Molecular Liquids, 2020, 315, 113712.	4.9	43
10	Adsorption of bis(2-hydroxy-3-chloropropyl) dodecylamine on quartz surface and its implication on flotation. Results in Physics, 2018, 9, 1096-1101.	4.1	40
11	Enhancing the purity of magnesite ore powder using an ethanolamine-based collector: Insights from experiment and theory. Journal of Molecular Liquids, 2018, 268, 215-222.	4.9	39
12	Molecular-level insights into the adsorption of a hydroxy-containing tertiary amine collector on the surface of magnesite ore. Powder Technology, 2019, 355, 700-707.	4.2	36
13	Investigating the performance of a novel polyamine derivative for separation of quartz and hematite based on theoretical prediction and experiment. Separation and Purification Technology, 2020, 237, 116370.	7.9	33
14	Novel insights into the adsorption mechanism of the isopropanol amine collector on magnesite ore: A combined experimental and theoretical computational study. Powder Technology, 2019, 343, 366-374.	4.2	32
15	Design and flotation performance of a novel hydroxy polyamine surfactant based on hematite reverse flotation desilication system. Journal of Molecular Liquids, 2020, 301, 112428.	4.9	32
16	Effect of secondary amino on the adsorption of N-Dodecylethylenediamine on quartz surface: A molecular dynamics study. Powder Technology, 2019, 351, 46-53.	4.2	29
17	Flotation separation of bastnaesite from calcite using novel octylmalon dihydroxamic acid as collector. Journal of Molecular Liquids, 2020, 312, 113484.	4.9	26
18	Quantitative structure-activity relationship between the toxicity of amine surfactant and its molecular structure. Science of the Total Environment, 2020, 702, 134593.	8.0	22

#	Article	IF	Citations
19	Effect of butanol on flotation separation of quartz from hematite with N-dodecyl ethylenediamine. International Journal of Mining Science and Technology, 2016, 26, 1059-1063.	10.3	17
20	Potential application of an eco-friendly amine oxide collector in flotation separation of quartz from hematite. Separation and Purification Technology, 2021, 278, 119668.	7.9	16
21	A cost-effective approach to recycle serpentine tailings: Destruction of stable layered structure and solvent displacement crystallization. International Journal of Mining Science and Technology, 2022, 32, 595-603.	10.3	14
22	Design and selection of flotation collectors for zinc oxide minerals based on bond valence model. Minerals Engineering, 2021, 160, 106681.	4.3	13
23	Fluorite enhanced magnesium recovery from serpentine tailings: Kinetics and reaction mechanisms. Hydrometallurgy, 2021, 201, 105571.	4.3	12
24	Understanding adsorption of amine surfactants on the solvated quartz (1 0 1) surface by a jointed Dreiding-ClayFF force field. Applied Surface Science, 2021, 566, 150737.	6.1	12
25	Development and utilization of a novel hydrogen bonding enhanced collector in the separation of apatite from quartz. Minerals Engineering, 2022, 180, 107477.	4.3	10
26	The evaluation of immobilization behavior and potential ecological risk of heavy metals in bio-char with different alkaline activation. Environmental Science and Pollution Research, 2021, 28, 21396-21410.	5.3	9
27	Investigating flotation behavior and mechanism of modified mineral oil in the separation of apatite ore. Physicochemical Problems of Mineral Processing, 2020, 56, 471-482.	0.4	5
28	Investigation on matching relationship between surface characters and collector properties: Achieving flotation separation of zinc oxide minerals from quartz. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 617, 126392.	4.7	3
29	Preparation of efficient and economical adsorbent for Cu2+ and Pb2+ adsorption via modifying the siliconâ€“oxygen structure of leaching residues. Surfaces and Interfaces, 2022, 31, 102008.	3.0	0