

Wengang Liu

List of Publications by Year in descending order

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Version: 2024-02-01

52
papers

2,392
citations

159585

30
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48
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all docs

52
docs citations

52
times ranked

1486
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.	10.3	14
2	Enhanced detection of ppb-level NO ₂ by uniform Pt-doped ZnSnO ₃ nanocubes. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2022, 29, 1295-1303.	4.9	5
3	High response and moisture resistance hydrogen sensors based on sandwich-structured PtSnx-rGO-SnO ₂ nanocomposites. <i>Sensors and Actuators B: Chemical</i> , 2022, 368, 132146.	7.8	9
4	Effect of TIPA/TEA combined grinding aid on the behavior of quartz flotation in DDA system. <i>Powder Technology</i> , 2022, 406, 117570.	4.2	10
5	Investigation on flotation separation of bastnaesite from calcite and barite with a novel surfactant: Octylamino-bis-(butanohydroxamic acid). <i>Separation and Purification Technology</i> , 2021, 256, 117792.	7.9	35
6	Effect of Ca(II) on anionic/cationic flotation of magnesite ore. <i>Minerals Engineering</i> , 2021, 163, 106778.	4.3	18
7	Fluorite enhanced magnesium recovery from serpentine tailings: Kinetics and reaction mechanisms. <i>Hydrometallurgy</i> , 2021, 201, 105571.	4.3	12
8	Study on quantitative structure-biodegradability relationships of amine collectors by GFA-ANN method. <i>Journal of Hazardous Materials</i> , 2021, 415, 125628.	12.4	6
9	An ion-tolerance collector AESNa for effective flotation of magnesite from dolomite. <i>Minerals Engineering</i> , 2021, 170, 106991.	4.3	44
10	Flotation performance and selective adsorption mechanism of novel hydroxamic acid on the separation of fluorite from barite. <i>Minerals Engineering</i> , 2021, 171, 107101.	4.3	14
11	Inserting EO groups to improve the performance of fatty acid collectors: Flotation and adsorption study performed with calcite, dolomite, and quartz. <i>Separation and Purification Technology</i> , 2021, 272, 118952.	7.9	21
12	Effect of noble metal elements on ethanol sensing properties of ZnSnO ₃ nanocubes. <i>Journal of Alloys and Compounds</i> , 2021, 887, 161409.	5.5	21
13	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.	7.9	33
14	Quantitative structure-activity relationship between the toxicity of amine surfactant and its molecular structure. <i>Science of the Total Environment</i> , 2020, 702, 134593.	8.0	22
15	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.	4.2	80
16	Flotation separation of bastnaesite from calcite using novel octylmalon dihydroxamic acid as collector. <i>Journal of Molecular Liquids</i> , 2020, 312, 113484.	4.9	26
17	Effects of monohydric alcohols of varying chain lengths and isomeric structures on magnesite and dolomite flotation by dodecylamine. <i>Powder Technology</i> , 2020, 374, 233-240.	4.2	17
18	Preparation of a novel bis hydroxamic collector and its impact on bastnaesite flotation. <i>Minerals Engineering</i> , 2020, 156, 106496.	4.3	29

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19	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.	4.9	43
20	Fabrication, characterization and n-propanol sensing properties of perovskite-type ZnSnO ₃ nanospheres based gas sensor. <i>Applied Surface Science</i> , 2020, 509, 145335.	6.1	97
21	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.	4.9	32
22	Design and application of highly responsive and selective rGO-SnO ₂ nanocomposites for NO ₂ monitoring. <i>Materials Characterization</i> , 2020, 163, 110284.	4.4	34
23	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.	4.2	36
24	In-situ growth of mesoporous In ₂ O ₃ nanorod arrays on a porous ceramic substrate for ppb-level NO ₂ detection at room temperature. <i>Applied Surface Science</i> , 2019, 498, 143873.	6.1	69
25	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.	4.3	69
26	Complex-surfactant-assisted hydrothermal synthesis of one-dimensional ZnO nanorods for high-performance ethanol gas sensor. <i>Sensors and Actuators B: Chemical</i> , 2019, 286, 501-511.	7.8	179
27	Study on the Degradation of Sodium Diethyldithiocarbamate (DDTC) in Artificially Prepared Beneficiation Wastewater with Sodium Hypochlorite. <i>Journal of Chemistry</i> , 2019, 2019, 1-8.	1.9	3
28	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.	4.3	44
29	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.	4.2	29
30	Stability of diethyl dithiocarbamate chelates with Cu(II), Zn(II) and Mn(II). <i>Journal of Molecular Structure</i> , 2019, 1184, 375-381.	3.6	22
31	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.	4.2	32
32	Low-temperature H ₂ S sensing performance of Cu-doped ZnFe ₂ O ₄ nanoparticles with spinel structure. <i>Applied Surface Science</i> , 2019, 470, 581-590.	6.1	37
33	The chain length and isomeric effects of monohydric alcohols on the flotation of magnesite and dolomite by sodium oleate. <i>Journal of Molecular Liquids</i> , 2019, 276, 471-479.	4.9	21
34	NO ₂ sensing properties of one-pot-synthesized ZnO nanowires with Pd functionalization. <i>Sensors and Actuators B: Chemical</i> , 2019, 280, 151-161.	7.8	151
35	Design of Au@WO ₃ core-shell structured nanospheres for ppb-level NO ₂ sensing. <i>Sensors and Actuators B: Chemical</i> , 2019, 282, 917-926.	7.8	181
36	The adsorption mechanism of calcium ion on quartz (101) surface: A DFT study. <i>Powder Technology</i> , 2018, 329, 158-166.	4.2	73

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37	Intensify dodecylamine adsorption on magnesite and dolomite surfaces by monohydric alcohols. <i>Applied Surface Science</i> , 2018, 444, 729-738.	6.1	33
38	Highly selective NO ₂ sensor based on p-type nanocrystalline NiO thin films prepared by sol-gel dip coating. <i>Ceramics International</i> , 2018, 44, 753-759.	4.8	89
39	Effects of monohydric alcohols on the flotation of magnesite and dolomite by sodium oleate. <i>Journal of Molecular Liquids</i> , 2018, 249, 1060-1067.	4.9	42
40	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.	4.3	79
41	Low-temperature and highly enhanced NO ₂ sensing performance of Au-functionalized WO ₃ microspheres with a hierarchical nanostructure. <i>Applied Surface Science</i> , 2018, 434, 922-931.	6.1	101
42	Sodium carbonate effects on the flotation separation of smithsonite from quartz using N,N-dilauroyl ethylenediamine dipropionate as a collector. <i>Minerals Engineering</i> , 2018, 126, 1-8.	4.3	25
43	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.	4.9	39
44	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.	4.1	40
45	Synthesis of N,N-Bis(2-hydroxypropyl)laurylamine and its flotation on quartz. <i>Chemical Engineering Journal</i> , 2017, 309, 63-69.	12.7	91
46	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.	10.3	17
47	Nitrogen dioxide sensing using tungsten oxide microspheres with hierarchical nanorod-assembled architectures by a complexing surfactant-mediated hydrothermal route. <i>Journal of Materials Chemistry A</i> , 2016, 4, 1345-1352.	10.3	91
48	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.	7.9	66
49	Complexing surfactants-mediated hydrothermal synthesis of WO ₃ microspheres for gas sensing applications. <i>Materials Letters</i> , 2016, 163, 150-153.	2.6	36
50	A low-temperature n-propanol gas sensor based on TeO ₂ nanowires as the sensing layer. <i>RSC Advances</i> , 2015, 5, 29126-29130.	3.6	31
51	Adsorption mechanism of N-laurel-1,3-diaminopropane in a hematite-quartz flotation system. <i>Mining Science and Technology</i> , 2011, 21, 213-215.	0.3	5
52	A new collector used for flotation of oxide minerals. <i>Transactions of Nonferrous Metals Society of China</i> , 2009, 19, 1326-1330.	4.2	39