

Liguang Wang

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

65
papers

1,075
citations

21
h-index

30
g-index

65
ext. papers

1,239
ext. citations

5
avg, IF

5.08
L-index

#	Paper	IF	Citations
65	Effects of surface forces and film elasticity on foam stability. <i>International Journal of Mineral Processing</i> , 2008 , 85, 101-110		83
64	Hydrophobic forces in the foam films stabilized by sodium dodecyl sulfate: effect of electrolyte. <i>Langmuir</i> , 2004 , 20, 11457-64	4	67
63	Flotation of marine microalgae: effect of algal hydrophobicity. <i>Bioresource Technology</i> , 2012 , 121, 471-411		58
62	Role of hydrophobic force in the thinning of foam films containing a nonionic surfactant. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2006 , 282-283, 84-91	5.1	49
61	Effects of ionic surfactants on methane hydrate formation kinetics in a static system. <i>Advanced Powder Technology</i> , 2014 , 25, 1227-1233	4.6	43
60	Effective harvesting of low surface-hydrophobicity microalgae by froth flotation. <i>Bioresource Technology</i> , 2014 , 159, 437-41	11	41
59	Hydrophobized particles can accelerate nucleation of clathrate hydrates. <i>Fuel</i> , 2015 , 140, 440-445	7.1	39
58	Hydrophobic forces in thin aqueous films and their role in film thinning. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2005 , 263, 267-274	5.1	38
57	Dissolution of starch and its role in the flotation separation of quartz from hematite. <i>Powder Technology</i> , 2017 , 320, 346-357	5.2	37
56	Heterocoagulation of alumina and quartz studied by zeta potential distribution and particle size distribution measurements. <i>Powder Technology</i> , 2017 , 309, 1-12	5.2	36
55	Phase Equilibria and Dissociation Enthalpies of Hydrogen Semi-Clathrate Hydrate with Tetrabutyl Ammonium Nitrate. <i>Journal of Chemical & Engineering Data</i> , 2012 , 57, 603-609	2.8	30
54	Anomalous thickness variation of the foam films stabilized by weak non-ionic surfactants. <i>Journal of Colloid and Interface Science</i> , 2009 , 337, 538-47	9.3	29
53	Structural and functional insights into starches as depressant for hematite flotation. <i>Minerals Engineering</i> , 2018 , 124, 149-157	4.9	28
52	Raman Spectroscopic Studies of Clathrate Hydrate Formation in the Presence of Hydrophobized Particles. <i>Journal of Physical Chemistry A</i> , 2016 , 120, 417-24	2.8	27
51	Stability of foams and froths in the presence of ionic and non-ionic surfactants. <i>Minerals Engineering</i> , 2006 , 19, 539-547	4.9	25
50	Equilibrium Conditions for Semiclathrate Hydrates Formed with CO ₂ , N ₂ , or CH ₄ in the Presence of Tri-n-butylphosphine Oxide. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 1234-1241	3.9	24
49	Flotation separation of marine microalgae from aqueous medium. <i>Separation and Purification Technology</i> , 2015 , 156, 636-641	8.3	23

48	Atomic Force Microscopy Study of Forces between a Silica Sphere and an Oxidized Silicon Wafer in Aqueous Solutions of NaCl, KCl, and CsCl at Concentrations up to Saturation. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 2113-2120	3.8	22
47	Effect of pH and NaCl concentration on the stability of surfactant-free foam films. <i>Langmuir</i> , 2009 , 25, 294-7	4	22
46	Improving the performance of coal flotation using oscillatory air supply. <i>Fuel Processing Technology</i> , 2017 , 165, 131-137	7.2	22
45	Correlation of air recovery with froth stability and separation efficiency in coal flotation. <i>Minerals Engineering</i> , 2013 , 41, 25-30	4.9	21
44	Measurement of froth zone and collection zone recoveries with various starch depressants in anionic flotation of hematite and quartz. <i>Minerals Engineering</i> , 2019 , 138, 31-42	4.9	20
43	Phase Equilibria and Methane Enrichment of Clathrate Hydrates of Mine Ventilation Air + Tetrabutylphosphonium Bromide. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 8182-8187	3.9	20
42	The effects of acid hydrolysis on protein biosurfactant molecular, interfacial, and foam properties: pH responsive protein hydrolysates. <i>Soft Matter</i> , 2012 , 8, 5131	3.6	19
41	Impact of interface approach velocity on bubble coalescence. <i>Minerals Engineering</i> , 2012 , 26, 50-56	4.9	18
40	Drainage and rupture of thin foam films in the presence of ionic and non-ionic surfactants. <i>International Journal of Mineral Processing</i> , 2012 , 102-103, 58-68		17
39	Surface dissolution of spodumene and its role in the flotation concentration of a spodumene ore. <i>Minerals Engineering</i> , 2018 , 125, 120-125	4.9	14
38	Experimental studies and modeling of surface bubble behaviour in froth flotation. <i>Chemical Engineering Research and Design</i> , 2015 , 101, 98-106	5.5	13
37	A comparative study of methyl cyclohexanemethanol and methyl isobutyl carbinol as frother for coal flotation. <i>International Journal of Mineral Processing</i> , 2016 , 155, 32-44		13
36	Effect of Carbon Chain Length of Organic Salts on the Thermodynamic Stability of Methane Hydrate. <i>Journal of Chemical & Engineering Data</i> , 2016 , 61, 1952-1960	2.8	13
35	Cooperative effect of surfactant addition and gas-inducing agitation on methane hydrate formation rate. <i>Fuel</i> , 2018 , 230, 134-137	7.1	13
34	Semiclathrate hydrates of methane + tetraalkylammonium hydroxides. <i>Fuel</i> , 2017 , 203, 618-626	7.1	12
33	Thermodynamic stability conditions, methane enrichment, and gas uptake of ionic clathrate hydrates of mine ventilation air. <i>Chemical Engineering Journal</i> , 2015 , 273, 75-81	14.7	12
32	Improved froth zone and collection zone recoveries of fine mineral particles in a flotation column with oscillatory air supply. <i>Separation and Purification Technology</i> , 2018 , 193, 311-316	8.3	12
31	A response to the comment on "hydrophobic forces in the foam films stabilized by sodium dodecyl sulfate: effect of electrolyte". <i>Langmuir</i> , 2008 , 24, 5194-6	4	12

30	Improving column flotation of oxidized or ultrafine coal particles by changing the flow pattern of air supply. <i>Minerals Engineering</i> , 2018 , 124, 98-102	4.9	12
29	Modeling of bubble coalescence in saline water in the presence of flotation frothers. <i>International Journal of Mineral Processing</i> , 2015 , 134, 41-49		11
28	Collecting Agent Mineral Interactions in the Reverse Flotation of Iron Ore: A Brief Review. <i>Minerals (Basel, Switzerland)</i> , 2020 , 10, 681	2.4	11
27	Phase equilibrium measurements for clathrate hydrates of flue gas (CO ₂ +N ₂ +O ₂) in the presence of tetra-n-butyl ammonium bromide or tri-n-butylphosphine oxide. <i>Journal of Chemical Thermodynamics</i> , 2015 , 88, 96-100	2.9	7
26	Determination of the concentration of MIBC in coking coal flotation. <i>Minerals Engineering</i> , 2018 , 127, 74-80	4.9	7
25	Improvement of flotation recovery using oscillatory air supply. <i>Minerals Engineering</i> , 2019 , 131, 321-324	4.9	7
24	Coal beneficiation technology to reduce hazardous heavy metals in fly ash. <i>Journal of Hazardous Materials</i> , 2021 , 416, 125853	12.8	7
23	Use of oscillatory air supply for improving the throughput and carrying capacity of column flotation. <i>Powder Technology</i> , 2019 , 353, 41-47	5.2	6
22	Effect of polyaluminum chloride on coal flotation performance with different reagent addition regimes. <i>Powder Technology</i> , 2019 , 349, 84-91	5.2	5
21	The potential of acoustic sound to improve flotation kinetics. <i>Minerals Engineering</i> , 2020 , 154, 106413	4.9	4
20	Dynamic Stabilization of Foam Films with Acoustic Sound. <i>Langmuir</i> , 2020 , 36, 2966-2973	4	4
19	Modelling solid-liquid separation and particle size classification in decanter centrifuges. <i>Separation and Purification Technology</i> , 2021 , 263, 118408	8.3	3
18	Improvement of coal flotation by exposure of the froth to acoustic sound. <i>Minerals Engineering</i> , 2021 , 168, 106920	4.9	3
17	Quantitative frother analysis on coal mine process water with a benchtop NMR spectrometer. <i>Journal of Magnetic Resonance</i> , 2021 , 331, 107054	3	3
16	A sustainable and green process based on froth flotation for effective recovery of combustibles from coking coal fines. <i>International Journal of Coal Preparation and Utilization</i> , 2020 , 1-8	1.2	2
15	Classification of gas dispersion states via deep learning based on images obtained from a bubble sampler. <i>Chemical Engineering Journal Advances</i> , 2021 , 5, 100064	3.6	2
14	Flotation separation of limonite from calcite with sodium oleate: effects of calcite dissolution and addition of sodium pyrophosphate. <i>Mineral Processing and Extractive Metallurgy: Transactions of the Institute of Mining and Metallurgy</i> , 2019 , 128, 207-212	0.8	2
13	Flotation separation of limonite from quartz with sodium oleate: effects of limonite dissolution and addition of sodium hexametaphosphate. <i>Mineral Processing and Extractive Metallurgy: Transactions of the Institute of Mining and Metallurgy</i> , 2018 , 1-7	0.8	2

12	Hydrophobic Forces in Foam Films 2011 , 161-186		1
11	Effects of Film Elasticity and Surface Forces on the Stability of Foams and Lamellae Films in the Presence of Non-ionic Surfactants. <i>AIP Conference Proceedings</i> , 2008 ,	0	1
10	Industrial demonstration of a sensor for monitoring coal flotation. <i>Minerals Engineering</i> , 2021 , 167, 106884	4.9	1
9	Bubble Size in a Flotation Column with Oscillatory Air Supply in the Presence of Frothers. <i>Mineral Processing and Extractive Metallurgy Review</i> ,1-9	3.1	1
8	Mechanical Flotation of Mineral Particles with an Underwater Speaker. <i>Mineral Processing and Extractive Metallurgy Review</i> ,1-5	3.1	1
7	A Convolutional Neural Network for Classification of Froth Mobility in an Industrial Flotation Cell. <i>Mineral Processing and Extractive Metallurgy Review</i> ,1-9	3.1	0
6	Hydrophobic Forces in Foam Films 2014 , 161-186		
5	Modeling the breakage stage in spheronization of cylindrical paste extrudates. <i>AIChE Journal</i> , 2021 , 67, e17247	3.6	
4	Measurement of solids concentration in aqueous slurries for monitoring the solids recovery in solid bowl centrifugation. <i>Minerals Engineering</i> , 2021 , 170, 107068	4.9	
3	Frother distribution in an industrial coal flotation circuit. <i>International Journal of Coal Preparation and Utilization</i> ,1-14	1.2	
2	Frother concentration measurement with a benchtop NMR spectrometer. <i>Minerals Engineering</i> , 2022 , 180, 107512	4.9	
1	Improvement of dynamic foam stability with low-frequency acoustic sound. <i>Minerals Engineering</i> , 2022 , 184, 107654	4.9	