Liguang Wang

List of Publications by Year in Descending Order

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	Frother concentration measurement with a benchtop NMR spectrometer. *Minerals Engineering*, **2022**, 180, 107512	4.9	
64	Improvement of dynamic foam stability with low-frequency acoustic sound. *Minerals Engineering*, **2022**, 184, 107654	4.9	
63	Modeling the breakage stage in spheronization of cylindrical paste extrudates. *AICHE Journal*, **2021**, 67, e17247	3.6	
62	Classification of gas dispersion states via deep learning based on images obtained from a bubble sampler. *Chemical Engineering Journal Advances*, **2021**, 5, 100064	3.6	2
61	Modelling solid-liquid separation and particle size classification in decanter centrifuges. *Separation and Purification Technology*, **2021**, 263, 118408	8.3	3
60	Industrial demonstration of a sensor for monitoring coal flotation. *Minerals Engineering*, **2021**, 167, 106884	4.9	1
59	Improvement of coal flotation by exposure of the froth to acoustic sound. *Minerals Engineering*, **2021**, 168, 106920	4.9	3
58	Measurement of solids concentration in aqueous slurries for monitoring the solids recovery in solid bowl centrifugation. *Minerals Engineering*, **2021**, 170, 107068	4.9	
57	Coal beneficiation technology to reduce hazardous heavy metals in fly ash. *Journal of Hazardous Materials*, **2021**, 416, 125853	12.8	7
56	Quantitative frother analysis on coal mine process water with a benchtop NMR spectrometer. *Journal of Magnetic Resonance*, **2021**, 331, 107054	3	3
55	The potential of acoustic sound to improve flotation kinetics. *Minerals Engineering*, **2020**, 154, 106413	4.9	4
54	Dynamic Stabilization of Foam Films with Acoustic Sound. *Langmuir*, **2020**, 36, 2966-2973	4	4
53	A sustainable and green process based on froth flotation for effective recovery of combustibles from coking coal fines. *International Journal of Coal Preparation and Utilization*, **2020**, 1-8	1.2	2
52	Collecting Agent–Mineral Interactions in the Reverse Flotation of Iron Ore: A Brief Review. *Minerals (Basel, Switzerland)*, **2020**, 10, 681	2.4	11
51	Measurement of froth zone and collection zone recoveries with various starch depressants in anionic flotation of hematite and quartz. *Minerals Engineering*, **2019**, 138, 31-42	4.9	20
50	Effect of polyaluminum chloride on coal flotation performance with different reagent addition regimes. *Powder Technology*, **2019**, 349, 84-91	5.2	5
49	Use of oscillatory air supply for improving the throughput and carrying capacity of column flotation. *Powder Technology*, **2019**, 353, 41-47	5.2	6

48	Improvement of flotation recovery using oscillatory air supply. *Minerals Engineering*, **2019**, 131, 321-324	4.9	7
47	Flotation separation of limonite from calcite with sodium oleate: effects of calcite dissolution and addition of sodium pyrophosphate. *Mineral Processing and Extractive Metallurgy: Transactions of the Institute of Mining and Metallurgy*, **2019**, 128, 207-212	0.8	2
46	Improved froth zone and collection zone recoveries of fine mineral particles in a flotation column with oscillatory air supply. *Separation and Purification Technology*, **2018**, 193, 311-316	8.3	12
45	Determination of the concentration of MIBC in coking coal flotation. *Minerals Engineering*, **2018**, 127, 74-80	4.9	7
44	Surface dissolution of spodumene and its role in the flotation concentration of a spodumene ore. *Minerals Engineering*, **2018**, 125, 120-125	4.9	14
43	Structural and functional insights into starches as depressant for hematite flotation. *Minerals Engineering*, **2018**, 124, 149-157	4.9	28
42	Flotation separation of limonite from quartz with sodium oleate: effects of limonite dissolution and addition of sodium hexametaphosphate. *Mineral Processing and Extractive Metallurgy: Transactions of the Institute of Mining and Metallurgy*, **2018**, 1-7	0.8	2
41	Improving column flotation of oxidized or ultrafine coal particles by changing the flow pattern of air supply. *Minerals Engineering*, **2018**, 124, 98-102	4.9	12
40	Cooperative effect of surfactant addition and gas-inducing agitation on methane hydrate formation rate. *Fuel*, **2018**, 230, 134-137	7.1	13
39	Semiclathrate hydrates of methane + tetraalkylammonium hydroxides. *Fuel*, **2017**, 203, 618-626	7.1	12
38	Heterocoagulation of alumina and quartz studied by zeta potential distribution and particle size distribution measurements. *Powder Technology*, **2017**, 309, 1-12	5.2	36
37	Dissolution of starch and its role in the flotation separation of quartz from hematite. *Powder Technology*, **2017**, 320, 346-357	5.2	37
36	Improving the performance of coal flotation using oscillatory air supply. *Fuel Processing Technology*, **2017**, 165, 131-137	7.2	22
35	A comparative study of methyl cyclohexanemethanol and methyl isobutyl carbinol as frother for coal flotation. *International Journal of Mineral Processing*, **2016**, 155, 32-44		13
34	Effect of Carbon Chain Length of Organic Salts on the Thermodynamic Stability of Methane Hydrate. *Journal of Chemical & Engineering Data*, **2016**, 61, 1952-1960	2.8	13
33	Raman Spectroscopic Studies of Clathrate Hydrate Formation in the Presence of Hydrophobized Particles. *Journal of Physical Chemistry A*, **2016**, 120, 417-24	2.8	27
32	Experimental studies and modeling of surface bubble behaviour in froth flotation. *Chemical Engineering Research and Design*, **2015**, 101, 98-106	5.5	13
31	Phase equilibrium measurements for clathrate hydrates of flue gas (CO2+N2+O2) in the presence of tetra-n-butyl ammonium bromide or tri-n-butylphosphine oxide. *Journal of Chemical Thermodynamics*, **2015**, 88, 96-100	2.9	7

30	Thermodynamic stability conditions, methane enrichment, and gas uptake of ionic clathrate hydrates of mine ventilation air. *Chemical Engineering Journal*, **2015**, 273, 75-81	14.7	12
29	Modeling of bubble coalescence in saline water in the presence of flotation frothers. *International Journal of Mineral Processing*, **2015**, 134, 41-49		11
28	Hydrophobized particles can accelerate nucleation of clathrate hydrates. *Fuel*, **2015**, 140, 440-445	7.1	39
27	Flotation separation of marine microalgae from aqueous medium. *Separation and Purification Technology*, **2015**, 156, 636-641	8.3	23
26	Equilibrium Conditions for Semiclathrate Hydrates Formed with CO2, N2, or CH4 in the Presence of Tri-n-butylphosphine Oxide. *Industrial & Engineering Chemistry Research*, **2014**, 53, 1234-1241	3.9	24
25	Phase Equilibria and Methane Enrichment of Clathrate Hydrates of Mine Ventilation Air + Tetrabutylphosphonium Bromide. *Industrial & Engineering Chemistry Research*, **2014**, 53, 8182-8187	3.9	20
24	Effects of ionic surfactants on methane hydrate formation kinetics in a static system. *Advanced Powder Technology*, **2014**, 25, 1227-1233	4.6	43
23	Effective harvesting of low surface-hydrophobicity microalgae by froth flotation. *Bioresource Technology*, **2014**, 159, 437-41	11	41
22	Hydrophobic Forces in Foam Films **2014**, 161-186		
21	Correlation of air recovery with froth stability and separation efficiency in coal flotation. *Minerals Engineering*, **2013**, 41, 25-30	4.9	21
20	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. *Journal of Physical Chemistry C*, **2013**, 117, 2113-2120	3.8	22
19	Impact of interface approach velocity on bubble coalescence. *Minerals Engineering*, **2012**, 26, 50-56	4.9	18
18	Drainage and rupture of thin foam films in the presence of ionic and non-ionic surfactants. *International Journal of Mineral Processing*, **2012**, 102-103, 58-68		17
17	The effects of acid hydrolysis on protein biosurfactant molecular, interfacial, and foam properties: pH responsive protein hydrolysates. *Soft Matter*, **2012**, 8, 5131	3.6	19
16	Phase Equilibria and Dissociation Enthalpies of Hydrogen Semi-Clathrate Hydrate with Tetrabutyl Ammonium Nitrate. *Journal of Chemical & Engineering Data*, **2012**, 57, 603-609	2.8	30
15	Flotation of marine microalgae: effect of algal hydrophobicity. *Bioresource Technology*, **2012**, 121, 471-4	11	58
14	Hydrophobic Forces in Foam Films **2011**, 161-186		1
13	Anomalous thickness variation of the foam films stabilized by weak non-ionic surfactants. *Journal of Colloid and Interface Science*, **2009**, 337, 538-47	9.3	29

12	Effect of pH and NaCl concentration on the stability of surfactant-free foam films. *Langmuir*, **2009**, 25, 294-7	4	22
11	A response to the comment on "hydrophobic forces in the foam films stabilized by sodium dodecyl sulfate: effect of electrolyte". *Langmuir*, **2008**, 24, 5194-6	4	12
10	Effects of Film Elasticity and Surface Forces on the Stability of Foams and Lamellae Films in the Presence of Non-ionic Surfactants. *AIP Conference Proceedings*, **2008**,	0	1
9	Effects of surface forces and film elasticity on foam stability. *International Journal of Mineral Processing*, **2008**, 85, 101-110		83
8	Stability of foams and froths in the presence of ionic and non-ionic surfactants. *Minerals Engineering*, **2006**, 19, 539-547	4.9	25
7	Role of hydrophobic force in the thinning of foam films containing a nonionic surfactant. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2006**, 282-283, 84-91	5.1	49
6	Hydrophobic forces in thin aqueous films and their role in film thinning. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2005**, 263, 267-274	5.1	38
5	Hydrophobic forces in the foam films stabilized by sodium dodecyl sulfate: effect of electrolyte. *Langmuir*, **2004**, 20, 11457-64	4	67
4	Bubble Size in a Flotation Column with Oscillatory Air Supply in the Presence of Frothers. *Mineral Processing and Extractive Metallurgy Review*,1-9	3.1	1
3	Frother distribution in an industrial coal flotation circuit. *International Journal of Coal Preparation and Utilization*,1-14	1.2	
2	A Convolutional Neural Network for Classification of Froth Mobility in an Industrial Flotation Cell. *Mineral Processing and Extractive Metallurgy Review*,1-9	3.1	0
1	Mechanical Flotation of Mineral Particles with an Underwater Speaker. *Mineral Processing and Extractive Metallurgy Review*,1-5	3.1	1