Jinlong Tan

List of Publications by Year in descending order

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53 papers	2,345 citations	201674 27 h-index	214800 47 g-index
53 all docs	53 docs citations	53 times ranked	1003 citing authors

#	Article	IF	Citations
1	Investigation of adhesion behavior between reactive oily bubble and low-rank coal. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 632, 127809.	4.7	5
2	Influence of Air Solubility on the Flotation Performance of Low-Rank Coal. Langmuir, 2022, 38, 2467-2477.	3.5	2
3	Experimental study on the interaction forces between water droplets and mineral surfaces. Chemical Physics, 2022, 559, 111534.	1.9	3
4	Investigation on mechanism of the oleic acid/methyl oleate/diesel ternary compound collector in low-rank coal flotation. Fuel, 2022, 320, 123894.	6.4	31
5	Mechanism of the hydrophobic particles with different sizes detaching from the oscillating bubble surface. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 646, 128986.	4.7	7
6	Interaction between hydrocarbon oil and hydrophilic mineral surfaces: A chemical force microscopy and molecular dynamics simulation study. Fuel, 2022, 323, 124402.	6.4	6
7	Probing the interactions between collector molecules and hydrophobic graphite surfaces using chemical force microscopy. Applied Surface Science, 2022, 597, 153760.	6.1	5
8	Utilization of waste cooking oil for highly efficient recovery of unburned carbon from coal fly ash. Journal of Cleaner Production, 2021, 282, 124547.	9.3	21
9	Polyethylene oxide assisted separation of molybdenite from quartz by flotation. Minerals Engineering, 2021, 162, 106765.	4.3	14
10	Vertical adhesion force between particle and different positions on bubble surface. Minerals Engineering, 2021, 164, 106807.	4.3	4
11	Adhesion forces for water/oil droplet and bubble on coking coal surfaces with different roughness. International Journal of Mining Science and Technology, 2021, 31, 681-687.	10.3	32
12	Effect of microemulsion on low-rank coal flotation by mixing DTAB and diesel oil. Fuel, 2020, 260, 116321.	6.4	42
13	Oily collector pre-dispersion for enhanced surface adsorption during fine low-rank coal flotation. Journal of Industrial and Engineering Chemistry, 2020, 82, 303-308.	5.8	23
14	Role of molecular simulation in understanding the mechanism of low-rank coal flotation: A review. Fuel, 2020, 262, 116535.	6.4	108
15	Effect of diesel on the froth stability and its antifoam mechanism in fine coal flotation used MIBC as the frother. Powder Technology, 2020, 364, 183-188.	4.2	13
16	Effect of polyethylene oxide on flotation of molybdenite fines. Minerals Engineering, 2020, 146, 106146.	4.3	22
17	Effect of surface roughness on the detachment between bubble and glass beads with different contact angles. Powder Technology, 2020, 361, 812-816.	4.2	29
18	Synergistic Adsorption Mechanism of Anionic and Cationic Surfactant Mixtures on Low-Rank Coal Flotation. ACS Omega, 2020, 5, 20630-20637.	3.5	36

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19	Effect of Nanobubbles on the Flotation Performance of Oxidized Coal. ACS Omega, 2020, 5, 20283-20290.	3.5	21
20	New Insights into the Role of Surface Nanobubbles in Bubble-Particle Detachment. Langmuir, 2020, 36, 4339-4346.	3.5	23
21	New method to measure interaction force between particle and air bubble/water droplet using a micro-Newton mechanics testing instrument. Powder Technology, 2020, 373, 142-146.	4.2	5
22	A New Experimental Approach to Evaluate Coal Particles Floatability: Bubbleâ€“Particle Attachment and Detachment Kinetics. ACS Omega, 2020, 5, 16733-16738.	3.5	5
23	Studying interactions between undecane and graphite surfaces by chemical force microscopy and molecular dynamics simulations. Fuel, 2020, 269, 117367.	6.4	56
24	Flotation intensification of low-rank coal using a new compound collector. Powder Technology, 2020, 370, 197-205.	4.2	24
25	Kinetics of bubble-particle attachment and detachment at a single-bubble scale. Powder Technology, 2020, 370, 251-258.	4.2	13
26	Improving the adsorption of oily collector on the surface of low-rank coal during flotation using a cationic surfactant: An experimental and molecular dynamics simulation study. Fuel, 2019, 235, 687-695.	6.4	173
27	Thermal and mechanical enhancement of styreneâ€“butadiene rubber by filling with modified anthracite coal. Journal of Applied Polymer Science, 2019, 136, 48203.	2.6	6
28	Waste colza oil used as renewable collector for low rank coal flotation. Powder Technology, 2019, 344, 611-616.	4.2	29
29	Effect of vibration mode on detachment of low-rank coal particle from oscillating bubble. Powder Technology, 2019, 356, 880-883.	4.2	13
30	Synergistic adsorption of polar and nonpolar reagents on oxygen-containing graphite surfaces: Implications for low-rank coal flotation. Journal of Colloid and Interface Science, 2019, 557, 276-281.	9.4	60
31	Improving the floatability of coal with varying surface roughness through hypobaric treatment. Powder Technology, 2019, 345, 643-648.	4.2	35
32	Separation of unburned carbon from coal fly ash: A review. Powder Technology, 2019, 353, 372-384.	4.2	86
33	Enhancement of flotation response of fine low-rank coal using positively charged microbubbles. Fuel, 2019, 245, 505-513.	6.4	56
34	New flotation flowsheet for recovering combustible matter from fine waste coking coal. Journal of Cleaner Production, 2019, 225, 209-219.	9.3	30
35	The role of surface forces in mineral flotation. Current Opinion in Colloid and Interface Science, 2019, 44, 143-152.	7.4	27
36	Enhancement of the surface hydrophobicity of low-rank coal by adsorbing DTAB: An experimental and molecular dynamics simulation study. Fuel, 2019, 239, 145-152.	6.4	123

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37	Role of different types of clay in the floatability of coal: Induction time and bubble-particle attachment kinetics analysis. Powder Technology, 2019, 344, 814-818.	4.2	19
38	Effects of pore compression pretreatment on the flotation of low-rank coal. Fuel, 2019, 239, 63-69.	6.4	32
39	Performance of used lubricating oil as flotation collector for the recovery of clean low-rank coal. Fuel, 2019, 239, 717-725.	6.4	77
40	The application of atomic force microscopy in mineral flotation. Advances in Colloid and Interface Science, 2018, 256, 373-392.	14.7	108
41	Combined effect of chemical composition and spreading velocity of collector on flotation performance of oxidized coal. Powder Technology, 2018, 325, 1-10.	4.2	27
42	Role of DTAB and SDS in Bubble-Particle Attachment: AFM Force Measurement, Attachment Behaviour Visualization, and Contact Angle Study. Minerals (Basel, Switzerland), 2018, 8, 349.	2.0	12
43	Interaction Forces between Paraffin/Stearic Acid and Fresh/Oxidized Coal Particles Measured by Atomic Force Microscopy. Energy & Fuels, 2017, 31, 3305-3312.	5.1	52
44	Effect of kaolinite and montmorillonite on fine coal flotation. Fuel, 2017, 195, 284-289.	6.4	70
45	Recent experimental advances for understanding bubble-particle attachment in flotation. Advances in Colloid and Interface Science, 2017, 246, 105-132.	14.7	196
46	The hydrophobic force for bubbleâ€“particle attachment in flotation â€“ a brief review. Physical Chemistry Chemical Physics, 2017, 19, 24421-24435.	2.8	52
47	Effect of compound collector and blending frother on froth stability and flotation performance of oxidized coal. Powder Technology, 2017, 305, 166-173.	4.2	84
48	Intensification mechanism of oxidized coal flotation by using oxygen-containing collector Î±-furanacrylic acid. Powder Technology, 2017, 305, 109-116.	4.2	94
49	Clean low-rank-coal purification technique combining cyclonic-static microbubble flotation column with collector emulsification. Journal of Cleaner Production, 2017, 153, 657-672.	9.3	108
50	Interaction forces between coal and kaolinite particles measured by atomic force microscopy. Powder Technology, 2016, 301, 349-355.	4.2	88
51	Coal Preparation Technology: Status and Development in China. Energy and Environment, 2015, 26, 997-1013.	4.6	59
52	Structure evolution characterization of Anyang anthracites via H2O2 oxidization and HF acidification. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2014, 130, 574-580.	3.9	17
53	Influence of Calcination and Acidification on Structural Characterization of Anyang Anthracites. Energy & Fuels, 2013, 27, 7191-7197.	5.1	62