

# Jinlong Tan

## List of Publications by Year in descending order

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Version: 2024-02-01

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	Recent experimental advances for understanding bubble-particle attachment in flotation. <i>Advances in Colloid and Interface Science</i> , 2017, 246, 105-132.	14.7	196
2	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. <i>Fuel</i> , 2019, 235, 687-695.	6.4	173
3	Enhancement of the surface hydrophobicity of low-rank coal by adsorbing DTAB: An experimental and molecular dynamics simulation study. <i>Fuel</i> , 2019, 239, 145-152.	6.4	123
4	Clean low-rank-coal purification technique combining cyclonic-static microbubble flotation column with collector emulsification. <i>Journal of Cleaner Production</i> , 2017, 153, 657-672.	9.3	108
5	The application of atomic force microscopy in mineral flotation. <i>Advances in Colloid and Interface Science</i> , 2018, 256, 373-392.	14.7	108
6	Role of molecular simulation in understanding the mechanism of low-rank coal flotation: A review. <i>Fuel</i> , 2020, 262, 116535.	6.4	108
7	Intensification mechanism of oxidized coal flotation by using oxygen-containing collector $\hat{\pm}$ -furanacrylic acid. <i>Powder Technology</i> , 2017, 305, 109-116.	4.2	94
8	Interaction forces between coal and kaolinite particles measured by atomic force microscopy. <i>Powder Technology</i> , 2016, 301, 349-355.	4.2	88
9	Separation of unburned carbon from coal fly ash: A review. <i>Powder Technology</i> , 2019, 353, 372-384.	4.2	86
10	Effect of compound collector and blending frother on froth stability and flotation performance of oxidized coal. <i>Powder Technology</i> , 2017, 305, 166-173.	4.2	84
11	Performance of used lubricating oil as flotation collector for the recovery of clean low-rank coal. <i>Fuel</i> , 2019, 239, 717-725.	6.4	77
12	Effect of kaolinite and montmorillonite on fine coal flotation. <i>Fuel</i> , 2017, 195, 284-289.	6.4	70
13	Influence of Calcination and Acidification on Structural Characterization of Anyang Anthracites. <i>Energy &amp; Fuels</i> , 2013, 27, 7191-7197.	5.1	62
14	Synergistic adsorption of polar and nonpolar reagents on oxygen-containing graphite surfaces: Implications for low-rank coal flotation. <i>Journal of Colloid and Interface Science</i> , 2019, 557, 276-281.	9.4	60
15	Coal Preparation Technology: Status and Development in China. <i>Energy and Environment</i> , 2015, 26, 997-1013.	4.6	59
16	Enhancement of flotation response of fine low-rank coal using positively charged microbubbles. <i>Fuel</i> , 2019, 245, 505-513.	6.4	56
17	Studying interactions between undecane and graphite surfaces by chemical force microscopy and molecular dynamics simulations. <i>Fuel</i> , 2020, 269, 117367.	6.4	56
18	Interaction Forces between Paraffin/Stearic Acid and Fresh/Oxidized Coal Particles Measured by Atomic Force Microscopy. <i>Energy &amp; Fuels</i> , 2017, 31, 3305-3312.	5.1	52

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19	The hydrophobic force for bubble-particle attachment in flotation – a brief review. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 24421-24435.	2.8	52
20	Effect of microemulsion on low-rank coal flotation by mixing DTAB and diesel oil. <i>Fuel</i> , 2020, 260, 116321.	6.4	42
21	Synergistic Adsorption Mechanism of Anionic and Cationic Surfactant Mixtures on Low-Rank Coal Flotation. <i>ACS Omega</i> , 2020, 5, 20630-20637.	3.5	36
22	Improving the floatability of coal with varying surface roughness through hypobaric treatment. <i>Powder Technology</i> , 2019, 345, 643-648.	4.2	35
23	Effects of pore compression pretreatment on the flotation of low-rank coal. <i>Fuel</i> , 2019, 239, 63-69.	6.4	32
24	Adhesion forces for water/oil droplet and bubble on coking coal surfaces with different roughness. <i>International Journal of Mining Science and Technology</i> , 2021, 31, 681-687.	10.3	32
25	Investigation on mechanism of the oleic acid/methyl oleate/diesel ternary compound collector in low-rank coal flotation. <i>Fuel</i> , 2022, 320, 123894.	6.4	31
26	New flotation flowsheet for recovering combustible matter from fine waste coking coal. <i>Journal of Cleaner Production</i> , 2019, 225, 209-219.	9.3	30
27	Waste colza oil used as renewable collector for low rank coal flotation. <i>Powder Technology</i> , 2019, 344, 611-616.	4.2	29
28	Effect of surface roughness on the detachment between bubble and glass beads with different contact angles. <i>Powder Technology</i> , 2020, 361, 812-816.	4.2	29
29	Combined effect of chemical composition and spreading velocity of collector on flotation performance of oxidized coal. <i>Powder Technology</i> , 2018, 325, 1-10.	4.2	27
30	The role of surface forces in mineral flotation. <i>Current Opinion in Colloid and Interface Science</i> , 2019, 44, 143-152.	7.4	27
31	Flotation intensification of low-rank coal using a new compound collector. <i>Powder Technology</i> , 2020, 370, 197-205.	4.2	24
32	Oily collector pre-dispersion for enhanced surface adsorption during fine low-rank coal flotation. <i>Journal of Industrial and Engineering Chemistry</i> , 2020, 82, 303-308.	5.8	23
33	New Insights into the Role of Surface Nanobubbles in Bubble-Particle Detachment. <i>Langmuir</i> , 2020, 36, 4339-4346.	3.5	23
34	Effect of polyethylene oxide on flotation of molybdenite fines. <i>Minerals Engineering</i> , 2020, 146, 106146.	4.3	22
35	Effect of Nanobubbles on the Flotation Performance of Oxidized Coal. <i>ACS Omega</i> , 2020, 5, 20283-20290.	3.5	21
36	Utilization of waste cooking oil for highly efficient recovery of unburned carbon from coal fly ash. <i>Journal of Cleaner Production</i> , 2021, 282, 124547.	9.3	21

#	ARTICLE	IF	CITATIONS
37	Role of different types of clay in the floatability of coal: Induction time and bubble-particle attachment kinetics analysis. <i>Powder Technology</i> , 2019, 344, 814-818.	4.2	19
38	Structure evolution characterization of Anyang anthracites via H <sub>2</sub> O <sub>2</sub> oxidization and HF acidification. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014, 130, 574-580.	3.9	17
39	Polyethylene oxide assisted separation of molybdenite from quartz by flotation. <i>Minerals Engineering</i> , 2021, 162, 106765.	4.3	14
40	Effect of vibration mode on detachment of low-rank coal particle from oscillating bubble. <i>Powder Technology</i> , 2019, 356, 880-883.	4.2	13
41	Effect of diesel on the froth stability and its antifoam mechanism in fine coal flotation used MIBC as the frother. <i>Powder Technology</i> , 2020, 364, 183-188.	4.2	13
42	Kinetics of bubble-particle attachment and detachment at a single-bubble scale. <i>Powder Technology</i> , 2020, 370, 251-258.	4.2	13
43	Role of DTAB and SDS in Bubble-Particle Attachment: AFM Force Measurement, Attachment Behaviour Visualization, and Contact Angle Study. <i>Minerals (Basel, Switzerland)</i> , 2018, 8, 349.	2.0	12
44	Mechanism of the hydrophobic particles with different sizes detaching from the oscillating bubble surface. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022, 646, 128986.	4.7	7
45	Thermal and mechanical enhancement of styrene-butadiene rubber by filling with modified anthracite coal. <i>Journal of Applied Polymer Science</i> , 2019, 136, 48203.	2.6	6
46	Interaction between hydrocarbon oil and hydrophilic mineral surfaces: A chemical force microscopy and molecular dynamics simulation study. <i>Fuel</i> , 2022, 323, 124402.	6.4	6
47	New method to measure interaction force between particle and air bubble/water droplet using a micro-Newton mechanics testing instrument. <i>Powder Technology</i> , 2020, 373, 142-146.	4.2	5
48	A New Experimental Approach to Evaluate Coal Particles Floatability: Bubble-Particle Attachment and Detachment Kinetics. <i>ACS Omega</i> , 2020, 5, 16733-16738.	3.5	5
49	Investigation of adhesion behavior between reactive oily bubble and low-rank coal. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022, 632, 127809.	4.7	5
50	Probing the interactions between collector molecules and hydrophobic graphite surfaces using chemical force microscopy. <i>Applied Surface Science</i> , 2022, 597, 153760.	6.1	5
51	Vertical adhesion force between particle and different positions on bubble surface. <i>Minerals Engineering</i> , 2021, 164, 106807.	4.3	4
52	Experimental study on the interaction forces between water droplets and mineral surfaces. <i>Chemical Physics</i> , 2022, 559, 111534.	1.9	3
53	Influence of Air Solubility on the Flotation Performance of Low-Rank Coal. <i>Langmuir</i> , 2022, 38, 2467-2477.	3.5	2