

Xiahhui Gui

List of Publications by Year in descending order

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57
papers

2,433
citations

186265
28
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57
docs citations

57
times ranked

956
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanism analysis of DTAB on the change in surface wettability of low-rank coal and its relationship to flotability. <i>International Journal of Coal Preparation and Utilization</i> , 2022, 42, 82-96.	2.1	9
2	Interfacial nanobubbles on different hydrophobic surfaces and their effect on the interaction of inter-particles. <i>Applied Surface Science</i> , 2022, 582, 152184.	6.1	6
3	Influence of Air Solubility on the Flotation Performance of Low-Rank Coal. <i>Langmuir</i> , 2022, 38, 2467-2477.	3.5	2
4	Experimental study on the interaction forces between water droplets and mineral surfaces. <i>Chemical Physics</i> , 2022, 559, 111534.	1.9	3
5	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
6	Investigation of interactions between oxygen-containing groups and water molecules on coal surfaces using density functional theory. <i>Fuel</i> , 2021, 287, 119556.	6.4	58
7	Polyethylene oxide assisted separation of molybdenite from quartz by flotation. <i>Minerals Engineering</i> , 2021, 162, 106765.	4.3	14
8	Recent advances for understanding the role of nanobubbles in particles flotation. <i>Advances in Colloid and Interface Science</i> , 2021, 291, 102403.	14.7	40
9	Characteristics of interfacial nanobubbles and their interaction with solid surfaces. <i>Applied Surface Science</i> , 2021, 550, 149258.	6.1	3
10	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
11	Removal of organic pollutants in coking wastewater based on coal-based adsorbents: A pilot-scale study of static adsorption and flotation. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 106844.	6.7	16
12	Enhancement of oxidized coal flotation by preconditioning with positive-charged microbubbles. <i>International Journal of Coal Preparation and Utilization</i> , 2020, 40, 553-563.	2.1	6
13	Effect of microemulsion on low-rank coal flotation by mixing DTAB and diesel oil. <i>Fuel</i> , 2020, 260, 116321.	6.4	42
14	Interaction characteristics between diesel and coal with different hydrophilicity: Kinetic and force effects. <i>Separation and Purification Technology</i> , 2020, 232, 115958.	7.9	21
15	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
16	Role of molecular simulation in understanding the mechanism of low-rank coal flotation: A review. <i>Fuel</i> , 2020, 262, 116535.	6.4	108
17	Improved floatability of low-rank coal through surface modification by hydrothermal pretreatment. <i>Journal of Cleaner Production</i> , 2020, 246, 119025.	9.3	44
18	Effect of polyethylene oxide on flotation of molybdenite fines. <i>Minerals Engineering</i> , 2020, 146, 106146.	4.3	22

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19	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
20	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
21	Study of Interactions between Interfacial Nanobubbles and Probes of Different Hydrophobicities. <i>ACS Omega</i> , 2020, 5, 20363-20372.	3.5	7
22	Effect of Nanobubbles on the Flotation Performance of Oxidized Coal. <i>ACS Omega</i> , 2020, 5, 20283-20290.	3.5	21
23	Molecular Dynamics Simulation Study of Bubble Attachment at the Coal Surface with Varying Coalification Degrees. <i>ACS Omega</i> , 2020, 5, 20134-20140.	3.5	4
24	New Insights into the Role of Surface Nanobubbles in Bubble-Particle Detachment. <i>Langmuir</i> , 2020, 36, 4339-4346.	3.5	23
25	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
26	Studying interactions between undecane and graphite surfaces by chemical force microscopy and molecular dynamics simulations. <i>Fuel</i> , 2020, 269, 117367.	6.4	56
27	New insight into surface wetting of coal with varying coalification degree: An experimental and molecular dynamics simulation study. <i>Applied Surface Science</i> , 2020, 511, 145610.	6.1	88
28	Flotation intensification of low-rank coal using a new compound collector. <i>Powder Technology</i> , 2020, 370, 197-205.	4.2	24
29	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
30	Mechanism of shale oil as an effective collector for oxidized coal flotation: From bubble-particle attachment and detachment point of view. <i>Fuel</i> , 2019, 255, 115885.	6.4	47
31	Effect of Comminution Methods on Low-Rank Coal Bubble-Particle Attachment/Detachment: Implications for Flotation. <i>Minerals (Basel, Switzerland)</i> , 2019, 9, 452.	2.0	5
32	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
33	Recovering unburned carbon from gasification fly ash using saline water. <i>Waste Management</i> , 2019, 98, 29-36.	7.4	58
34	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
35	Improving the floatability of coal with varying surface roughness through hypobaric treatment. <i>Powder Technology</i> , 2019, 345, 643-648.	4.2	35
36	Separation of unburned carbon from coal fly ash: A review. <i>Powder Technology</i> , 2019, 353, 372-384.	4.2	86

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37	Enhancement of flotation response of fine low-rank coal using positively charged microbubbles. <i>Fuel</i> , 2019, 245, 505-513.	6.4	56
38	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
39	Effects of pore compression pretreatment on the flotation of low-rank coal. <i>Fuel</i> , 2019, 239, 63-69.	6.4	32
40	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
41	The application of atomic force microscopy in mineral flotation. <i>Advances in Colloid and Interface Science</i> , 2018, 256, 373-392.	14.7	108
42	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
43	Hydration film measurement on mica and coal surfaces using atomic force microscopy and interfacial interactions. <i>Journal of Central South University</i> , 2018, 25, 1295-1305.	3.0	11
44	Effect of Dodecane and Oleic Acid on the Attachment between Oxidized Coal and Bubbles. <i>Minerals (Basel, Switzerland)</i> , 2018, 8, 29.	2.0	16
45	Interaction Forces between Paraffin/Stearic Acid and Fresh/Oxidized Coal Particles Measured by Atomic Force Microscopy. <i>Energy & Fuels</i> , 2017, 31, 3305-3312.	5.1	52
46	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
47	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
48	Effect of Ultrasonic Pretreatment on Oxidized Coal Flotation. <i>Energy & Fuels</i> , 2017, 31, 14367-14373.	5.1	53
49	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
50	Intensification mechanism of oxidized coal flotation by using oxygen-containing collector 1- <i>furanacrylic acid</i> . <i>Powder Technology</i> , 2017, 305, 109-116.	4.2	94
51	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
52	Interaction forces between coal and kaolinite particles measured by atomic force microscopy. <i>Powder Technology</i> , 2016, 301, 349-355.	4.2	88
53	Flotation of a new chelate collector on fine refractory iron ore-containing carbonate. <i>Journal of Central South University</i> , 2016, 23, 1058-1065.	3.0	9
54	The Effect of Power Input on the Fine Coal Flotation Rate Constant. <i>International Journal of Coal Preparation and Utilization</i> , 2015, 35, 176-188.	2.1	4

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55	Process intensification of fine coal separation using two-stage flotation column. Journal of Central South University, 2013, 20, 3648-3659.	3.0	7
56	Effects of energy input on the laboratory column flotation of fine coal. Separation Science and Technology, 0, , 150623131352004.	2.5	5
57	Effect of Calcium Ion on Coal Flotation in the Presence of Kaolinite Clay. Energy & Fuels, 0, , .	5.1	7