

# Qingxia Liu

## List of Publications by Year in descending order

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178  
papers

8,252  
citations

43973

48  
h-index

54797

84  
g-index

178  
all docs

178  
docs citations

178  
times ranked

8380  
citing authors

#	ARTICLE	IF	CITATIONS
1	Spatial-temporal evolution characteristics of surface and particles regulated by operating parameters during multi-stage variable inclination equal-thickness screening. <i>Separation Science and Technology</i> , 2022, 57, 1337-1350.	1.3	8
2	Adhesion-Shielding based synthesis of interfacially active magnetic Janus nanoparticles. <i>Journal of Colloid and Interface Science</i> , 2022, 607, 1741-1753.	5.0	11
3	The influence of inflow swirls on phases separation in a Venturi tube. <i>Separation and Purification Technology</i> , 2022, 281, 119954.	3.9	5
4	Interface-Induced Electrocatalytic Enhancement of CO <sub>2</sub> to Formate Conversion on Heterostructured Bismuth-Based Catalysts. <i>Small</i> , 2022, 18, e2105682.	5.2	53
5	Fullerene-like elastic carbon coatings on silicon nanoparticles by solvent controlled association of natural polyaromatic molecules as high-performance lithium-ion battery anodes. <i>Energy Storage Materials</i> , 2022, 45, 412-421.	9.5	26
6	High-efficiency and durable removal of water-in-heavy oil emulsions enabled by delignified and carboxylated basswood with zwitterionic nanohydrogel coatings. <i>Journal of Colloid and Interface Science</i> , 2022, 612, 445-458.	5.0	8
7	Effect of Viscosity on the Thin-Film Drainage between Bitumen and a Hydrophobic Silica Wafer. <i>Energy &amp; Fuels</i> , 2022, 36, 2600-2608.	2.5	1
8	Effect of Sodium Citrate on the Aggregation of Bitumen Droplets. <i>Energy &amp; Fuels</i> , 2022, 36, 3563-3569.	2.5	3
9	Hydrodynamic collisions involving bubbles and mineral particles. <i>Canadian Journal of Chemical Engineering</i> , 2022, 100, 3270-3287.	0.9	0
10	Effect of solid wettability on three-phase hydrodynamic cavitation. <i>Minerals Engineering</i> , 2022, 180, 107455.	1.8	7
11	Effect of Cu(II) ions on millerite (I <sup>2</sup> -NiS) flotation and surface properties in alkaline solutions. <i>Minerals Engineering</i> , 2022, 180, 107443.	1.8	1
12	Effects of chemical inhibitors on the scaling behaviors of calcite and the associated surface interaction mechanisms. <i>Journal of Colloid and Interface Science</i> , 2022, 618, 507-517.	5.0	14
13	Dynamic Propagation and Electro-Mechanical Characteristics of New Microcracks in Notched Coal Samples Studied by the Three-Point Bending Test System and AFM. <i>Minerals (Basel, Switzerland)</i> , 2022, 12, 582.	0.8	1
14	Effect of sodium citrate on asphaltene film at the oil-water interface. <i>Journal of Colloid and Interface Science</i> , 2022, 625, 24-32.	5.0	7
15	Enhancement of selective fine particle flotation by microbubbles generated through hydrodynamic cavitation. <i>Powder Technology</i> , 2022, 405, 117502.	2.1	9
16	Fundamentals of secondary process aids in oil sands extraction. <i>Canadian Journal of Chemical Engineering</i> , 2022, 100, 2682-2706.	0.9	2
17	Control of nanostructures through pH-dependent self-assembly of nanoplatelets. <i>Journal of Colloid and Interface Science</i> , 2021, 582, 439-445.	5.0	11
18	Numerical study of mixing of cavitating flows in a Venturi tube. <i>Canadian Journal of Chemical Engineering</i> , 2021, 99, 813-828.	0.9	7

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19	Cellulose-coated magnetic Janus nanoparticles for dewatering of crude oil emulsions. <i>Chemical Engineering Science</i> , 2021, 230, 116215.	1.9	20
20	Probing Specific Adsorption of Electrolytes at Kaolinite's Aqueous Interfaces by Atomic Force Microscopy. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 2406-2412.	2.1	7
21	Inward Flow of Intervening Liquid Films Driven by the Marangoni Effect during Bubble's Solid Collisions in Ethyl Alcohol's NaCl Aqueous Solutions. <i>Langmuir</i> , 2021, 37, 4121-4128.	1.6	1
22	Advanced Switchable Molecules and Materials for Oil Recovery and Oily Waste Cleanup. <i>Advanced Science</i> , 2021, 8, e2004082.	5.6	28
23	Modulation of Surface Charge by Mediating Surface Chemical Structures in Nonpolar Solvents with Nonionic Surfactant Used as Charge Additives. <i>Journal of Physical Chemistry C</i> , 2021, 125, 19525-19536.	1.5	7
24	Water Film Drainage between a Very Viscous Oil Drop and a Mica Surface. <i>Physical Review Letters</i> , 2021, 127, 124503.	2.9	6
25	Recent advances in computational fluid dynamics simulation of flotation: a review. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2021, 16, e2704.	0.8	7
26	Understanding the Properties of Bitumen Froth from Oil Sands Surface Mining and Treatment of Water-in-Oil Emulsions. <i>Energy &amp; Fuels</i> , 2021, 35, 20079-20091.	2.5	3
27	Face or Edge? Control of Molybdenite Surface Interactions with Divalent Cations. <i>Journal of Physical Chemistry C</i> , 2020, 124, 372-381.	1.5	14
28	Role of mineral flotation technology in improving bitumen extraction from mined Athabasca oil sands's II. Flotation hydrodynamics of water-based oil sand extraction. <i>Canadian Journal of Chemical Engineering</i> , 2020, 98, 330-352.	0.9	26
29	Probing Interaction of Divalent Cations with Illite Basal Surfaces by Atomic Force Microscopy. <i>Journal of Physical Chemistry C</i> , 2020, 124, 2079-2087.	1.5	6
30	Selective aggregation by ultrasonic standing waves through gas nuclei on the particle surface. <i>Ultrasonics Sonochemistry</i> , 2020, 63, 104924.	3.8	11
31	Structure of the Silica/Divalent Electrolyte Interface: Molecular Insight into Charge Inversion with Increasing pH. <i>Journal of Physical Chemistry C</i> , 2020, 124, 26973-26981.	1.5	23
32	Effect of Surface and Interfacial Tension on the Resonance Frequency of Microfluidic Channel Cantilever. <i>Sensors</i> , 2020, 20, 6459.	2.1	1
33	Controlling the Interaction Forces between an Air Bubble and Oil with Divalent Cations and Sodium Citrate. <i>Journal of Physical Chemistry C</i> , 2020, 124, 17622-17631.	1.5	8
34	Effect of Sodium Citrate and Calcium Ions on the Spontaneous Displacement of Heavy Oil from Quartz Surfaces. <i>Journal of Physical Chemistry C</i> , 2020, 124, 20991-20997.	1.5	10
35	Progress and Prospects in Membrane Technology for Oil/Water Separation. <i>ACS Symposium Series</i> , 2020, , 73-87.	0.5	2
36	Modeling of cavitating flows past a micro-sized particle. <i>International Journal of Multiphase Flow</i> , 2020, 128, 103276.	1.6	8

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37	Understanding the Interaction Mechanism between Elemental Selenium and Ferric Hydroxide in Wastewater Treatment. <i>Industrial &amp; Engineering Chemistry Research</i> , 2020, 59, 6662-6671.	1.8	7
38	Toward efficient interactions of bubbles and coal particles induced by stable cavitation bubbles under 600kHz ultrasonic standing waves. <i>Ultrasonics Sonochemistry</i> , 2020, 64, 105003.	3.8	11
39	Treatment of oily wastewaters using magnetic Janus nanoparticles of asymmetric surface wettability. <i>Journal of Colloid and Interface Science</i> , 2020, 568, 207-220.	5.0	35
40	Interaction Between the Cyclopentane Hydrate Particle and Water Droplet in Hydrocarbon Oil. <i>Langmuir</i> , 2020, 36, 2063-2070.	1.6	18
41	Cavitation Nuclei Regeneration in a Water-Particle Suspension. <i>Physical Review Letters</i> , 2020, 124, 034501.	2.9	12
42	Effect of Velocity, Solid Wettability, and Temperature on Drainage Dynamics of C5PeC11-in-Toluene Liquid Films between Silica and Water Droplet. <i>Energy &amp; Fuels</i> , 2020, 34, 6834-6843.	2.5	5
43	Study of the Role of Sodium Citrate in Bitumen Liberation. <i>Energy &amp; Fuels</i> , 2019, 33, 8271-8278.	2.5	19
44	Coalescence or Bounce? How Surfactant Adsorption in Milliseconds Affects Bubble Collision. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 5662-5666.	2.1	23
45	Unraveling Polymorphic Pyrrhotite Electrochemical Oxidation by Underlying Electronic Structures. <i>Journal of Physical Chemistry C</i> , 2019, 123, 26442-26449.	1.5	9
46	Janus membrane emulsification for facile preparation of hollow microspheres. <i>Journal of Membrane Science</i> , 2019, 592, 117384.	4.1	12
47	CO <sub>2</sub> -responsive surfactants with tunable switching pH. <i>Journal of Colloid and Interface Science</i> , 2019, 557, 185-195.	5.0	35
48	Bubbles with tunable mobility of surfaces in ethanol-NaCl aqueous solutions. <i>Journal of Colloid and Interface Science</i> , 2019, 556, 345-351.	5.0	11
49	Magnetically responsive Janus nanoparticles synthesized using cellulosic materials for enhanced phase separation in oily wastewaters and water-in-crude oil emulsions. <i>Chemical Engineering Journal</i> , 2019, 378, 122045.	6.6	75
50	Stimuli-Responsive Hybrid Polymer for Enhanced Solid-Liquid Separation of Industrial Effluents. <i>Environmental Science &amp; Technology</i> , 2019, 53, 6436-6443.	4.6	11
51	Coalescence of Bubbles with Mobile Interfaces in Water. <i>Physical Review Letters</i> , 2019, 122, 194501.	2.9	73
52	Unraveling Interaction Mechanisms between Molybdenite and a Dodecane Oil Droplet Using Atomic Force Microscopy. <i>Langmuir</i> , 2019, 35, 6024-6031.	1.6	16
53	Probing Anisotropic Surface Properties of Illite by Atomic Force Microscopy. <i>Langmuir</i> , 2019, 35, 6532-6539.	1.6	21
54	Bulk and surface properties of gypsum: A comparison between classical force fields and dispersion-corrected DFT calculations. <i>Computational Materials Science</i> , 2019, 164, 8-16.	1.4	10

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55	Unraveling the molecular interaction mechanism between graphene oxide and aromatic organic compounds with implications on wastewater treatment. <i>Chemical Engineering Journal</i> , 2019, 358, 842-849.	6.6	48
56	Effects of hydrothermal dewatering of lignite on rheology of coal water slurry. <i>Canadian Journal of Chemical Engineering</i> , 2019, 97, 323-329.	0.9	12
57	Flocculation-assisted dewatering of fluid fine tailings using a volute screw press. <i>Canadian Journal of Chemical Engineering</i> , 2019, 97, 74-83.	0.9	1
58	Hydrothermal dewatering of lignite water slurries: Part 2 surface properties and stability. <i>Canadian Journal of Chemical Engineering</i> , 2019, 97, 133-139.	0.9	7
59	Pseudo-Gemini Biosurfactants with CO <sub>2</sub> Switchability for Enhanced Oil Recovery (EOR). <i>Tenside, Surfactants, Detergents</i> , 2019, 56, 407-416.	0.5	10
60	The most stable state of a droplet on anisotropic patterns: support for a missing link. <i>Surface Innovations</i> , 2018, 6, 133-140.	1.4	31
61	Molecular Dynamics Study of Hydrophilic Sphalerite (110) Surface as Modified by Normal and Branched Butylthiols. <i>Langmuir</i> , 2018, 34, 3363-3373.	1.6	16
62	A Molecular Dynamics Study of the Effect of Asphaltenes on Toluene/Water Interfacial Tension: Surfactant or Solute?. <i>Energy &amp; Fuels</i> , 2018, 32, 3225-3231.	2.5	39
63	Experimental Study on In Situ Preparation of Supported Sorbent for Moderate Temperature CFB-FGD. <i>Energy &amp; Fuels</i> , 2018, 32, 3690-3696.	2.5	2
64	Biodiesel-Assisted Ambient Aqueous Bitumen Extraction (BA <sup>3</sup> BE) from Athabasca Oil Sands. <i>Energy &amp; Fuels</i> , 2018, 32, 6565-6576.	2.5	14
65	CO <sub>2</sub> storage in saline aquifers by dissolution and residual trapping under supercritical conditions: An experimental investigation. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018, 548, 37-45.	2.3	21
66	Effects of Thickness and Adsorption of Airborne Hydrocarbons on Wetting Properties of MoS <sub>2</sub> : An Atomistic Simulation Study. <i>Journal of Physical Chemistry C</i> , 2018, 122, 6737-6747.	1.5	18
67	Single-Molecule MoS <sub>2</sub> Polymer Interaction and Efficient Aqueous Exfoliation of MoS <sub>2</sub> into Single Layer. <i>Journal of Physical Chemistry C</i> , 2018, 122, 8262-8269.	1.5	11
68	Underwater Adhesion of a Stimuli-Responsive Polymer on Highly Oriented Pyrolytic Graphite: A Single-Molecule Force Study. <i>Journal of Physical Chemistry C</i> , 2018, 122, 6721-6729.	1.5	9
69	Cogeneration of ethylene and energy in protonic fuel cell with an efficient and stable anode anchored with in-situ exsolved functional metal nanoparticles. <i>Applied Catalysis B: Environmental</i> , 2018, 220, 283-289.	10.8	60
70	Microwave Treatment of Ultramafic Nickel Ores: Heating Behavior, Mineralogy, and Comminution Effects. <i>Minerals (Basel, Switzerland)</i> , 2018, 8, 524.	0.8	22
71	Contributions of van der Waals Interactions and Hydrophobic Attraction to Molecular Adhesions on a Hydrophobic MoS <sub>2</sub> Surface in Water. <i>Langmuir</i> , 2018, 34, 14196-14203.	1.6	13
72	Anisotropic Polymer Adsorption on Molybdenite Basal and Edge Surfaces and Interaction Mechanism With Air Bubbles. <i>Frontiers in Chemistry</i> , 2018, 6, 361.	1.8	29

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73	Dynamic Interaction between a Millimeter-Sized Bubble and Surface Microbubbles in Water. <i>Langmuir</i> , 2018, 34, 11667-11675.	1.6	32
74	Probing Boundary Conditions at Hydrophobic Solid-Water Interfaces by Dynamic Film Drainage Measurement. <i>Langmuir</i> , 2018, 34, 12025-12035.	1.6	21
75	Probing Bitumen Liberation by a Quartz Crystal Microbalance with Dissipation. <i>Energy &amp; Fuels</i> , 2018, 32, 7451-7457.	2.5	8
76	Adsorption-Based Synthesis of Magnetically Responsive and Interfacially Active Composite Nanoparticles for Dewatering of Water-in-Diluted Bitumen Emulsions. <i>Energy &amp; Fuels</i> , 2018, 32, 8078-8089.	2.5	23
77	Effect of temperature on foamability using a thermoresponsive polymer. <i>AIP Advances</i> , 2018, 8, .	0.6	6
78	Shape-Dependent Electrocatalytic Reduction of CO <sub>2</sub> to CO on Triangular Silver Nanoplates. <i>Journal of the American Chemical Society</i> , 2017, 139, 2160-2163.	6.6	551
79	Surface Interaction of Water-in-Oil Emulsion Droplets with Interfacially Active Asphaltenes. <i>Langmuir</i> , 2017, 33, 1265-1274.	1.6	110
80	Mapping the Nanoscale Heterogeneity of Surface Hydrophobicity on the Sphalerite Mineral. <i>Journal of Physical Chemistry C</i> , 2017, 121, 5620-5628.	1.5	55
81	Effect of Approach Velocity on Thin Liquid Film Drainage between an Air Bubble and a Flat Solid Surface. <i>Journal of Physical Chemistry C</i> , 2017, 121, 5573-5584.	1.5	45
82	Oxidant-Induced High-Efficient Mussel-Inspired Modification on PVDF Membrane with Superhydrophilicity and Underwater Superoleophobicity Characteristics for Oil/Water Separation. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 8297-8307.	4.0	139
83	Interaction Mechanisms between Air Bubble and Molybdenite Surface: Impact of Solution Salinity and Polymer Adsorption. <i>Langmuir</i> , 2017, 33, 2353-2361.	1.6	67
84	Effect of Model Polycyclic Aromatic Compounds on the Coalescence of Water-in-Oil Emulsion Droplets. <i>Journal of Physical Chemistry C</i> , 2017, 121, 10382-10391.	1.5	27
85	pH-Dependent Inversion of Hofmeister Trends in the Water Structure of the Electrical Double Layer. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 2855-2861.	2.1	76
86	Polyamine-modified magnetic graphene oxide nanocomposite for enhanced selenium removal. <i>Separation and Purification Technology</i> , 2017, 183, 249-257.	3.9	66
87	Wetting at the nanoscale: A molecular dynamics study. <i>Journal of Chemical Physics</i> , 2017, 146, 114704.	1.2	64
88	Preparation of poly(N-isopropylacrylamide)-block-(acrylic acid)-encapsulated proteinaceous microbubbles for delivery of doxorubicin. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017, 154, 115-122.	2.5	7
89	The excellence of La(Sr)Fe(Ni)O <sub>3</sub> as an active and efficient cathode for direct CO <sub>2</sub> electrochemical reduction at elevated temperatures. <i>Journal of Materials Chemistry A</i> , 2017, 5, 2673-2680.	5.2	78
90	A facile sonochemical synthesis of shell-stabilized reactive microbubbles using surface-thiolated bovine serum albumin with the Traut's reagent. <i>Ultrasonics Sonochemistry</i> , 2017, 36, 454-465.	3.8	24

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91	Fractionation of Asphaltenes in Understanding Their Role in Petroleum Emulsion Stability and Fouling. <i>Energy &amp; Fuels</i> , 2017, 31, 3330-3337.	2.5	91
92	Line tensions of galena (001) and sphalerite (110) surfaces: A molecular dynamics study. <i>Journal of Molecular Liquids</i> , 2017, 248, 634-642.	2.3	15
93	Probing Single-Molecule Adhesion of a Stimuli Responsive Oligo(ethylene glycol) Methacrylate Copolymer on a Molecularly Smooth Hydrophobic MoS <sub>2</sub> Basal Plane Surface. <i>Langmuir</i> , 2017, 33, 10429-10438.	1.6	9
94	Probing interactions between sphalerite and hydrophobic/hydrophilic surfaces: Effect of water chemistry. <i>Powder Technology</i> , 2017, 320, 511-518.	2.1	21
95	Separation of pyrite from chalcopyrite and molybdenite by using selective collector of N-isopropoxypropyl-N <sup>ε</sup> -ethoxycarbonyl thiourea in high salinity water. <i>Minerals Engineering</i> , 2017, 100, 93-98.	1.8	14
96	Surface forces in unconventional oil processing. <i>Current Opinion in Colloid and Interface Science</i> , 2017, 27, 63-73.	3.4	13
97	Mechanistic Understanding of Asphaltene Surface Interactions in Aqueous Media. <i>Energy &amp; Fuels</i> , 2017, 31, 3348-3357.	2.5	38
98	Role of Preconditioning Cationic Zetag Flocculant in Enhancing Mature Fine Tailings Flocculation. <i>Energy &amp; Fuels</i> , 2016, 30, 5223-5231.	2.5	19
99	Synthesis and Characterization of Tunable Dual-pH Switchable Zwitterionic Copolymers. <i>Macromolecular Chemistry and Physics</i> , 2016, 217, 1614-1619.	1.1	0
100	Dewatering Bitumen Emulsions Using Interfacially Active Organic Composite Absorbent Particles. <i>Energy &amp; Fuels</i> , 2016, 30, 5253-5258.	2.5	13
101	Probing Molecular Interactions of Asphaltenes in Heptol Using a Surface Forces Apparatus: Implications on Stability of Water-in-Oil Emulsions. <i>Langmuir</i> , 2016, 32, 4886-4895.	1.6	77
102	Dendrimer functionalized graphene oxide for selenium removal. <i>Carbon</i> , 2016, 105, 655-664.	5.4	90
103	Understanding the roles of high salinity in inhibiting the molybdenite flotation. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2016, 509, 123-129.	2.3	47
104	Probing Surface Interactions of Electrochemically Active Galena Mineral Surface Using Atomic Force Microscopy. <i>Journal of Physical Chemistry C</i> , 2016, 120, 22433-22442.	1.5	48
105	Interactions between elemental selenium and hydrophilic/hydrophobic surfaces: Direct force measurements using AFM. <i>Chemical Engineering Journal</i> , 2016, 303, 646-654.	6.6	47
106	Highly Stable and Efficient Catalyst with In Situ Exsolved Fe-Ni Alloy Nanospheres Socketed on an Oxygen Deficient Perovskite for Direct CO <sub>2</sub> Electrolysis. <i>ACS Catalysis</i> , 2016, 6, 6219-6228.	5.5	206
107	Microwetting of pH-Sensitive Surface and Anisotropic MoS <sub>2</sub> Surfaces Revealed by Femtoliter Sessile Droplets. <i>Langmuir</i> , 2016, 32, 11273-11279.	1.6	11
108	The effect of water molecules on the thiol collector interaction on the galena (PbS) and sphalerite (ZnS) surfaces: A DFT study. <i>Applied Surface Science</i> , 2016, 389, 103-111.	3.1	77



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109	Mechanistic Understanding of the Effect of Temperature and Salinity on the Water/Toluene Interfacial Tension. <i>Energy &amp; Fuels</i> , 2016, 30, 10228-10235.	2.5	32
110	CO <sub>2</sub> -to-CO conversion on layered perovskite with in situ exsolved Co-Fe alloy nanoparticles: an active and stable cathode for solid oxide electrolysis cells. <i>Journal of Materials Chemistry A</i> , 2016, 4, 17521-17528.	5.2	106
111	Simultaneous measurement of dynamic force and spatial thin film thickness between deformable and solid surfaces by integrated thin liquid film force apparatus. <i>Soft Matter</i> , 2016, 12, 9105-9114.	1.2	39
112	In situ probing the self-assembly of 3-hexyl-4-amino-1,2,4-triazole-5-thione on chalcopyrite surfaces. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2016, 511, 285-293.	2.3	42
113	Reduction of Water/Oil Interfacial Tension by Model Asphaltenes: The Governing Role of Surface Concentration. <i>Journal of Physical Chemistry B</i> , 2016, 120, 5646-5654.	1.2	105
114	Probing the Adsorption of Polycyclic Aromatic Compounds onto Water Droplets Using Molecular Dynamics Simulations. <i>Journal of Physical Chemistry C</i> , 2016, 120, 14170-14179.	1.5	19
115	Structural Evolutions of ZnS Nanoparticles in Hydrated and Bare States. <i>Journal of Physical Chemistry C</i> , 2016, 120, 7870-7884.	1.5	10
116	Interaction Mechanism of Oil-in-Water Emulsions with Asphaltenes Determined Using Droplet Probe AFM. <i>Langmuir</i> , 2016, 32, 2302-2310.	1.6	124
117	QCM-D study of nanoparticle interactions. <i>Advances in Colloid and Interface Science</i> , 2016, 233, 94-114.	7.0	145
118	A size-dependent structural evolution of ZnS nanoparticles. <i>Scientific Reports</i> , 2015, 5, 14267.	1.6	32
119	Probing the Interaction between Air Bubble and Sphalerite Mineral Surface Using Atomic Force Microscope. <i>Langmuir</i> , 2015, 31, 2438-2446.	1.6	90
120	Role of Caustic Addition in Bitumen-Clay Interactions. <i>Energy &amp; Fuels</i> , 2015, 29, 58-69.	2.5	39
121	Nanocomposites of graphene oxide, Ag nanoparticles, and magnetic ferrite nanoparticles for elemental mercury (Hg <sup>0</sup> ) removal. <i>RSC Advances</i> , 2015, 5, 15634-15640.	1.7	39
122	Measuring Forces and Spatiotemporal Evolution of Thin Water Films between an Air Bubble and Solid Surfaces of Different Hydrophobicity. <i>ACS Nano</i> , 2015, 9, 95-104.	7.3	164
123	Interaction between Air Bubbles and Superhydrophobic Surfaces in Aqueous Solutions. <i>Langmuir</i> , 2015, 31, 7317-7327.	1.6	80
124	Molecular and Surface Interactions between Polymer Flocculant Chitosan-polyacrylamide and Kaolinite Particles: Impact of Salinity. <i>Journal of Physical Chemistry C</i> , 2015, 119, 7327-7339.	1.5	61
125	Effects of salinity on xanthate adsorption on sphalerite and bubble-sphalerite interactions. <i>Minerals Engineering</i> , 2015, 77, 34-41.	1.8	37
126	Poly(acrylic acid) functionalized magnetic graphene oxide nanocomposite for removal of methylene blue. <i>RSC Advances</i> , 2015, 5, 32272-32282.	1.7	75



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127	Post-combustion CO <sub>2</sub> capture using polyethyleneimine impregnated mesoporous cellular foams. Separation and Purification Technology, 2015, 156, 259-268.	3.9	40
128	Study interactions between fine particles and micron size bubbles generated by hydrodynamic cavitation. Minerals Engineering, 2015, 84, 106-115.	1.8	48
129	Probing Anisotropic Surface Properties of Molybdenite by Direct Force Measurements. Langmuir, 2015, 31, 11409-11418.	1.6	68
130	Characteristics of pressure fluctuations and fine coal preparation in gas-vibro fluidized bed. Particology, 2015, 21, 146-153.	2.0	19
131	Interfacial Layer Properties of a Polyaromatic Compound and its Role in Stabilizing Water-in-Oil Emulsions. Langmuir, 2015, 31, 10382-10391.	1.6	41
132	Synthesis of Surface-Responsive Composite Particles by Dehydration of Water-in-Oil Emulsions. ACS Applied Materials & Interfaces, 2015, 7, 20631-20639.	4.0	16
133	A-site deficient La <sub>0.2</sub> Sr <sub>0.7</sub> TiO <sub>3</sub> anode material for proton conducting ethane fuel cell to cogenerate ethylene and electricity. Journal of Power Sources, 2015, 298, 23-29.	4.0	23
134	Reactive oily bubble technology for flotation of apatite, dolomite and quartz. International Journal of Mineral Processing, 2015, 134, 74-81.	2.6	74
135	Mineral carbon storage in pre-treated ultramafic ores. Minerals Engineering, 2015, 70, 43-54.	1.8	21
136	Study of N-isopropoxypropyl-N-ethoxycarbonyl thiourea adsorption on chalcopyrite using in situ SECM, ToF-SIMS and XPS. Journal of Colloid and Interface Science, 2015, 437, 42-49.	5.0	83
137	CHAPTER 11. Particle-Stabilized Emulsions in Heavy Oil Processing. RSC Soft Matter, 2014, , 283-316.	0.2	2
138	A comparison of different empirical potentials in ZnS. Modelling and Simulation in Materials Science and Engineering, 2014, 22, 085014.	0.8	8
139	Application of reactive oily bubbles to bastnaesite flotation. Minerals Engineering, 2014, 64, 139-145.	1.8	50
140	Microwave heating of ultramafic nickel ores and mineralogical effects. Minerals Engineering, 2014, 58, 22-25.	1.8	33
141	Current state of fine mineral tailings treatment: A critical review on theory and practice. Minerals Engineering, 2014, 58, 113-131.	1.8	270
142	Impact of gypsum supersaturated process water on the interactions between silica and zinc sulphide minerals. Minerals Engineering, 2014, 55, 172-180.	1.8	11
143	Problematic Stabilizing Films in Petroleum Emulsions: Shear Rheological Response of Viscoelastic Asphaltene Films and the Effect on Drop Coalescence. Langmuir, 2014, 30, 6730-6738.	1.6	121
144	Efficient removal of elemental mercury (Hg <sup>0</sup> ) by SBA-15-Ag adsorbents. Journal of Materials Chemistry A, 2014, 2, 17730-17734.	5.2	59

#	ARTICLE	IF	CITATIONS
145	Probing the Hydrophobic Interaction between Air Bubbles and Partially Hydrophobic Surfaces Using Atomic Force Microscopy. <i>Journal of Physical Chemistry C</i> , 2014, 118, 25000-25008.	1.5	108
146	Interaction of reactive oily bubble in flotation of bastnaesite. <i>Journal of Rare Earths</i> , 2014, 32, 772-778.	2.5	35
147	Ligand-promoted dissolution of serpentine in ultramafic nickel ores. <i>Minerals Engineering</i> , 2014, 64, 109-119.	1.8	10
148	Understanding interaction mechanisms between pentlandite and gangue minerals by zeta potential and surface force measurements. <i>Minerals Engineering</i> , 2014, 69, 15-23.	1.8	45
149	Probing Anisotropic Surface Properties and Interaction Forces of Chrysotile Rods by Atomic Force Microscopy and Rheology. <i>Langmuir</i> , 2014, 30, 10809-10817.	1.6	60
150	Surfactant-Free Switchable Emulsions Using CO <sub>2</sub> -Responsive Particles. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 6898-6904.	4.0	70
151	Highly Regenerable Mussel-Inspired Fe <sub>3</sub> O <sub>4</sub> @Polydopamine-Ag Core-Shell Microspheres as Catalyst and Adsorbent for Methylene Blue Removal. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 8845-8852.	4.0	385
152	Effect of microwave pre-treatment on ultramafic nickel ore slurry rheology. <i>Minerals Engineering</i> , 2014, 61, 97-104.	1.8	34
153	Water-dispersible magnetic nanoparticle-graphene oxide composites for selenium removal. <i>Carbon</i> , 2014, 77, 710-721.	5.4	165
154	Impact of gypsum supersaturated water on the uptake of copper and xanthate on sphalerite. <i>Minerals Engineering</i> , 2013, 49, 165-171.	1.8	18
155	Effect of solution salinity on settling of mineral tailings by polymer flocculants. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2013, 430, 29-38.	2.3	77
156	Impact of gypsum supersaturated solution on surface properties of silica and sphalerite minerals. <i>Minerals Engineering</i> , 2013, 46-47, 6-15.	1.8	19
157	String-like cooperative motion in homogeneous melting. <i>Journal of Chemical Physics</i> , 2013, 138, 12A538.	1.2	69
158	Understanding Copper Activation and Xanthate Adsorption on Sphalerite by Time-of-Flight Secondary Ion Mass Spectrometry, X-ray Photoelectron Spectroscopy, and in Situ Scanning Electrochemical Microscopy. <i>Journal of Physical Chemistry C</i> , 2013, 117, 20089-20097.	1.5	55
159	Cryo-XPS study of xanthate adsorption on pyrite. <i>Surface and Interface Analysis</i> , 2013, 45, 805-810.	0.8	38
160	Probing Molecular and Surface Interactions of Comb-Type Polymer Polystyrene-graft-poly(ethylene oxide) (PS-g-PEO) with an SFA. <i>Journal of Physical Chemistry C</i> , 2012, 116, 17554-17562.	1.5	25
161	Novel Magnetic Demulsifier for Water Removal from Diluted Bitumen Emulsion. <i>Energy &amp; Fuels</i> , 2012, 26, 2705-2710.	2.5	125
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163	Synthesis of Interfacially Active and Magnetically Responsive Nanoparticles for Multiphase Separation Applications. <i>Advanced Functional Materials</i> , 2012, 22, 1732-1740.	7.8	131
164	In situ kinetic study of zinc sulfide activation using a quartz crystal microbalance with dissipation (QCM-D). <i>Journal of Colloid and Interface Science</i> , 2012, 368, 512-520.	5.0	37
165	Effect of polycarboxylate ether comb-type polymer on viscosity and interfacial properties of kaolinite clay suspensions. <i>Journal of Colloid and Interface Science</i> , 2012, 378, 222-231.	5.0	54
166	Carbon capture and storage using alkaline industrial wastes. <i>Progress in Energy and Combustion Science</i> , 2012, 38, 302-320.	15.8	436
167	Role of Dissolving Carbon Dioxide in Densification of Oil Sands Tailings. <i>Energy &amp; Fuels</i> , 2011, 25, 2049-2057.	2.5	14
168	Understanding the Deposition and Surface Interactions of Gypsum. <i>Journal of Physical Chemistry C</i> , 2011, 115, 17485-17494.	1.5	31
169	A Novel Two-Step Silica-Coating Process for Engineering Magnetic Nanocomposites. <i>Chemistry of Materials</i> , 1998, 10, 3936-3940.	3.2	239
170	Silanation and stability of 3-aminopropyl triethoxy silane on nanosized superparamagnetic particles: I. Direct silanation. <i>Applied Surface Science</i> , 1997, 120, 269-278.	3.1	136
171	Functionalization and applications of nanosized $\hat{3}$ -Fe <sub>2</sub> O <sub>3</sub> particles. <i>Journal of Applied Physics</i> , 1996, 79, 4702.	1.1	39
172	Wetting of Mercury Surfaces by Halide Electrolyte Solutions. <i>Langmuir</i> , 1996, 12, 547-554.	1.6	13
173	Effect of gas nuclei on the filtration of fine particles with different surface properties. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 1996, 113, 67-77.	2.3	12
174	Self-Assembled Monolayer Coatings on Nanosized Magnetic Particles Using 16-Mercaptohexadecanoic Acid. <i>Langmuir</i> , 1995, 11, 4617-4622.	1.6	91
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176	Selective collection of non-magnetic rutile and quartz by means of a magnetic reagent by HGMS. <i>IEEE Transactions on Magnetics</i> , 1994, 30, 4668-4670.	1.2	4
177	Fine particle processing by magnetic carrier methods. <i>Minerals Engineering</i> , 1994, 7, 449-463.	1.8	36
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