

Qingxia Liu

List of Publications by Year in descending order

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178
papers

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44069

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178
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178
times ranked

8380
citing authors

#	ARTICLE	IF	CITATIONS
1	Shape-Dependent Electrocatalytic Reduction of CO ₂ to CO on Triangular Silver Nanoplates. <i>Journal of the American Chemical Society</i> , 2017, 139, 2160-2163.	13.7	551
2	Carbon capture and storage using alkaline industrial wastes. <i>Progress in Energy and Combustion Science</i> , 2012, 38, 302-320.	31.2	436
3	Highly Regenerable Mussel-Inspired Fe ₃ O ₄ @Polydopamine-Ag Core-Shell Microspheres as Catalyst and Adsorbent for Methylene Blue Removal. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 8845-8852.	8.0	385
4	Current state of fine mineral tailings treatment: A critical review on theory and practice. <i>Minerals Engineering</i> , 2014, 58, 113-131.	4.3	270
5	A Novel Two-Step Silica-Coating Process for Engineering Magnetic Nanocomposites. <i>Chemistry of Materials</i> , 1998, 10, 3936-3940.	6.7	239
6	Highly Stable and Efficient Catalyst with In Situ Exsolved Fe-Ni Alloy Nanospheres Socketed on an Oxygen Deficient Perovskite for Direct CO ₂ Electrolysis. <i>ACS Catalysis</i> , 2016, 6, 6219-6228.	11.2	206
7	Water-dispersible magnetic nanoparticle-graphene oxide composites for selenium removal. <i>Carbon</i> , 2014, 77, 710-721.	10.3	165
8	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.	14.6	164
9	QCM-D study of nanoparticle interactions. <i>Advances in Colloid and Interface Science</i> , 2016, 233, 94-114.	14.7	145
10	Oxidant-Induced High-Efficient Mussel-Inspired Modification on PVDF Membrane with Superhydrophilicity and Underwater Superoleophobicity Characteristics for Oil/Water Separation. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 8297-8307.	8.0	139
11	Silanation and stability of 3-aminopropyl triethoxy silane on nanosized superparamagnetic particles: I. Direct silanation. <i>Applied Surface Science</i> , 1997, 120, 269-278.	6.1	136
12	Synthesis of Interfacially Active and Magnetically Responsive Nanoparticles for Multiphase Separation Applications. <i>Advanced Functional Materials</i> , 2012, 22, 1732-1740.	14.9	131
13	Novel Magnetic Demulsifier for Water Removal from Diluted Bitumen Emulsion. <i>Energy & Fuels</i> , 2012, 26, 2705-2710.	5.1	125
14	Interaction Mechanism of Oil-in-Water Emulsions with Asphaltenes Determined Using Droplet Probe AFM. <i>Langmuir</i> , 2016, 32, 2302-2310.	3.5	124
15	Problematic Stabilizing Films in Petroleum Emulsions: Shear Rheological Response of Viscoelastic Asphaltene Films and the Effect on Drop Coalescence. <i>Langmuir</i> , 2014, 30, 6730-6738.	3.5	121
16	Surface Interaction of Water-in-Oil Emulsion Droplets with Interfacially Active Asphaltenes. <i>Langmuir</i> , 2017, 33, 1265-1274.	3.5	110
17	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.	3.1	108
18	CO ₂ -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.	10.3	106

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19	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.	2.6	105
20	Self-Assembled Monolayer Coatings on Nanosized Magnetic Particles Using 16-Mercaptohexadecanoic Acid. <i>Langmuir</i> , 1995, 11, 4617-4622.	3.5	91
21	Fractionation of Asphaltenes in Understanding Their Role in Petroleum Emulsion Stability and Fouling. <i>Energy & Fuels</i> , 2017, 31, 3330-3337.	5.1	91
22	Probing the Interaction between Air Bubble and Sphalerite Mineral Surface Using Atomic Force Microscope. <i>Langmuir</i> , 2015, 31, 2438-2446.	3.5	90
23	Dendrimer functionalized graphene oxide for selenium removal. <i>Carbon</i> , 2016, 105, 655-664.	10.3	90
24	Study of N-isopropoxypropyl-N ^ε -ethoxycarbonyl thiourea adsorption on chalcopyrite using in situ SECM, ToF-SIMS and XPS. <i>Journal of Colloid and Interface Science</i> , 2015, 437, 42-49.	9.4	83
25	Interaction between Air Bubbles and Superhydrophobic Surfaces in Aqueous Solutions. <i>Langmuir</i> , 2015, 31, 7317-7327.	3.5	80
26	The excellence of La(Sr)Fe(Ni)O ₃ as an active and efficient cathode for direct CO ₂ electrochemical reduction at elevated temperatures. <i>Journal of Materials Chemistry A</i> , 2017, 5, 2673-2680.	10.3	78
27	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.	4.7	77
28	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.	3.5	77
29	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.	6.1	77
30	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.	4.6	76
31	Poly(acrylic acid) functionalized magnetic graphene oxide nanocomposite for removal of methylene blue. <i>RSC Advances</i> , 2015, 5, 32272-32282.	3.6	75
32	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.	12.7	75
33	Reactive oily bubble technology for flotation of apatite, dolomite and quartz. <i>International Journal of Mineral Processing</i> , 2015, 134, 74-81.	2.6	74
34	Coalescence of Bubbles with Mobile Interfaces in Water. <i>Physical Review Letters</i> , 2019, 122, 194501.	7.8	73
35	Surfactant-Free Switchable Emulsions Using CO ₂ -Responsive Particles. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 6898-6904.	8.0	70
36	String-like cooperative motion in homogeneous melting. <i>Journal of Chemical Physics</i> , 2013, 138, 12A538.	3.0	69

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37	Probing Anisotropic Surface Properties of Molybdenite by Direct Force Measurements. <i>Langmuir</i> , 2015, 31, 11409-11418.	3.5	68
38	Interaction Mechanisms between Air Bubble and Molybdenite Surface: Impact of Solution Salinity and Polymer Adsorption. <i>Langmuir</i> , 2017, 33, 2353-2361.	3.5	67
39	Polyamine-modified magnetic graphene oxide nanocomposite for enhanced selenium removal. <i>Separation and Purification Technology</i> , 2017, 183, 249-257.	7.9	66
40	Wetting at the nanoscale: A molecular dynamics study. <i>Journal of Chemical Physics</i> , 2017, 146, 114704.	3.0	64
41	Molecular and Surface Interactions between Polymer Flocculant Chitosan- <i>g</i> -polyacrylamide and Kaolinite Particles: Impact of Salinity. <i>Journal of Physical Chemistry C</i> , 2015, 119, 7327-7339.	3.1	61
42	Probing Anisotropic Surface Properties and Interaction Forces of Chrysotile Rods by Atomic Force Microscopy and Rheology. <i>Langmuir</i> , 2014, 30, 10809-10817.	3.5	60
43	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.	20.2	60
44	Efficient removal of elemental mercury (Hg ⁰) by SBA-15-Ag adsorbents. <i>Journal of Materials Chemistry A</i> , 2014, 2, 17730-17734.	10.3	59
45	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.	3.1	55
46	Mapping the Nanoscale Heterogeneity of Surface Hydrophobicity on the Sphalerite Mineral. <i>Journal of Physical Chemistry C</i> , 2017, 121, 5620-5628.	3.1	55
47	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.	9.4	54
48	Interface-Induced Electrocatalytic Enhancement of CO ₂ to Formate Conversion on Heterostructured Bismuth-Based Catalysts. <i>Small</i> , 2022, 18, e2105682.	10.0	53
49	Application of reactive oily bubbles to bastnaesite flotation. <i>Minerals Engineering</i> , 2014, 64, 139-145.	4.3	50
50	Study interactions between fine particles and micron size bubbles generated by hydrodynamic cavitation. <i>Minerals Engineering</i> , 2015, 84, 106-115.	4.3	48
51	Probing Surface Interactions of Electrochemically Active Galena Mineral Surface Using Atomic Force Microscopy. <i>Journal of Physical Chemistry C</i> , 2016, 120, 22433-22442.	3.1	48
52	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.	12.7	48
53	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.	4.7	47
54	Interactions between elemental selenium and hydrophilic/hydrophobic surfaces: Direct force measurements using AFM. <i>Chemical Engineering Journal</i> , 2016, 303, 646-654.	12.7	47

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55	Understanding interaction mechanisms between pentlandite and gangue minerals by zeta potential and surface force measurements. <i>Minerals Engineering</i> , 2014, 69, 15-23.	4.3	45
56	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.	3.1	45
57	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.	4.7	42
58	Interfacial Layer Properties of a Polyaromatic Compound and its Role in Stabilizing Water-in-Oil Emulsions. <i>Langmuir</i> , 2015, 31, 10382-10391.	3.5	41
59	Post-combustion CO ₂ capture using polyethyleneimine impregnated mesoporous cellular foams. <i>Separation and Purification Technology</i> , 2015, 156, 259-268.	7.9	40
60	Functionalization and applications of nanosized ⁵⁷ Fe-Fe ₂ O ₃ particles. <i>Journal of Applied Physics</i> , 1996, 79, 4702.	2.5	39
61	Role of Caustic Addition in Bitumen-Clay Interactions. <i>Energy & Fuels</i> , 2015, 29, 58-69.	5.1	39
62	Nanocomposites of graphene oxide, Ag nanoparticles, and magnetic ferrite nanoparticles for elemental mercury (Hg ⁰) removal. <i>RSC Advances</i> , 2015, 5, 15634-15640.	3.6	39
63	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.	2.7	39
64	A Molecular Dynamics Study of the Effect of Asphaltenes on Toluene/Water Interfacial Tension: Surfactant or Solute?. <i>Energy & Fuels</i> , 2018, 32, 3225-3231.	5.1	39
65	Cryo-XPS study of xanthate adsorption on pyrite. <i>Surface and Interface Analysis</i> , 2013, 45, 805-810.	1.8	38
66	Mechanistic Understanding of Asphaltene Surface Interactions in Aqueous Media. <i>Energy & Fuels</i> , 2017, 31, 3348-3357.	5.1	38
67	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.	9.4	37
68	Effects of salinity on xanthate adsorption on sphalerite and bubble-sphalerite interactions. <i>Minerals Engineering</i> , 2015, 77, 34-41.	4.3	37
69	Fine particle processing by magnetic carrier methods. <i>Minerals Engineering</i> , 1994, 7, 449-463.	4.3	36
70	Interaction of reactive oily bubble in flotation of bastnaesite. <i>Journal of Rare Earths</i> , 2014, 32, 772-778.	4.8	35
71	CO ₂ -responsive surfactants with tunable switching pH. <i>Journal of Colloid and Interface Science</i> , 2019, 557, 185-195.	9.4	35
72	Treatment of oily wastewaters using magnetic Janus nanoparticles of asymmetric surface wettability. <i>Journal of Colloid and Interface Science</i> , 2020, 568, 207-220.	9.4	35

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73	Effect of microwave pre-treatment on ultramafic nickel ore slurry rheology. <i>Minerals Engineering</i> , 2014, 61, 97-104.	4.3	34
74	Microwave heating of ultramafic nickel ores and mineralogical effects. <i>Minerals Engineering</i> , 2014, 58, 22-25.	4.3	33
75	A size-dependent structural evolution of ZnS nanoparticles. <i>Scientific Reports</i> , 2015, 5, 14267.	3.3	32
76	Mechanistic Understanding of the Effect of Temperature and Salinity on the Water/Toluene Interfacial Tension. <i>Energy & Fuels</i> , 2016, 30, 10228-10235.	5.1	32
77	Dynamic Interaction between a Millimeter-Sized Bubble and Surface Microbubbles in Water. <i>Langmuir</i> , 2018, 34, 11667-11675.	3.5	32
78	Understanding the Deposition and Surface Interactions of Gypsum. <i>Journal of Physical Chemistry C</i> , 2011, 115, 17485-17494.	3.1	31
79	The most stable state of a droplet on anisotropic patterns: support for a missing link. <i>Surface Innovations</i> , 2018, 6, 133-140.	2.3	31
80	Anisotropic Polymer Adsorption on Molybdenite Basal and Edge Surfaces and Interaction Mechanism With Air Bubbles. <i>Frontiers in Chemistry</i> , 2018, 6, 361.	3.6	29
81	Advanced Switchable Molecules and Materials for Oil Recovery and Oily Waste Cleanup. <i>Advanced Science</i> , 2021, 8, e2004082.	11.2	28
82	An Evaluation of the van Oss-Chaudhury-Good Equation and Neumann's Equation of State Approach with Mercury Substrate. <i>Langmuir</i> , 1995, 11, 1044-1046.	3.5	27
83	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.	3.1	27
84	Role of mineral flotation technology in improving bitumen extraction from mined Athabasca oil sands. II. Flotation hydrodynamics of water-based oil sand extraction. <i>Canadian Journal of Chemical Engineering</i> , 2020, 98, 330-352.	1.7	26
85	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.	18.0	26
86	Probing Molecular and Surface Interactions of Comb-Type Polymer Polystyrene- <i>graft</i> -poly(ethylene oxide) (PS- <i>g</i> -PEO) with an SFA. <i>Journal of Physical Chemistry C</i> , 2012, 116, 17554-17562.	3.1	25
87	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.	8.2	24
88	A-site deficient La _{0.2} Sr _{0.7} TiO ₃ anode material for proton conducting ethane fuel cell to cogenerate ethylene and electricity. <i>Journal of Power Sources</i> , 2015, 298, 23-29.	7.8	23
89	Adsorption-Based Synthesis of Magnetically Responsive and Interfacially Active Composite Nanoparticles for Dewatering of Water-in-Diluted Bitumen Emulsions. <i>Energy & Fuels</i> , 2018, 32, 8078-8089.	5.1	23
90	Coalescence or Bounce? How Surfactant Adsorption in Milliseconds Affects Bubble Collision. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 5662-5666.	4.6	23

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91	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.	3.1	23
92	Microwave Treatment of Ultramafic Nickel Ores: Heating Behavior, Mineralogy, and Comminution Effects. <i>Minerals (Basel, Switzerland)</i> , 2018, 8, 524.	2.0	22
93	Mineral carbon storage in pre-treated ultramafic ores. <i>Minerals Engineering</i> , 2015, 70, 43-54.	4.3	21
94	Probing interactions between sphalerite and hydrophobic/hydrophilic surfaces: Effect of water chemistry. <i>Powder Technology</i> , 2017, 320, 511-518.	4.2	21
95	CO ₂ 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.	4.7	21
96	Probing Boundary Conditions at Hydrophobic Solid-Water Interfaces by Dynamic Film Drainage Measurement. <i>Langmuir</i> , 2018, 34, 12025-12035.	3.5	21
97	Probing Anisotropic Surface Properties of Illite by Atomic Force Microscopy. <i>Langmuir</i> , 2019, 35, 6532-6539.	3.5	21
98	Cellulose-coated magnetic Janus nanoparticles for dewatering of crude oil emulsions. <i>Chemical Engineering Science</i> , 2021, 230, 116215.	3.8	20
99	Impact of gypsum supersaturated solution on surface properties of silica and sphalerite minerals. <i>Minerals Engineering</i> , 2013, 46-47, 6-15.	4.3	19
100	Characteristics of pressure fluctuations and fine coal preparation in gas-vibro fluidized bed. <i>Particuology</i> , 2015, 21, 146-153.	3.6	19
101	Role of Preconditioning Cationic Zetag Flocculant in Enhancing Mature Fine Tailings Flocculation. <i>Energy & Fuels</i> , 2016, 30, 5223-5231.	5.1	19
102	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.	3.1	19
103	Study of the Role of Sodium Citrate in Bitumen Liberation. <i>Energy & Fuels</i> , 2019, 33, 8271-8278.	5.1	19
104	Impact of gypsum supersaturated water on the uptake of copper and xanthate on sphalerite. <i>Minerals Engineering</i> , 2013, 49, 165-171.	4.3	18
105	Direct Measurements of Adhesion Forces for Water Droplets in Contact with Smooth and Patterned Polymers. <i>Surface Innovations</i> , 0, , 1-52.	2.3	18
106	Effects of Thickness and Adsorption of Airborne Hydrocarbons on Wetting Properties of MoS ₂ : An Atomistic Simulation Study. <i>Journal of Physical Chemistry C</i> , 2018, 122, 6737-6747.	3.1	18
107	Interaction Between the Cyclopentane Hydrate Particle and Water Droplet in Hydrocarbon Oil. <i>Langmuir</i> , 2020, 36, 2063-2070.	3.5	18
108	Synthesis of Surface-Responsive Composite Particles by Dehydration of Water-in-Oil Emulsions. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 20631-20639.	8.0	16

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109	Molecular Dynamics Study of Hydrophilic Sphalerite (110) Surface as Modified by Normal and Branched Butylthiols. <i>Langmuir</i> , 2018, 34, 3363-3373.	3.5	16
110	Unraveling Interaction Mechanisms between Molybdenite and a Dodecane Oil Droplet Using Atomic Force Microscopy. <i>Langmuir</i> , 2019, 35, 6024-6031.	3.5	16
111	Line tensions of galena (001) and sphalerite (110) surfaces: A molecular dynamics study. <i>Journal of Molecular Liquids</i> , 2017, 248, 634-642.	4.9	15
112	Role of Dissolving Carbon Dioxide in Densification of Oil Sands Tailings. <i>Energy & Fuels</i> , 2011, 25, 2049-2057.	5.1	14
113	Separation of pyrite from chalcopyrite and molybdenite by using selective collector of N-isopropoxypropyl-N-ethoxycarbonyl thiourea in high salinity water. <i>Minerals Engineering</i> , 2017, 100, 93-98.	4.3	14
114	Biodiesel-Assisted Ambient Aqueous Bitumen Extraction (BA ³ BE) from Athabasca Oil Sands. <i>Energy & Fuels</i> , 2018, 32, 6565-6576.	5.1	14
115	Face or Edge? Control of Molybdenite Surface Interactions with Divalent Cations. <i>Journal of Physical Chemistry C</i> , 2020, 124, 372-381.	3.1	14
116	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.	9.4	14
117	Wetting of Mercury Surfaces by Halide Electrolyte Solutions. <i>Langmuir</i> , 1996, 12, 547-554.	3.5	13
118	Dewatering Bitumen Emulsions Using Interfacially Active Organic Composite Absorbent Particles. <i>Energy & Fuels</i> , 2016, 30, 5253-5258.	5.1	13
119	Surface forces in unconventional oil processing. <i>Current Opinion in Colloid and Interface Science</i> , 2017, 27, 63-73.	7.4	13
120	Contributions of van der Waals Interactions and Hydrophobic Attraction to Molecular Adhesions on a Hydrophobic MoS ₂ Surface in Water. <i>Langmuir</i> , 2018, 34, 14196-14203.	3.5	13
121	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.	4.7	12
122	Janus membrane emulsification for facile preparation of hollow microspheres. <i>Journal of Membrane Science</i> , 2019, 592, 117384.	8.2	12
123	Effects of hydrothermal dewatering of lignite on rheology of coal water slurry. <i>Canadian Journal of Chemical Engineering</i> , 2019, 97, 323-329.	1.7	12
124	Cavitation Nuclei Regeneration in a Water-Particle Suspension. <i>Physical Review Letters</i> , 2020, 124, 034501.	7.8	12
125	Impact of gypsum supersaturated process water on the interactions between silica and zinc sulphide minerals. <i>Minerals Engineering</i> , 2014, 55, 172-180.	4.3	11
126	Microwetting of pH-Sensitive Surface and Anisotropic MoS ₂ Surfaces Revealed by Femtoliter Sessile Droplets. <i>Langmuir</i> , 2016, 32, 11273-11279.	3.5	11

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127	Single-Molecule MoS ₂ Polymer Interaction and Efficient Aqueous Exfoliation of MoS ₂ into Single Layer. <i>Journal of Physical Chemistry C</i> , 2018, 122, 8262-8269.	3.1	11
128	Bubbles with tunable mobility of surfaces in ethanol-NaCl aqueous solutions. <i>Journal of Colloid and Interface Science</i> , 2019, 556, 345-351.	9.4	11
129	Stimuli-Responsive Hybrid Polymer for Enhanced Solid-Liquid Separation of Industrial Effluents. <i>Environmental Science & Technology</i> , 2019, 53, 6436-6443.	10.0	11
130	Selective aggregation by ultrasonic standing waves through gas nuclei on the particle surface. <i>Ultrasonics Sonochemistry</i> , 2020, 63, 104924.	8.2	11
131	Toward efficient interactions of bubbles and coal particles induced by stable cavitation bubbles under 600 kHz ultrasonic standing waves. <i>Ultrasonics Sonochemistry</i> , 2020, 64, 105003.	8.2	11
132	Control of nanostructures through pH-dependent self-assembly of nanoplatelets. <i>Journal of Colloid and Interface Science</i> , 2021, 582, 439-445.	9.4	11
133	Adhesion-Shielding based synthesis of interfacially active magnetic Janus nanoparticles. <i>Journal of Colloid and Interface Science</i> , 2022, 607, 1741-1753.	9.4	11
134	Ligand-promoted dissolution of serpentine in ultramafic nickel ores. <i>Minerals Engineering</i> , 2014, 64, 109-119.	4.3	10
135	Structural Evolutions of ZnS Nanoparticles in Hydrated and Bare States. <i>Journal of Physical Chemistry C</i> , 2016, 120, 7870-7884.	3.1	10
136	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.	3.0	10
137	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.	3.1	10
138	Pseudo-Gemini Biosurfactants with CO ₂ Switchability for Enhanced Oil Recovery (EOR). <i>Tenside, Surfactants, Detergents</i> , 2019, 56, 407-416.	1.2	10
139	Probing Single-Molecule Adhesion of a Stimuli Responsive Oligo(ethylene glycol) Methacrylate Copolymer on a Molecularly Smooth Hydrophobic MoS ₂ Basal Plane Surface. <i>Langmuir</i> , 2017, 33, 10429-10438.	3.5	9
140	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.	3.1	9
141	Unraveling Polymorphic Pyrrhotite Electrochemical Oxidation by Underlying Electronic Structures. <i>Journal of Physical Chemistry C</i> , 2019, 123, 26442-26449.	3.1	9
142	Enhancement of selective fine particle flotation by microbubbles generated through hydrodynamic cavitation. <i>Powder Technology</i> , 2022, 405, 117502.	4.2	9
143	A comparison of different empirical potentials in ZnS. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2014, 22, 085014.	2.0	8
144	Probing Bitumen Liberation by a Quartz Crystal Microbalance with Dissipation. <i>Energy & Fuels</i> , 2018, 32, 7451-7457.	5.1	8

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145	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.	3.1	8
146	Modeling of cavitating flows past a micro-sized particle. <i>International Journal of Multiphase Flow</i> , 2020, 128, 103276.	3.4	8
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