

Zhenghe Xu

List of Publications by Year in descending order

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549
papers

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citations

6613
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all docs

560
docs citations

560
times ranked

20661
citing authors

#	ARTICLE	IF	CITATIONS
1	Adhesion-Shielding based synthesis of interfacially active magnetic Janus nanoparticles. Journal of Colloid and Interface Science, 2022, 607, 1741-1753.	9.4	11
2	A critical evaluation of novel demulsifying agents based on acrylic terpolymers for Mexican heavy crude oils dehydration. Separation and Purification Technology, 2022, 281, 119878.	7.9	13
3	Fullerene-like elastic carbon coatings on silicon nanoparticles by solvent controlled association of natural polyaromatic molecules as high-performance lithium-ion battery anodes. Energy Storage Materials, 2022, 45, 412-421.	18.0	26
4	CO ₂ -responsive surfactants for greener extraction of heavy oil: A bench-scale demonstration. Journal of Cleaner Production, 2022, 338, 130554.	9.3	11
5	Functionalization of mesoporous carbons derived from pomelo peel as capacitive electrodes for preferential removal/recovery of copper and lead from contaminated water. Chemical Engineering Journal, 2022, 433, 134508.	12.7	20
6	Hierarchical mesoporous heteroatom-doped carbon accelerating the adsorption and conversion of polysulfide for high performance Lithium-Sulfur batteries. Composites Communications, 2022, 30, 101079.	6.3	15
7	Comprehensive treatment of oil-contaminated soils using CO ₂ -Responsive O/W microemulsions. Journal of Cleaner Production, 2022, 341, 130857.	9.3	7
8	Electric potential-determined redox intermediates for effective recycling of spent lithium-ion batteries. Green Chemistry, 2022, 24, 3723-3735.	9.0	10
9	Enhancing low-temperature thermal remediation of petroleum sludge by solvent deasphalting. Chemosphere, 2022, 304, 135278.	8.2	1
10	Molecular structure-tuned stability and switchability of CO ₂ -responsive oil-in-water emulsions. Journal of Colloid and Interface Science, 2022, 627, 661-670.	9.4	8
11	Control of nanostructures through pH-dependent self-assembly of nanoplatelets. Journal of Colloid and Interface Science, 2021, 582, 439-445.	9.4	11
12	Alkylacrylic-carboxyalkylacrylic random bipolymers as demulsifiers for heavy crude oils. Separation and Purification Technology, 2021, 256, 117850.	7.9	9
13	Cellulose-coated magnetic Janus nanoparticles for dewatering of crude oil emulsions. Chemical Engineering Science, 2021, 230, 116215.	3.8	20
14	Enhancing oil-solid and oil-water separation in heavy oil recovery by CO ₂ -responsive surfactants. AIChE Journal, 2021, 67, .	3.6	21
15	The effect of chitosan molecular weight on CO ₂ -triggered switching between emulsification and demulsification. Soft Matter, 2021, 17, 9332-9338.	2.7	2
16	Probing Specific Adsorption of Electrolytes at Kaolinite-Aqueous Interfaces by Atomic Force Microscopy. Journal of Physical Chemistry Letters, 2021, 12, 2406-2412.	4.6	7
17	Inward Flow of Intervening Liquid Films Driven by the Marangoni Effect during Bubble-Solid Collisions in Ethyl Alcohol-NaCl Aqueous Solutions. Langmuir, 2021, 37, 4121-4128.	3.5	1
18	Advanced Switchable Molecules and Materials for Oil Recovery and Oily Waste Cleanup. Advanced Science, 2021, 8, e2004082.	11.2	28

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19	Magnetic multi-functional SBA-15 supported silver nanocomposites: Synthesis, characterization and application. <i>Applied Surface Science</i> , 2021, 552, 149487.	6.1	12
20	Extra Sodiation Sites in Hard Carbon for High Performance Sodium Ion Batteries. <i>Small Methods</i> , 2021, 5, e2100580.	8.6	40
21	Dewetting dynamics of heavy crude oil droplet in low-salinity fluids at elevated pressures and temperatures. <i>Journal of Colloid and Interface Science</i> , 2021, 596, 420-430.	9.4	14
22	Water Film Drainage between a Very Viscous Oil Drop and a Mica Surface. <i>Physical Review Letters</i> , 2021, 127, 124503.	7.8	6
23	A lattice defect-inspired leaching strategy toward simultaneous recovery and separation of value metals from spent cathode materials. <i>Waste Management</i> , 2021, 135, 40-46.	7.4	9
24	Study on demulsifier crude oil interactions at oil-water interface for crude oil dehydration. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 630, 127526.	4.7	19
25	Surfactant and surfactant-polymer effects on wettability and crude oil liberation in carbonates. <i>Journal of Petroleum Science and Engineering</i> , 2021, 207, 109117.	4.2	17
26	Corrosion rate studies of AISI 1020 steel using linear, cyclic, and aromatic naphthenic acid standards. <i>Journal of Petroleum Science and Engineering</i> , 2020, 184, 106474.	4.2	7
27	New insights into the slime coating caused by montmorillonite in the flotation of coal. <i>Journal of Cleaner Production</i> , 2020, 242, 118540.	9.3	60
28	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
29	Determination of clay content in Canadian oil sands using x-ray fluorescence spectroscopy for diagnosis of ore processability. <i>Canadian Journal of Chemical Engineering</i> , 2020, 98, 360-372.	1.7	6
30	Effect of electrolytes on interactions between a novel organic-inorganic hybrid polymer flocculant and kaolinite particles. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 590, 124391.	4.7	7
31	Probing Interaction of Divalent Cations with Illite Basal Surfaces by Atomic Force Microscopy. <i>Journal of Physical Chemistry C</i> , 2020, 124, 2079-2087.	3.1	6
32	The boundary condition at the air-liquid interface and its effect on film drainage between colliding bubbles. <i>Current Opinion in Colloid and Interface Science</i> , 2020, 50, 101374.	7.4	17
33	Molecular Characterization of Strongly and Weakly Interfacially Active Asphaltenes by High-Resolution Mass Spectrometry. <i>Energy & Fuels</i> , 2020, 34, 13966-13976.	5.1	23
34	Comprehensive study on cleaner production of heavy oil from Athabasca oil sands using chemical additives in biodiesel-assisted ambient-aqueous bitumen extraction process. <i>Journal of Cleaner Production</i> , 2020, 277, 122940.	9.3	14
35	Microscale Effects of Polymer on Wettability Alteration in Carbonates. <i>SPE Journal</i> , 2020, 25, 1884-1894.	3.1	22
36	Aggregation Behavior of E-SARA Asphaltene Fractions Studied by Small-Angle Neutron Scattering. <i>Energy & Fuels</i> , 2020, 34, 6894-6903.	5.1	25

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37	Structure and reactivity of flotation reagents. , 2020, , 181-236.		1
38	Role of surfactants in spontaneous displacement of high viscosity oil droplets from solid surfaces in aqueous solutions. Journal of Colloid and Interface Science, 2020, 579, 898-908.	9.4	18
39	Self-assembly and solubility properties of polyaromatic compounds studied by molecular dynamics simulation. Fuel, 2020, 277, 118060.	6.4	16
40	Perspectives on the Active Sites and Catalyst Design for the Hydrogenation of Dimethyl Oxalate. ACS Catalysis, 2020, 10, 4465-4490.	11.2	69
41	Revealing Mechanism of Li_3PO_4 Coating Suppressed Surface Oxygen Release for Commercial Ni-Rich Layered Cathodes. ACS Applied Energy Materials, 2020, 3, 7445-7455.	5.1	58
42	Treatment of oily wastewaters using magnetic Janus nanoparticles of asymmetric surface wettability. Journal of Colloid and Interface Science, 2020, 568, 207-220.	9.4	35
43	Interaction Between the Cyclopentane Hydrate Particle and Water Droplet in Hydrocarbon Oil. Langmuir, 2020, 36, 2063-2070.	3.5	18
44	Dehydrating Heavy Crude Oils with New Amphoteric Block Bipolymers. Energy & Fuels, 2020, 34, 4307-4317.	5.1	8
45	$\text{Li}_{1.2}\text{Ni}_{0.25}\text{Mn}_{0.55}\text{O}_2$: A high-capacity cathode material with a homogeneous monoclinic Li_2MnO_3 -like superstructure. Journal of Alloys and Compounds, 2020, 827, 154202.	5.5	19
46	Effect of Velocity, Solid Wettability, and Temperature on Drainage Dynamics of $\text{C}_{50}\text{PeC}_{11}$ -in-Toluene Liquid Films between Silica and Water Droplet. Energy & Fuels, 2020, 34, 6834-6843.	5.1	5
47	A novel method for screening deep eutectic solvent to recycle the cathode of Li-ion batteries. Green Chemistry, 2020, 22, 4473-4482.	9.0	158
48	Smartwater Effects on Wettability, Adhesion, and Oil Liberation in Carbonates. SPE Journal, 2020, 25, 1771-1783.	3.1	10
49	Microscale Interactions of Surfactant and Polymer Chemicals at Crude Oil/Water Interface for Enhanced Oil Recovery. SPE Journal, 2020, 25, 1812-1826.	3.1	7
50	Interaction of flotation reagents with mineral surface. , 2020, , 237-305.		0
51	Coalescence or Bounce? How Surfactant Adsorption in Milliseconds Affects Bubble Collision. Journal of Physical Chemistry Letters, 2019, 10, 5662-5666.	4.6	23
52	Deformation behavior and constitutive model for high temperature compression of a newly type of Ni_{3}Al -based superalloy. Materialwissenschaft Und Werkstofftechnik, 2019, 50, 1094-1105.	0.9	0
53	Covalent bonding of MnO_2 onto graphene aerogel forwards: Efficiently catalytic degradation of organic wastewater. Applied Surface Science, 2019, 496, 143585.	6.1	28
54	Revelation of the Nature of the Ligand-PbS Bond and Its Implication on Chemical Functionalization of PbS. Journal of Physical Chemistry C, 2019, 123, 22981-22988.	3.1	2

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55	CO ₂ -responsive surfactants with tunable switching pH. Journal of Colloid and Interface Science, 2019, 557, 185-195.	9.4	35
56	DROP IMPACT ONTO A CANTILEVER BEAM: BEHAVIOR OF THE LAMELLA AND FORCE MEASUREMENT. Interfacial Phenomena and Heat Transfer, 2019, 7, 85-96.	0.8	8
57	Bubbles with tunable mobility of surfaces in ethanol-NaCl aqueous solutions. Journal of Colloid and Interface Science, 2019, 556, 345-351.	9.4	11
58	Temperature and CO ₂ Dual-Responsive Pickering Emulsions Using Jeffamine M2005-Modified Cellulose Nanocrystals. Langmuir, 2019, 35, 13663-13670.	3.5	32
59	Polyetheramine as an alternative alkali for alkali/surfactant/polymer flooding. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2019, 581, 123820.	4.7	7
60	Two-dimensional correlation analysis of continuous online in situ ATR-FTIR on the adsorption of heptyl xanthate at the surface of ZnS and Pb(II) activated ZnS. Minerals Engineering, 2019, 144, 106019.	4.3	9
61	Study of Venturi tube geometry on the hydrodynamic cavitation for the generation of microbubbles. Minerals Engineering, 2019, 132, 268-274.	4.3	85
62	Molecular Mechanisms of Suppressing Asphaltene Aggregation and Flocculation by Dodecylbenzenesulfonic Acid Probed by Molecular Dynamics Simulations. Energy & Fuels, 2019, 33, 5067-5080.	5.1	34
63	Magnetically responsive Janus nanoparticles synthesized using cellulosic materials for enhanced phase separation in oily wastewaters and water-in-crude oil emulsions. Chemical Engineering Journal, 2019, 378, 122045.	12.7	75
64	Synthesis, characterization and acid-base properties of kaolinite and metal (Fe, Mn, Co) doped kaolinite. Applied Clay Science, 2019, 179, 105138.	5.2	35
65	Interfacial properties pertinent to W/O and O/W emulsion systems prepared using polyaromatic compounds. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2019, 575, 283-291.	4.7	11
66	Stimuli-Responsive Hybrid Polymer for Enhanced Solid-Liquid Separation of Industrial Effluents. Environmental Science & Technology, 2019, 53, 6436-6443.	10.0	11
67	Coalescence of Bubbles with Mobile Interfaces in Water. Physical Review Letters, 2019, 122, 194501.	7.8	73
68	Vanadium silicate (EVS)-supported silver nanoparticles: A novel catalytic sorbent for elemental mercury removal from flue gas. Journal of Hazardous Materials, 2019, 375, 1-8.	12.4	38
69	Probing Anisotropic Surface Properties of Illite by Atomic Force Microscopy. Langmuir, 2019, 35, 6532-6539.	3.5	21
70	Green Recycling of Goethite and Gypsum Residues in Hydrometallurgy with Fe_3O_4 and Fe_2O_3 Nanoparticles: Application, Characterization, and DFT Calculation. ACS Sustainable Chemistry and Engineering, 2019, 7, 6821-6829.	6.7	21
71	Inherent thermal regeneration performance of different MnO ₂ crystallographic structures for mercury removal. Journal of Hazardous Materials, 2019, 374, 267-275.	12.4	50
72	Chemical Functionalization of ZnS: A Perspective from the Ligand-ZnS Bond Character. Journal of Physical Chemistry C, 2019, 123, 6054-6061.	3.1	4

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73	The surface sulphidization and wetting of lead oxide fine particles. Minerals Engineering, 2019, 134, 241-249.	4.3	5
74	Microscale Interactions of Surfactant and Polymer Chemicals at Crude Oil-Water Interface for Enhanced Oil Recovery. , 2019, , .		1
75	CO2 hydrogenation to high-value products via heterogeneous catalysis. Nature Communications, 2019, 10, 5698.	12.8	571
76	Recent Advances in Studying Colloidal Interactions in Mineral Processing. Mining, Metallurgy and Exploration, 2019, 36, 35-53.	0.8	1
77	Nanoemulsion formation by the phase inversion temperature method using polyoxypropylene surfactants. Journal of Colloid and Interface Science, 2019, 540, 177-184.	9.4	78
78	CO2-responsive aqueous foams stabilized by pseudogemini surfactants. Journal of Colloid and Interface Science, 2019, 536, 381-388.	9.4	49
79	Viscosity reduction of extra-heavy oil using toluene in water emulsions. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2019, 560, 252-259.	4.7	8
80	Effects of Salinity and Individual Ions on Crude-Oil/Water Interface Physicochemical Interactions at Elevated Temperature. SPE Reservoir Evaluation and Engineering, 2019, 22, 897-910.	1.8	24
81	Spontaneous Displacement of High Viscosity Micrometer Size Oil Droplets from a Curved Solid in Aqueous Solutions. Langmuir, 2019, 35, 615-627.	3.5	11
82	CO2-responsive O/W microemulsions prepared using a switchable superamphiphile assembled by electrostatic interactions. Journal of Colloid and Interface Science, 2019, 534, 595-604.	9.4	45
83	Flocculation-assisted dewatering of fluid fine tailings using a volute screw press. Canadian Journal of Chemical Engineering, 2019, 97, 74-83.	1.7	1
84	Pseudo-Gemini Biosurfactants with CO ₂ Switchability for Enhanced Oil Recovery (EOR). Tenside, Surfactants, Detergents, 2019, 56, 407-416.	1.2	10
85	Coalescence of Crude Oil Droplets in Brine Systems: Effect of Individual Electrolytes. Energy & Fuels, 2018, 32, 5763-5771.	5.1	36
86	Demulsifier assisted film thinning and coalescence in crude oil emulsions under DC electric fields. Chemical Engineering Research and Design, 2018, 134, 117-129.	5.6	51
87	Molecular Dynamics Study of Hydrophilic Sphalerite (110) Surface as Modified by Normal and Branched Butylthiols. Langmuir, 2018, 34, 3363-3373.	3.5	16
88	Synergistic Adsorption of Polyaromatic Compounds on Silica Surfaces Studied by Molecular Dynamics Simulation. Journal of Physical Chemistry C, 2018, 122, 4290-4299.	3.1	27
89	Rational Design of Silver Sulfide Nanowires for Efficient CO ₂ Electroreduction in Ionic Liquid. ACS Catalysis, 2018, 8, 1469-1475.	11.2	76
90	Effect of humic acids on bitumen films at the oil-water interface and on emulsion stability: Potential implications for groundwater remediation. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2018, 544, 53-59.	4.7	24

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91	Ether modified poly(ether ether ketone) nonwoven membrane with excellent wettability and stability as a lithium ion battery separator. <i>Journal of Power Sources</i> , 2018, 378, 176-183.	7.8	56
92	Studying demulsification mechanisms of water-in-crude oil emulsions using a modified thin liquid film technique. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018, 540, 215-223.	4.7	40
93	Ultrathin 5-fold twinned sub-25 nm silver nanowires enable highly selective electroreduction of CO ₂ to CO. <i>Nano Energy</i> , 2018, 45, 456-462.	16.0	115
94	Dynamic Covalent Silica Nanoparticles for pH-Switchable Pickering Emulsions. <i>Langmuir</i> , 2018, 34, 5798-5806.	3.5	38
95	Descriptor of catalytic activity of metal sulfides for oxygen reduction reaction: a potential indicator for mineral flotation. <i>Journal of Materials Chemistry A</i> , 2018, 6, 9650-9656.	10.3	41
96	Biodiesel-Assisted Ambient Aqueous Bitumen Extraction (BA ³ BE) from Athabasca Oil Sands. <i>Energy & Fuels</i> , 2018, 32, 6565-6576.	5.1	14
97	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
98	Effects of Salinity and Individual Water Ions on Crude Oil-Water Interface Physicochemical Interactions at Elevated Temperature. , 2018, , .		5
99	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
100	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
101	Understanding Interactions between Clay and Model Coal Surfaces in Electrolyte Solutions by a Quartz Crystal Microbalance with Dissipation Study. <i>Energy & Fuels</i> , 2018, 32, 233-240.	5.1	10
102	Magnetic Separation and Recycling of Goethite and Calcium Sulfate in Zinc Hydrometallurgy in the Presence of Maghemite Fine Particles. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 1532-1538.	6.7	15
103	Cu(I)/Cu(II) mixed-valence surface complexes of S-[(2-hydroxyamino)-2-oxoethyl]-N,N-dibutyldithiocarbamate: Hydrophobic mechanism to malachite flotation. <i>Journal of Colloid and Interface Science</i> , 2018, 512, 701-712.	9.4	84
104	SmartWater Effects on Wettability, Adhesion and Oil Liberation in Carbonates. , 2018, , .		3
105	Microwave Treatment of Ultramafic Nickel Ores: Heating Behavior, Mineralogy, and Comminution Effects. <i>Minerals (Basel, Switzerland)</i> , 2018, 8, 524.	2.0	22
106	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
107	Mechanism of Goethite Precipitation on Magnetite and Maghemite Nanoparticles Studied by Surface Complexation/Precipitation Modeling. <i>Langmuir</i> , 2018, 34, 15134-15142.	3.5	15
108	Interactions of Asphaltene Subfractions in Organic Media of Varying Aromaticity. <i>Energy & Fuels</i> , 2018, 32, 10478-10485.	5.1	17

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109	Dynamic Interaction between a Millimeter-Sized Bubble and Surface Microbubbles in Water. <i>Langmuir</i> , 2018, 34, 11667-11675.	3.5	32
110	Probing Boundary Conditions at Hydrophobic Solid-Water Interfaces by Dynamic Film Drainage Measurement. <i>Langmuir</i> , 2018, 34, 12025-12035.	3.5	21
111	The rheology of polyvinylpyrrolidone-coated silica nanoparticles positioned at an air-aqueous interface. <i>Journal of Colloid and Interface Science</i> , 2018, 527, 346-355.	9.4	28
112	CO ₂ -switchable dispersion of a natural chitosan and its application as a responsive pickering emulsifier. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018, 555, 507-514.	4.7	20
113	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
114	Effect of temperature on foamability using a thermoresponsive polymer. <i>AIP Advances</i> , 2018, 8, .	1.3	6
115	Tri-layer nonwoven membrane with shutdown property and high robustness as a high-safety lithium ion battery separator. <i>Journal of Membrane Science</i> , 2018, 565, 50-60.	8.2	63
116	Water Ion Interactions at Crude-Oil/Water Interface and Their Implications for Smart Waterflooding in Carbonates. <i>SPE Journal</i> , 2018, 23, 1817-1832.	3.1	32
117	Recent progress in improving the stability of copper-based catalysts for hydrogenation of carbon-oxygen bonds. <i>Catalysis Science and Technology</i> , 2018, 8, 3428-3449.	4.1	89
118	Statistical Analysis of Coal Beneficiation Performance in a Continuous Air Dense Medium Fluidized Bed Separator. <i>International Journal of Coal Preparation and Utilization</i> , 2017, 37, 12-32.	2.1	17
119	Impact of fine solids on mined Athabasca oil sands extraction I. Floatability of fine solids. <i>Canadian Journal of Chemical Engineering</i> , 2017, 95, 111-119.	1.7	5
120	Impact of fine solids on mined athabasca oil sands extraction II. Effect of fine solids with different surface wettability on bitumen recovery. <i>Canadian Journal of Chemical Engineering</i> , 2017, 95, 120-126.	1.7	7
121	Probing Mechanical Properties of Water-Crude Oil Interfaces and Colloidal Interactions of Petroleum Emulsions Using Atomic Force Microscopy. <i>Energy & Fuels</i> , 2017, 31, 3445-3453.	5.1	14
122	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
123	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
124	Water Ion Interactions at Crude Oil-Water Interface: A New Fundamental Understanding on SmartWater Flood. , 2017, , .		6
125	pH Switchable Emulsions Based on Dynamic Covalent Surfactants. <i>Langmuir</i> , 2017, 33, 3040-3046.	3.5	51
126	An investigation of the deposition of ceria on silica by quartz crystal microbalance: Observations on the effect of many body interactions. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2017, 522, 207-217.	4.7	6

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127	Adsorption of a Polyaromatic Compound on Silica Surfaces from Organic Solvents Studied by Molecular Dynamics Simulation and AFM Imaging. Journal of Physical Chemistry C, 2017, 121, 5020-5028.	3.1	65
128	Impact of salinity on warm water-based mineable oil sands processing. Canadian Journal of Chemical Engineering, 2017, 95, 281-289.	1.7	7
129	Interactions of Polyaromatic Compounds. Part 1: Nanoaggregation Probed by Electrospray Ionization Mass Spectrometry and Molecular Dynamics Simulation. Energy & Fuels, 2017, 31, 3465-3474.	5.1	13
130	Bromination of petroleum coke for elemental mercury capture. Journal of Hazardous Materials, 2017, 336, 232-239.	12.4	47
131	A fatty acid solvent of switchable miscibility. Journal of Colloid and Interface Science, 2017, 504, 645-651.	9.4	35
132	Foaming Behavior of Polymer-Coated Colloids: The Need for Thick Liquid Films. Langmuir, 2017, 33, 6528-6539.	3.5	33
133	Magnetically responsive catalytic sorbent for removal of Hg ⁰ and NO. Fuel Processing Technology, 2017, 160, 158-169.	7.2	26
134	Fractionation of Asphaltenes in Understanding Their Role in Petroleum Emulsion Stability and Fouling. Energy & Fuels, 2017, 31, 3330-3337.	5.1	91
135	Line tensions of galena (001) and sphalerite (110) surfaces: A molecular dynamics study. Journal of Molecular Liquids, 2017, 248, 634-642.	4.9	15
136	Silica-Silver Nanocomposites as Regenerable Sorbents for Hg ⁰ Removal from Flue Gases. Environmental Science & Technology, 2017, 51, 11909-11917.	10.0	49
137	Probing Single-Molecule Adhesion of a Stimuli Responsive Oligo(ethylene glycol) Methacrylate Copolymer on a Molecularly Smooth Hydrophobic MoS ₂ Basal Plane Surface. Langmuir, 2017, 33, 10429-10438.	3.5	9
138	Asphaltene Subfractions Responsible for Stabilizing Water-in-Crude Oil Emulsions. Part 3. Effect of Solvent Aromaticity. Energy & Fuels, 2017, 31, 9179-9187.	5.1	46
139	Defective ZnCo ₂ O ₄ with Zn vacancies: Synthesis, property and electrochemical application. Journal of Alloys and Compounds, 2017, 724, 1149-1156.	5.5	34
140	Highly conductive alkaline anion exchange membrane containing imidazolium-functionalized octaphenyl polyhedral oligomeric silsesquioxane filler. Journal of Membrane Science, 2017, 541, 474-482.	8.2	20
141	Interactions of Polyaromatic Compounds. Part 2. Flocculation Probed by Dynamic Light Scattering and Molecular Dynamics Simulation. Energy & Fuels, 2017, 31, 9201-9212.	5.1	21
142	Suppressing Shuttle Effect Using Janus Cation Exchange Membrane for High-Performance Lithium-Sulfur Battery Separator. ACS Applied Materials & Interfaces, 2017, 9, 44776-44781.	8.0	40
143	A study on novel reactive oily bubble technology enhanced colophane flotation. International Journal of Mineral Processing, 2017, 169, 85-90.	2.6	8
144	Novel lithium ion battery separator based on hydroxymethyl functionalized poly(ether ether ketone). Journal of Membrane Science, 2017, 540, 422-429.	8.2	41

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145	Role of reactive oily bubble in apatite flotation. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2017, 513, 11-19.	4.7	27
146	Asphaltene fractionation based on adsorption onto calcium carbonate: Part 2. Self-association and aggregation properties. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2017, 514, 79-90.	4.7	47
147	Surface forces in unconventional oil processing. Current Opinion in Colloid and Interface Science, 2017, 27, 63-73.	7.4	13
148	Fatty acid-asphaltene interactions at oil/water interface. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2017, 513, 168-177.	4.7	40
149	Elemental mercury reaction chemistry on brominated petroleum cokes. Carbon, 2017, 124, 89-96.	10.3	25
150	Water Ion Interactions at Crude Oil-water Interface - Is there a Correlation between IFT and Interfacial Rheology?. , 2017, , .		0
151	Role of Preconditioning Cationic Zetag Flocculant in Enhancing Mature Fine Tailings Flocculation. Energy & Fuels, 2016, 30, 5223-5231.	5.1	19
152	Synthesis and Characterization of Tunable Dual-pH Switchable Zwitterionic Copolymers. Macromolecular Chemistry and Physics, 2016, 217, 1614-1619.	2.2	0
153	Low temperature processed, high-performance and stable NiOx based inverted planar perovskite solar cells via a poly(2-ethyl-2-oxazoline) nanodots cathode electron-extraction layer. Materials Today Energy, 2016, 1-2, 1-10.	4.7	30
154	Microscale liquid-liquid displacement dynamics: Molecular kinetic or hydrodynamic control. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2016, 497, 336-343.	4.7	20
155	Understanding the hydrophobic mechanism of 3-hexyl-4-amino-1, 2,4-triazole-5-thione to malachite by ToF-SIMS, XPS, FTIR, contact angle, zeta potential and micro-flotation. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2016, 503, 34-42.	4.7	139
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