

# Hongbo Zeng

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3081140/publications.pdf>

Version: 2024-02-01

427  
papers

21,115  
citations

11235

73  
h-index

22488

117  
g-index

454  
all docs

454  
docs citations

454  
times ranked

19978  
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanoconfining Cation- $\pi$ Interactions as a Modular Strategy to Construct Injectable Self-Healing Hydrogel. <i>CCS Chemistry</i> , 2022, 4, 2724-2737.	4.6	31
2	Mussel-inspired superhydrophilic membrane constructed on a hydrophilic polymer network for highly efficient oil/water separation. <i>Journal of Colloid and Interface Science</i> , 2022, 608, 702-710.	5.0	46
3	In-situ fabrication of metal oxide nanocaps based on biphasic reactions with surface nanodroplets. <i>Journal of Colloid and Interface Science</i> , 2022, 608, 2235-2245.	5.0	8
4	The role of fouling materials strength on unplugging sand control devices using an electrohydraulic stimulation technique. <i>Journal of Petroleum Science and Engineering</i> , 2022, 208, 109689.	2.1	1
5	Interactions of model airborne particulate matter with dipalmitoyl phosphatidylcholine and a clinical surfactant Calsurf. <i>Journal of Colloid and Interface Science</i> , 2022, 607, 1993-2009.	5.0	3
6	A new cyclic carbonate enables high power/ low temperature lithium-ion batteries. <i>Energy Storage Materials</i> , 2022, 45, 14-23.	9.5	27
7	Probing Hydrophobic Interactions between Polymer Surfaces and Air Bubbles or Oil Droplets: Effects of Molecular Weight and Surfactants. <i>Langmuir</i> , 2022, 38, 5257-5268.	1.6	4
8	A Universal Strategy for Constructing Robust and Antifouling Cellulose Nanocrystal Coating. <i>Advanced Functional Materials</i> , 2022, 32, 2109989.	7.8	51
9	In-situ generated hydroxides realize near-unity CO selectivity for electrochemical CO <sub>2</sub> reduction. <i>Chemical Engineering Journal</i> , 2022, 433, 133785.	6.6	9
10	Facile and scalable surface functionalization approach with small silane molecules for oil/water separation and demulsification of surfactant/asphaltenes-stabilized emulsions. <i>Separation and Purification Technology</i> , 2022, 285, 120382.	3.9	12
11	Decarbonization of mineral processing operations: Realizing the potential of carbon capture and utilization in the processing of ultramafic nickel ores. <i>Chemical Engineering Journal</i> , 2022, 433, 134203.	6.6	4
12	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
13	Revisiting the adhesion mechanism of mussel-inspired chemistry. <i>Chemical Science</i> , 2022, 13, 1698-1705.	3.7	53
14	Recent progress in conductive self-healing hydrogels for flexible sensors. <i>Journal of Polymer Science</i> , 2022, 60, 2607-2634.	2.0	41
15	Interfacial Partitioning Enhances Microextraction by Multicomponent Nanodroplets. <i>Journal of Physical Chemistry C</i> , 2022, 126, 1326-1336.	1.5	10
16	Demystifying constructive strategies on designing functionalized lamellar Nb <sub>2</sub> CT nanosheet membrane architectures under confined space. <i>Journal of Materials Chemistry A</i> , 2022, 10, 4200-4208.	5.2	0
17	Treatment Technologies for Organics and Silica Removal in Steam-Assisted Gravity Drainage Produced Water: A Comprehensive Review. <i>Energy &amp; Fuels</i> , 2022, 36, 1205-1231.	2.5	4
18	Phosphate Removal from Wastewater by Magnetic Amorphous Lanthanum Silicate Alginate Hydrogel Beads. <i>Minerals (Basel, Switzerland)</i> , 2022, 12, 171.	0.8	6

#	ARTICLE	IF	CITATIONS
19	Soft armour-like layer-protected hydrogels for wet tissue adhesion and biological imaging. <i>Chemical Engineering Journal</i> , 2022, 434, 134418.	6.6	24
20	Electrochemically reconstructed perovskite with cooperative catalytic sites for CO <sub>2</sub> -to-formate conversion. <i>Applied Catalysis B: Environmental</i> , 2022, 306, 121101.	10.8	14
21	Probing Anion-π Interactions between Fluoroarene and Carboxylate Anion in Aqueous Solutions. <i>Journal of Colloid and Interface Science</i> , 2022, 615, 778-785.	5.0	5
22	Hydrogen-Bonding-Driven Multifunctional Polymer Hydrogel Networks Based on Tannic Acid. <i>ACS Applied Polymer Materials</i> , 2022, 4, 1836-1845.	2.0	24
23	Unraveling roles of lead ions in selective flotation of scheelite and fluorite from atomic force microscopy and first-principles calculations. <i>Minerals Engineering</i> , 2022, 179, 107424.	1.8	14
24	Principles of Cation-π Interactions for Engineering Mussel-Inspired Functional Materials. <i>Accounts of Chemical Research</i> , 2022, 55, 1171-1182.	7.6	42
25	Hydrogels for the removal of the methylene blue dye from wastewater: a review. <i>Environmental Chemistry Letters</i> , 2022, 20, 2665-2685.	8.3	30
26	Self-healing, reusable and conductive cellulose nanocrystals-containing adhesives. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022, 643, 128797.	2.3	14
27	Surface modified silver/magnetite nanocomposite activating hydrogen peroxide for efficient degradation of chlorophenols. <i>Journal of Colloid and Interface Science</i> , 2022, 617, 246-256.	5.0	5
28	Stretchable, compressible, and conductive hydrogel for sensitive wearable soft sensors. <i>Journal of Colloid and Interface Science</i> , 2022, 618, 111-120.	5.0	59
29	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
30	Smart waterborne composite coating with passive/active protective performances using nanocontainers based on metal organic frameworks derived layered double hydroxides. <i>Journal of Colloid and Interface Science</i> , 2022, 619, 132-147.	5.0	25
31	Contribution of protein microgels, protein molecules, and polysaccharides to the emulsifying behaviors of core/shell whey protein-alginate microgel systems. <i>Food Hydrocolloids</i> , 2022, 129, 107670.	5.6	11
32	Zwitterionic ionic liquids modulating two-dimensional hierarchically porous zeolitic imidazolate framework composites. <i>Journal of Colloid and Interface Science</i> , 2022, 620, 365-375.	5.0	4
33	Highly stretchable, elastic, antimicrobial conductive hydrogels with environment-adaptive adhesive property for health monitoring. <i>Journal of Colloid and Interface Science</i> , 2022, 622, 612-624.	5.0	13
34	Growth Rates of Hydrogen Microbubbles in Reacting Femtoliter Droplets. <i>Langmuir</i> , 2022, 38, 6638-6646.	1.6	4
35	Metal organic frameworks (MOFs) as multifunctional nanoplatform for anticorrosion surfaces and coatings. <i>Advances in Colloid and Interface Science</i> , 2022, 305, 102707.	7.0	18
36	Emulsions in Bitumen Froth Treatment and Methods for Demulsification and Fines Removal in Naphthenic Froth Treatment: Review and Perspectives. <i>Energy &amp; Fuels</i> , 2022, 36, 8607-8623.	2.5	5

#	ARTICLE	IF	CITATIONS
37	Mussel-inspired polyethylene glycol coating for constructing antifouling membrane for water purification. <i>Journal of Colloid and Interface Science</i> , 2022, 625, 628-639.	5.0	14
38	Beneficiation of Nickel from Ultramafic Ores: Using Sodium Citrate as a Green Processing Reagent. <i>Resources, Conservation and Recycling</i> , 2022, 186, 106496.	5.3	6
39	Effect of non-ionic surfactants on the adsorption of polycyclic aromatic compounds at water/oil interface: A molecular simulation study. <i>Journal of Colloid and Interface Science</i> , 2021, 586, 766-777.	5.0	33
40	Tannic acid/Fe <sup>3+</sup> functionalized magnetic graphene oxide nanocomposite with high loading of silver nanoparticles as ultra-efficient catalyst and disinfectant for wastewater treatment. <i>Chemical Engineering Journal</i> , 2021, 405, 126629.	6.6	72
41	One-step multiple-site integration strategy for CO <sub>2</sub> capture and conversion into cyclic carbonates under atmospheric and cocatalyst/metal/solvent-free conditions. <i>Applied Catalysis B: Environmental</i> , 2021, 283, 119620.	10.8	67
42	Novel multifunctional solid slippery surfaces with self-assembled fluorine-free small molecules. <i>Chemical Engineering Journal</i> , 2021, 404, 127064.	6.6	10
43	Stabilization mechanism and chemical demulsification of water-in-oil and oil-in-water emulsions in petroleum industry: A review. <i>Fuel</i> , 2021, 286, 119390.	3.4	143
44	In-situ probing of electrochemical dissolution and surface properties of chalcopyrite with implications for the dissolution kinetics and passivation mechanism. <i>Journal of Colloid and Interface Science</i> , 2021, 584, 103-113.	5.0	14
45	Utilization of waste cooking oil for highly efficient recovery of unburned carbon from coal fly ash. <i>Journal of Cleaner Production</i> , 2021, 282, 124547.	4.6	21
46	A three-dimensional crosslinked chitosan sulfate network binder for high-performance Li-S batteries. <i>Journal of Energy Chemistry</i> , 2021, 56, 171-178.	7.1	22
47	Probing the corrosion resistance of a smart electroless Ni-P composite coating embedded with pH-responsive corrosion inhibitor-loaded nanocapsules. <i>Chemical Engineering Journal</i> , 2021, 421, 127752.	6.6	9
48	Dual-Cross-Linked Network Hydrogels with Multiresponsive, Self-Healing, and Shear Strengthening Properties. <i>Biomacromolecules</i> , 2021, 22, 800-810.	2.6	29
49	Recent advances in electrochemical techniques for characterizing surface properties of minerals. <i>Advances in Colloid and Interface Science</i> , 2021, 288, 102346.	7.0	28
50	Metal chelation based supramolecular self-assembly enables a high-performance organic anode for lithium ion batteries. <i>Chemical Engineering Journal</i> , 2021, 413, 127525.	6.6	8
51	Mussel-inspired adhesive and conductive hydrogel with tunable mechanical properties for wearable strain sensors. <i>Journal of Colloid and Interface Science</i> , 2021, 585, 420-432.	5.0	81
52	Intermolecular and Surface Interactions in Engineering Processes. <i>Engineering</i> , 2021, 7, 63-83.	3.2	26
53	Soy-Based Adhesives Functionalized with Pressure-Responsive Crosslinker Microcapsules for Enhanced Wet Adhesion. <i>ACS Applied Polymer Materials</i> , 2021, 3, 1032-1041.	2.0	29
54	Probing the In Situ Redox Behavior of Selenium on a Pyrite Surface by Scanning Electrochemical Microscopy. <i>Journal of Physical Chemistry C</i> , 2021, 125, 3018-3026.	1.5	4

#	ARTICLE	IF	CITATIONS
55	Coacervation-driven instant paintable underwater adhesives with tunable optical and electrochromic properties. <i>Journal of Materials Chemistry A</i> , 2021, 9, 12988-13000.	5.2	30
56	Nanomechanical Insights into Versatile Polydopamine Wet Adhesive Interacting with Liquid-Infused and Solid Slippery Surfaces. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 6941-6950.	4.0	23
57	Surface reactivity of the cyanobacterium <i>Synechocystis</i> sp. PCC 6803 " Implications for trace metals transport to the oceans. <i>Chemical Geology</i> , 2021, 562, 120045.	1.4	3
58	Effect of interaction between two single-particle-impingements on the repassivation behavior of 304 stainless steel in a simulated groundwater. <i>Corrosion Reviews</i> , 2021, 39, 149-164.	1.0	1
59	Recent advances in bubble-based technologies: Underlying interaction mechanisms and applications. <i>Applied Physics Reviews</i> , 2021, 8, .	5.5	24
60	Dual Cross-Linked Hydrogels with Injectable, Self-Healing, and Antibacterial Properties Based on the Chemical and Physical Cross-Linking. <i>Biomacromolecules</i> , 2021, 22, 1685-1694.	2.6	35
61	Graphene-based materials for adsorptive removal of pollutants from water and underlying interaction mechanism. <i>Advances in Colloid and Interface Science</i> , 2021, 289, 102360.	7.0	49
62	Nanomechanics of Lignin"Cellulase Interactions in Aqueous Solutions. <i>Biomacromolecules</i> , 2021, 22, 2033-2042.	2.6	32
63	Graphene oxide"based noble"metal nanoparticles composites for environmental application. <i>Composites Communications</i> , 2021, 24, 100645.	3.3	25
64	Characterizing foulants on slotted liner and probing the surface interaction mechanisms in organic media with implication for an antifouling strategy in oil production. <i>Fuel</i> , 2021, 290, 120008.	3.4	7
65	Mechanically Strong Proteinaceous Fibers: Engineered Fabrication by Microfluidics. <i>Engineering</i> , 2021, 7, 615-623.	3.2	44
66	Injectable Self-Healing Hydrogel via Biological Environment-Adaptive Supramolecular Assembly for Gastric Perforation Healing. <i>ACS Nano</i> , 2021, 15, 9913-9923.	7.3	57
67	Modulating surface interactions for regenerable separation of oil-in-water emulsions. <i>Journal of Membrane Science</i> , 2021, 625, 119140.	4.1	21
68	A Janus facilitated transport membrane with asymmetric surface wettability and dense/porous structure: Enabling high stability and separation efficiency. <i>Journal of Membrane Science</i> , 2021, 626, 119183.	4.1	13
69	Electronic Delocalization of Bismuth Oxide Induced by Sulfur Doping for Efficient CO <sub>2</sub> Electroreduction to Formate. <i>ACS Catalysis</i> , 2021, 11, 7604-7612.	5.5	80
70	Ultra-strong bio-glue from genetically engineered polypeptides. <i>Nature Communications</i> , 2021, 12, 3613.	5.8	104
71	Formation and stability of oil"laden foam: Effect of surfactant and hydrocarbon solvent. <i>Canadian Journal of Chemical Engineering</i> , 2021, 99, 2658-2669.	0.9	3
72	Probing the Interactions between Pickering Emulsion Droplets Stabilized with pH-Responsive Nanoparticles. <i>Journal of Physical Chemistry B</i> , 2021, 125, 7320-7331.	1.2	8

#	ARTICLE	IF	CITATIONS
73	Role of Ca <sup>2+</sup> in the CO <sub>2</sub> corrosion behavior and film characteristics of N80 steel and electroless Ni-P coating at high temperature and high pressure. <i>Materials Chemistry and Physics</i> , 2021, 267, 124618.	2.0	12
74	Unraveling the Interaction of Water-in-Oil Emulsion Droplets via Molecular Simulations and Surface Force Measurements. <i>Journal of Physical Chemistry B</i> , 2021, 125, 7556-7567.	1.2	8
75	Size Effect on the Reaction Rate of Surface Nanodroplets. <i>Journal of Physical Chemistry C</i> , 2021, 125, 15324-15334.	1.5	6
76	Understanding the hetero-aggregation mechanism among sulfide and oxide mineral particles driven by bifunctional surfactants: Intensification flotation of oxide minerals. <i>Minerals Engineering</i> , 2021, 169, 106928.	1.8	11
77	Self-healing Hydrogels and Underlying Reversible Intermolecular Interactions. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2021, 39, 1246-1261.	2.0	15
78	Catechol-Vanadium Binding Enhances Cross-Linking and Mechanics of a Mussel Byssus Coating Protein. <i>Chemistry of Materials</i> , 2021, 33, 6530-6540.	3.2	27
79	High molecular weight guar gum assisted settling of fine solids in diluted bitumen: Effect of solvents. <i>Petroleum Science</i> , 2021, 18, 1877-1886.	2.4	7
80	Surface interaction mechanisms in mineral flotation: Fundamentals, measurements, and perspectives. <i>Advances in Colloid and Interface Science</i> , 2021, 295, 102491.	7.0	47
81	Ion-specific effect on self-cleaning performances of polyelectrolyte-functionalized membranes and the underlying nanomechanical mechanism. <i>Journal of Membrane Science</i> , 2021, 634, 119408.	4.1	5
82	Uncovering the hydrophobic mechanism of a novel dithiocarbamate-hydroxamate surfactant towards galena. <i>Chemical Engineering Science</i> , 2021, 245, 116765.	1.9	23
83	Anti-biofouling materials and surfaces based on mussel-inspired chemistry. <i>Materials Advances</i> , 2021, 2, 2216-2230.	2.6	8
84	Enhanced Adsorption of Anionic Polymer on Montmorillonite by Divalent Cations and the Effect of Salinity. <i>Journal of Physical Chemistry A</i> , 2021, 125, 1025-1035.	1.1	9
85	Cancer theranostic platforms based on injectable polymer hydrogels. <i>Biomaterials Science</i> , 2021, 9, 3543-3575.	2.6	16
86	Bi <sub>2</sub> O <sub>3</sub> Nanosheets Grown on Carbon Nanofiber with Inherent Hydrophobicity for High-Performance CO <sub>2</sub> Electroreduction in a Wide Potential Window. <i>ACS Nano</i> , 2021, 15, 17757-17768.	7.3	47
87	Coacervate-Based Instant and Repeatable Underwater Adhesive with Anticancer and Antibacterial Properties. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 48239-48251.	4.0	32
88	2D Material Nanofiltration Membranes: From Fundamental Understandings to Rational Design. <i>Advanced Science</i> , 2021, 8, e2102493.	5.6	29
89	Nanometer-Scale Force Profiles of Short Single- and Double-Stranded DNA Molecules on a Gold Surface Measured Using a Surface Forces Apparatus. <i>Langmuir</i> , 2021, 37, 13346-13352.	1.6	4
90	Unplugging Standalone Sand-Control Screens Using High-Power Shock Waves. <i>SPE Drilling and Completion</i> , 2021, 36, 398-412.	0.9	4

#	ARTICLE	IF	CITATIONS
91	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
92	Bench-scale oil fouling/antifouling tests under high temperature and high pressure conditions and the underlying interfacial interaction mechanisms. <i>Fuel</i> , 2021, 314, 122720.	3.4	5
93	Electrochemically Dismantled Perovskite with Cooperative Catalysis for CO <sub>2</sub> -to-Formate Conversion. <i>ECS Meeting Abstracts</i> , 2021, MA2021-02, 1318-1318.	0.0	0
94	Recoverable underwater superhydrophobicity from a fully wetted state via dynamic air spreading. <i>IScience</i> , 2021, 24, 103427.	1.9	4
95	Mesoporous carbon xerogel material for the adsorption of model naphthenic acids: structure effect and kinetics modelling. <i>Environmental Technology (United Kingdom)</i> , 2020, 41, 3534-3543.	1.2	9
96	Probing the interaction mechanism between oil droplets with asphaltenes and solid surfaces using AFM. <i>Journal of Colloid and Interface Science</i> , 2020, 558, 173-181.	5.0	51
97	Bio-inspired membrane with adaptable wettability for smart oil/water separation. <i>Journal of Membrane Science</i> , 2020, 598, 117661.	4.1	83
98	Tannic acid modified MoS <sub>2</sub> nanosheet membranes with superior water flux and ion/dye rejection. <i>Journal of Colloid and Interface Science</i> , 2020, 560, 177-185.	5.0	45
99	Nanomechanics of Anion-π Interaction in Aqueous Solution. <i>Journal of the American Chemical Society</i> , 2020, 142, 1710-1714.	6.6	67
100	Recent progress in synthesis and application of mussel-inspired adhesives. <i>Nanoscale</i> , 2020, 12, 1307-1324.	2.8	230
101	Role of molecular architecture in the modulation of hydrophobic interactions. <i>Current Opinion in Colloid and Interface Science</i> , 2020, 47, 58-69.	3.4	36
102	Insights into the erosion-enhanced corrosion on electroless Ni-P coating from single particle impingement. <i>Corrosion Science</i> , 2020, 166, 108422.	3.0	22
103	Polydopamine Nanotubes Decorated with Ag Nanoparticles as Catalyst for the Reduction of Methylene Blue. <i>ACS Applied Nano Materials</i> , 2020, 3, 156-164.	2.4	36
104	Mussel-inspired cellulose-based adhesive with biocompatibility and strong mechanical strength via metal coordination. <i>International Journal of Biological Macromolecules</i> , 2020, 144, 127-134.	3.6	68
105	Recyclable Ag-decorated highly carbonaceous magnetic nanocomposites for the removal of organic pollutants. <i>Journal of Colloid and Interface Science</i> , 2020, 562, 52-62.	5.0	43
106	Effect of Charge Density of Reverse Emulsion Breaker on Demulsification Performance for Steam-Assisted Gravity Drainage (SAGD) Emulsions under High Temperature and High Pressure. <i>Energy &amp; Fuels</i> , 2020, 34, 13893-13902.	2.5	11
107	Interactions of particulate matter and pulmonary surfactant: Implications for human health. <i>Advances in Colloid and Interface Science</i> , 2020, 284, 102244.	7.0	56
108	Adhesive Coacervates Driven by Hydrogen Bonding Interaction. <i>Small</i> , 2020, 16, e2004132.	5.2	45



#	ARTICLE	IF	CITATIONS
109	Nanomechanics of "cation" interaction with implications for bio-inspired wet adhesion. <i>Acta Biomaterialia</i> , 2020, 117, 294-301.	4.1	37
110	Characterization and corrosion behavior of electroless Ni-Mo-P/Ni-P composite coating in CO <sub>2</sub> /H <sub>2</sub> S/Cl <sup>-</sup> brine: Effects of Mo addition and heat treatment. <i>Surface and Coatings Technology</i> , 2020, 403, 126416.	2.2	23
111	Bioinspired Lignin-Polydopamine Nanocapsules with Strong Bioadhesion for Long-Acting and High-Performance Natural Sunscreens. <i>Biomacromolecules</i> , 2020, 21, 3231-3241.	2.6	62
112	Progress in Bioinspired Dry and Wet Gradient Materials from Design Principles to Engineering Applications. <i>IScience</i> , 2020, 23, 101749.	1.9	20
113	Unusual Surface Ligand Doping-Induced p-Type Quantum Dot Solids and Their Application in Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 53942-53949.	4.0	9
114	Mussel-Inspired Adhesive Double-Network Hydrogel for Intraoral Ultrasound Imaging. <i>ACS Applied Bio Materials</i> , 2020, 3, 8943-8952.	2.3	17
115	Temperature-Induced Transition from Indirect to Direct Adsorption of Polycyclic Aromatic Hydrocarbons on Quartz: A Combined Theoretical and Experimental Study. <i>Industrial &amp; Engineering Chemistry Research</i> , 2020, 59, 18500-18509.	1.8	8
116	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
117	Advances in Understanding the Scaling Potential for Thermal Wells: A Mechanistic Study. , 2020, , .		1
118	Techniques for treating slop oil in oil and gas industry: A short review. <i>Fuel</i> , 2020, 279, 118482.	3.4	26
119	Functional Conductive Hydrogels for Bioelectronics. , 2020, 2, 1287-1301.		193
120	Destabilization of bitumen-coated fine solids in oil through water-assisted flocculation using biomolecules extracted from guar beans. <i>Petroleum Science</i> , 2020, 17, 1726-1736.	2.4	5
121	Integrated Nanoextraction and Colorimetric Reactions in Surface Nanodroplets for Combinative Analysis. <i>Analytical Chemistry</i> , 2020, 92, 12442-12450.	3.2	14
122	A Nanomechanical Study on Deciphering the Stickiness of SARS-CoV-2 on Inanimate Surfaces. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 58360-58368.	4.0	25
123	Dynamic Flexible Hydrogel Network with Biological Tissue-like Self-Protective Functions. <i>Chemistry of Materials</i> , 2020, 32, 10545-10555.	3.2	30
124	Assembly of Ultralight Dual Network Graphene Aerogel with Applications for Selective Oil Absorption. <i>Langmuir</i> , 2020, 36, 13698-13707.	1.6	37
125	Ultra elastic, stretchable, self-healing conductive hydrogels with tunable optical properties for highly sensitive soft electronic sensors. <i>Journal of Materials Chemistry A</i> , 2020, 8, 24718-24733.	5.2	128
126	Molecular simulation of folding and aggregation of multi-core polycyclic aromatic compounds. <i>Journal of Molecular Liquids</i> , 2020, 310, 113248.	2.3	5



#	ARTICLE	IF	CITATIONS
127	Ultra-efficient and stable heterogeneous iron-based Fenton nanocatalysts for degrading organic dyes at neutral pH via a chelating effect under nanoconfinement. <i>Chemical Communications</i> , 2020, 56, 6571-6574.	2.2	29
128	Interfacial ion specificity modulates hydrophobic interaction. <i>Journal of Colloid and Interface Science</i> , 2020, 578, 135-145.	5.0	16
129	A new method to obtain the repassivation time of passive materials based on the single particle impingement. <i>Corrosion Science</i> , 2020, 170, 108717.	3.0	2
130	Effect of salinity on adsorption and interaction forces of hydrophobically modified polyacrylamide on silica and alumina surfaces. <i>Minerals Engineering</i> , 2020, 150, 106280.	1.8	12
131	Polyacrylamide/Alginate double-network tough hydrogels for intraoral ultrasound imaging. <i>Journal of Colloid and Interface Science</i> , 2020, 578, 598-607.	5.0	38
132	Bio-Inspired Passion Fruit-like Fe <sub>3</sub> O <sub>4</sub> @C Nanospheres Enabling High-Stability Magnetorheological Performances. <i>Langmuir</i> , 2020, 36, 7706-7714.	1.6	15
133	Electrochemical investigation of the interactions of organic and inorganic depressants on basal and edge planes of molybdenite. <i>Journal of Colloid and Interface Science</i> , 2020, 570, 350-361.	5.0	22
134	Water-Based Dual-Cross-Linked Polymer Binders for High-Energy-Density Lithium-Sulfur Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 29316-29323.	4.0	9
135	Unplugging Standalone Sand Control Screens with High-power Shock Waves: An Experimental Study. , 2020, , .		4
136	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
137	A bioinspired hydrogen bond crosslink strategy toward toughening ultrastrong and multifunctional nanocomposite hydrogels. <i>Journal of Materials Chemistry B</i> , 2020, 8, 4002-4015.	2.9	88
138	New insights into the interfacial behavior and swelling of polymer inclusion membrane (PIM) during Zn (II) extraction process. <i>Chemical Engineering Science</i> , 2020, 220, 115620.	1.9	13
139	Surface forces and interaction mechanisms of soft thin films under confinement: a short review. <i>Soft Matter</i> , 2020, 16, 6697-6719.	1.2	16
140	A Laboratory Workflow for Characterization of Scaling Deposits in Thermal Wells. <i>Energies</i> , 2020, 13, 3184.	1.6	1
141	Probing the Interaction Mechanism between Benzohydroxamic Acid and Mineral Surface in the Presence of Pb <sup>2+</sup> Ions by AFM Force Measurements and First-Principles Calculations. <i>Langmuir</i> , 2020, 36, 8199-8208.	1.6	24
142	Speeding up biphasic reactions with surface nanodroplets. <i>Lab on A Chip</i> , 2020, 20, 2965-2974.	3.1	12
143	Hydrogels. , 2020, , 203-244.		25
144	Buckling Effect of Sole Zeolitic Imidazolate Framework-8 Nanoparticles Adsorbed at the Water/Oil Interface. <i>Langmuir</i> , 2020, 36, 2322-2329.	1.6	13

#	ARTICLE	IF	CITATIONS
145	Novel sodium alginate-assisted MXene nanosheets for ultrahigh rejection of multiple cations and dyes. <i>Journal of Colloid and Interface Science</i> , 2020, 568, 36-45.	5.0	31
146	Recent Advances in Mechano-Responsive Hydrogels for Biomedical Applications. <i>ACS Applied Polymer Materials</i> , 2020, 2, 1092-1107.	2.0	59
147	Challenges in developing polymer flocculants to improve bitumen quality in non-aqueous extraction processes: an experimental study. <i>Petroleum Science</i> , 2020, 17, 811-821.	2.4	14
148	Surface Interactions between Water-in-Oil Emulsions with Asphaltenes and Electroless Nickel-Phosphorus Coating. <i>Langmuir</i> , 2020, 36, 897-905.	1.6	12
149	Recent Advances in the Quantification and Modulation of Hydrophobic Interactions for Interfacial Applications. <i>Langmuir</i> , 2020, 36, 2985-3003.	1.6	47
150	Self-Regulated Phenomenon of Inorganic Artificial Solid Electrolyte Interphase for Lithium Metal Batteries. <i>Nano Letters</i> , 2020, 20, 4029-4037.	4.5	78
151	Recent advances in designing conductive hydrogels for flexible electronics. <i>Informa-Materials</i> , 2020, 2, 843-865.	8.5	150
152	Probing the intermolecular interaction mechanisms between humic acid and different substrates with implications for its adsorption and removal in water treatment. <i>Water Research</i> , 2020, 176, 115766.	5.3	50
153	CO <sub>2</sub> /N <sub>2</sub> -responsive oil-in-water emulsions using a novel switchable surfactant. <i>Journal of Colloid and Interface Science</i> , 2020, 571, 134-141.	5.0	41
154	Injectable and Self-Healing Nanocomposite Hydrogels with Ultrasensitive pH-Responsiveness and Tunable Mechanical Properties: Implications for Controlled Drug Delivery. <i>Biomacromolecules</i> , 2020, 21, 2409-2420.	2.6	107
155	Synergetic adsorption of polymers on montmorillonite: Insights from molecular dynamics simulations. <i>Applied Clay Science</i> , 2020, 193, 105654.	2.6	24
156	Insights into the Electrochemical Corrosion Behavior and Mechanism of Electroless Ni-P Coating in the CO <sub>2</sub> /H <sub>2</sub> S/Cl <sup>-</sup> Environment. <i>Corrosion</i> , 2020, 76, 578-590.	0.5	18
157	Metal oxide nanoparticle-modified graphene oxide for removal of elemental mercury. <i>Environmental Technology (United Kingdom)</i> , 2019, 40, 3602-3610.	1.2	7
158	Investigation on the flow-induced corrosion and degradation behavior of underground J55 pipe in a water production well in the Athabasca oil sands reservoir. <i>Journal of Petroleum Science and Engineering</i> , 2019, 182, 106325.	2.1	23
159	Probing the Interaction Forces of Phenol/Amine Deposition in Wet Adhesion: Impact of Phenol/Amine Mass Ratio and Surface Properties. <i>Langmuir</i> , 2019, 35, 15639-15650.	1.6	12
160	Engineering the morphology of TiO <sub>2</sub> /carbon hybrids via oxidized Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXene and associated electrorheological activities. <i>Chemical Engineering Journal</i> , 2019, 378, 122170.	6.6	22
161	Probing the adsorption and interaction mechanisms of hydrophobically modified polyacrylamide P(AM-NaAA-C16DMAAC) on model coal surface: Impact of salinity. <i>Minerals Engineering</i> , 2019, 141, 105841.	1.8	16
162	Probing molecular interactions of PEGylated chitosan in aqueous solutions using a surface force apparatus. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 20571-20581.	1.3	11

#	ARTICLE	IF	CITATIONS
163	Destabilization of fine solids suspended in oil media through wettability modification and water-assisted agglomeration. <i>Fuel</i> , 2019, 254, 115623.	3.4	16
164	Metformin attenuates hepatoma cell proliferation by decreasing glycolytic flux through the HIF-1 $\alpha$ /PFKFB3/PFK1 pathway. <i>Life Sciences</i> , 2019, 239, 116966.	2.0	52
165	Separation of talc and molybdenite: challenges and opportunities. <i>Minerals Engineering</i> , 2019, 143, 105923.	1.8	34
166	Multiresponsive and Self-Healing Hydrogel via Formation of Polymer-Nanogel Interfacial Dynamic Benzoxaborole Esters at Physiological pH. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 44742-44750.	4.0	35
167	Molecular Dynamics Study on the Mechanism of Graphene Oxide to Destabilize Oil/Water Emulsion. <i>Journal of Physical Chemistry C</i> , 2019, 123, 22989-22999.	1.5	34
168	Fundamentals and Advances in the Adhesion of Polymer Surfaces and Thin Films. <i>Langmuir</i> , 2019, 35, 15914-15936.	1.6	66
169	A wet adhesion strategy via synergistic cationic and hydrogen bonding interactions of antifouling zwitterions and mussel-inspired binding moieties. <i>Journal of Materials Chemistry A</i> , 2019, 7, 21944-21952.	5.2	66
170	Probing the Self-Assembly and Nonlinear Friction Behavior of Confined Gold Nano-Particles. <i>Langmuir</i> , 2019, 35, 15701-15709.	1.6	4
171	Probing effects of molecular-level heterogeneity of surface hydrophobicity on hydrophobic interactions in air/water/solid systems. <i>Journal of Colloid and Interface Science</i> , 2019, 557, 438-449.	5.0	29
172	Adsorption of hydrophobically modified polyacrylamide P(AM-NaAA-C16DMAAC) on model coal and clay surfaces and the effect on selective flocculation of fine coal. <i>Minerals Engineering</i> , 2019, 142, 105887.	1.8	37
173	Selective separation of copper-molybdenum sulfides using humic acids. <i>Minerals Engineering</i> , 2019, 133, 43-46.	1.8	33
174	Mechanistic Understanding and Nanomechanics of Multiple Hydrogen-Bonding Interactions in Aqueous Environment. <i>Journal of Physical Chemistry C</i> , 2019, 123, 4540-4548.	1.5	19
175	Interaction Mechanisms of Zwitterions with Opposite Dipoles in Aqueous Solutions. <i>Langmuir</i> , 2019, 35, 2842-2853.	1.6	13
176	Stretchable, Injectable, and Self-Healing Conductive Hydrogel Enabled by Multiple Hydrogen Bonding toward Wearable Electronics. <i>Chemistry of Materials</i> , 2019, 31, 4553-4563.	3.2	321
177	A comparison study on adsorption and interaction behaviors of diluted bitumen and conventional crude oil on model mineral surface. <i>Fuel</i> , 2019, 253, 383-391.	3.4	17
178	Interfacial behavior and interaction mechanism of pentol/water interface stabilized with asphaltenes. <i>Journal of Colloid and Interface Science</i> , 2019, 553, 341-349.	5.0	31
179	Investigation of the Antifouling Mechanism of Electroless Nickel-Phosphorus Coating against Sand and Bitumen. <i>Energy &amp; Fuels</i> , 2019, 33, 6350-6360.	2.5	2
180	Probing the interactions of hydroxamic acid and mineral surfaces: Molecular mechanism underlying the selective separation. <i>Chemical Engineering Journal</i> , 2019, 374, 123-132.	6.6	68

#	ARTICLE	IF	CITATIONS
181	Rapid Dewatering and Consolidation of Concentrated Colloidal Suspensions: Mature Fine Tailings via Self-Healing Composite Hydrogel. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 21610-21618.	4.0	17
182	Facile preparation of novel and active 2D nanosheets from non-layered and traditionally non-exfoliable earth-abundant materials. <i>Journal of Materials Chemistry A</i> , 2019, 7, 15411-15419.	5.2	28
183	Highly Porous, Hydrophobic, and Compressible Cellulose Nanocrystals/Poly(vinyl alcohol) Aerogels as Recyclable Absorbents for Oil/Water Separation. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 11118-11128.	3.2	136
184	Adsorption characteristics and mechanisms of O-Carboxymethyl chitosan on chalcopyrite and molybdenite. <i>Journal of Colloid and Interface Science</i> , 2019, 552, 659-670.	5.0	65
185	Fouling mechanisms of asphaltenes and fine solids on bare and electroless nickel-phosphorus coated carbon steel. <i>Fuel</i> , 2019, 252, 188-199.	3.4	11
186	Polypyrrole-Doped Conductive Supramolecular Elastomer with Stretchability, Rapid Self-Healing, and Adhesive Property for Flexible Electronic Sensors. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 18720-18729.	4.0	135
187	Injectable, Self-Healing Hydrogel with Tunable Optical, Mechanical, and Antimicrobial Properties. <i>Chemistry of Materials</i> , 2019, 31, 2366-2376.	3.2	86
188	Co-aromatization of methane with propane over Zn/HZSM-5: The methane reaction pathway and the effect of Zn distribution. <i>Applied Catalysis B: Environmental</i> , 2019, 250, 99-111.	10.8	42
189	Hetero-difunctional Reagent with Superior Flotation Performance to Chalcopyrite and the Associated Surface Interaction Mechanism. <i>Langmuir</i> , 2019, 35, 4353-4363.	1.6	31
190	Insights into the Interfacial Process in Electroless Ni-P Coating on Supercritical CO <sub>2</sub> Transport Pipeline as Relevant to Carbon Capture and Storage. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 16243-16251.	4.0	27
191	Tough and Alkaline-Resistant Mussel-Inspired Wet Adhesion with Surface Salt Displacement via Polydopamine/Amine Synergy. <i>Langmuir</i> , 2019, 35, 5257-5263.	1.6	35
192	Cost-Effective Strategy for Surface Modification via Complexation of Disassembled Polydopamine with Fe(III) Ions. <i>Langmuir</i> , 2019, 35, 4101-4109.	1.6	26
193	Unveiling the Critical Role of Surface Oxidation of Electroresponsive Behaviors in Two-Dimensional Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXenes. <i>Journal of Physical Chemistry C</i> , 2019, 123, 5479-5487.	1.5	17
194	Nitrogen, Oxygen and Cobalt multiple-doped graphitized mesoporous carbon as a cost-effective carbon host with high sulfur content for lithium-sulfur batteries. <i>Journal of Alloys and Compounds</i> , 2019, 787, 1356-1364.	2.8	11
195	Probing fouling mechanism of naphthenic acids on forward osmosis polymer membranes in oil sands process water treatment. <i>Journal of Membrane Science</i> , 2019, 576, 161-170.	4.1	8
196	Flotation separation of Cu-Mo sulfides by O-Carboxymethyl chitosan. <i>Minerals Engineering</i> , 2019, 134, 202-205.	1.8	35
197	Promoted electro-responsive performances in an interface-confined oxidized niobium carbide MXene. <i>Chemical Engineering Journal</i> , 2019, 366, 321-329.	6.6	51
198	A novel metal-organic layered material with superior supercapacitive performance through ultrafast and reversible tetraethylammonium intercalation. <i>Nano Energy</i> , 2019, 59, 102-109.	8.2	26

#	ARTICLE	IF	CITATIONS
199	Corrosion Failure and Control of Carbon Steel and Anti-Corrosion Performance Evaluation of Candidate Materials in Thermal Applications. , 2019, , .		2
200	Constructing spraying-processed complementary smart windows <i>via</i> electrochromic materials with hierarchical nanostructures. Journal of Materials Chemistry C, 2019, 7, 14855-14860.	2.7	21
201	Preface to the Intermolecular Forces and Interfacial Science Special Issue, Dedicated to Jacob N. Israelachvili, 1944–2018. Langmuir, 2019, 35, 15433-15434.	1.6	0
202	Unraveling the effects of CO <sub>2</sub> and H <sub>2</sub> S on the corrosion behavior of electroless Ni-P coating in CO <sub>2</sub> /H <sub>2</sub> S/Cl <sup>-</sup> environments at high temperature and high pressure. Corrosion Science, 2019, 148, 317-330.	3.0	63
203	Development of Self-Cross-Linked Soy Adhesive by Enzyme Complex from <i>Aspergillus niger</i> for Production of All-Biomass Composite Materials. ACS Sustainable Chemistry and Engineering, 2019, 7, 3909-3916.	3.2	79
204	A robust aqueous-processable polymer binder for long-life, high-performance lithium sulfur battery. Energy Storage Materials, 2019, 21, 61-68.	9.5	58
205	A novel comb-typed poly(oligo(ethylene glycol) methylether acrylate) as an excellent aqueous lubricant. Journal of Colloid and Interface Science, 2019, 539, 342-350.	5.0	27
206	Probing the Molecular Interactions and Lubrication Mechanisms of Purified Full-Length Recombinant Human Proteoglycan 4 (rhPRG4) and Hyaluronic Acid (HA). Biomacromolecules, 2019, 20, 1056-1067.	2.6	20
207	Mechanistic Investigation on Catalytic Deoxygenation of Phenol as a Model Compound of Biocrude Under Methane. ACS Sustainable Chemistry and Engineering, 2019, 7, 1512-1523.	3.2	13
208	Intermolecular and surface forces at solid/oil/water/gas interfaces in petroleum production. Journal of Colloid and Interface Science, 2019, 537, 505-519.	5.0	31
209	Understanding the stabilization mechanism of bitumen-coated fine solids in organic media from non-aqueous extraction of oil sands. Fuel, 2019, 242, 255-264.	3.4	30
210	Probing the Interaction Mechanism between Oil-in-Water Emulsions and Electroless Nickel–Phosphorus Coating with Implications for Antifouling in Oil Production. Energy & Fuels, 2019, 33, 3764-3775.	2.5	11
211	Nature of Asphaltene Aggregates. Energy & Fuels, 2019, 33, 3694-3710.	2.5	36
212	Unraveling the molecular interaction mechanism between graphene oxide and aromatic organic compounds with implications on wastewater treatment. Chemical Engineering Journal, 2019, 358, 842-849.	6.6	48
213	Novel Fe <sub>3</sub> O <sub>4</sub> based superhydrophilic core-shell microspheres for breaking asphaltenes-stabilized water-in-oil emulsion. Chemical Engineering Journal, 2019, 358, 869-877.	6.6	67
214	Characterization of microstructure and properties of electroless duplex Ni-W-P/Ni-P nano-ZrO <sub>2</sub> composite coating. Materials Today Physics, 2018, 4, 36-42.	2.9	37
215	Effect of defect on corrosion behavior of electroless Ni-P coating in CO <sub>2</sub> -saturated NaCl solution. Corrosion Science, 2018, 134, 23-37.	3.0	57
216	Regenerable urchin-like Fe <sub>3</sub> O <sub>4</sub> @PDA-Ag hollow microspheres as catalyst and adsorbent for enhanced removal of organic dyes. Journal of Hazardous Materials, 2018, 350, 66-75.	6.5	172

#	ARTICLE	IF	CITATIONS
217	Novel N-doped ZrO <sub>2</sub> with enhanced visible-light photocatalytic activity for hydrogen production and degradation of organic dyes. RSC Advances, 2018, 8, 6752-6758.	1.7	48
218	Probing Anisotropic Surface Properties and Surface Forces of Fluorite Crystals. Langmuir, 2018, 34, 2511-2521.	1.6	67
219	A Molecular Dynamics Study of the Effect of Asphaltenes on Toluene/Water Interfacial Tension: Surfactant or Solute?. Energy & Fuels, 2018, 32, 3225-3231.	2.5	39
220	Universal Mussel-Inspired Ultrastable Surface-Anchoring Strategy via Adaptive Synergy of Catechol and Cations. ACS Applied Materials & Interfaces, 2018, 10, 2166-2173.	4.0	43
221	Probing molecular interaction mechanisms of organic fouling on polyamide membrane using a surface forces apparatus: Implication for wastewater treatment. Science of the Total Environment, 2018, 622-623, 644-654.	3.9	16
222	Adsorption kinetics of asphaltenes at oil/water interface: Effects of concentration and temperature. Fuel, 2018, 212, 387-394.	3.4	136
223	Probing the Interaction Mechanism between Air Bubbles and Bitumen Surfaces in Aqueous Media Using Bubble Probe Atomic Force Microscopy. Langmuir, 2018, 34, 729-738.	1.6	49
224	Catalytic valorization of biomass derived glycerol under methane: Effect of catalyst synthesis method. Fuel, 2018, 216, 218-226.	3.4	16
225	Tuning protein adsorption on charged polyelectrolyte brushes via salinity adjustment. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2018, 539, 37-45.	2.3	19
226	Selective flotation separation of molybdenite and talc by humic substances. Minerals Engineering, 2018, 117, 34-41.	1.8	46
227	Evaluation of the Scaling Resistance of Different Coating and Material for Thermal Operations. , 2018, , ,		1
228	Material Selection for Thermal Inflow Control Device Manufacturing to Minimize the Silica and Calcium Carbonate Scaling Potential. , 2018, , ,		6
229	Understanding Adsorption of Violanthrone-79 as a Model Asphaltene Compound on Quartz Surface Using Molecular Dynamics Simulations. Journal of Physical Chemistry C, 2018, 122, 28787-28796.	1.5	30
230	Efficient Fog Harvesting Based on 1D Copper Wire Inspired by the Plant Pitaya. Langmuir, 2018, 34, 15259-15267.	1.6	42
231	Protein-Resistant Property of Egg White Ovomucin under Different pHs and Ionic Strengths. Journal of Agricultural and Food Chemistry, 2018, 66, 11034-11042.	2.4	8
232	Direct catalytic co-conversion of cellulose and methane to renewable petrochemicals. Catalysis Science and Technology, 2018, 8, 5632-5645.	2.1	16
233	Magnesium-mechanochemical reduced SiO <sub>2</sub> for high-performance lithium ion batteries. Journal of Power Sources, 2018, 407, 112-122.	4.0	36
234	Rational Design of Self-Healing Tough Hydrogels: A Mini Review. Frontiers in Chemistry, 2018, 6, 497.	1.8	99



#	ARTICLE	IF	CITATIONS
235	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
236	Aqueous-processable polymer binder with strong mechanical and polysulfide-trapping properties for high performance of lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2018, 6, 18660-18668.	5.2	51
237	Standalone Sand Control Failure: Review of Slotted Liner, Wire Wrap Screen, and Premium Mesh Screen Failure Mechanism. , 2018, , .		16
238	Catalytic aromatization of acetone as a model compound for biomass-derived oil under a methane environment. <i>Catalysis Science and Technology</i> , 2018, 8, 5104-5114.	2.1	15
239	Biomimetic Lubrication and Surface Interactions of Dopamine-Assisted Zwitterionic Polyelectrolyte Coatings. <i>Langmuir</i> , 2018, 34, 11593-11601.	1.6	50
240	Effects of high pressure homogenization on faba bean protein aggregation in relation to solubility and interfacial properties. <i>Food Hydrocolloids</i> , 2018, 83, 275-286.	5.6	192
241	Spontaneous repairing liquid metal/Si nanocomposite as a smart conductive-additive-free anode for lithium-ion battery. <i>Nano Energy</i> , 2018, 50, 359-366.	8.2	89
242	Understanding the surface properties and rheology of a silica suspension mediated by a comb-type poly(acrylic acid)/poly(ethylene oxide) (PAA/PEO) copolymer: effect of salinity. <i>Soft Matter</i> , 2018, 14, 4810-4819.	1.2	3
243	Robust polymer nanofilms with bioengineering and environmental applications <i>via</i> facile and highly efficient covalent layer-by-layer assembly. <i>Journal of Materials Chemistry B</i> , 2018, 6, 3742-3750.	2.9	18
244	Mussel-Inspired Immobilization of Silver Nanoparticles toward Antimicrobial Cellulose Paper. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 9178-9188.	3.2	99
245	Probing the Effect of Salt on Asphaltene Aggregation in Aqueous Solutions Using Molecular Dynamics Simulations. <i>Energy &amp; Fuels</i> , 2018, 32, 8090-8097.	2.5	10
246	Application of Electroless Nickel Coating as a Scaling Resistant Alloy in Thermal Production. , 2018, , .		2
247	A Quadruple-Hydrogen-Bonded Supramolecular Binder for High-Performance Silicon Anodes in Lithium-Ion Batteries. <i>Small</i> , 2018, 14, e1801189.	5.2	171
248	Scalable polyzwitterion-polydopamine coating for regenerable oil/water separation and underwater self-cleaning of stubborn heavy oil fouling without pre-hydration. <i>Chemical Communications</i> , 2018, 54, 9734-9737.	2.2	36
249	Modulation of Hydrophobic Interaction by Mediating Surface Nanoscale Structure and Chemistry, not Monotonically by Hydrophobicity. <i>Angewandte Chemie</i> , 2018, 130, 12079-12084.	1.6	16
250	An amphiphobic graphene-based hydrogel as oil-water separator and oil fence material. <i>Chemical Engineering Journal</i> , 2018, 353, 708-716.	6.6	55
251	Modulation of Hydrophobic Interaction by Mediating Surface Nanoscale Structure and Chemistry, not Monotonically by Hydrophobicity. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 11903-11908.	7.2	62
252	Synthesis of Highly Biocompatible and Temperature-Responsive Physical Gels for Cryopreservation and 3D Cell Culture. <i>ACS Applied Bio Materials</i> , 2018, 1, 356-366.	2.3	33



#	ARTICLE	IF	CITATIONS
253	Reversible fabrication and self-assembly of a gemini supra-amphiphile driven by dynamic covalent bonds. <i>Soft Matter</i> , 2018, 14, 5995-6000.	1.2	5
254	Catalytic co-aromatization of methane and heptane as an alkane model compound over Zn-Ga/ZSM-5: A mechanistic study. <i>Applied Catalysis B: Environmental</i> , 2018, 236, 13-24.	10.8	46
255	Viscoelastic Surfactants with High Salt Tolerance, Fast Dissolving Property, and Ultralow Interfacial Tension for Chemical Flooding in Offshore Oilfields. <i>Journal of Surfactants and Detergents</i> , 2018, 21, 475-488.	1.0	17
256	Interactions between micro-scale oil droplets in aqueous surfactant solution determined using optical tweezers. <i>Journal of Colloid and Interface Science</i> , 2018, 532, 128-135.	5.0	23
257	Probing molecular interactions between humic acid and surface-grafted polyacrylamide using quartz crystal microbalance with dissipation and atomic force microscopy: implications for environmental remediation. <i>Environmental Chemistry</i> , 2018, 15, 336.	0.7	4
258	Catalytic Valorization of Furfural under Methane Environment. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 8891-8903.	3.2	19
259	Biofunctionalized silicon nitride platform for sensing applications. <i>Biosensors and Bioelectronics</i> , 2018, 102, 497-503.	5.3	11
260	Surface Interaction of Water-in-Oil Emulsion Droplets with Interfacially Active Asphaltenes. <i>Langmuir</i> , 2017, 33, 1265-1274.	1.6	110
261	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
262	Hierarchical Self-Assembly of Dopamine into Patterned Structures. <i>Advanced Materials Interfaces</i> , 2017, 4, 1601218.	1.9	13
263	Injectable Self-Healing Hydrogel with Antimicrobial and Antifouling Properties. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 9221-9225.	4.0	145
264	Surface Forces and Interaction Mechanisms of Emulsion Drops and Gas Bubbles in Complex Fluids. <i>Langmuir</i> , 2017, 33, 3911-3925.	1.6	98
265	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
266	Methane Upgrading of Acetic Acid as a Model Compound for a Biomass-Derived Liquid over a Modified Zeolite Catalyst. <i>ACS Catalysis</i> , 2017, 7, 3681-3692.	5.5	40
267	Anticorrosion performance of chromized coating prepared by pack cementation in simulated solution with H <sub>2</sub> S and CO <sub>2</sub> . <i>Applied Surface Science</i> , 2017, 419, 197-205.	3.1	16
268	Probing the Effect of Salinity and pH on Surface Interactions between Air Bubbles and Hydrophobic Solids: Implications for Colloidal Assembly at Air/Water Interfaces. <i>Chemistry - an Asian Journal</i> , 2017, 12, 1568-1577.	1.7	26
269	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
270	Co-aromatization of olefin and methane over Ag-Ga/ZSM-5 catalyst at low temperature. <i>Applied Catalysis B: Environmental</i> , 2017, 211, 275-288.	10.8	61

#	ARTICLE	IF	CITATIONS
271	Salt Triggers the Simple Coacervation of an Underwater Adhesive When Cations Meet Aromatic $\pi$ -Electrons in Seawater. <i>ACS Nano</i> , 2017, 11, 6764-6772.	7.3	149
272	Wettability effect on nanoconfined water flow: Insights and perspectives. <i>Nano Today</i> , 2017, 16, 7-8.	6.2	28
273	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
274	Filtration of Glycoprotein-Modified Carboxylated Polystyrene Microspheres as Cryptosporidium Oocysts Surrogates: Effects of Flow Rate, Alum, and Humic Acid. <i>Journal of Environmental Engineering, ASCE</i> , 2017, 143, 04017032.	0.7	4
275	Core cross-linked double hydrophilic block copolymer micelles based on multiple hydrogen-bonding interactions. <i>Polymer Chemistry</i> , 2017, 8, 3066-3073.	1.9	33
276	Polyamine-modified magnetic graphene oxide nanocomposite for enhanced selenium removal. <i>Separation and Purification Technology</i> , 2017, 183, 249-257.	3.9	66
277	Octadecyltrichlorosilane Deposition on Mica Surfaces: Insights into the Interface Interaction Mechanism. <i>Journal of Physical Chemistry B</i> , 2017, 121, 3151-3161.	1.2	25
278	Rapid copolymerization of canola oil derived epoxide monomers with anhydrides and carbon dioxide ( $\text{CO}_2$ ). <i>Polymer Chemistry</i> , 2017, 8, 6431-6442.	1.9	6
279	Duplicating Dynamic Strain-Stiffening Behavior and Nanomechanics of Biological Tissues in a Synthetic Self-Healing Flexible Network Hydrogel. <i>ACS Nano</i> , 2017, 11, 11074-11081.	7.3	105
280	Deposition and Adhesion of Polydopamine on the Surfaces of Varying Wettability. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 30943-30950.	4.0	139
281	Probing interactions between sphalerite and hydrophobic/hydrophilic surfaces: Effect of water chemistry. <i>Powder Technology</i> , 2017, 320, 511-518.	2.1	21
282	Heterogeneous Distribution of Adsorbed Bitumen on Fine Solids from Solvent-Based Extraction of Oil Sands Probed by AFM. <i>Energy &amp; Fuels</i> , 2017, 31, 8833-8842.	2.5	23
283	Ultrafast colorimetric humidity-sensitive polyelectrolyte coating for touchless control. <i>Materials Horizons</i> , 2017, 4, 72-82.	6.4	54
284	Mechanistic Understanding of Asphaltene Surface Interactions in Aqueous Media. <i>Energy &amp; Fuels</i> , 2017, 31, 3348-3357.	2.5	38
285	Adhesion and Detachment Mechanisms between Polymer and Solid Substrate Surfaces: Using Polystyrene-Mica as a Model System. <i>Macromolecules</i> , 2016, 49, 5223-5231.	2.2	54
286	Nanomechanics of Poly(catecholamine) Coatings in Aqueous Solutions. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 3342-3346.	7.2	173
287	Comparison of the transport and deposition of <i>Pseudomonas aeruginosa</i> under aerobic and anaerobic conditions. <i>Water Resources Research</i> , 2016, 52, 1127-1139.	1.7	5
288	Sugary interfaces mitigate contact damage where stiff meets soft. <i>Nature Communications</i> , 2016, 7, 11923.	5.8	27

#	ARTICLE	IF	CITATIONS
289	Recent experimental advances on hydrophobic interactions at solid/water and fluid/water interfaces. <i>Biointerphases</i> , 2016, 11, 018903.	0.6	37
290	A two-step flocculation process on oil sands tailings treatment using oppositely charged polymer flocculants. <i>Science of the Total Environment</i> , 2016, 565, 369-375.	3.9	66
291	Role of Aqueous Phase Chemistry, Interfacial Film Properties, and Surface Coverage in Stabilizing Water-in-Bitumen Emulsions. <i>Energy &amp; Fuels</i> , 2016, 30, 5240-5252.	2.5	60
292	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
293	Dendrimer functionalized graphene oxide for selenium removal. <i>Carbon</i> , 2016, 105, 655-664.	5.4	90
294	Probing the Reversible Fe <sup>3+</sup> -DOPA-Mediated Bridging Interaction in Mussel Foot Protein-1. <i>Journal of Physical Chemistry C</i> , 2016, 120, 21670-21677.	1.5	22
295	Self-Healing and Injectable Shear Thinning Hydrogels Based on Dynamic Oxaborole-Diol Covalent Cross-Linking. <i>ACS Biomaterials Science and Engineering</i> , 2016, 2, 2315-2323.	2.6	42
296	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
297	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
298	Catalytic co-aromatization of ethanol and methane. <i>Applied Catalysis B: Environmental</i> , 2016, 198, 480-492.	10.8	42
299	Understanding the stability mechanisms of lentil legumin-like protein and polysaccharide foams. <i>Food Hydrocolloids</i> , 2016, 61, 903-913.	5.6	60
300	Long-Range Hydrophilic Attraction between Water and Polyelectrolyte Surfaces in Oil. <i>Angewandte Chemie</i> , 2016, 128, 15241-15245.	1.6	4
301	Molecular Weight Dependence of Synthetic Glycopolymers on Flocculation and Dewatering of Fine Particles. <i>Langmuir</i> , 2016, 32, 11615-11622.	1.6	18
302	Evaluation of an Advanced Metal Bonded Coating Technology for Improved SAGD Performance. , 2016, , .		3
303	Long-Range Hydrophilic Attraction between Water and Polyelectrolyte Surfaces in Oil. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 15017-15021.	7.2	103
304	Molecular Interactions between a Biodegradable Demulsifier and Asphaltenes in an Organic Solvent. <i>Energy &amp; Fuels</i> , 2016, 30, 10179-10186.	2.5	12
305	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
306	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

#	ARTICLE	IF	CITATIONS
307	Nanomechanics of Poly(catecholamine) Coatings in Aqueous Solutions. <i>Angewandte Chemie</i> , 2016, 128, 3403-3407.	1.6	15
308	Probing Interactions between Air Bubble and Hydrophobic Polymer Surface: Impact of Solution Salinity and Interfacial Nanobubbles. <i>Langmuir</i> , 2016, 32, 11236-11244.	1.6	63
309	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
310	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
311	Structural Evolutions of ZnS Nanoparticles in Hydrated and Bare States. <i>Journal of Physical Chemistry C</i> , 2016, 120, 7870-7884.	1.5	10
312	Complexation and coacervation of like-charged polyelectrolytes inspired by mussels. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E847-53.	3.3	187
313	Interaction Mechanism of Oil-in-Water Emulsions with Asphaltenes Determined Using Droplet Probe AFM. <i>Langmuir</i> , 2016, 32, 2302-2310.	1.6	124
314	Fabrication of ultrathin conductive protein-based fibrous films and their thermal sensing properties. <i>Journal of Materials Chemistry A</i> , 2016, 4, 4711-4717.	5.2	7
315	Modeling of the Effect of Cell Deformation Associated with Microbubble Collision in Centrifugation Field. <i>Cellular and Molecular Bioengineering</i> , 2016, 9, 162-174.	1.0	3
316	Nanomechanical Contribution of Collagen and von Willebrand Factor A in Marine Underwater Adhesion and Its Implication for Collagen Manipulation. <i>Biomacromolecules</i> , 2016, 17, 946-953.	2.6	11
317	Understanding of physicochemical properties and formation mechanisms of fine particular matter generated from Canadian coal combustion. <i>Fuel</i> , 2016, 165, 224-234.	3.4	29
318	Marine mussel adhesion and bio-inspired wet adhesives. <i>Biotribology</i> , 2016, 5, 44-51.	0.9	76
319	CHAPTER 5. Intrinsic Self-Healing Polymeric Materials for Engineering and Environmental Applications. <i>RSC Smart Materials</i> , 2016, , 139-164.	0.1	0
320	A size-dependent structural evolution of ZnS nanoparticles. <i>Scientific Reports</i> , 2015, 5, 14267.	1.6	32
321	Mussel Adhesives. , 2015, , 49-84.		2
322	Structure and properties of water film adsorbed on mica surfaces. <i>Journal of Chemical Physics</i> , 2015, 143, 104705.	1.2	32
323	Adhesion and friction of an isolated gecko setal array: The effects of substrates and relative humidity. <i>Biosurface and Biotribology</i> , 2015, 1, 42-49.	0.6	18
324	Temperature- and pH-Responsive Benzoboroxole-Based Polymers for Flocculation and Enhanced Dewatering of Fine Particle Suspensions. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 27176-27187.	4.0	30

#	ARTICLE	IF	CITATIONS
325	Novel Mussel-Inspired Injectable Self-Healing Hydrogel with Anti-Biofouling Property. <i>Advanced Materials</i> , 2015, 27, 1294-1299.	11.1	473
326	Probing the Interaction between Air Bubble and Sphalerite Mineral Surface Using Atomic Force Microscope. <i>Langmuir</i> , 2015, 31, 2438-2446.	1.6	90
327	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
328	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
329	Interaction between Air Bubbles and Superhydrophobic Surfaces in Aqueous Solutions. <i>Langmuir</i> , 2015, 31, 7317-7327.	1.6	80
330	A novel PKD2L1 C-terminal domain critical for trimerization and channel function. <i>Scientific Reports</i> , 2015, 5, 9460.	1.6	11
331	Development of electroless Ni-P/nano-WC composite coatings and investigation on its properties. <i>Surface and Coatings Technology</i> , 2015, 277, 99-106.	2.2	115
332	Impact of pH on molecular structure and surface properties of lentil legumin-like protein and its application as foam stabilizer. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015, 132, 45-53.	2.5	117
333	Nanofibers: Clumping Criteria of Vertical Nanofibers on Surfaces ( <i>Adv. Mater. Interfaces</i> 5(2015)). <i>Advanced Materials Interfaces</i> , 2015, 2, .	1.9	1
334	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
335	Effects of salinity on xanthate adsorption on sphalerite and bubble-sphalerite interactions. <i>Minerals Engineering</i> , 2015, 77, 34-41.	1.8	37
336	Probing the Adsorption of Weak Acids on Graphite Using Amplitude Modulation-Frequency Modulation Atomic Force Microscopy. <i>Langmuir</i> , 2015, 31, 3069-3075.	1.6	6
337	Clumping Criteria of Vertical Nanofibers on Surfaces. <i>Advanced Materials Interfaces</i> , 2015, 2, 1400466.	1.9	14
338	Simultaneous Measurements of Molecular Forces and Electro-Optical Properties of a Confined 5CB Liquid Crystal Film Using a Surface Forces Apparatus. <i>Langmuir</i> , 2015, 31, 3965-3972.	1.6	6
339	Poly(acrylic acid) functionalized magnetic graphene oxide nanocomposite for removal of methylene blue. <i>RSC Advances</i> , 2015, 5, 32272-32282.	1.7	75
340	Cation interaction in DOPA-deficient mussel adhesive protein mfp-1. <i>Journal of Materials Chemistry B</i> , 2015, 3, 738-743.	2.9	87
341	Solvent Effects on the Formation of Surface Nanodroplets by Solvent Exchange. <i>Langmuir</i> , 2015, 31, 12120-12125.	1.6	33
342	Probing Anisotropic Surface Properties of Molybdenite by Direct Force Measurements. <i>Langmuir</i> , 2015, 31, 11409-11418.	1.6	68

#	ARTICLE	IF	CITATIONS
343	Asialoglycoprotein Receptor-Mediated Gene Delivery to Hepatocytes Using Galactosylated Polymers. <i>Biomacromolecules</i> , 2015, 16, 3008-3020.	2.6	63
344	Mussel-inspired antifouling coatings bearing polymer loops. <i>Chemical Communications</i> , 2015, 51, 15780-15783.	2.2	91
345	Surface pressure affects B-hordein network formation at the air-water interface in relation to gastric digestibility. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015, 135, 784-792.	2.5	11
346	The significant impact of polydopamine on the catalytic performance of the carried Au nanoparticles. <i>Chemical Communications</i> , 2015, 51, 1469-1471.	2.2	74
347	Mussel-inspired hydrogels for biomedical and environmental applications. <i>Polymer Chemistry</i> , 2015, 6, 353-358.	1.9	177
348	Study of N-isopropoxypropyl-N-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.	5.0	83
349	Real-Time Visualization of Joint Cavitation. <i>PLoS ONE</i> , 2015, 10, e0119470.	1.1	46
350	Characterizing factors affecting the hot liquid penetration performance of fabrics for protective clothing. <i>Textile Research Journal</i> , 2014, 84, 174-186.	1.1	16
351	In Vivo Residue-Specific Dopa-Incorporated Engineered Mussel Bioglue with Enhanced Adhesion and Water Resistance. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 13360-13364.	7.2	88
352	Frontispiece: In Vivo Residue-Specific Dopa-Incorporated Engineered Mussel Bioglue with Enhanced Adhesion and Water Resistance. <i>Angewandte Chemie - International Edition</i> , 2014, 53, n/a-n/a.	7.2	0
353	Adhesion and Surface Interactions of a Self-Healing Polymer with Multiple Hydrogen Bonding Groups. <i>Advanced Functional Materials</i> , 2014, 24, 2322-2333.	7.8	202
354	Understanding nanorheology and surface forces of confined thin films. <i>Korea Australia Rheology Journal</i> , 2014, 26, 3-14.	0.7	22
355	Efficient removal of elemental mercury (Hg <sup>0</sup> ) by SBA-15-Ag adsorbents. <i>Journal of Materials Chemistry A</i> , 2014, 2, 17730-17734.	5.2	59
356	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
357	Understanding Mechanisms of Asphaltene Adsorption from Organic Solvent on Mica. <i>Langmuir</i> , 2014, 30, 9370-9377.	1.6	63
358	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
359	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
360	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

#	ARTICLE	IF	CITATIONS
361	Effect of peptide secondary structure on adsorption and adsorbed film properties on end-grafted polyethylene oxide layers. <i>Acta Biomaterialia</i> , 2014, 10, 56-66.	4.1	9
362	Water-dispersible magnetic nanoparticle-graphene oxide composites for selenium removal. <i>Carbon</i> , 2014, 77, 710-721.	5.4	165
363	Frontispiz: In Vivo Residue-Specific Dopa-Incorporated Engineered Mussel Biogluce with Enhanced Adhesion and Water Resistance. <i>Angewandte Chemie</i> , 2014, 126, n/a-n/a.	1.6	0
364	On the Size Distribution of Self-Associated Asphaltenes. <i>Energy &amp; Fuels</i> , 2013, 27, 5083-5106.	2.5	98
365	Construction of smart surfaces with polymer functionalized silica nanoparticles. <i>Polymer Chemistry</i> , 2013, 4, 1038-1047.	1.9	25
366	Recent advances in gecko adhesion and friction mechanisms and development of gecko-inspired dry adhesive surfaces. <i>Friction</i> , 2013, 1, 114-129.	3.4	137
367	Microbubble-Enhanced Cell Membrane Permeability in High Gravity Field. <i>Cellular and Molecular Bioengineering</i> , 2013, 6, 266-278.	1.0	3
368	Nanomechanics of Cation Interactions in Aqueous Solution. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 3944-3948.	7.2	163
369	Understanding the Effect of Secondary Structure on Molecular Interactions of Poly-L-lysine with Different Substrates by SFA. <i>Biomacromolecules</i> , 2013, 14, 3498-3508.	2.6	14
370	Interaction Mechanism between Hydrophobic and Hydrophilic Surfaces: Using Polystyrene and Mica as a Model System. <i>Langmuir</i> , 2013, 29, 12443-12451.	1.6	57
371	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
372	Effect of peptide secondary structure on adsorption and adsorbed film properties. <i>Acta Biomaterialia</i> , 2013, 9, 6403-6413.	4.1	15
373	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
374	Adhesion of mussel foot proteins to different substrate surfaces. <i>Journal of the Royal Society Interface</i> , 2013, 10, 20120759.	1.5	258
375	Marine mussel adhesion: biochemistry, mechanisms, and biomimetics. <i>Journal of Adhesion Science and Technology</i> , 2013, 27, 2139-2162.	1.4	112
376	Impact of cranberry juice on initial adhesion of the EPS producing bacterium <i>Burkholderia cepacia</i> . <i>Biofouling</i> , 2012, 28, 417-431.	0.8	6
377	Anisotropic interfacial friction of inclined multiwall carbon nanotube array surface. <i>Carbon</i> , 2012, 50, 5372-5379.	5.4	24
378	Sliding Wear Behaviour of Nanocrystalline Fe <sub>88</sub> Si <sub>12</sub> Alloy Under Low Load and Speed. <i>Tribology Letters</i> , 2012, 48, 329-335.	1.2	8



#	ARTICLE	IF	CITATIONS
379	Molecular Interactions of a Polyaromatic Surfactant C5Pe in Aqueous Solutions Studied by a Surface Forces Apparatus. <i>Journal of Physical Chemistry B</i> , 2012, 116, 11187-11196.	1.2	38
380	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.	1.5	25
381	Probing Molecular Interactions of an Asphaltene Model Compound in Organic Solvents Using a Surface Forces Apparatus (SFA). <i>Energy &amp; Fuels</i> , 2012, 26, 2591-2599.	2.5	46
382	The effects of biofilm on the transport of stabilized zerovalent iron nanoparticles in saturated porous media. <i>Water Research</i> , 2012, 46, 975-985.	5.3	80
383	Adsorption of mercaptobenzoheterocyclic compounds on sulfide mineral surfaces: A density functional theory study of structure- <i>reactivity</i> relations. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2012, 409, 1-9.	2.3	64
384	Design of gecko-inspired fibrillar surfaces with strong attachment and easy-removal properties: a numerical analysis of peel-zone. <i>Journal of the Royal Society Interface</i> , 2012, 9, 2424-2436.	1.5	26
385	Mussel foot protein-1 (mcfp-1) interaction with titania surfaces. <i>Journal of Materials Chemistry</i> , 2012, 22, 15530.	6.7	61
386	Adhesion mechanism in a DOPA-deficient foot protein from green mussels. <i>Soft Matter</i> , 2012, 8, 5640.	1.2	116
387	Hydrophobic interactions between polymer surfaces: using polystyrene as a model system. <i>Soft Matter</i> , 2012, 8, 2746.	1.2	113
388	Measurements of Anisotropic (Off-Axis) Friction-Induced Motion. <i>Advanced Materials</i> , 2012, 24, 5236-5241.	11.1	20
389	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
390	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
391	Molecular interactions of mussel protective coating protein, mcfp-1, from <i>Mytilus californianus</i> . <i>Biomaterials</i> , 2012, 33, 1903-1911.	5.7	90
392	Carbon capture and storage using alkaline industrial wastes. <i>Progress in Energy and Combustion Science</i> , 2012, 38, 302-320.	15.8	436
393	Surface-Induced Patterns from Evaporating Droplets of Aqueous Carbon Nanotube Dispersions. <i>Langmuir</i> , 2011, 27, 7163-7167.	1.6	42
394	Understanding the Deposition and Surface Interactions of Gypsum. <i>Journal of Physical Chemistry C</i> , 2011, 115, 17485-17494.	1.5	31
395	The Extended Peel Zone Model: Effect of Peeling Velocity. <i>Journal of Adhesion</i> , 2011, 87, 1045-1058.	1.8	22
396	Understanding the molecular interactions of lipopolysaccharides during <i>E. coli</i> initial adhesion with a surface forces apparatus. <i>Soft Matter</i> , 2011, 7, 9366.	1.2	62

#	ARTICLE	IF	CITATIONS
397	A new purification method for carbon nanotubes and associated atomic force microscope force-distance curve analysis. Separation and Purification Technology, 2011, 81, 174-183.	3.9	4
398	Understanding Molecular Interactions of Asphaltenes in Organic Solvents Using a Surface Force Apparatus. Journal of Physical Chemistry C, 2011, 115, 16043-16051.	1.5	83
399	Microtribology of Aqueous Carbon Nanotube Dispersions. Advanced Functional Materials, 2011, 21, 4555-4564.	7.8	34
400	Agricultural Wastes. Water Environment Research, 2011, 83, 1439-1466.	1.3	9
401	Reversible shear thickening at low shear rates of electrorheological fluids under electric fields. Physical Review E, 2011, 83, 011401.	0.8	39
402	Anisotropic dynamic changes in the pore network structure, fluid diffusion and fluid flow in articular cartilage under compression. Biomaterials, 2010, 31, 3117-3128.	5.7	40
403	Strong reversible Fe <sup>3+</sup> -mediated bridging between dopa-containing protein films in water. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 12850-12853.	3.3	437
404	Protein- and Metal-dependent Interactions of a Prominent Protein in Mussel Adhesive Plaques. Journal of Biological Chemistry, 2010, 285, 25850-25858.	1.6	227
405	Liquid- to Solid-Like Failure Mechanism of Thin Polymer Films at Micro- and Nanoscales. Macromolecules, 2010, 43, 538-542.	2.2	19
406	Viscosity and interfacial properties in a mussel-inspired adhesive coacervate. Soft Matter, 2010, 6, 3232.	1.2	212
407	Direct Measurement of Double-Layer, van der Waals, and Polymer Depletion Attraction Forces between Supported Cationic Bilayers. Langmuir, 2010, 26, 14458-14465.	1.6	24
408	Recent advances in the surface forces apparatus (SFA) technique. Reports on Progress in Physics, 2010, 73, 036601.	8.1	459
409	Force amplification response of actin filaments under confined compression. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 445-449.	3.3	26
410	Friction at the Liquid/Liquid Interface of Two Immiscible Polymer Films. Langmuir, 2009, 25, 4954-4964.	1.6	30
411	Formation of Supported Bilayers on Silica Substrates. Langmuir, 2009, 25, 6997-7005.	1.6	204
412	Gecko adhesion pad: a smart surface?. Journal of Physics Condensed Matter, 2009, 21, 464132.	0.7	72
413	Role of Tilted Adhesion Fibrils (Setae) in the Adhesion and Locomotion of Gecko-like Systems. Journal of Physical Chemistry B, 2009, 113, 3615-3621.	1.2	70
414	The Crowding Model as a Tool to Understand and Fabricate Gecko-Inspired Dry Adhesives. Journal of Adhesion, 2009, 85, 512-525.	1.8	18

#	ARTICLE	IF	CITATIONS
415	Frictional Adhesion of Patterned Surfaces and Implications for Gecko and Biomimetic Systems. Langmuir, 2009, 25, 7486-7495.	1.6	75
416	New SFA Techniques for Studying Surface Forces and Thin Film Patterns Induced by Electric Fields. Langmuir, 2008, 24, 1173-1182.	1.6	48
417	Adhesion and Friction Force Coupling of Gecko Setal Arrays: Implications for Structured Adhesive Surfaces. Langmuir, 2008, 24, 1517-1524.	1.6	106
418	Peel-Zone Model of Tape Peeling Based on the Gecko Adhesive System. Journal of Adhesion, 2007, 83, 383-401.	1.8	159
419	Transient filamentous network structure of a colloidal suspension excited by stepwise electric fields. Physical Review E, 2007, 75, 011409.	0.8	6
420	Transient surface patterns during adhesion and coalescence of thin liquid films. Soft Matter, 2007, 3, 88-93.	1.2	26
421	Transient Interfacial Patterns and Instabilities Associated with Liquid Film Adhesion and Spreading. Langmuir, 2007, 23, 6126-6135.	1.6	17
422	Transient Surface Patterns and Instabilities at Adhesive Junctions of Viscoelastic Films. Macromolecules, 2007, 40, 8409-8422.	2.2	34
423	Limit Cycles in Dynamic Adhesion and Friction Processes: A Discussion. Journal of Adhesion, 2006, 82, 933-943.	1.8	31
424	Adhesion and friction in gecko toe attachment and detachment. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 19320-19325.	3.3	546
425	Adhesion and Friction of Polystyrene Surfaces around $T_g$ . Macromolecules, 2006, 39, 2350-2363.	2.2	75
426	Adhesion and detachment mechanisms of sugar surfaces from the solid (glassy) to liquid (viscous) states. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 19624-19629.	3.3	16
427	Recoverable Underwater Superhydrophobicity From a Fully Wetted State via Dynamic Air Spreading. SSRN Electronic Journal, 0, , .	0.4	0