List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Nanoconfining Cation-Ï€ Interactions as a Modular Strategy to Construct Injectable Self-Healing Hydrogel. CCS Chemistry, 2022, 4, 2724-2737.	7.8	31
2	Mussel-inspired superhydrophilic membrane constructed on a hydrophilic polymer network for highly efficient oil/water separation. Journal of Colloid and Interface Science, 2022, 608, 702-710.	9.4	46
3	In-situ fabrication of metal oxide nanocaps based on biphasic reactions with surface nanodroplets. Journal of Colloid and Interface Science, 2022, 608, 2235-2245.	9.4	8
4	The role of fouling materials strength on unplugging sand control devices using an electrohydraulic stimulation technique. Journal of Petroleum Science and Engineering, 2022, 208, 109689.	4.2	1
5	Interactions of model airborne particulate matter with dipalmitoyl phosphatidylcholine and a clinical surfactant Calsurf. Journal of Colloid and Interface Science, 2022, 607, 1993-2009.	9.4	3
6	A new cyclic carbonate enables high power/ low temperature lithium-ion batteries. Energy Storage Materials, 2022, 45, 14-23.	18.0	27
7	Probing Hydrophobic Interactions between Polymer Surfaces and Air Bubbles or Oil Droplets: Effects of Molecular Weight and Surfactants. Langmuir, 2022, 38, 5257-5268.	3.5	4
8	A Universal Strategy for Constructing Robust and Antifouling Cellulose Nanocrystal Coating. Advanced Functional Materials, 2022, 32, 2109989.	14.9	51
9	In-situ generated hydroxides realize near-unity CO selectivity for electrochemical CO2 reduction. Chemical Engineering Journal, 2022, 433, 133785.	12.7	9
10	Facile and scalable surface functionalization approach with small silane molecules for oil/water separation and demulsification of surfactant/asphaltenes-stabilized emulsions. Separation and Purification Technology, 2022, 285, 120382.	7.9	12
11	Decarbonization of mineral processing operations: Realizing the potential of carbon capture and utilization in the processing of ultramafic nickel ores. Chemical Engineering Journal, 2022, 433, 134203.	12.7	4
12	High-efficiency and durable removal of water-in-heavy oil emulsions enabled by delignified and carboxylated basswood with zwitterionic nanohydrogel coatings. Journal of Colloid and Interface Science, 2022, 612, 445-458.	9.4	8
13	Revisiting the adhesion mechanism of mussel-inspired chemistry. Chemical Science, 2022, 13, 1698-1705.	7.4	53
14	Recent progress in conductive selfâ€healing hydrogels for flexible sensors. Journal of Polymer Science, 2022, 60, 2607-2634.	3.8	41
15	Interfacial Partitioning Enhances Microextraction by Multicomponent Nanodroplets. Journal of Physical Chemistry C, 2022, 126, 1326-1336.	3.1	10
16	Demystifying constructive strategies on designing functionalized lamellar Nb <sub>2</sub> CT <sub><i>x</i></sub> nanosheet membrane architectures under confined space. Journal of Materials Chemistry A, 2022, 10, 4200-4208.	10.3	0
17	Treatment Technologies for Organics and Silica Removal in Steam-Assisted Gravity Drainage Produced Water: A Comprehensive Review. Energy & Fuels, 2022, 36, 1205-1231.	5.1	4
18	Phosphate Removal from Wastewater by Magnetic Amorphous Lanthanum Silicate Alginate Hydrogel Beads. Minerals (Basel, Switzerland), 2022, 12, 171.	2.0	6

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19	Soft armour-like layer-protected hydrogels for wet tissue adhesion and biological imaging. Chemical Engineering Journal, 2022, 434, 134418.	12.7	24
20	Electrochemically reconstructed perovskite with cooperative catalytic sites for CO2-to-formate conversion. Applied Catalysis B: Environmental, 2022, 306, 121101.	20.2	14
21	Probing Anionâ~'Ï€ Interactions between Fluoroarene and Carboxylate Anion in Aqueous Solutions. Journal of Colloid and Interface Science, 2022, 615, 778-785.	9.4	5
22	Hydrogen-Bonding-Driven Multifunctional Polymer Hydrogel Networks Based on Tannic Acid. ACS Applied Polymer Materials, 2022, 4, 1836-1845.	4.4	24
23	Unraveling roles of lead ions in selective flotation of scheelite and fluorite from atomic force microscopy and first-principles calculations. Minerals Engineering, 2022, 179, 107424.	4.3	14
24	Principles of Cationâ~ï€ Interactions for Engineering Mussel-Inspired Functional Materials. Accounts of Chemical Research, 2022, 55, 1171-1182.	15.6	42
25	Hydrogels for the removal of the methylene blue dye from wastewater: a review. Environmental Chemistry Letters, 2022, 20, 2665-2685.	16.2	30
26	Self-healing, reusable and conductive cellulose nanocrystals-containing adhesives. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 643, 128797.	4.7	14
27	Surface modified silver/magnetite nanocomposite activating hydrogen peroxide for efficient degradation of chlorophenols. Journal of Colloid and Interface Science, 2022, 617, 246-256.	9.4	5
28	Stretchable, compressible, and conductive hydrogel for sensitive wearable soft sensors. Journal of Colloid and Interface Science, 2022, 618, 111-120.	9.4	59
29	Effects of chemical inhibitors on the scaling behaviors of calcite and the associated surface interaction mechanisms. Journal of Colloid and Interface Science, 2022, 618, 507-517.	9.4	14
30	Smart waterborne composite coating with passive/active protective performances using nanocontainers based on metal organic frameworks derived layered double hydroxides. Journal of Colloid and Interface Science, 2022, 619, 132-147.	9.4	25
31	Contribution of protein microgels, protein molecules, and polysaccharides to the emulsifying behaviors of core/shell whey protein-alginate microgel systems. Food Hydrocolloids, 2022, 129, 107670.	10.7	11
32	Zwitterionic ionic liquids modulating two-dimensional hierarchically porous zeolitic imidazolate framework composites. Journal of Colloid and Interface Science, 2022, 620, 365-375.	9.4	4
33	Highly stretchable, elastic, antimicrobial conductive hydrogels with environment-adaptive adhesive property for health monitoring. Journal of Colloid and Interface Science, 2022, 622, 612-624.	9.4	13
34	Growth Rates of Hydrogen Microbubbles in Reacting Femtoliter Droplets. Langmuir, 2022, 38, 6638-6646.	3.5	4
35	Metal organic frameworks (MOFs) as multifunctional nanoplatform for anticorrosion surfaces and coatings. Advances in Colloid and Interface Science, 2022, 305, 102707.	14.7	18
36	Emulsions in Bitumen Froth Treatment and Methods for Demulsification and Fines Removal in Naphthenic Froth Treatment: Review and Perspectives. Energy & amp; Fuels, 2022, 36, 8607-8623.	5.1	5

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37	Mussel-inspired polyethylene glycol coating for constructing antifouling membrane for water purification. Journal of Colloid and Interface Science, 2022, 625, 628-639.	9.4	14
38	Beneficiation of Nickel from Ultramafic Ores: Using Sodium Citrate as a Green Processing Reagent. Resources, Conservation and Recycling, 2022, 186, 106496.	10.8	6
39	Effect of non-ionic surfactants on the adsorption of polycyclic aromatic compounds at water/oil interface: A molecular simulation study. Journal of Colloid and Interface Science, 2021, 586, 766-777.	9.4	33
40	Tannic acid/Fe3+ functionalized magnetic graphene oxide nanocomposite with high loading of silver nanoparticles as ultra-efficient catalyst and disinfectant for wastewater treatment. Chemical Engineering Journal, 2021, 405, 126629.	12.7	72
41	One-step multiple-site integration strategy for CO2 capture and conversion into cyclic carbonates under atmospheric and cocatalyst/metal/solvent-free conditions. Applied Catalysis B: Environmental, 2021, 283, 119620.	20.2	67
42	Novel multifunctional solid slippery surfaces with self-assembled fluorine-free small molecules. Chemical Engineering Journal, 2021, 404, 127064.	12.7	10
43	Stabilization mechanism and chemical demulsification of water-in-oil and oil-in-water emulsions in petroleum industry: A review. Fuel, 2021, 286, 119390.	6.4	143
44	In-situ probing of electrochemical dissolution and surface properties of chalcopyrite with implications for the dissolution kinetics and passivation mechanism. Journal of Colloid and Interface Science, 2021, 584, 103-113.	9.4	14
45	Utilization of waste cooking oil for highly efficient recovery of unburned carbon from coal fly ash. Journal of Cleaner Production, 2021, 282, 124547.	9.3	21
46	A three-dimensional crosslinked chitosan sulfate network binder for high-performance Li–S batteries. Journal of Energy Chemistry, 2021, 56, 171-178.	12.9	22
47	Probing the corrosion resistance of a smart electroless Ni-P composite coating embedded with pH-responsive corrosion inhibitor-loaded nanocapsules. Chemical Engineering Journal, 2021, 421, 127752.	12.7	9
48	Dual-Cross-Linked Network Hydrogels with Multiresponsive, Self-Healing, and Shear Strengthening Properties. Biomacromolecules, 2021, 22, 800-810.	5.4	29
49	Recent advances in electrochemical techniques for characterizing surface properties of minerals. Advances in Colloid and Interface Science, 2021, 288, 102346.	14.7	28
50	Metal chelation based supramolecular self-assembly enables a high-performance organic anode for lithium ion batteries. Chemical Engineering Journal, 2021, 413, 127525.	12.7	8
51	Mussel-inspired adhesive and conductive hydrogel with tunable mechanical properties for wearable strain sensors. Journal of Colloid and Interface Science, 2021, 585, 420-432.	9.4	81
52	Intermolecular and Surface Interactions in Engineering Processes. Engineering, 2021, 7, 63-83.	6.7	26
53	Soy-Based Adhesives Functionalized with Pressure-Responsive Crosslinker Microcapsules for Enhanced Wet Adhesion. ACS Applied Polymer Materials, 2021, 3, 1032-1041.	4.4	29
54	Probing the In Situ Redox Behavior of Selenium on a Pyrite Surface by Scanning Electrochemical Microscopy. Journal of Physical Chemistry C, 2021, 125, 3018-3026.	3.1	4

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55	Coacervation-driven instant paintable underwater adhesives with tunable optical and electrochromic properties. Journal of Materials Chemistry A, 2021, 9, 12988-13000.	10.3	30
56	Nanomechanical Insights into Versatile Polydopamine Wet Adhesive Interacting with Liquid-Infused and Solid Slippery Surfaces. ACS Applied Materials & Interfaces, 2021, 13, 6941-6950.	8.0	23
57	Surface reactivity of the cyanobacterium Synechocystis sp. PCC 6803 – Implications for trace metals transport to the oceans. Chemical Geology, 2021, 562, 120045.	3.3	3
58	Effect of interaction between two single-particle-impingements on the repassivation behavior of 304 stainless steel in a simulated groundwater. Corrosion Reviews, 2021, 39, 149-164.	2.0	1
59	Recent advances in bubble-based technologies: Underlying interaction mechanisms and applications. Applied Physics Reviews, 2021, 8, .	11.3	24
60	Dual Cross-Linked Hydrogels with Injectable, Self-Healing, and Antibacterial Properties Based on the Chemical and Physical Cross-Linking. Biomacromolecules, 2021, 22, 1685-1694.	5.4	35
61	Graphene-based materials for adsorptive removal of pollutants from water and underlying interaction mechanism. Advances in Colloid and Interface Science, 2021, 289, 102360.	14.7	49
62	Nanomechanics of Lignin–Cellulase Interactions in Aqueous Solutions. Biomacromolecules, 2021, 22, 2033-2042.	5.4	32
63	Graphene oxideâ€based nobleâ€metal nanoparticles composites for environmental application. Composites Communications, 2021, 24, 100645.	6.3	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. Fuel, 2021, 290, 120008.	6.4	7
65	Mechanically Strong Proteinaceous Fibers: Engineered Fabrication by Microfluidics. Engineering, 2021, 7, 615-623.	6.7	44
66	Injectable Self-Healing Hydrogel via Biological Environment-Adaptive Supramolecular Assembly for Gastric Perforation Healing. ACS Nano, 2021, 15, 9913-9923.	14.6	57
67	Modulating surface interactions for regenerable separation of oil-in-water emulsions. Journal of Membrane Science, 2021, 625, 119140.	8.2	21
68	A Janus facilitated transport membrane with asymmetric surface wettability and dense/porous structure: Enabling high stability and separation efficiency. Journal of Membrane Science, 2021, 626, 119183.	8.2	13
69	Electronic Delocalization of Bismuth Oxide Induced by Sulfur Doping for Efficient CO <sub>2</sub> Electroreduction to Formate. ACS Catalysis, 2021, 11, 7604-7612.	11.2	80
70	Ultra-strong bio-glue from genetically engineered polypeptides. Nature Communications, 2021, 12, 3613.	12.8	104
71	Formation and stability of oilâ€laden foam: Effect of surfactant and hydrocarbon solvent. Canadian Journal of Chemical Engineering, 2021, 99, 2658-2669.	1.7	3
72	Probing the Interactions between Pickering Emulsion Droplets Stabilized with pH-Responsive Nanoparticles. Journal of Physical Chemistry B, 2021, 125, 7320-7331.	2.6	8

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73	Role of Ca2+ in the CO2 corrosion behavior and film characteristics of N80 steel and electroless Ni–P coating at high temperature and high pressure. Materials Chemistry and Physics, 2021, 267, 124618.	4.0	12
74	Unraveling the Interaction of Water-in-Oil Emulsion Droplets via Molecular Simulations and Surface Force Measurements. Journal of Physical Chemistry B, 2021, 125, 7556-7567.	2.6	8
75	Size Effect on the Reaction Rate of Surface Nanodroplets. Journal of Physical Chemistry C, 2021, 125, 15324-15334.	3.1	6
76	Understanding the hetero-aggregation mechanism among sulfide and oxide mineral particles driven by bifunctional surfactants: Intensification flotation of oxide minerals. Minerals Engineering, 2021, 169, 106928.	4.3	11
77	Self-healing Hydrogels and Underlying Reversible Intermolecular Interactions. Chinese Journal of Polymer Science (English Edition), 2021, 39, 1246-1261.	3.8	15
78	Catechol-Vanadium Binding Enhances Cross-Linking and Mechanics of a Mussel Byssus Coating Protein. Chemistry of Materials, 2021, 33, 6530-6540.	6.7	27
79	High molecular weight guar gum assisted settling of fine solids in diluted bitumen: Effect of solvents. Petroleum Science, 2021, 18, 1877-1886.	4.9	7
80	Surface interaction mechanisms in mineral flotation: Fundamentals, measurements, and perspectives. Advances in Colloid and Interface Science, 2021, 295, 102491.	14.7	47
81	Ion-specific effect on self-cleaning performances of polyelectrolyte-functionalized membranes and the underlying nanomechanical mechanism. Journal of Membrane Science, 2021, 634, 119408.	8.2	5
82	Uncovering the hydrophobic mechanism of a novel dithiocarbamate-hydroxamate surfactant towards galena. Chemical Engineering Science, 2021, 245, 116765.	3.8	23
83	Anti-biofouling materials and surfaces based on mussel-inspired chemistry. Materials Advances, 2021, 2, 2216-2230.	5.4	8
84	Enhanced Adsorption of Anionic Polymer on Montmorillonite by Divalent Cations and the Effect of Salinity. Journal of Physical Chemistry A, 2021, 125, 1025-1035.	2.5	9
85	Cancer theranostic platforms based on injectable polymer hydrogels. Biomaterials Science, 2021, 9, 3543-3575.	5.4	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. ACS Nano, 2021, 15, 17757-17768.	14.6	47
87	Coacervate-Based Instant and Repeatable Underwater Adhesive with Anticancer and Antibacterial Properties. ACS Applied Materials & amp; Interfaces, 2021, 13, 48239-48251.	8.0	32
88	2D Material Nanofiltration Membranes: From Fundamental Understandings to Rational Design. Advanced Science, 2021, 8, e2102493.	11.2	29
89	Nanometer-Scale Force Profiles of Short Single- and Double-Stranded DNA Molecules on a Gold Surface Measured Using a Surface Forces Apparatus. Langmuir, 2021, 37, 13346-13352.	3.5	4
90	Unplugging Standalone Sand-Control Screens Using High-Power Shock Waves. SPE Drilling and Completion, 2021, 36, 398-412.	1.6	4

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91	Understanding the Properties of Bitumen Froth from Oil Sands Surface Mining and Treatment of Water-in-Oil Emulsions. Energy & Fuels, 2021, 35, 20079-20091.	5.1	3
92	Bench-scale oil fouling/antifouling tests under high temperature and high pressure conditions and the underlying interfacial interaction mechanisms. Fuel, 2021, 314, 122720.	6.4	5
93	Electrochemically Dismantled Perovskite with Cooperative Catalysis for CO2-to-Formate Conversion. ECS Meeting Abstracts, 2021, MA2021-02, 1318-1318.	0.0	0
94	Recoverable underwater superhydrophobicity from a fully wetted state via dynamic air spreading. IScience, 2021, 24, 103427.	4.1	4
95	Mesoporous carbon xerogel material for the adsorption of model naphthenic acids: structure effect and kinetics modelling. Environmental Technology (United Kingdom), 2020, 41, 3534-3543.	2.2	9
96	Probing the interaction mechanism between oil droplets with asphaltenes and solid surfaces using AFM. Journal of Colloid and Interface Science, 2020, 558, 173-181.	9.4	51
97	Bio-inspired membrane with adaptable wettability for smart oil/water separation. Journal of Membrane Science, 2020, 598, 117661.	8.2	83
98	Tannic acid modified MoS2 nanosheet membranes with superior water flux and ion/dye rejection. Journal of Colloid and Interface Science, 2020, 560, 177-185.	9.4	45
99	Nanomechanics of Anionâ~ï€ Interaction in Aqueous Solution. Journal of the American Chemical Society, 2020, 142, 1710-1714.	13.7	67
100	Recent progress in synthesis and application of mussel-inspired adhesives. Nanoscale, 2020, 12, 1307-1324.	5.6	230
101	Role of molecular architecture in the modulation of hydrophobic interactions. Current Opinion in Colloid and Interface Science, 2020, 47, 58-69.	7.4	36
102	Insights into the erosion-enhanced corrosion on electroless Ni–P coating from single particle impingement. Corrosion Science, 2020, 166, 108422.	6.6	22
103	Polydopamine Nanotubes Decorated with Ag Nanoparticles as Catalyst for the Reduction of Methylene Blue. ACS Applied Nano Materials, 2020, 3, 156-164.	5.0	36
104	Mussel-inspired cellulose-based adhesive with biocompatibility and strong mechanical strength via metal coordination. International Journal of Biological Macromolecules, 2020, 144, 127-134.	7.5	68
105	Recyclable Ag-decorated highly carbonaceous magnetic nanocomposites for the removal of organic pollutants. Journal of Colloid and Interface Science, 2020, 562, 52-62.	9.4	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. Energy & Fuels, 2020, 34, 13893-13902.	5.1	11
107	Interactions of particulate matter and pulmonary surfactant: Implications for human health. Advances in Colloid and Interface Science, 2020, 284, 102244.	14.7	56
108	Adhesive Coacervates Driven by Hydrogenâ€Bonding Interaction. Small, 2020, 16, e2004132.	10.0	45

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109	Nanomechanics of π-cation-π interaction with implications for bio-inspired wet adhesion. Acta Biomaterialia, 2020, 117, 294-301.	8.3	37
110	Characterization and corrosion behavior of electroless Ni-Mo-P/Ni-P composite coating in CO2/H2S/Clâr brine: Effects of Mo addition and heat treatment. Surface and Coatings Technology, 2020, 403, 126416.	4.8	23
111	Bioinspired Lignin-Polydopamine Nanocapsules with Strong Bioadhesion for Long-Acting and High-Performance Natural Sunscreens. Biomacromolecules, 2020, 21, 3231-3241.	5.4	62
112	Progress in Bioinspired Dry and Wet Gradient Materials from Design Principles to Engineering Applications. IScience, 2020, 23, 101749.	4.1	20
113	Unusual Surface Ligand Doping-Induced p-Type Quantum Dot Solids and Their Application in Solar Cells. ACS Applied Materials & Interfaces, 2020, 12, 53942-53949.	8.0	9
114	Mussel-Inspired Adhesive Double-Network Hydrogel for Intraoral Ultrasound Imaging. ACS Applied Bio Materials, 2020, 3, 8943-8952.	4.6	17
115	Temperature-Induced Transition from Indirect to Direct Adsorption of Polycyclic Aromatic Hydrocarbons on Quartz: A Combined Theoretical and Experimental Study. Industrial & Engineering Chemistry Research, 2020, 59, 18500-18509.	3.7	8
116	Structure of the Silica/Divalent Electrolyte Interface: Molecular Insight into Charge Inversion with Increasing pH. Journal of Physical Chemistry C, 2020, 124, 26973-26981.	3.1	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. Fuel, 2020, 279, 118482.	6.4	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. Petroleum Science, 2020, 17, 1726-1736.	4.9	5
121	Integrated Nanoextraction and Colorimetric Reactions in Surface Nanodroplets for Combinative Analysis. Analytical Chemistry, 2020, 92, 12442-12450.	6.5	14
122	A Nanomechanical Study on Deciphering the Stickiness of SARS-CoV-2 on Inanimate Surfaces. ACS Applied Materials & Interfaces, 2020, 12, 58360-58368.	8.0	25
123	Dynamic Flexible Hydrogel Network with Biological Tissue-like Self-Protective Functions. Chemistry of Materials, 2020, 32, 10545-10555.	6.7	30
124	Assembly of Ultralight Dual Network Graphene Aerogel with Applications for Selective Oil Absorption. Langmuir, 2020, 36, 13698-13707.	3.5	37
125	Ultra elastic, stretchable, self-healing conductive hydrogels with tunable optical properties for highly sensitive soft electronic sensors. Journal of Materials Chemistry A, 2020, 8, 24718-24733.	10.3	128
126	Molecular simulation of folding and aggregation of multi-core polycyclic aromatic compounds. Journal of Molecular Liquids, 2020, 310, 113248.	4.9	5

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127	Ultra-efficient and stable heterogeneous iron-based Fenton nanocatalysts for degrading organic dyes at neutral pH <i>via</i> a chelating effect under nanoconfinement. Chemical Communications, 2020, 56, 6571-6574.	4.1	29
128	Interfacial ion specificity modulates hydrophobic interaction. Journal of Colloid and Interface Science, 2020, 578, 135-145.	9.4	16
129	A new method to obtain the repassivation time of passive materials based on the single particle impingement. Corrosion Science, 2020, 170, 108717.	6.6	2
130	Effect of salinity on adsorption and interaction forces of hydrophobically modified polyacrylamide on silica and alumina surfaces. Minerals Engineering, 2020, 150, 106280.	4.3	12
131	Polyacrylamide/Alginate double-network tough hydrogels for intraoral ultrasound imaging. Journal of Colloid and Interface Science, 2020, 578, 598-607.	9.4	38
132	Bio-Inspired Passion Fruit-like Fe <sub>3</sub> O <sub>4</sub> @C Nanospheres Enabling High-Stability Magnetorheological Performances. Langmuir, 2020, 36, 7706-7714.	3.5	15
133	Electrochemical investigation of the interactions of organic and inorganic depressants on basal and edge planes of molybdenite. Journal of Colloid and Interface Science, 2020, 570, 350-361.	9.4	22
134	Water-Based Dual-Cross-Linked Polymer Binders for High-Energy-Density Lithium–Sulfur Batteries. ACS Applied Materials & Interfaces, 2020, 12, 29316-29323.	8.0	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. Industrial & Engineering Chemistry Research, 2020, 59, 6662-6671.	3.7	7
137	A bioinspired hydrogen bond crosslink strategy toward toughening ultrastrong and multifunctional nanocomposite hydrogels. Journal of Materials Chemistry B, 2020, 8, 4002-4015.	5.8	88
138	New insights into the interfacial behavior and swelling of polymer inclusion membrane (PIM) during Zn (II) extraction process. Chemical Engineering Science, 2020, 220, 115620.	3.8	13
139	Surface forces and interaction mechanisms of soft thin films under confinement: a short review. Soft Matter, 2020, 16, 6697-6719.	2.7	16
140	A Laboratory Workflow for Characterization of Scaling Deposits in Thermal Wells. Energies, 2020, 13, 3184.	3.1	1
141	Probing the Interaction Mechanism between Benzohydroxamic Acid and Mineral Surface in the Presence of Pb <sup>2+</sup> lons by AFM Force Measurements and First-Principles Calculations. Langmuir, 2020, 36, 8199-8208.	3.5	24
142	Speeding up biphasic reactions with surface nanodroplets. Lab on A Chip, 2020, 20, 2965-2974.	6.0	12
143	Hydrogels. , 2020, , 203-244.		25
144	Buckling Effect of Sole Zeolitic Imidazolate Framework-8 Nanoparticles Adsorbed at the Water/Oil Interface. Langmuir, 2020, 36, 2322-2329.	3.5	13

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145	Novel sodium alginate-assisted MXene nanosheets for ultrahigh rejection of multiple cations and dyes. Journal of Colloid and Interface Science, 2020, 568, 36-45.	9.4	31
146	Recent Advances in Mechano-Responsive Hydrogels for Biomedical Applications. ACS Applied Polymer Materials, 2020, 2, 1092-1107.	4.4	59
147	Challenges in developing polymer flocculants to improve bitumen quality in non-aqueous extraction processes: an experimental study. Petroleum Science, 2020, 17, 811-821.	4.9	14
148	Surface Interactions between Water-in-Oil Emulsions with Asphaltenes and Electroless Nickel–Phosphorus Coating. Langmuir, 2020, 36, 897-905.	3.5	12
149	Recent Advances in the Quantification and Modulation of Hydrophobic Interactions for Interfacial Applications. Langmuir, 2020, 36, 2985-3003.	3.5	47
150	Self-Regulated Phenomenon of Inorganic Artificial Solid Electrolyte Interphase for Lithium Metal Batteries. Nano Letters, 2020, 20, 4029-4037.	9.1	78
151	Recent advances in designing conductive hydrogels for flexible electronics. InformaÄnÃ-Materiály, 2020, 2, 843-865.	17.3	150
152	Probing the intermolecular interaction mechanisms between humic acid and different substrates with implications for its adsorption and removal in water treatment. Water Research, 2020, 176, 115766.	11.3	50
153	CO2/N2-responsive oil-in-water emulsions using a novel switchable surfactant. Journal of Colloid and Interface Science, 2020, 571, 134-141.	9.4	41
154	Injectable and Self-Healing Nanocomposite Hydrogels with Ultrasensitive pH-Responsiveness and Tunable Mechanical Properties: Implications for Controlled Drug Delivery. Biomacromolecules, 2020, 21, 2409-2420.	5.4	107
155	Synergetic adsorption of polymers on montmorillonite: Insights from molecular dynamics simulations. Applied Clay Science, 2020, 193, 105654.	5.2	24
156	Insights into the Electrochemical Corrosion Behavior and Mechanism of Electroless Ni-P Coating in the CO2/H2S/Clâ^' Environment. Corrosion, 2020, 76, 578-590.	1.1	18
157	Metal oxide nanoparticle-modified graphene oxide for removal of elemental mercury. Environmental Technology (United Kingdom), 2019, 40, 3602-3610.	2.2	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. Journal of Petroleum Science and Engineering, 2019, 182, 106325.	4.2	23
159	Probing the Interaction Forces of Phenol/Amine Deposition in Wet Adhesion: Impact of Phenol/Amine Mass Ratio and Surface Properties. Langmuir, 2019, 35, 15639-15650.	3.5	12
160	Engineering the morphology of TiO2/carbon hybrids via oxidized Ti3C2Tx MXene and associated electrorheological activities. Chemical Engineering Journal, 2019, 378, 122170.	12.7	22
161	Probing the adsorption and interaction mechanisms of hydrophobically modified polyacrylamide P(AM-NaAA-C16DMAAC) on model coal surface: Impact of salinity. Minerals Engineering, 2019, 141, 105841.	4.3	16
162	Probing molecular interactions of PEGylated chitosan in aqueous solutions using a surface force apparatus. Physical Chemistry Chemical Physics, 2019, 21, 20571-20581.	2.8	11

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163	Destabilization of fine solids suspended in oil media through wettability modification and water-assisted agglomeration. Fuel, 2019, 254, 115623.	6.4	16
164	Metformin attenuates hepatoma cell proliferation by decreasing glycolytic flux through the HIF-1α/PFKFB3/PFK1 pathway. Life Sciences, 2019, 239, 116966.	4.3	52
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