

Hongbo Zeng

List of Publications by Year in descending order

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427
papers

21,115
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9786

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all docs

454
docs citations

454
times ranked

17597
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	7.1	546
2	Novel Mussel-Inspired Injectable Self-Healing Hydrogel with Anti-Biofouling Property. Advanced Materials, 2015, 27, 1294-1299.	21.0	473
3	Recent advances in the surface forces apparatus (SFA) technique. Reports on Progress in Physics, 2010, 73, 036601.	20.1	459
4	Strong reversible Fe ³⁺ -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.	7.1	437
5	Carbon capture and storage using alkaline industrial wastes. Progress in Energy and Combustion Science, 2012, 38, 302-320.	31.2	436
6	Highly Regenerable Mussel-Inspired Fe ₃ O ₄ @Polydopamine-Ag Core-Shell Microspheres as Catalyst and Adsorbent for Methylene Blue Removal. ACS Applied Materials & Interfaces, 2014, 6, 8845-8852.	8.0	385
7	Stretchable, Injectable, and Self-Healing Conductive Hydrogel Enabled by Multiple Hydrogen Bonding toward Wearable Electronics. Chemistry of Materials, 2019, 31, 4553-4563.	6.7	321
8	Adhesion of mussel foot proteins to different substrate surfaces. Journal of the Royal Society Interface, 2013, 10, 20120759.	3.4	258
9	Recent progress in synthesis and application of mussel-inspired adhesives. Nanoscale, 2020, 12, 1307-1324.	5.6	230
10	Protein- and Metal-dependent Interactions of a Prominent Protein in Mussel Adhesive Plaques. Journal of Biological Chemistry, 2010, 285, 25850-25858.	3.4	227
11	Viscosity and interfacial properties in a mussel-inspired adhesive coacervate. Soft Matter, 2010, 6, 3232.	2.7	212
12	Formation of Supported Bilayers on Silica Substrates. Langmuir, 2009, 25, 6997-7005.	3.5	204
13	Adhesion and Surface Interactions of a Self-Healing Polymer with Multiple Hydrogen-Bonding Groups. Advanced Functional Materials, 2014, 24, 2322-2333.	14.9	202
14	Functional Conductive Hydrogels for Bioelectronics. , 2020, 2, 1287-1301.		193
15	Effects of high pressure homogenization on faba bean protein aggregation in relation to solubility and interfacial properties. Food Hydrocolloids, 2018, 83, 275-286.	10.7	192
16	Complexation and coacervation of like-charged polyelectrolytes inspired by mussels. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E847-53.	7.1	187
17	Mussel-inspired hydrogels for biomedical and environmental applications. Polymer Chemistry, 2015, 6, 353-358.	3.9	177
18	Nanomechanics of Poly(catecholamine) Coatings in Aqueous Solutions. Angewandte Chemie - International Edition, 2016, 55, 3342-3346.	13.8	173

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19	Regenerable urchin-like Fe ₃ O ₄ @PDA-Ag hollow microspheres as catalyst and adsorbent for enhanced removal of organic dyes. <i>Journal of Hazardous Materials</i> , 2018, 350, 66-75.	12.4	172
20	A Quadruple-Hydrogen-Bonded Supramolecular Binder for High-Performance Silicon Anodes in Lithium-Ion Batteries. <i>Small</i> , 2018, 14, e1801189.	10.0	171
21	Water-dispersible magnetic nanoparticle-graphene oxide composites for selenium removal. <i>Carbon</i> , 2014, 77, 710-721.	10.3	165
22	Measuring Forces and Spatiotemporal Evolution of Thin Water Films between an Air Bubble and Solid Surfaces of Different Hydrophobicity. <i>ACS Nano</i> , 2015, 9, 95-104.	14.6	164
23	Nanomechanics of Cation- π Interactions in Aqueous Solution. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 3944-3948.	13.8	163
24	Peel-Zone Model of Tape Peeling Based on the Gecko Adhesive System. <i>Journal of Adhesion</i> , 2007, 83, 383-401.	3.0	159
25	Recent advances in designing conductive hydrogels for flexible electronics. <i>Informa-π-Materi-πly</i> , 2020, 2, 843-865.	17.3	150
26	Salt Triggers the Simple Coacervation of an Underwater Adhesive When Cations Meet Aromatic π Electrons in Seawater. <i>ACS Nano</i> , 2017, 11, 6764-6772.	14.6	149
27	Injectable Self-Healing Hydrogel with Antimicrobial and Antifouling Properties. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 9221-9225.	8.0	145
28	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.	6.4	143
29	Deposition and Adhesion of Polydopamine on the Surfaces of Varying Wettability. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 30943-30950.	8.0	139
30	Recent advances in gecko adhesion and friction mechanisms and development of gecko-inspired dry adhesive surfaces. <i>Friction</i> , 2013, 1, 114-129.	6.4	137
31	Adsorption kinetics of asphaltenes at oil/water interface: Effects of concentration and temperature. <i>Fuel</i> , 2018, 212, 387-394.	6.4	136
32	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.	6.7	136
33	Polypyrrole-Doped Conductive Supramolecular Elastomer with Stretchability, Rapid Self-Healing, and Adhesive Property for Flexible Electronic Sensors. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 18720-18729.	8.0	135
34	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.	10.3	128
35	Interaction Mechanism of Oil-in-Water Emulsions with Asphaltenes Determined Using Droplet Probe AFM. <i>Langmuir</i> , 2016, 32, 2302-2310.	3.5	124
36	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.	5.0	117

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37	Adhesion mechanism in a DOPA-deficient foot protein from green mussels. <i>Soft Matter</i> , 2012, 8, 5640.	2.7	116
38	Development of electroless Ni-P/nano-WC composite coatings and investigation on its properties. <i>Surface and Coatings Technology</i> , 2015, 277, 99-106.	4.8	115
39	Hydrophobic interactions between polymer surfaces: using polystyrene as a model system. <i>Soft Matter</i> , 2012, 8, 2746.	2.7	113
40	Marine mussel adhesion: biochemistry, mechanisms, and biomimetics. <i>Journal of Adhesion Science and Technology</i> , 2013, 27, 2139-2162.	2.6	112
41	Surface Interaction of Water-in-Oil Emulsion Droplets with Interfacially Active Asphaltenes. <i>Langmuir</i> , 2017, 33, 1265-1274.	3.5	110
42	Probing the Hydrophobic Interaction between Air Bubbles and Partially Hydrophobic Surfaces Using Atomic Force Microscopy. <i>Journal of Physical Chemistry C</i> , 2014, 118, 25000-25008.	3.1	108
43	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.	5.4	107
44	Adhesion and Friction Force Coupling of Gecko Setal Arrays: Implications for Structured Adhesive Surfaces. <i>Langmuir</i> , 2008, 24, 1517-1524.	3.5	106
45	Reduction of Water/Oil Interfacial Tension by Model Asphaltenes: The Governing Role of Surface Concentration. <i>Journal of Physical Chemistry B</i> , 2016, 120, 5646-5654.	2.6	105
46	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.	14.6	105
47	Ultra-strong bio-glue from genetically engineered polypeptides. <i>Nature Communications</i> , 2021, 12, 3613.	12.8	104
48	Long-Range Hydrophilic Attraction between Water and Polyelectrolyte Surfaces in Oil. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 15017-15021.	13.8	103
49	Rational Design of Self-Healing Tough Hydrogels: A Mini Review. <i>Frontiers in Chemistry</i> , 2018, 6, 497.	3.6	99
50	Mussel-Inspired Immobilization of Silver Nanoparticles toward Antimicrobial Cellulose Paper. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 9178-9188.	6.7	99
51	On the Size Distribution of Self-Associated Asphaltenes. <i>Energy & Fuels</i> , 2013, 27, 5083-5106.	5.1	98
52	Surface Forces and Interaction Mechanisms of Emulsion Drops and Gas Bubbles in Complex Fluids. <i>Langmuir</i> , 2017, 33, 3911-3925.	3.5	98
53	Mussel-inspired antifouling coatings bearing polymer loops. <i>Chemical Communications</i> , 2015, 51, 15780-15783.	4.1	91
54	Molecular interactions of mussel protective coating protein, mcfp-1, from <i>Mytilus californianus</i> . <i>Biomaterials</i> , 2012, 33, 1903-1911.	11.4	90

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55	Probing the Interaction between Air Bubble and Sphalerite Mineral Surface Using Atomic Force Microscope. <i>Langmuir</i> , 2015, 31, 2438-2446.	3.5	90
56	Dendrimer functionalized graphene oxide for selenium removal. <i>Carbon</i> , 2016, 105, 655-664.	10.3	90
57	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.	16.0	89
58	In Vivo Residue-Specific Dopamine-Incorporated Engineered Mussel Biogel with Enhanced Adhesion and Water Resistance. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 13360-13364.	13.8	88
59	A bioinspired hydrogen bond crosslink strategy toward toughening ultrastrong and multifunctional nanocomposite hydrogels. <i>Journal of Materials Chemistry B</i> , 2020, 8, 4002-4015.	5.8	88
60	Cation- π interaction in DOPA-deficient mussel adhesive protein mfp-1. <i>Journal of Materials Chemistry B</i> , 2015, 3, 738-743.	5.8	87
61	Injectable, Self-Healing Hydrogel with Tunable Optical, Mechanical, and Antimicrobial Properties. <i>Chemistry of Materials</i> , 2019, 31, 2366-2376.	6.7	86
62	Understanding Molecular Interactions of Asphaltenes in Organic Solvents Using a Surface Force Apparatus. <i>Journal of Physical Chemistry C</i> , 2011, 115, 16043-16051.	3.1	83
63	Study of N-isopropoxypropyl-N- ϵ -ethoxycarbonyl thiourea adsorption on chalcopyrite using in situ SECM, ToF-SIMS and XPS. <i>Journal of Colloid and Interface Science</i> , 2015, 437, 42-49.	9.4	83
64	Bio-inspired membrane with adaptable wettability for smart oil/water separation. <i>Journal of Membrane Science</i> , 2020, 598, 117661.	8.2	83
65	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.	9.4	81
66	The effects of biofilm on the transport of stabilized zerovalent iron nanoparticles in saturated porous media. <i>Water Research</i> , 2012, 46, 975-985.	11.3	80
67	Interaction between Air Bubbles and Superhydrophobic Surfaces in Aqueous Solutions. <i>Langmuir</i> , 2015, 31, 7317-7327.	3.5	80
68	Electronic Delocalization of Bismuth Oxide Induced by Sulfur Doping for Efficient CO ₂ Electroreduction to Formate. <i>ACS Catalysis</i> , 2021, 11, 7604-7612.	11.2	80
69	Development of Self-Cross-Linked Soy Adhesive by Enzyme Complex from <i>Aspergillus niger</i> for Production of All-Biomass Composite Materials. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 3909-3916.	6.7	79
70	Self-Regulated Phenomenon of Inorganic Artificial Solid Electrolyte Interphase for Lithium Metal Batteries. <i>Nano Letters</i> , 2020, 20, 4029-4037.	9.1	78
71	Effect of solution salinity on settling of mineral tailings by polymer flocculants. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2013, 430, 29-38.	4.7	77
72	Probing Molecular Interactions of Asphaltenes in Heptol Using a Surface Forces Apparatus: Implications on Stability of Water-in-Oil Emulsions. <i>Langmuir</i> , 2016, 32, 4886-4895.	3.5	77

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73	Marine mussel adhesion and bio-inspired wet adhesives. <i>Biotribology</i> , 2016, 5, 44-51.	1.9	76
74	pH-Dependent Inversion of Hofmeister Trends in the Water Structure of the Electrical Double Layer. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 2855-2861.	4.6	76
75	Adhesion and Friction of Polystyrene Surfaces around T _g . <i>Macromolecules</i> , 2006, 39, 2350-2363.	4.8	75
76	Frictional Adhesion of Patterned Surfaces and Implications for Gecko and Biomimetic Systems. <i>Langmuir</i> , 2009, 25, 7486-7495.	3.5	75
77	Poly(acrylic acid) functionalized magnetic graphene oxide nanocomposite for removal of methylene blue. <i>RSC Advances</i> , 2015, 5, 32272-32282.	3.6	75
78	The significant impact of polydopamine on the catalytic performance of the carried Au nanoparticles. <i>Chemical Communications</i> , 2015, 51, 1469-1471.	4.1	74
79	Gecko adhesion pad: a smart surface?. <i>Journal of Physics Condensed Matter</i> , 2009, 21, 464132.	1.8	72
80	Tannic acid/Fe ³⁺ 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.	12.7	72
81	Role of Tilted Adhesion Fibrils (Setae) in the Adhesion and Locomotion of Gecko-like Systems. <i>Journal of Physical Chemistry B</i> , 2009, 113, 3615-3621.	2.6	70
82	Probing Anisotropic Surface Properties of Molybdenite by Direct Force Measurements. <i>Langmuir</i> , 2015, 31, 11409-11418.	3.5	68
83	Probing the interactions of hydroxamic acid and mineral surfaces: Molecular mechanism underlying the selective separation. <i>Chemical Engineering Journal</i> , 2019, 374, 123-132.	12.7	68
84	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.	7.5	68
85	Interaction Mechanisms between Air Bubble and Molybdenite Surface: Impact of Solution Salinity and Polymer Adsorption. <i>Langmuir</i> , 2017, 33, 2353-2361.	3.5	67
86	Probing Anisotropic Surface Properties and Surface Forces of Fluorite Crystals. <i>Langmuir</i> , 2018, 34, 2511-2521.	3.5	67
87	Novel Fe ₃ O ₄ based superhydrophilic core-shell microspheres for breaking asphaltene-stabilized water-in-oil emulsion. <i>Chemical Engineering Journal</i> , 2019, 358, 869-877.	12.7	67
88	Nanomechanics of Anion-π Interaction in Aqueous Solution. <i>Journal of the American Chemical Society</i> , 2020, 142, 1710-1714.	13.7	67
89	One-step multiple-site integration strategy for CO ₂ capture and conversion into cyclic carbonates under atmospheric and cocatalyst/metal/solvent-free conditions. <i>Applied Catalysis B: Environmental</i> , 2021, 283, 119620.	20.2	67
90	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.	8.0	66

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91	Polyamine-modified magnetic graphene oxide nanocomposite for enhanced selenium removal. Separation and Purification Technology, 2017, 183, 249-257.	7.9	66
92	Fundamentals and Advances in the Adhesion of Polymer Surfaces and Thin Films. Langmuir, 2019, 35, 15914-15936.	3.5	66
93	A wet adhesion strategy <i>via</i> synergistic cationic and hydrogen bonding interactions of antifouling zwitterions and mussel-inspired binding moieties. Journal of Materials Chemistry A, 2019, 7, 21944-21952.	10.3	66
94	Adsorption characteristics and mechanisms of O-Carboxymethyl chitosan on chalcopyrite and molybdenite. Journal of Colloid and Interface Science, 2019, 552, 659-670.	9.4	65
95	Adsorption of mercaptobenzoheterocyclic compounds on sulfide mineral surfaces: A density functional theory study of structure-reactivity relations. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2012, 409, 1-9.	4.7	64
96	Understanding Mechanisms of Asphaltene Adsorption from Organic Solvent on Mica. Langmuir, 2014, 30, 9370-9377.	3.5	63
97	Asialoglycoprotein Receptor-Mediated Gene Delivery to Hepatocytes Using Galactosylated Polymers. Biomacromolecules, 2015, 16, 3008-3020.	5.4	63
98	Probing Interactions between Air Bubble and Hydrophobic Polymer Surface: Impact of Solution Salinity and Interfacial Nanobubbles. Langmuir, 2016, 32, 11236-11244.	3.5	63
99	Unraveling the effects of CO ₂ and H ₂ S on the corrosion behavior of electroless Ni-P coating in CO ₂ /H ₂ S/Cl ⁻ environments at high temperature and high pressure. Corrosion Science, 2019, 148, 317-330.	6.6	63
100	Understanding the molecular interactions of lipopolysaccharides during E. coli initial adhesion with a surface forces apparatus. Soft Matter, 2011, 7, 9366.	2.7	62
101	Modulation of Hydrophobic Interaction by Mediating Surface Nanoscale Structure and Chemistry, not Monotonically by Hydrophobicity. Angewandte Chemie - International Edition, 2018, 57, 11903-11908.	13.8	62
102	Bioinspired Lignin-Polydopamine Nanocapsules with Strong Bioadhesion for Long-Acting and High-Performance Natural Sunscreens. Biomacromolecules, 2020, 21, 3231-3241.	5.4	62
103	Mussel foot protein-1 (mcfp-1) interaction with titania surfaces. Journal of Materials Chemistry, 2012, 22, 15530.	6.7	61
104	Molecular and Surface Interactions between Polymer Flocculant Chitosan- <i>g</i> -polyacrylamide and Kaolinite Particles: Impact of Salinity. Journal of Physical Chemistry C, 2015, 119, 7327-7339.	3.1	61
105	Co-aromatization of olefin and methane over Ag-Ga/ZSM-5 catalyst at low temperature. Applied Catalysis B: Environmental, 2017, 211, 275-288.	20.2	61
106	Probing Anisotropic Surface Properties and Interaction Forces of Chrysotile Rods by Atomic Force Microscopy and Rheology. Langmuir, 2014, 30, 10809-10817.	3.5	60
107	Role of Aqueous Phase Chemistry, Interfacial Film Properties, and Surface Coverage in Stabilizing Water-in-Bitumen Emulsions. Energy & Fuels, 2016, 30, 5240-5252.	5.1	60
108	Understanding the stability mechanisms of lentil legumin-like protein and polysaccharide foams. Food Hydrocolloids, 2016, 61, 903-913.	10.7	60

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109	Efficient removal of elemental mercury (Hg ⁰) by SBA-15-Ag adsorbents. <i>Journal of Materials Chemistry A</i> , 2014, 2, 17730-17734.	10.3	59
110	Recent Advances in Mechano-Responsive Hydrogels for Biomedical Applications. <i>ACS Applied Polymer Materials</i> , 2020, 2, 1092-1107.	4.4	59
111	Stretchable, compressible, and conductive hydrogel for sensitive wearable soft sensors. <i>Journal of Colloid and Interface Science</i> , 2022, 618, 111-120.	9.4	59
112	A robust aqueous-processable polymer binder for long-life, high-performance lithium sulfur battery. <i>Energy Storage Materials</i> , 2019, 21, 61-68.	18.0	58
113	Interaction Mechanism between Hydrophobic and Hydrophilic Surfaces: Using Polystyrene and Mica as a Model System. <i>Langmuir</i> , 2013, 29, 12443-12451.	3.5	57
114	Effect of defect on corrosion behavior of electroless Ni-P coating in CO ₂ -saturated NaCl solution. <i>Corrosion Science</i> , 2018, 134, 23-37.	6.6	57
115	Injectable Self-Healing Hydrogel via Biological Environment-Adaptive Supramolecular Assembly for Gastric Perforation Healing. <i>ACS Nano</i> , 2021, 15, 9913-9923.	14.6	57
116	Interactions of particulate matter and pulmonary surfactant: Implications for human health. <i>Advances in Colloid and Interface Science</i> , 2020, 284, 102244.	14.7	56
117	Understanding Copper Activation and Xanthate Adsorption on Sphalerite by Time-of-Flight Secondary Ion Mass Spectrometry, X-ray Photoelectron Spectroscopy, and in Situ Scanning Electrochemical Microscopy. <i>Journal of Physical Chemistry C</i> , 2013, 117, 20089-20097.	3.1	55
118	Mapping the Nanoscale Heterogeneity of Surface Hydrophobicity on the Sphalerite Mineral. <i>Journal of Physical Chemistry C</i> , 2017, 121, 5620-5628.	3.1	55
119	An amphiphobic graphene-based hydrogel as oil-water separator and oil fence material. <i>Chemical Engineering Journal</i> , 2018, 353, 708-716.	12.7	55
120	Effect of polycarboxylate ether comb-type polymer on viscosity and interfacial properties of kaolinite clay suspensions. <i>Journal of Colloid and Interface Science</i> , 2012, 378, 222-231.	9.4	54
121	Adhesion and Detachment Mechanisms between Polymer and Solid Substrate Surfaces: Using Polystyrene-Mica as a Model System. <i>Macromolecules</i> , 2016, 49, 5223-5231.	4.8	54
122	Ultrafast colorimetric humidity-sensitive polyelectrolyte coating for touchless control. <i>Materials Horizons</i> , 2017, 4, 72-82.	12.2	54
123	Revisiting the adhesion mechanism of mussel-inspired chemistry. <i>Chemical Science</i> , 2022, 13, 1698-1705.	7.4	53
124	Metformin attenuates hepatoma cell proliferation by decreasing glycolytic flux through the HIF-1 α /PFKFB3/PFK1 pathway. <i>Life Sciences</i> , 2019, 239, 116966.	4.3	52
125	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.	10.3	51
126	Promoted electro-responsive performances in an interface-confined oxidized niobium carbide MXene. <i>Chemical Engineering Journal</i> , 2019, 366, 321-329.	12.7	51

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127	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.	9.4	51
128	A Universal Strategy for Constructing Robust and Antifouling Cellulose Nanocrystal Coating. <i>Advanced Functional Materials</i> , 2022, 32, 2109989.	14.9	51
129	Biomimetic Lubrication and Surface Interactions of Dopamine-Assisted Zwitterionic Polyelectrolyte Coatings. <i>Langmuir</i> , 2018, 34, 11593-11601.	3.5	50
130	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.	11.3	50
131	Probing the Interaction Mechanism between Air Bubbles and Bitumen Surfaces in Aqueous Media Using Bubble Probe Atomic Force Microscopy. <i>Langmuir</i> , 2018, 34, 729-738.	3.5	49
132	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.	14.7	49
133	New SFA Techniques for Studying Surface Forces and Thin Film Patterns Induced by Electric Fields. <i>Langmuir</i> , 2008, 24, 1173-1182.	3.5	48
134	Probing Surface Interactions of Electrochemically Active Galena Mineral Surface Using Atomic Force Microscopy. <i>Journal of Physical Chemistry C</i> , 2016, 120, 22433-22442.	3.1	48
135	Novel N-doped ZrO ₂ with enhanced visible-light photocatalytic activity for hydrogen production and degradation of organic dyes. <i>RSC Advances</i> , 2018, 8, 6752-6758.	3.6	48
136	Unraveling the molecular interaction mechanism between graphene oxide and aromatic organic compounds with implications on wastewater treatment. <i>Chemical Engineering Journal</i> , 2019, 358, 842-849.	12.7	48
137	Interactions between elemental selenium and hydrophilic/hydrophobic surfaces: Direct force measurements using AFM. <i>Chemical Engineering Journal</i> , 2016, 303, 646-654.	12.7	47
138	Recent Advances in the Quantification and Modulation of Hydrophobic Interactions for Interfacial Applications. <i>Langmuir</i> , 2020, 36, 2985-3003.	3.5	47
139	Surface interaction mechanisms in mineral flotation: Fundamentals, measurements, and perspectives. <i>Advances in Colloid and Interface Science</i> , 2021, 295, 102491.	14.7	47
140	Bi ₂ O ₃ Nanosheets Grown on Carbon Nanofiber with Inherent Hydrophobicity for High-Performance CO ₂ Electroreduction in a Wide Potential Window. <i>ACS Nano</i> , 2021, 15, 17757-17768.	14.6	47
141	Probing Molecular Interactions of an Asphaltene Model Compound in Organic Solvents Using a Surface Forces Apparatus (SFA). <i>Energy & Fuels</i> , 2012, 26, 2591-2599.	5.1	46
142	Selective flotation separation of molybdenite and talc by humic substances. <i>Minerals Engineering</i> , 2018, 117, 34-41.	4.3	46
143	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.	20.2	46
144	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.	9.4	46

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145	Real-Time Visualization of Joint Cavitation. PLoS ONE, 2015, 10, e0119470.	2.5	46
146	Understanding interaction mechanisms between pentlandite and gangue minerals by zeta potential and surface force measurements. Minerals Engineering, 2014, 69, 15-23.	4.3	45
147	Tannic acid modified MoS ₂ nanosheet membranes with superior water flux and ion/dye rejection. Journal of Colloid and Interface Science, 2020, 560, 177-185.	9.4	45
148	Adhesive Coacervates Driven by Hydrogen Bonding Interaction. Small, 2020, 16, e2004132.	10.0	45
149	Mechanically Strong Proteinaceous Fibers: Engineered Fabrication by Microfluidics. Engineering, 2021, 7, 615-623.	6.7	44
150	Universal Mussel-Inspired Ultrastable Surface-Anchoring Strategy via Adaptive Synergy of Catechol and Cations. ACS Applied Materials & Interfaces, 2018, 10, 2166-2173.	8.0	43
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