

Hongbo Zeng

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454
ext. papers

17,515
ext. citations

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avg, IF

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L-index

#	Paper	IF	Citations
429	Adhesion and friction in gecko toe attachment and detachment. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 19320-5	11.5	471
428	Recent advances in the surface forces apparatus (SFA) technique. <i>Reports on Progress in Physics</i> , 2010 , 73, 036601	14.4	393
427	Novel mussel-inspired injectable self-healing hydrogel with anti-biofouling property. <i>Advanced Materials</i> , 2015 , 27, 1294-9	24	387
426	Strong reversible Fe ³⁺ -mediated bridging between dopa-containing protein films in water. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 12850-3	11.5	380
425	Carbon capture and storage using alkaline industrial wastes. <i>Progress in Energy and Combustion Science</i> , 2012 , 38, 302-320	33.6	341
424	Highly regenerable mussel-inspired Fe ³⁺ @polydopamine-Ag core-shell microspheres as catalyst and adsorbent for methylene blue removal. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 8845-52	9.5	329
423	Adhesion of mussel foot proteins to different substrate surfaces. <i>Journal of the Royal Society Interface</i> , 2013 , 10, 20120759	4.1	208
422	Stretchable, Injectable, and Self-Healing Conductive Hydrogel Enabled by Multiple Hydrogen Bonding toward Wearable Electronics. <i>Chemistry of Materials</i> , 2019 , 31, 4553-4563	9.6	194
421	Protein- and metal-dependent interactions of a prominent protein in mussel adhesive plaques. <i>Journal of Biological Chemistry</i> , 2010 , 285, 25850-8	5.4	181
420	Viscosity and interfacial properties in a mussel-inspired adhesive coacervate. <i>Soft Matter</i> , 2010 , 6, 3232-3236	3.6	181
419	Formation of supported bilayers on silica substrates. <i>Langmuir</i> , 2009 , 25, 6997-7005	4	180
418	Adhesion and Surface Interactions of a Self-Healing Polymer with Multiple Hydrogen-Bonding Groups. <i>Advanced Functional Materials</i> , 2014 , 24, 2322-2333	15.6	153
417	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	11.5	150
416	Mussel-inspired hydrogels for biomedical and environmental applications. <i>Polymer Chemistry</i> , 2015 , 6, 353-358	4.9	143
415	Water-dispersible magnetic nanoparticle-graphene oxide composites for selenium removal. <i>Carbon</i> , 2014 , 77, 710-721	10.4	139
414	Nanomechanics of Poly(catecholamine) Coatings in Aqueous Solutions. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 3342-6	16.4	139
413	Peel-Zone Model of Tape Peeling Based on the Gecko Adhesive System 2007 , 83, 383-401		138

412	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	16.7	136
411	Nanomechanics of cation- π interactions in aqueous solution. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 3944-8	16.4	134
410	Regenerable urchin-like FeO@PDA-Ag hollow microspheres as catalyst and adsorbent for enhanced removal of organic dyes. <i>Journal of Hazardous Materials</i> , 2018 , 350, 66-75	12.8	119
409	A Quadruple-Hydrogen-Bonded Supramolecular Binder for High-Performance Silicon Anodes in Lithium-Ion Batteries. <i>Small</i> , 2018 , 14, e1801189	11	117
408	Recent progress in synthesis and application of mussel-inspired adhesives. <i>Nanoscale</i> , 2020 , 12, 1307-1324	7.4	113
407	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	16.7	103
406	Injectable Self-Healing Hydrogel with Antimicrobial and Antifouling Properties. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 9221-9225	9.5	102
405	Recent advances in gecko adhesion and friction mechanisms and development of gecko-inspired dry adhesive surfaces. <i>Friction</i> , 2013 , 1, 114-129	5.6	102
404	Adhesion and friction force coupling of gecko setal arrays: implications for structured adhesive surfaces. <i>Langmuir</i> , 2008 , 24, 1517-24	4	97
403	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	10.6	97
402	Adhesion mechanism in a DOPA-deficient foot protein from green mussels(). <i>Soft Matter</i> , 2012 , 8, 5640-5648	5.6	94
401	Hydrophobic interactions between polymer surfaces: using polystyrene as a model system. <i>Soft Matter</i> , 2012 , 8, 2746	3.6	92
400	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	9.5	91
399	On the Size Distribution of Self-Associated Asphaltenes. <i>Energy & Fuels</i> , 2013 , 27, 5083-5106	4.1	89
398	Deposition and Adhesion of Polydopamine on the Surfaces of Varying Wettability. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 30943-30950	9.5	88
397	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	3.8	87
396	Adsorption kinetics of asphaltenes at oil/water interface: Effects of concentration and temperature. <i>Fuel</i> , 2018 , 212, 387-394	7.1	82
395	Interaction Mechanism of Oil-in-Water Emulsions with Asphaltenes Determined Using Droplet Probe AFM. <i>Langmuir</i> , 2016 , 32, 2302-10	4	82

394	Molecular interactions of mussel protective coating protein, mcfp-1, from <i>Mytilus californianus</i> . <i>Biomaterials</i> , 2012 , 33, 1903-11	15.6	82
393	Marine mussel adhesion: biochemistry, mechanisms, and biomimetics. <i>Journal of Adhesion Science and Technology</i> , 2013 , 27, 2139-2162	2	82
392	Surface Interaction of Water-in-Oil Emulsion Droplets with Interfacially Active Asphaltenes. <i>Langmuir</i> , 2017 , 33, 1265-1274	4	81
391	Development of electroless Ni ₃ P/nano-WC composite coatings and investigation on its properties. <i>Surface and Coatings Technology</i> , 2015 , 277, 99-106	4.4	79
390	Dendrimer functionalized graphene oxide for selenium removal. <i>Carbon</i> , 2016 , 105, 655-664	10.4	76
389	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	8.3	74
388	Mussel-inspired antifouling coatings bearing polymer loops. <i>Chemical Communications</i> , 2015 , 51, 15780-15783	3.8	74
387	Long-Range Hydrophilic Attraction between Water and Polyelectrolyte Surfaces in Oil. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 15017-15021	16.4	74
386	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	16.7	73
385	Surface Forces and Interaction Mechanisms of Emulsion Drops and Gas Bubbles in Complex Fluids. <i>Langmuir</i> , 2017 , 33, 3911-3925	4	72
384	Understanding Molecular Interactions of Asphaltenes in Organic Solvents Using a Surface Force Apparatus. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 16043-16051	3.8	71
383	Reduction of Water/Oil Interfacial Tension by Model Asphaltenes: The Governing Role of Surface Concentration. <i>Journal of Physical Chemistry B</i> , 2016 , 120, 5646-54	3.4	70
382	The effects of biofilm on the transport of stabilized zerovalent iron nanoparticles in saturated porous media. <i>Water Research</i> , 2012 , 46, 975-85	12.5	70
381	Adhesion and Friction of Polystyrene Surfaces around T _g . <i>Macromolecules</i> , 2006 , 39, 2350-2363	5.5	69
380	Mussel-Inspired Immobilization of Silver Nanoparticles toward Antimicrobial Cellulose Paper. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 9178-9188	8.3	69
379	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	6	68
378	Functional Conductive Hydrogels for Bioelectronics 2020 , 2, 1287-1301		68
377	Rational Design of Self-Healing Tough Hydrogels: A Mini Review. <i>Frontiers in Chemistry</i> , 2018 , 6, 497	5	68

376	Cation-Interaction in DOPA-deficient mussel adhesive protein mfp-1. <i>Journal of Materials Chemistry B</i> , 2015 , 3, 738-743	7.3	67
375	The significant impact of polydopamine on the catalytic performance of the carried Au nanoparticles. <i>Chemical Communications</i> , 2015 , 51, 1469-71	5.8	67
374	Frictional adhesion of patterned surfaces and implications for gecko and biomimetic systems. <i>Langmuir</i> , 2009 , 25, 7486-95	4	67
373	In vivo residue-specific dopa-incorporated engineered mussel biogluce with enhanced adhesion and water resistance. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 13360-4	16.4	66
372	Poly(acrylic acid) functionalized magnetic graphene oxide nanocomposite for removal of methylene blue. <i>RSC Advances</i> , 2015 , 5, 32272-32282	3.7	65
371	Probing the interaction between air bubble and sphalerite mineral surface using atomic force microscope. <i>Langmuir</i> , 2015 , 31, 2438-46	4	65
370	Interaction between Air Bubbles and Superhydrophobic Surfaces in Aqueous Solutions. <i>Langmuir</i> , 2015 , 31, 7317-27	4	64
369	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	17.1	64
368	Recent advances in designing conductive hydrogels for flexible electronics. <i>Information Materials</i> , 2020 , 2, 843-865	23.1	63
367	Gecko adhesion pad: a smart surface?. <i>Journal of Physics Condensed Matter</i> , 2009 , 21, 464132	1.8	63
366	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	9.3	62
365	Marine mussel adhesion and bio-inspired wet adhesives. <i>Biotribology</i> , 2016 , 5, 44-51	2.3	62
364	Role of tilted adhesion fibrils (setae) in the adhesion and locomotion of gecko-like systems. <i>Journal of Physical Chemistry B</i> , 2009 , 113, 3615-21	3.4	61
363	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	6.4	57
362	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	5.1	57
361	Mussel foot protein-1 (mcfp-1) interaction with titania surfaces(). <i>Journal of Materials Chemistry</i> , 2012 , 22, 15530-15533		56
360	Interaction Mechanisms between Air Bubble and Molybdenite Surface: Impact of Solution Salinity and Polymer Adsorption. <i>Langmuir</i> , 2017 , 33, 2353-2361	4	54
359	Injectable, Self-Healing Hydrogel with Tunable Optical, Mechanical, and Antimicrobial Properties. <i>Chemistry of Materials</i> , 2019 , 31, 2366-2376	9.6	53

358	Understanding the molecular interactions of lipopolysaccharides during E. coli initial adhesion with a surface forces apparatus. <i>Soft Matter</i> , 2011 , 7, 9366	3.6	53
357	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, 4886-95	4	53
356	Molecular and Surface Interactions between Polymer Flocculant Chitosan-g-polyacrylamide and Kaolinite Particles: Impact of Salinity. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 7327-7339	3.8	52
355	Nanomechanics of Cation-Interactions in Aqueous Solution. <i>Angewandte Chemie</i> , 2013 , 125, 4036-4040	3.6	52
354	Asialoglycoprotein Receptor-Mediated Gene Delivery to Hepatocytes Using Galactosylated Polymers. <i>Biomacromolecules</i> , 2015 , 16, 3008-20	6.9	51
353	Probing Anisotropic Surface Properties and Surface Forces of Fluorite Crystals. <i>Langmuir</i> , 2018 , 34, 251142521	5.1	51
352	Adsorption of mercaptobenzoheterocyclic compounds on sulfide mineral surfaces: A density functional theory study of structure-reactivity relations. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2012 , 409, 1-9	5.1	51
351	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	6.9	51
350	Probing Interactions between Air Bubble and Hydrophobic Polymer Surface: Impact of Solution Salinity and Interfacial Nanobubbles. <i>Langmuir</i> , 2016 , 32, 11236-11244	4	50
349	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	16.4	50
348	Efficient removal of elemental mercury (Hg ⁰) by SBA-15-Ag adsorbents. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 17730-17734	13	50
347	Interaction mechanism between hydrophobic and hydrophilic surfaces: using polystyrene and mica as a model system. <i>Langmuir</i> , 2013 , 29, 12443-51	4	50
346	Probing Anisotropic Surface Properties of Molybdenite by Direct Force Measurements. <i>Langmuir</i> , 2015 , 31, 11409-18	4	49
345	Understanding mechanisms of asphaltene adsorption from organic solvent on mica. <i>Langmuir</i> , 2014 , 30, 9370-7	4	48
344	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, 222-31	9.3	48
343	Nanomechanics of Anion-Interaction in Aqueous Solution. <i>Journal of the American Chemical Society</i> , 2020 , 142, 1710-1714	16.4	48
342	Self-Regulated Phenomenon of Inorganic Artificial Solid Electrolyte Interphase for Lithium Metal Batteries. <i>Nano Letters</i> , 2020 , 20, 4029-4037	11.5	47
341	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	21.8	46

340	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	10.2	46
339	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	13	45
338	Ultrafast colorimetric humidity-sensitive polyelectrolyte coating for touchless control. <i>Materials Horizons</i> , 2017 , 4, 72-82	14.4	45
337	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	3.8	45
336	New SFA techniques for studying surface forces and thin film patterns induced by electric fields. <i>Langmuir</i> , 2008 , 24, 1173-82	4	45
335	Novel Fe ₃ O ₄ based superhydrophilic core-shell microspheres for breaking asphaltenes-stabilized water-in-oil emulsion. <i>Chemical Engineering Journal</i> , 2019 , 358, 869-877	14.7	45
334	Probing anisotropic surface properties and interaction forces of chrysotile rods by atomic force microscopy and rheology. <i>Langmuir</i> , 2014 , 30, 10809-17	4	44
333	Adhesion and Detachment Mechanisms between Polymer and Solid Substrate Surfaces: Using Polystyrene/Mica as a Model System. <i>Macromolecules</i> , 2016 , 49, 5223-5231	5.5	43
332	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	7.1	42
331	Promoted electro-responsive performances in an interface-confined oxidized niobium carbide MXene. <i>Chemical Engineering Journal</i> , 2019 , 366, 321-329	14.7	41
330	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	8.3	41
329	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	9.3	41
328	Polyamine-modified magnetic graphene oxide nanocomposite for enhanced selenium removal. <i>Separation and Purification Technology</i> , 2017 , 183, 249-257	8.3	40
327	Surface-induced patterns from evaporating droplets of aqueous carbon nanotube dispersions. <i>Langmuir</i> , 2011 , 27, 7163-7	4	40
326	Bio-inspired membrane with adaptable wettability for smart oil/water separation. <i>Journal of Membrane Science</i> , 2020 , 598, 117661	9.6	39
325	Understanding the stability mechanisms of lentil legumin-like protein and polysaccharide foams. <i>Food Hydrocolloids</i> , 2016 , 61, 903-913	10.6	38
324	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. <i>Corrosion Science</i> , 2019 , 148, 317-330	6.8	38
323	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	13	38

- 322 Catalytic co-aromatization of ethanol and methane. *Applied Catalysis B: Environmental*, **2016**, 198, 480-492.8 37
- 321 Methane Upgrading of Acetic Acid as a Model Compound for a Biomass-Derived Liquid over a Modified Zeolite Catalyst. *ACS Catalysis*, **2017**, 7, 3681-3692 13.1 36
- 320 A bioinspired hydrogen bond crosslink strategy toward toughening ultrastrong and multifunctional nanocomposite hydrogels. *Journal of Materials Chemistry B*, **2020**, 8, 4002-4015 7.3 36
- 319 An amphiphobic graphene-based hydrogel as oil-water separator and oil fence material. *Chemical Engineering Journal*, **2018**, 353, 708-716 14.7 36
- 318 Anisotropic dynamic changes in the pore network structure, fluid diffusion and fluid flow in articular cartilage under compression. *Biomaterials*, **2010**, 31, 3117-28 15.6 36
- 317 Role of Aqueous Phase Chemistry, Interfacial Film Properties, and Surface Coverage in Stabilizing Water-in-Bitumen Emulsions. *Energy & Fuels*, **2016**, 30, 5240-5252 4.1 36
- 316 Probing Surface Interactions of Electrochemically Active Galena Mineral Surface Using Atomic Force Microscopy. *Journal of Physical Chemistry C*, **2016**, 120, 22433-22442 3.8 36
- 315 Effect of defect on corrosion behavior of electroless Ni-P coating in CO₂-saturated NaCl solution. *Corrosion Science*, **2018**, 134, 23-37 6.8 35
- 314 Probing Molecular Interactions of an Asphaltene Model Compound in Organic Solvents Using a Surface Forces Apparatus (SFA). *Energy & Fuels*, **2012**, 26, 2591-2599 4.1 35
- 313 A robust aqueous-processable polymer binder for long-life, high-performance lithium sulfur battery. *Energy Storage Materials*, **2019**, 21, 61-68 19.4 35
- 312 Mapping the Nanoscale Heterogeneity of Surface Hydrophobicity on the Sphalerite Mineral. *Journal of Physical Chemistry C*, **2017**, 121, 5620-5628 3.8 34
- 311 Reversible shear thickening at low shear rates of electrorheological fluids under electric fields. *Physical Review E*, **2011**, 83, 011401 2.4 34
- 310 Mussel-inspired cellulose-based adhesive with biocompatibility and strong mechanical strength via metal coordination. *International Journal of Biological Macromolecules*, **2020**, 144, 127-134 7.9 34
- 309 Self-Healing and Injectable Shear Thinning Hydrogels Based on Dynamic Oxaborole-Diol Covalent Cross-Linking. *ACS Biomaterials Science and Engineering*, **2016**, 2, 2315-2323 5.5 34
- 308 Interactions between elemental selenium and hydrophilic/hydrophobic surfaces: Direct force measurements using AFM. *Chemical Engineering Journal*, **2016**, 303, 646-654 14.7 34
- 307 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 14.7 34
- 306 Selective flotation separation of molybdenite and talc by humic substances. *Minerals Engineering*, **2018**, 117, 34-41 4.9 34
- 305 Universal Mussel-Inspired Ultrastable Surface-Anchoring Strategy via Adaptive Synergy of Catechol and Cations. *ACS Applied Materials & Interfaces*, **2018**, 10, 2166-2173 9.5 33

304	Transient Surface Patterns and Instabilities at Adhesive Junctions of Viscoelastic Films. <i>Macromolecules</i> , 2007 , 40, 8409-8422	5.5	33
303	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	5.1	32
302	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	21.8	32
301	Understanding interaction mechanisms between pentlandite and gangue minerals by zeta potential and surface force measurements. <i>Minerals Engineering</i> , 2014 , 69, 15-23	4.9	32
300	Ultra-strong bio-glue from genetically engineered polypeptides. <i>Nature Communications</i> , 2021 , 12, 3613	17.4	32
299	Fundamentals and Advances in the Adhesion of Polymer Surfaces and Thin Films. <i>Langmuir</i> , 2019 , 35, 15914-15936	4	31
298	A wet adhesion strategy via synergistic cation and hydrogen bonding interactions of antifouling zwitterions and mussel-inspired binding moieties. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 21944-21952	13	31
297	Probing the interactions of hydroxamic acid and mineral surfaces: Molecular mechanism underlying the selective separation. <i>Chemical Engineering Journal</i> , 2019 , 374, 123-132	14.7	31
296	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	4	31
295	Nanocomposites of graphene oxide, Ag nanoparticles, and magnetic ferrite nanoparticles for elemental mercury (Hg ⁰) removal. <i>RSC Advances</i> , 2015 , 5, 15634-15640	3.7	31
294	Biomimetic Lubrication and Surface Interactions of Dopamine-Assisted Zwitterionic Polyelectrolyte Coatings. <i>Langmuir</i> , 2018 , 34, 11593-11601	4	31
293	Adsorption characteristics and mechanisms of O-Carboxymethyl chitosan on chalcopyrite and molybdenite. <i>Journal of Colloid and Interface Science</i> , 2019 , 552, 659-670	9.3	30
292	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	5.8	30
291	Metformin attenuates hepatoma cell proliferation by decreasing glycolytic flux through the HIF-1 α /PFKFB3/PFK1 pathway. <i>Life Sciences</i> , 2019 , 239, 116966	6.8	30
290	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, 512-20	9.3	30
289	Real-time visualization of joint cavitation. <i>PLoS ONE</i> , 2015 , 10, e0119470	3.7	30
288	Recent experimental advances on hydrophobic interactions at solid/water and fluid/water interfaces. <i>Biointerphases</i> , 2015 , 11, 018903	1.8	30
287	Core cross-linked double hydrophilic block copolymer micelles based on multiple hydrogen-bonding interactions. <i>Polymer Chemistry</i> , 2017 , 8, 3066-3073	4.9	29

- 286 Effects of salinity on xanthate adsorption on sphalerite and bubble-sphalerite interactions. *Minerals Engineering*, **2015**, 77, 34-41 4.9 28
- 285 Mechanistic Understanding of Asphaltene Surface Interactions in Aqueous Media. *Energy & Fuels*, **2017**, 31, 3348-3357 4.1 28
- 284 Molecular interactions of a polyaromatic surfactant C5Pe in aqueous solutions studied by a surface forces apparatus. *Journal of Physical Chemistry B*, **2012**, 116, 11187-96 3.4 28
- 283 Friction at the liquid/liquid interface of two immiscible polymer films. *Langmuir*, **2009**, 25, 4954-64 4 28
- 282 Limit Cycles in Dynamic Adhesion and Friction Processes: A Discussion **2006**, 82, 933-943 28
- 281 Recent Advances in Mechano-Responsive Hydrogels for Biomedical Applications. *ACS Applied Polymer Materials*, **2020**, 2, 1092-1107 4.3 27
- 280 Temperature- and pH-Responsive Benzoboroxole-Based Polymers for Flocculation and Enhanced Dewatering of Fine Particle Suspensions. *ACS Applied Materials & Interfaces*, **2015**, 7, 27176-87 9.5 27
- 279 Understanding the Deposition and Surface Interactions of Gypsum. *Journal of Physical Chemistry C*, **2011**, 115, 17485-17494 3.8 27
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- 276 A size-dependent structural evolution of ZnS nanoparticles. *Scientific Reports*, **2015**, 5, 14267 4.9 26
- 275 Adhesive Coacervates Driven by Hydrogen-Bonding Interaction. *Small*, **2020**, 16, e2004132 11 26
- 274 Efficient Fog Harvesting Based on 1D Copper Wire Inspired by the Plant Pitaya. *Langmuir*, **2018**, 34, 15259-15267 14.7 26
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