Jun Huang

List of Publications by Year
in descending order

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56 papers	2,188 citations	257450 24 h-index	233421 45 g-index
58 all docs	58 docs citations	58 times ranked	2655 citing authors

#	Article	IF	Citations
1	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
2	Nanomechanics of Poly(catecholamine) Coatings in Aqueous Solutions. Angewandte Chemie - International Edition, 2016, 55, 3342-3346.	13.8	173
3	A Quadrupleâ€Hydrogenâ€Bonded Supramolecular Binder for Highâ€Performance Silicon Anodes in Lithiumâ€Ion Batteries. Small, 2018, 14, e1801189.	10.0	171
4	Salt Triggers the Simple Coacervation of an Underwater Adhesive When Cations Meet Aromatic Ï€ Electrons in Seawater. ACS Nano, 2017, 11, 6764-6772.	14.6	149
5	A superhydrophobic coating harvesting mechanical robustness, passive anti-icing and active de-icing performances. Journal of Colloid and Interface Science, 2021, 590, 301-310.	9.4	128
6	Duplicating Dynamic Strain-Stiffening Behavior and Nanomechanics of Biological Tissues in a Synthetic Self-Healing Flexible Network Hydrogel. ACS Nano, 2017, 11, 11074-11081.	14.6	105
7	Probing the Interaction between Air Bubble and Sphalerite Mineral Surface Using Atomic Force Microscope. Langmuir, 2015, 31, 2438-2446.	3.5	90
8	Poly(acrylic acid) functionalized magnetic graphene oxide nanocomposite for removal of methylene blue. RSC Advances, 2015, 5, 32272-32282.	3.6	75
9	A two-step flocculation process on oil sands tailings treatment using oppositely charged polymer flocculants. Science of the Total Environment, 2016, 565, 369-375.	8.0	66
10	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
11	Mapping the Nanoscale Heterogeneity of Surface Hydrophobicity on the Sphalerite Mineral. Journal of Physical Chemistry C, 2017, 121, 5620-5628.	3.1	55
12	Adhesion and Detachment Mechanisms between Polymer and Solid Substrate Surfaces: Using Polystyreneâ€“Mica as a Model System. Macromolecules, 2016, 49, 5223-5231.	4.8	54
13	Probing the Interaction Mechanism between Air Bubbles and Bitumen Surfaces in Aqueous Media Using Bubble Probe Atomic Force Microscopy. Langmuir, 2018, 34, 729-738.	3.5	49
14	Probing Surface Interactions of Electrochemically Active Galena Mineral Surface Using Atomic Force Microscopy. Journal of Physical Chemistry C, 2016, 120, 22433-22442.	3.1	48
15	A multi-functional reversible hydrogel adhesive. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2020, 593, 124622.	4.7	48
16	Recent experimental advances on hydrophobic interactions at solid/water and fluid/water interfaces. Biointerphases, 2016, 11, 018903.	1.6	37
17	An ultra-stretchable glycerol-ionic hybrid hydrogel with reversible gelid adhesion. Journal of Colloid and Interface Science, 2021, 582, 187-200.	9.4	37
18	Anisotropic Polymer Adsorption on Molybdenite Basal and Edge Surfaces and Interaction Mechanism With Air Bubbles. Frontiers in Chemistry, 2018, 6, 361.	3.6	29

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19	Probing effects of molecular-level heterogeneity of surface hydrophobicity on hydrophobic interactions in air/water/solid systems. Journal of Colloid and Interface Science, 2019, 557, 438-449.	9.4	29
20	A Dual-Responsive, Freezing-Tolerant Hydrogel Sensor and Related Thermal- and Strain-Sensitive Mechanisms. ACS Applied Polymer Materials, 2021, 3, 1479-1487.	4.4	29
21	A Conductive, Self-Healing Hybrid Hydrogel with Excellent Water-Retention and Thermal Stability by Introducing Ethylene Glycol as a Crystallization Inhibitor. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2020, 607, 125443.	4.7	28
22	A strong underwater adhesive that totally cured in water. Chemical Engineering Journal, 2022, 431, 133460.	12.7	28
23	Sugary interfaces mitigate contact damage where stiff meets soft. Nature Communications, 2016, 7, 11923.	12.8	27
24	Octadecyltrichlorosilane Deposition on Mica Surfaces: Insights into the Interface Interaction Mechanism. Journal of Physical Chemistry B, 2017, 121, 3151-3161.	2.6	25
25	Heterogeneous Distribution of Adsorbed Bitumen on Fine Solids from Solvent-Based Extraction of Oil Sands Probed by AFM. Energy & Fuels, 2017, 31, 8833-8842.	5.1	23
26	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
27	Understanding nanorheology and surface forces of confined thin films. Korea Australia Rheology Journal, 2014, 26, 3-14.	1.7	22
28	Towards Largeâ€Scale Fabrication of Selfâ€Healable Functional Hydrogel Coatings for Antiâ€Fog/Frost Surfaces and Flexible Sensors. Advanced Materials Technologies, 2021, 6, 2001267.	5.8	22
29	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.	5.4	20
30	Spinnable adhesive functional-hydrogel fibers for sensing and perception applications. Journal of Materials Chemistry C, 2021, 9, 5554-5564.	5.5	20
31	Adsorption and interaction mechanisms of Chi-g-P(AM-DMDAAC) assisted settling of kaolinite in a two-step flocculation process. Science of the Total Environment, 2022, 816, 151576.	8.0	20
32	Tuning protein adsorption on charged polyelectrolyte brushes via salinity adjustment. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2018, 539, 37-45.	4.7	19
33	Ferroferric oxide loaded near-infrared triggered photothermal microneedle patch for controlled drug release. Journal of Colloid and Interface Science, 2022, 617, 718-729.	9.4	19
34	Robust polymer nanofilms with bioengineering and environmental applications via facile and highly efficient covalent layer-by-layer assembly. Journal of Materials Chemistry B, 2018, 6, 3742-3750.	5.8	18
35	Viscoelastic Surfactants with High Salt Tolerance, Fastâ€Dissolving Property, and Ultralow Interfacial Tension for Chemical Flooding in Offshore Oilfields. Journal of Surfactants and Detergents, 2018, 21, 475-488.	2.1	17
36	Rapid Dewatering and Consolidation of Concentrated Colloidal Suspensions: Mature Fine Tailings via Self-Healing Composite Hydrogel. ACS Applied Materials & Interfaces, 2019, 11, 21610-21618.	8.0	17

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37	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.	8.0	16
38	Modulation of Hydrophobic Interaction by Mediating Surface Nanoscale Structure and Chemistry, not Monotonically by Hydrophobicity. Angewandte Chemie, 2018, 130, 12079-12084.	2.0	16
39	Interfacial ion specificity modulates hydrophobic interaction. Journal of Colloid and Interface Science, 2020, 578, 135-145.	9.4	16
40	A substrate-independent isocyanate-modified polydimethylsiloxane coating harvesting mechanical durability, self-healing ability and low surface energy with anti-corrosion/biofouling potential. Applied Surface Science, 2022, 579, 152186.	6.1	16
41	Nanomechanics of Poly(catecholamine) Coatings in Aqueous Solutions. Angewandte Chemie, 2016, 128, 3403-3407.	2.0	15
42	Multi-functional rhodamine-based chitosan hydrogels as colorimetric Hg2+ adsorbents and pH-triggered biosensors. Journal of Colloid and Interface Science, 2021, 604, 469-479.	9.4	14
43	Facile Synthesis of Water-Soluble Rhodamine-Based Polymeric Chemosensors via Schiff Base Reaction for Fe3+ Detection and Living Cell Imaging. Frontiers in Chemistry, 2022, 10, 845627.	3.6	13
44	A novel PKD2L1 C-terminal domain critical for trimerization and channel function. Scientific Reports, 2015, 5, 9460.	3.3	11
45	Surface pressure affects B-hordein network formation at the airâ€“water interface in relation to gastric digestibility. Colloids and Surfaces B: Biointerfaces, 2015, 135, 784-792.	5.0	11
46	Nanomechanical Contribution of Collagen and von Willebrand Factor A in Marine Underwater Adhesion and Its Implication for Collagen Manipulation. Biomacromolecules, 2016, 17, 946-953.	5.4	11
47	Probing the Interaction Mechanism between Oil-in-Water Emulsions and Electroless Nickelâ€“Phosphorus Coating with Implications for Antifouling in Oil Production. Energy & Fuels, 2019, 33, 3764-3775.	5.1	11
48	Substrate-Independent, Mechanically Tunable, and Scalable Gelatin Methacryloyl Hydrogel Coating with Drag-Reducing and Anti-Freezing Properties. ACS Applied Polymer Materials, 2022, 4, 4876-4885.	4.4	9
49	Protein-Resistant Property of Egg White Ovomucin under Different pHs and Ionic Strengths. Journal of Agricultural and Food Chemistry, 2018, 66, 11034-11042.	5.2	8
50	Probing the Adsorption of Weak Acids on Graphite Using Amplitude Modulationâ€“Frequency Modulation Atomic Force Microscopy. Langmuir, 2015, 31, 3069-3075.	3.5	6
51	A carbazole compound, 9-ethyl-9H-carbazole-3-carbaldehyde, plays an antitumor function through reactivation of the p53 pathway in human melanoma cells. Cell Death and Disease, 2021, 12, 591.	6.3	5
52	Probing the Self-Assembly and Nonlinear Friction Behavior of Confined Gold Nano-Particles. Langmuir, 2019, 35, 15701-15709.	3.5	4
53	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
54	Inhibition of Calcineurin/NFAT Signaling Blocks Oncogenic H-Ras Induced Autophagy in Primary Human Keratinocytes. Frontiers in Cell and Developmental Biology, 2021, 9, 720111.	3.7	2

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55	Frontispiece: In Vivo Residue-Specific Dopa-Incorporated Engineered Mussel Bioglue with Enhanced Adhesion and Water Resistance. Angewandte Chemie - International Edition, 2014, 53, n/a-n/a.	13.8	0
56	Frontispiz: In Vivo Residue-Specific Dopa-Incorporated Engineered Mussel Bioglue with Enhanced Adhesion and Water Resistance. Angewandte Chemie, 2014, 126, n/a-n/a.	2.0	0