

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
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58
all docs

58
docs citations

58
times ranked

2655
citing authors

#	ARTICLE	IF	CITATIONS
1	A strong underwater adhesive that totally cured in water. <i>Chemical Engineering Journal</i> , 2022, 431, 133460.	12.7	28
2	Adsorption and interaction mechanisms of Chi-g-P(AM-DMDAAC) assisted settling of kaolinite in a two-step flocculation process. <i>Science of the Total Environment</i> , 2022, 816, 151576.	8.0	20
3	A substrate-independent isocyanate-modified polydimethylsiloxane coating harvesting mechanical durability, self-healing ability and low surface energy with anti-corrosion/biofouling potential. <i>Applied Surface Science</i> , 2022, 579, 152186.	6.1	16
4	Facile Synthesis of Water-Soluble Rhodamine-Based Polymeric Chemosensors via Schiff Base Reaction for Fe ³⁺ Detection and Living Cell Imaging. <i>Frontiers in Chemistry</i> , 2022, 10, 845627.	3.6	13
5	Ferroferric oxide loaded near-infrared triggered photothermal microneedle patch for controlled drug release. <i>Journal of Colloid and Interface Science</i> , 2022, 617, 718-729.	9.4	19
6	Substrate-Independent, Mechanically Tunable, and Scalable Gelatin Methacryloyl Hydrogel Coating with Drag-Reducing and Anti-Freezing Properties. <i>ACS Applied Polymer Materials</i> , 2022, 4, 4876-4885.	4.4	9
7	An ultra-stretchable glycerol-ionic hybrid hydrogel with reversible gelid adhesion. <i>Journal of Colloid and Interface Science</i> , 2021, 582, 187-200.	9.4	37
8	Spinnable adhesive functional-hydrogel fibers for sensing and perception applications. <i>Journal of Materials Chemistry C</i> , 2021, 9, 5554-5564.	5.5	20
9	Nanomechanical Insights into Versatile Polydopamine Wet Adhesive Interacting with Liquid-Infused and Solid Slippery Surfaces. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 6941-6950.	8.0	23
10	A Dual-Responsive, Freezing-Tolerant Hydrogel Sensor and Related Thermal- and Strain-Sensitive Mechanisms. <i>ACS Applied Polymer Materials</i> , 2021, 3, 1479-1487.	4.4	29
11	Towards Large-Scale Fabrication of Self-Healable Functional Hydrogel Coatings for Anti-Fog/Frost Surfaces and Flexible Sensors. <i>Advanced Materials Technologies</i> , 2021, 6, 2001267.	5.8	22
12	A superhydrophobic coating harvesting mechanical robustness, passive anti-icing and active de-icing performances. <i>Journal of Colloid and Interface Science</i> , 2021, 590, 301-310.	9.4	128
13	A carbazole compound, 9-ethyl-9H-carbazole-3-carbaldehyde, plays an antitumor function through reactivation of the p53 pathway in human melanoma cells. <i>Cell Death and Disease</i> , 2021, 12, 591.	6.3	5
14	Inhibition of Calcineurin/NFAT Signaling Blocks Oncogenic H-Ras Induced Autophagy in Primary Human Keratinocytes. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 720111.	3.7	2
15	Multi-functional rhodamine-based chitosan hydrogels as colorimetric Hg ²⁺ adsorbents and pH-triggered biosensors. <i>Journal of Colloid and Interface Science</i> , 2021, 604, 469-479.	9.4	14
16	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.	3.5	4
17	A Conductive, Self-Healing Hybrid Hydrogel with Excellent Water-Retention and Thermal Stability by Introducing Ethylene Glycol as a Crystallization Inhibitor. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 607, 125443.	4.7	28
18	Interfacial ion specificity modulates hydrophobic interaction. <i>Journal of Colloid and Interface Science</i> , 2020, 578, 135-145.	9.4	16

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19	A multi-functional reversible hydrogel adhesive. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 593, 124622.	4.7	48
20	Probing the Self-Assembly and Nonlinear Friction Behavior of Confined Gold Nano-Particles. <i>Langmuir</i> , 2019, 35, 15701-15709.	3.5	4
21	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.	9.4	29
22	Rapid Dewatering and Consolidation of Concentrated Colloidal Suspensions: Mature Fine Tailings via Self-Healing Composite Hydrogel. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 21610-21618.	8.0	17
23	Probing the Molecular Interactions and Lubrication Mechanisms of Purified Full-Length Recombinant Human Proteoglycan 4 (rhPRG4) and Hyaluronic Acid (HA). <i>Biomacromolecules</i> , 2019, 20, 1056-1067.	5.4	20
24	Probing the Interaction Mechanism between Oil-in-Water Emulsions and Electroless Nickel-Phosphorus Coating with Implications for Antifouling in Oil Production. <i>Energy & Fuels</i> , 2019, 33, 3764-3775.	5.1	11
25	Probing molecular interaction mechanisms of organic fouling on polyamide membrane using a surface forces apparatus: Implication for wastewater treatment. <i>Science of the Total Environment</i> , 2018, 622-623, 644-654.	8.0	16
26	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
27	Tuning protein adsorption on charged polyelectrolyte brushes via salinity adjustment. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018, 539, 37-45.	4.7	19
28	Protein-Resistant Property of Egg White Ovomucin under Different pHs and Ionic Strengths. <i>Journal of Agricultural and Food Chemistry</i> , 2018, 66, 11034-11042.	5.2	8
29	Anisotropic Polymer Adsorption on Molybdenite Basal and Edge Surfaces and Interaction Mechanism With Air Bubbles. <i>Frontiers in Chemistry</i> , 2018, 6, 361.	3.6	29
30	Robust polymer nanofilms with bioengineering and environmental applications via facile and highly efficient covalent layer-by-layer assembly. <i>Journal of Materials Chemistry B</i> , 2018, 6, 3742-3750.	5.8	18
31	A Quadruple-Hydrogen-Bonded Supramolecular Binder for High-Performance Silicon Anodes in Lithium-Ion Batteries. <i>Small</i> , 2018, 14, e1801189.	10.0	171
32	Modulation of Hydrophobic Interaction by Mediating Surface Nanoscale Structure and Chemistry, not Monotonically by Hydrophobicity. <i>Angewandte Chemie</i> , 2018, 130, 12079-12084.	2.0	16
33	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.	13.8	62
34	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.	2.1	17
35	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
36	Salt Triggers the Simple Coacervation of an Underwater Adhesive When Cations Meet Aromatic Ions in Seawater. <i>ACS Nano</i> , 2017, 11, 6764-6772.	14.6	149

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37	Octadecyltrichlorosilane Deposition on Mica Surfaces: Insights into the Interface Interaction Mechanism. <i>Journal of Physical Chemistry B</i> , 2017, 121, 3151-3161.	2.6	25
38	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
39	Heterogeneous Distribution of Adsorbed Bitumen on Fine Solids from Solvent-Based Extraction of Oil Sands Probed by AFM. <i>Energy & Fuels</i> , 2017, 31, 8833-8842.	5.1	23
40	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
41	Nanomechanics of Poly(catecholamine) Coatings in Aqueous Solutions. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 3342-3346.	13.8	173
42	Sugary interfaces mitigate contact damage where stiff meets soft. <i>Nature Communications</i> , 2016, 7, 11923.	12.8	27
43	Recent experimental advances on hydrophobic interactions at solid/water and fluid/water interfaces. <i>Biointerphases</i> , 2016, 11, 018903.	1.6	37
44	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
45	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
46	Nanomechanics of Poly(catecholamine) Coatings in Aqueous Solutions. <i>Angewandte Chemie</i> , 2016, 128, 3403-3407.	2.0	15
47	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.	7.1	187
48	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.	5.4	11
49	Probing the Interaction between Air Bubble and Sphalerite Mineral Surface Using Atomic Force Microscope. <i>Langmuir</i> , 2015, 31, 2438-2446.	3.5	90
50	A novel PKD2L1 C-terminal domain critical for trimerization and channel function. <i>Scientific Reports</i> , 2015, 5, 9460.	3.3	11
51	Probing the Adsorption of Weak Acids on Graphite Using Amplitude Modulation-Frequency Modulation Atomic Force Microscopy. <i>Langmuir</i> , 2015, 31, 3069-3075.	3.5	6
52	Poly(acrylic acid) functionalized magnetic graphene oxide nanocomposite for removal of methylene blue. <i>RSC Advances</i> , 2015, 5, 32272-32282.	3.6	75
53	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.	5.0	11
54	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.	13.8	0

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55	Understanding nanorheology and surface forces of confined thin films. Korea Australia Rheology Journal, 2014, 26, 3-14.	1.7	22
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