

Li Xiang

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

1,194
citations

361045

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454577

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docs citations

31
times ranked

1321
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanoconfining Cation- π Interactions as a Modular Strategy to Construct Injectable Self-Healing Hydrogel. <i>CCS Chemistry</i> , 2022, 4, 2724-2737.	4.6	31
2	Revisiting the adhesion mechanism of mussel-inspired chemistry. <i>Chemical Science</i> , 2022, 13, 1698-1705.	3.7	53
3	Probing Anion- π Interactions between Fluoroarene and Carboxylate Anion in Aqueous Solutions. <i>Journal of Colloid and Interface Science</i> , 2022, 615, 778-785.	5.0	5
4	Highly stretchable, elastic, antimicrobial conductive hydrogels with environment-adaptive adhesive property for health monitoring. <i>Journal of Colloid and Interface Science</i> , 2022, 622, 612-624.	5.0	13
5	Nanomechanics of Lignin-Cellulase Interactions in Aqueous Solutions. <i>Biomacromolecules</i> , 2021, 22, 2033-2042.	2.6	32
6	Injectable Self-Healing Hydrogel via Biological Environment-Adaptive Supramolecular Assembly for Gastric Perforation Healing. <i>ACS Nano</i> , 2021, 15, 9913-9923.	7.3	57
7	Ultra-strong bio-glue from genetically engineered polypeptides. <i>Nature Communications</i> , 2021, 12, 3613.	5.8	104
8	Catechol-Vanadium Binding Enhances Cross-Linking and Mechanics of a Mussel Byssus Coating Protein. <i>Chemistry of Materials</i> , 2021, 33, 6530-6540.	3.2	27
9	Tannic acid modified MoS ₂ nanosheet membranes with superior water flux and ion/dye rejection. <i>Journal of Colloid and Interface Science</i> , 2020, 560, 177-185.	5.0	45
10	Nanomechanics of Anion- π Interaction in Aqueous Solution. <i>Journal of the American Chemical Society</i> , 2020, 142, 1710-1714.	6.6	67
11	Adhesive Coacervates Driven by Hydrogen Bonding Interaction. <i>Small</i> , 2020, 16, e2004132.	5.2	45
12	Nanomechanics of π -cation- π interaction with implications for bio-inspired wet adhesion. <i>Acta Biomaterialia</i> , 2020, 117, 294-301.	4.1	37
13	Dynamic Flexible Hydrogel Network with Biological Tissue-like Self-Protective Functions. <i>Chemistry of Materials</i> , 2020, 32, 10545-10555.	3.2	30
14	Surface forces and interaction mechanisms of soft thin films under confinement: a short review. <i>Soft Matter</i> , 2020, 16, 6697-6719.	1.2	16
15	Surface Interactions between Water-in-Oil Emulsions with Asphaltenes and Electroless Nickel-Phosphorus Coating. <i>Langmuir</i> , 2020, 36, 897-905.	1.6	12
16	Probing the Interaction Forces of Phenol/Amine Deposition in Wet Adhesion: Impact of Phenol/Amine Mass Ratio and Surface Properties. <i>Langmuir</i> , 2019, 35, 15639-15650.	1.6	12
17	Probing molecular interactions of PEGylated chitosan in aqueous solutions using a surface force apparatus. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 20571-20581.	1.3	11
18	Fundamentals and Advances in the Adhesion of Polymer Surfaces and Thin Films. <i>Langmuir</i> , 2019, 35, 15914-15936.	1.6	66

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19	A wet adhesion strategy <i>via</i> synergistic cationic and hydrogen bonding interactions of antifouling zwitterions and mussel-inspired binding moieties. <i>Journal of Materials Chemistry A</i> , 2019, 7, 21944-21952.	5.2	66
20	Interaction Mechanisms of Zwitterions with Opposite Dipoles in Aqueous Solutions. <i>Langmuir</i> , 2019, 35, 2842-2853.	1.6	13
21	Injectable, Self-Healing Hydrogel with Tunable Optical, Mechanical, and Antimicrobial Properties. <i>Chemistry of Materials</i> , 2019, 31, 2366-2376.	3.2	86
22	Tough and Alkaline-Resistant Mussel-Inspired Wet Adhesion with Surface Salt Displacement via Polydopamine/Amine Synergy. <i>Langmuir</i> , 2019, 35, 5257-5263.	1.6	35
23	Cost-Effective Strategy for Surface Modification via Complexation of Disassembled Polydopamine with Fe(III) Ions. <i>Langmuir</i> , 2019, 35, 4101-4109.	1.6	26
24	Probing fouling mechanism of naphthenic acids on forward osmosis polymer membranes in oil sands process water treatment. <i>Journal of Membrane Science</i> , 2019, 576, 161-170.	4.1	8
25	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.	2.5	11
26	Nature of Asphaltene Aggregates. <i>Energy & Fuels</i> , 2019, 33, 3694-3710.	2.5	36
27	Universal Mussel-Inspired Ultrastable Surface-Anchoring Strategy via Adaptive Synergy of Catechol and Cations. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 2166-2173.	4.0	43
28	Biomimetic Lubrication and Surface Interactions of Dopamine-Assisted Zwitterionic Polyelectrolyte Coatings. <i>Langmuir</i> , 2018, 34, 11593-11601.	1.6	50
29	Deposition and Adhesion of Polydopamine on the Surfaces of Varying Wettability. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 30943-30950.	4.0	139
30	Molecular Weight Dependence of Synthetic Glycopolymers on Flocculation and Dewatering of Fine Particles. <i>Langmuir</i> , 2016, 32, 11615-11622.	1.6	18