

Li Xiang

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

1,194
citations

361045

20
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454577

30
g-index

31
all docs

31
docs citations

31
times ranked

1321
citing authors

#	ARTICLE	IF	CITATIONS
1	Deposition and Adhesion of Polydopamine on the Surfaces of Varying Wettability. ACS Applied Materials & Interfaces, 2017, 9, 30943-30950.	4.0	139
2	Ultra-strong bio-glue from genetically engineered polypeptides. Nature Communications, 2021, 12, 3613.	5.8	104
3	Injectable, Self-Healing Hydrogel with Tunable Optical, Mechanical, and Antimicrobial Properties. Chemistry of Materials, 2019, 31, 2366-2376.	3.2	86
4	Nanomechanics of Anion-π Interaction in Aqueous Solution. Journal of the American Chemical Society, 2020, 142, 1710-1714.	6.6	67
5	Fundamentals and Advances in the Adhesion of Polymer Surfaces and Thin Films. Langmuir, 2019, 35, 15914-15936.	1.6	66
6	A wet adhesion strategy via synergistic cation-π and hydrogen bonding interactions of antifouling zwitterions and mussel-inspired binding moieties. Journal of Materials Chemistry A, 2019, 7, 21944-21952.	5.2	66
7	Injectable Self-Healing Hydrogel via Biological Environment-Adaptive Supramolecular Assembly for Gastric Perforation Healing. ACS Nano, 2021, 15, 9913-9923.	7.3	57
8	Revisiting the adhesion mechanism of mussel-inspired chemistry. Chemical Science, 2022, 13, 1698-1705.	3.7	53
9	Biomimetic Lubrication and Surface Interactions of Dopamine-Assisted Zwitterionic Polyelectrolyte Coatings. Langmuir, 2018, 34, 11593-11601.	1.6	50
10	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.	5.0	45
11	Adhesive Coacervates Driven by Hydrogen-Bonding Interaction. Small, 2020, 16, e2004132.	5.2	45
12	Universal Mussel-Inspired Ultrastable Surface-Anchoring Strategy via Adaptive Synergy of Catechol and Cations. ACS Applied Materials & Interfaces, 2018, 10, 2166-2173.	4.0	43
13	Nanomechanics of π-cation-π interaction with implications for bio-inspired wet adhesion. Acta Biomaterialia, 2020, 117, 294-301.	4.1	37
14	Nature of Asphaltene Aggregates. Energy & Fuels, 2019, 33, 3694-3710.	2.5	36
15	Tough and Alkaline-Resistant Mussel-Inspired Wet Adhesion with Surface Salt Displacement via Polydopamine/Amine Synergy. Langmuir, 2019, 35, 5257-5263.	1.6	35
16	Nanomechanics of Lignin-Cellulase Interactions in Aqueous Solutions. Biomacromolecules, 2021, 22, 2033-2042.	2.6	32
17	Nanoconfining Cation-π Interactions as a Modular Strategy to Construct Injectable Self-Healing Hydrogel. CCS Chemistry, 2022, 4, 2724-2737.	4.6	31
18	Dynamic Flexible Hydrogel Network with Biological Tissue-like Self-Protective Functions. Chemistry of Materials, 2020, 32, 10545-10555.	3.2	30

#	ARTICLE	IF	CITATIONS
19	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
20	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
21	Molecular Weight Dependence of Synthetic Glycopolymers on Flocculation and Dewatering of Fine Particles. <i>Langmuir</i> , 2016, 32, 11615-11622.	1.6	18
22	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
23	Interaction Mechanisms of Zwitterions with Opposite Dipoles in Aqueous Solutions. <i>Langmuir</i> , 2019, 35, 2842-2853.	1.6	13
24	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
25	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
26	Surface Interactions between Water-in-Oil Emulsions with Asphaltenes and Electroless Nickel-Phosphorus Coating. <i>Langmuir</i> , 2020, 36, 897-905.	1.6	12
27	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
28	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
29	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
30	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