Xiaokong Liu

List of Publications by Year
in descending order

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		172443	302107
45	3,064	29	39
papers	citations	h-index	g-index

46	46	46	3390
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Mechanically Robust, Elastic, and Healable Ionogels for Highly Sensitive Ultraâ€Durable Ionic Skins. Advanced Materials, 2020, 32, e2002706.	21.0	300
2	Cleaning of Oil Fouling with Water Enabled by Zwitterionic Polyelectrolyte Coatings: Overcoming the Imperative Challenge of Oilâ€“Water Separation Membranes. ACS Nano, 2015, 9, 9188-9198.	14.6	287
3	Healable and Recyclable Elastomers with Recordâ€High Mechanical Robustness, Unprecedented Crack Tolerance, and Superhigh Elastic Restorability. Advanced Materials, 2021, 33, e2101498.	21.0	227
4	A Plantâ€Transpirationâ€Processâ€Inspired Strategy for Highly Efficient Solar Evaporation. Advanced Sustainable Systems, 2017, 1, 1700046.	5.3	208
5	Transparent, Healable Elastomers with High Mechanical Strength and Elasticity Derived from Hydrogen-Bonded Polymer Complexes. ACS Applied Materials & Interfaces, 2017, 9, 29120-29129.	8.0	136
6	Healable, Highly Conductive, Flexible, and Nonflammable Supramolecular Ionogel Electrolytes for Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2019, 11, 19413-19420.	8.0	125
7	Highly Tough, Stretchable, Self-Healing, and Recyclable Hydrogels Reinforced by in Situ-Formed Polyelectrolyte Complex Nanoparticles. Macromolecules, 2019, 52, 3141-3149.	4.8	115
8	Rapid Seeded Growth of Monodisperse, Quasi-Spherical, Citrate-Stabilized Gold Nanoparticles via H₂O₂ Reduction. Langmuir, 2012, 28, 13720-13726.	3.5	114
9	Remalleable, Healable, and Highly Sustainable Supramolecular Polymeric Materials Combining Superhigh Strength and Ultrahigh Toughness. ACS Applied Materials & Interfaces, 2020, 12, 30805-30814.	8.0	111
10	Solid-state and liquid-free elastomeric ionic conductors with autonomous self-healing ability. Materials Horizons, 2020, 7, 2994-3004.	12.2	103
11	Substrate-Independent, Transparent Oil-Repellent Coatings with Self-Healing and Persistent Easy-Sliding Oil Repellency. ACS Nano, 2016, 10, 1076-1085.	14.6	102
12	Interfacial Basicity-Guided Formation of Polydopamine Hollow Capsules in Pristine O/W Emulsions â€“ Toward Understanding of Emulsion Template Roles. Chemistry of Materials, 2011, 23, 5105-5110.	6.7	94
13	Highly Transparent and Selfâ€Healable Solar Thermal Antiâ€Deicing Surfaces: When Ultrathin MXene Multilayers Marry a Solid Slippery Selfâ€Cleaning Coating. Advanced Materials, 2022, 34, e2108232.	21.0	76
14	Fire-resistant, high-performance gel polymer electrolytes derived from poly(ionic liquid)/P(VDF-HFP) composite membranes for lithium ion batteries. Journal of Membrane Science, 2020, 599, 117827.	8.2	75
15	Ionâ€Specific Oil Repellency of Polyelectrolyte Multilayers in Water: Molecular Insights into the Hydrophilicity of Charged Surfaces. Angewandte Chemie - International Edition, 2015, 54, 4851-4856.	13.8	70
16	Polymeric complexes as building blocks for rapid fabrication of layer-by-layer assembled multilayer films and their application as superhydrophobic coatings. Journal of Materials Chemistry, 2009, 19, 497-504.	6.7	61
17	Hierarchical CuO Colloidosomes and Their Structure Enhanced Photothermal Catalytic Activity. Journal of Physical Chemistry C, 2016, 120, 12666-12672.	3.1	60
18	Counteranion-Mediated Intrinsic Healing of Poly(ionic liquid) Copolymers. ACS Applied Materials & Interfaces, 2018, 10, 2105-2113.	8.0	59

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19	Electrostatic Repulsion-Controlled Formation of Polydopamineâ€“Gold Janus Particles. Langmuir, 2012, 28, 13060-13065.	3.5	58
20	Layer-by-Layer-Assembled Multilayer Films of Polyelectrolyte-Stabilized Surfactant Micelles for the Incorporation of Noncharged Organic Dyes. Langmuir, 2008, 24, 12986-12989.	3.5	55
21	Ultrafast colorimetric humidity-sensitive polyelectrolyte coating for touchless control. Materials Horizons, 2017, 4, 72-82.	12.2	54
22	Substrateâ€Independent, Reversible, and Easyâ€Release Ionogel Adhesives with High Bonding Strength. Macromolecular Rapid Communications, 2020, 41, e2000098.	3.9	51
23	Healable and Recyclable Polymeric Materials with High Mechanical Robustness. , 2022, 4, 554-571.		49
24	Hybrid Elastic Organic Crystals that Respond to Aerial Humidity. Angewandte Chemie - International Edition, 2022, 61, .	13.8	44
25	Highly elastic and mechanically robust polymer electrolytes with high ionic conductivity and adhesiveness for high-performance lithium metal batteries. Journal of Materials Chemistry A, 2021, 9, 13597-13607.	10.3	43
26	Mechanically Strong and Highly Stiff Supramolecular Polymer Composites Repairable at Ambient Conditions. CCS Chemistry, 2020, 2, 280-292.	7.8	40
27	Robust Ion-Permselective Multilayer Films Prepared by Photolysis of Polyelectrolyte Multilayers Containing Photo-Cross-Linkable and Photolabile Groups. Langmuir, 2006, 22, 7894-7901.	3.5	38
28	Thermal Dynamic Selfâ€Healing Supramolecular Dopant Towards Efficient and Stable Flexible Perovskite Solar Cells. Angewandte Chemie - International Edition, 2022, 61, .	13.8	38
29	Exponential growth of layer-by-layer assembled coatings with well-dispersed ultrafine nanofillers: a facile route to scratch-resistant and transparent hybrid coatings. Journal of Materials Chemistry, 2010, 20, 7721.	6.7	34
30	Organic Singleâ€Crystal Actuators and Waveguides that Operate at Low Temperatures. Advanced Materials, 2022, 34, e2200471.	21.0	34
31	Remote and precise control over morphology and motion of organic crystals by using magnetic field. Nature Communications, 2022, 13, 2322.	12.8	34
32	Polymerâ€Coated Organic Crystals with Solventâ€Resistant Capacity and Optical Waveguiding Function. Angewandte Chemie - International Edition, 2021, 60, 11283-11287.	13.8	28
33	Polymeric materials reinforced by noncovalent aggregates of polymer chains. Aggregate, 2021, 2, e109.	9.9	28
34	Ultra-fast Hygrometer based on U-shaped Optical Microfiber with Nanoporous Polyelectrolyte Coating. Scientific Reports, 2017, 7, 7943.	3.3	27
35	Simply Formulated Dry Pressure-Sensitive Adhesives for Substrate-Independent Underwater Adhesion. , 2022, 4, 410-417.		24
36	Hybrid Elastic Organic Crystals that Respond to Aerial Humidity. Angewandte Chemie, 0, , .	2.0	12

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37	Asymmetry of the free-standing polyelectrolyte multilayers. Applied Surface Science, 2017, 422, 46-55.	6.1	11
38	Optical hygrometer using light-sheet skew-ray probed multimode fiber with polyelectrolyte coating. Sensors and Actuators B: Chemical, 2019, 296, 126685.	7.8	9
39	Polymerâ€Coated Organic Crystals with Solventâ€Resistant Capacity and Optical Waveguiding Function. Angewandte Chemie, 2021, 133, 11383-11387.	2.0	7
40	Effect of the Self-Assembled Structures of Hydrated Polyzwitterionic and Polyanionic Brushes on Their Self-Cleaning Capabilities. Langmuir, 2019, 35, 6669-6675.	3.5	6
41	Short-Range Non-Bending Fully Distributed Water/Humidity Sensors. Journal of Lightwave Technology, 2019, 37, 2014-2022.	4.6	6
42	Fast Modulation of Surface Amphiphobicity/Amphiphilicity via Bidirectional Substitution between Perfluorinated Surfactants and Polyanions throughout Pre-Assembled Polyelectrolyte Multilayers. Langmuir, 2019, 35, 17122-17131.	3.5	6
43	Thermal Dynamic Selfâ€Healing Supramolecular Dopant Towards Efficient and Stable Flexible Perovskite Solar Cells. Angewandte Chemie, 0, , .	2.0	3
44	Super-fast optical hygrometer probe based on polyelectrolyte-coated fiber taper. , 2017, , .		0
45	Recent Progress in Advanced Humidity Sensors. Journal of Physics: Conference Series, 2018, 1065, 252008.	0.4	0