## Jiaxi Cui

## List of Publications by Year in descending order

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101543 98798 4,742 92 36 67 citations h-index g-index papers 93 93 93 5761 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Surface charge printing for programmed droplet transport. Nature Materials, 2019, 18, 936-941.	27.5	401
2	Extremely Stretchable and Fast Selfâ€Healing Hydrogels. Advanced Materials, 2016, 28, 4678-4683.	21.0	394
3	Multivalent H-bonds for self-healing hydrogels. Chemical Communications, 2012, 48, 9302.	4.1	308
4	Dynamic polymer systems with self-regulated secretion for the control of surface properties andÂmaterial healing. Nature Materials, 2015, 14, 790-795.	27.5	237
5	Bioinspired Underwater Bonding and Debonding on Demand. Angewandte Chemie - International Edition, 2012, 51, 4332-4335.	13.8	171
6	Selfâ€Hydrophobization in a Dynamic Hydrogel for Creating Nonspecific Repeatable Underwater Adhesion. Advanced Functional Materials, 2020, 30, 1907064.	14.9	159
7	Earthwormâ€Inspired Rough Polymer Coatings with Selfâ€Replenishing Lubrication for Adaptive Frictionâ€Reduction and Antifouling Surfaces. Advanced Materials, 2018, 30, e1802141.	21.0	133
8	Switchable Cavitation in Silicone Coatings for Energyâ€Saving Cooling and Heating. Advanced Materials, 2020, 32, e2000870.	21.0	132
9	Development of "Liquid-like―Copolymer Nanocoatings for Reactive Oil-Repellent Surface. ACS Nano, 2017, 11, 2248-2256.	14.6	130
10	Bioinspired Actuated Adhesive Patterns of Liquid Crystalline Elastomers. Advanced Materials, 2012, 24, 4601-4604.	21.0	110
11	Anisotropic tough multilayer hydrogels with programmable orientation. Materials Horizons, 2019, 6, 1504-1511.	12.2	106
12	Highâ€Performance pHâ€Switchable Supramolecular Thermosets via Cation–π Interactions. Advanced Materials, 2018, 30, 1704234.	21.0	105
13	Tuning the Helicity of Self-Assembled Structure of a Sugar-Based Organogelator by the Proper Choice of Cooling Rate. Langmuir, 2010, 26, 3615-3622.	3.5	94
14	Antibacterial Strategies from the Sea: Polymerâ€Bound Clâ€Catechols for Prevention of Biofilm Formation. Advanced Materials, 2013, 25, 529-533.	21.0	92
15	Multiresponsive polymeric microstructures with encoded predetermined and self-regulated deformability. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 12950-12955.	7.1	91
16	Multifunctional poly(disulfide) hydrogels with extremely fast self-healing ability and degradability. Chemical Engineering Journal, 2020, 394, 124941.	12.7	72
17	Lightâ€Triggered Multifunctionality at Surfaces Mediated by Photolabile Protecting Groups. Macromolecular Rapid Communications, 2013, 34, 310-329.	3.9	69
18	Dynamic siloxane materials: From molecular engineering to emerging applications. Chemical Engineering Journal, 2021, 405, 127023.	12.7	69

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19	Hydrogels with superior mechanical properties from the synergistic effect in hydrophobic–hydrophilic copolymers. Chemical Engineering Journal, 2019, 362, 325-338.	12.7	67
20	Photoswitchable ultrahigh-brightness red fluorescent polymeric nanoparticles for information encryption, anti-counterfeiting and bioimaging. Journal of Materials Chemistry C, 2019, 7, 11515-11521.	5.5	57
21	Oddâ^'Even Effect in Free Radical Polymerization of Optically Active 2,5-Bis[(4â€~-alkoxycarbonyl)-phenyl]styrene. Macromolecules, 2008, 41, 1594-1597.	4.8	56
22	From a Molecular Toolbox to a Toolbox for Photoswitchable Fluorescent Polymeric Nanoparticles. Advanced Functional Materials, 2018, 28, 1804759.	14.9	56
23	Dual photochromics-contained photoswitchable multistate fluorescent polymers for advanced optical data storage, encryption, and photowritable pattern. Chemical Engineering Journal, 2021, 425, 131557.	12.7	56
24	Conductive Tough Hydrogels with a Staggered Ion-Coordinating Structure for High Self-Recovery Rate. ACS Applied Materials & Samp; Interfaces, 2019, 11, 24598-24608.	8.0	55
25	Study on the Gel to Crystal Transition of a Novel Sugar-Appended Gelator. Langmuir, 2010, 26, 97-103.	3.5	54
26	Doubleâ∈Hydrophobicâ€Coating through Quenching for Hydrogels with Strong Resistance to Both Drying and Swelling. Advanced Science, 2020, 7, 1903145.	11,2	54
27	Long-Range Chirality Transfer in Free Radical Polymerization of Bulky Vinyl Monomers Containing Laterally Attached <i>p</i> -Terphenyl Groups. Macromolecules, 2009, 42, 7678-7688.	4.8	53
28	Synthesis and characterization of a thermotropic liquid-crystalline poly[2,5-bis(4′-alkoxycarbonylphenyl) styrene]. Journal of Polymer Science Part A, 2007, 45, 830-847.	2.3	50
29	Dynamically Actuated Liquidâ€Infused Poroelastic Film with Precise Control over Droplet Dynamics. Advanced Functional Materials, 2018, 28, 1802632.	14.9	46
30	Phototunable Response in Caged Polymer Brushes. Macromolecules, 2012, 45, 3213-3220.	4.8	43
31	Polymer Brushes with Phototriggered and Phototunable Swelling and pH Response. Macromolecular Rapid Communications, 2011, 32, 1699-1703.	3.9	42
32	Solvent-tuned multiple self-assembly of a new sugar-appended gelator. Journal of Colloid and Interface Science, 2008, 326, 267-274.	9.4	41
33	Alkoxy Tail Length Dependence of Gelation Ability and Supramolecular Chirality of Sugar-Appended Organogelators. Langmuir, 2010, 26, 15508-15515.	3.5	41
34	New Photolabile BAPTA-Based Ca <sup>2+</sup> Cages with Improved Photorelease. Journal of the American Chemical Society, 2012, 134, 7733-7740.	13.7	39
35	Synthesis and Chiroptical Properties of Vinyl Polymers Containing Laterally Attached 4,4′′-Digalactosyloxy- <i>p</i> -terphenyl Side Groups. Macromolecules, 2008, 41, 5245-5254.	4.8	38
36	Light-Triggered Cross-Linking of Alginates with Caged Ca2+. Biomacromolecules, 2013, 14, 1251-1256.	5.4	38

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37	Enantiomer-selective magnetization of conglomerates for quantitative chiral separation. Nature Communications, 2019, 10, 1964.	12.8	38
38	Synthesis and characterization of optically active helical vinyl polymers via free radical polymerization. Journal of Polymer Science Part A, 2009, 47, 2408-2421.	2.3	37
39	Dopamineâ€Based Coatings and Hydrogels: Toward Substitutionâ€Related Structure–Property Relationships. Macromolecular Chemistry and Physics, 2014, 215, 2403-2413.	2.2	36
40	Light-regulated growth from dynamic swollen substrates for making rough surfaces. Nature Communications, 2020, 11, 963.	12.8	36
41	Thermotropic and Chiroptical Properties of Poly $\{(+)$ -2,5-bis $[4-((67-2-methylbutoxy)$ phenyl $[4-(+)$ -2,5-bis $[4-((67-2-methylbutoxy)$ phenyl $[4-(+)$ -2,5-bis $[4-((-2-methylbutoxy)) Polystyrene. Macromolecules, 2007, 40, 8233-8243.$	4.8	34
42	Single-dye-doped fluorescent nanoprobe enables self-referenced ratiometric imaging of hypochlorous acid in lysosomes. Sensors and Actuators B: Chemical, 2020, 304, 127299.	7.8	34
43	Controlling the Localization of Liquid Droplets in Polymer Matrices by Evaporative Lithography. Angewandte Chemie - International Edition, 2016, 55, 10681-10685.	13.8	33
44	Thermoresponsive Mobile Interfaces with Switchable Wettability, Optical Properties, and Penetrability. ACS Applied Materials & Samp; Interfaces, 2017, 9, 35483-35491.	8.0	33
45	Omniâ€Liquid Droplet Manipulation Platform. Advanced Materials Interfaces, 2019, 6, 1900653.	3.7	33
46	Near-infrared electrochromic and chiroptical switching polymers: synthesis and characterization of helical poly(N-propargylamides) carrying anthraquinone imide moieties in side chains. Journal of Materials Chemistry, 2010, 20, 5915.	6.7	31
47	Hydrogen bonding of helical vinyl polymers containing alanine moieties: a stabilized interaction of helical conformation sensitive to solvents and pH. Polymer Chemistry, 2012, 3, 668.	3.9	31
48	Reversibly Photoswitchable Tristate Fluorescence within a Single Polymeric Nanoparticle. Advanced Optical Materials, 2021, 9, 2101227.	7.3	30
49	Selfâ€Reporting Inhibitors: A Single Crystallization Process To Obtain Two Optically Pure Enantiomers. Angewandte Chemie - International Edition, 2018, 57, 8120-8124.	13.8	29
50	Rational design of ratiometric and lysosome-targetable AIE dots for imaging endogenous HClO in live cells. Materials Chemistry Frontiers, 2019, 3, 203-208.	5.9	29
51	Hydrogel bowls for cleaning oil spills on water. Water Research, 2018, 145, 640-649.	11.3	28
52	2â€Ureidoâ€4â€Pyrimidoneâ€Based Hydrogels with Multiple Responses. ChemPhysChem, 2013, 14, 2932-2938.	2.1	25
53	Physical entanglement hydrogels: ultrahigh water content but good toughness and stretchability. Polymer Chemistry, 2020, 11, 2339-2345.	3.9	24
54	Selfâ€Healable and Recyclable Tactile Force Sensors with Post‶unable Sensitivity. Advanced Functional Materials, 2020, 30, 2003533.	14.9	23

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55	Switchable single fluorescent polymeric nanoparticles for stable white-light generation. Journal of Materials Chemistry C, 2018, 6, 9897-9902.	5 <b>.</b> 5	21
56	Slippery Passive Radiative Cooling Supramolecular Siloxane Coatings. ACS Applied Materials & Samp; Interfaces, 2022, 14, 4571-4578.	8.0	21
57	When Ultimate Adhesive Mechanism Meets Ultimate Antiâ€Fouling Surfacesâ€"Polydopamine Versus SLIPS: Which One Prevails?. Advanced Materials Interfaces, 2020, 7, 2000876.	3.7	20
58	Phototriggered Growth and Detachment of Polymer Brushes with Wavelength Selectivity. ACS Macro Letters, 2018, 7, 239-243.	4.8	19
59	Thermomagneto-Responsive Smart Biocatalysts for Malonyl-Coenzyme A Synthesis. ACS Applied Materials & Samp; Interfaces, 2020, 12, 20982-20990.	8.0	19
60	Photo-induced helix–helix transition of a polystyrene derivative. Polymer Chemistry, 2014, 5, 718-721.	3.9	17
61	Goosebumpsâ€Inspired Microgel Patterns with Switchable Adhesion and Friction. Small, 2019, 15, 1902376.	10.0	17
62	Selective ratiometric fluorescence detection of hypochlorite by using aggregation-induced emission dots. Analytical and Bioanalytical Chemistry, 2019, 411, 1979-1988.	3.7	17
63	Steric Interaction between Flexible Main Chain and Nonmesogenic Cyclic Pendants Leading to Thermotropic Liquid Crystalline Property. Macromolecules, 2010, 43, 8942-8949.	4.8	15
64	Phototunable Surface Interactions. Langmuir, 2013, 29, 12138-12144.	3.5	15
65	Optically active helical vinylbiphenyl polymers with reversible thermally induced stereomutation. Polymer Chemistry, 2016, 7, 3134-3144.	3.9	15
66	Macroscopic Selfâ€Evolution of Dynamic Hydrogels to Create Hollow Interiors. Angewandte Chemie - International Edition, 2020, 59, 5611-5615.	13.8	14
67	A rational design of a cancer-specific and lysosome-targeted fluorescence nanoprobe for glutathione imaging in living cells. Materials Advances, 2020, 1, 1739-1744.	5.4	14
68	Preparation and application of multi-wavelength-regulated multi-state photoswitchable fluorescent polymer nanoparticles. Dyes and Pigments, 2022, 197, 109919.	3.7	14
69	Synthesis and Characterization of Branched Mesogen-Jacketed Liquid Crystal Polymers Based on 2,5-Bis[(4â€⁻-methoxyphenyl)oxycarbonyl]styrene and 4-Chloromethylstyrene. Macromolecules, 2008, 41, 1264-1272.	4.8	13
70	Multistimuli Responsive Liquidâ€Release in Dynamic Polymer Coatings for Controlling Surface Slipperiness and Optical Performance. Advanced Materials Interfaces, 2019, 6, 1901028.	3.7	13
71	Universal, Surfactantâ€Free Preparation of Hydrogel Beads on Superamphiphobic and Slippery Surfaces. Advanced Materials Interfaces, 2018, 5, 1701536.	3.7	12
72	Four and a Half LIM Domains 1b (Fhl1b) Is Essential for Regulating the Liver versus Pancreas Fate Decision and for $\hat{l}^2$ -Cell Regeneration. PLoS Genetics, 2016, 12, e1005831.	3.5	11

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73	Growing Strategy for Postmodifying Cross-Linked Polymers' Bulky Size, Shape, and Mechanical Properties. ACS Applied Materials & Samp; Interfaces, 2022, 14, 8473-8481.	8.0	11
74	Nonequilibrium Transesterification for Programming a Material's Stiffening. ACS Applied Polymer Materials, 2019, 1, 3227-3232.	4.4	10
75	Folding fluorescent probes for self-reporting transesterification in dynamic polymer networks. Materials Horizons, 2021, 8, 1481-1487.	12.2	10
76	Damage restoration in rigid materials <i>via</i> a keloid-inspired growth process. Journal of Materials Chemistry A, 2021, 10, 174-179.	10.3	9
77	Aptamer functionalization and high-contrast reversible dual-color photoswitching fluorescence of polymeric nanoparticles for latent fingerprints imaging. Sensors and Actuators B: Chemical, 2022, 367, 132049.	7.8	9
78	Thermo-responsive recoverable polymeric inhibitors for the resolution of racemic amino acids. Chemical Communications, 2018, 54, 2785-2787.	4.1	8
79	Selfâ€Reporting Inhibitors: A Single Crystallization Process To Obtain Two Optically Pure Enantiomers. Angewandte Chemie, 2018, 130, 8252-8256.	2.0	8
80	Switchable Cavitation: Switchable Cavitation in Silicone Coatings for Energyâ€Saving Cooling and Heating (Adv. Mater. 29/2020). Advanced Materials, 2020, 32, 2070215.	21.0	8
81	Analysis of Responsive Polymer Films Using Surface Acoustic Waves. Langmuir, 2013, 29, 6582-6587.	3.5	7
82	Photoinduced Strainâ€Assisted Synthesis of a Stiff‣tilbene Polymer by Ringâ€Opening Metathesis Polymerization. Chemistry - A European Journal, 2020, 26, 14828-14832.	3.3	7
83	Polymeric Microparticles Generated via Confinementâ€Free Fluid Instability. Advanced Materials, 2021, 33, e2007154.	21.0	7
84	Anisotropic Mechano-Adaptive Cavitation in Elastomer for Unclonable Covert–Overt Anti-counterfeiting. Journal of Materials Chemistry C, 0, , .	<b>5.</b> 5	7
85	Controlling the Localization of Liquid Droplets in Polymer Matrices by Evaporative Lithography. Angewandte Chemie, 2016, 128, 10839-10843.	2.0	5
86	Selfâ€Forming Interlocking Interfaces on the Immiscible Polymer Bilayers via Gelationâ€Mediated Phase Separation. Macromolecular Rapid Communications, 2017, 38, 1700206.	3.9	5
87	Droplets Self-Born in the Dynamic Polymer for Generating Functional Coatings. ACS Applied Materials & Samp; Interfaces, 2020, 12, 39657-39664.	8.0	5
88	Perylene diimide-based supramolecular polymer with temperature-sensitive ratiometric fluorescence responsiveness in solution and gels. Materials Advances, 2020, 1, 1330-1336.	5.4	5
89	Programming Hydrogels with Complex Transient Behaviors via Autocatalytic Cascade Reactions. ACS Applied Materials & Samp; Interfaces, 2022, 14, 20073-20082.	8.0	5
90	Macroscopic Selfâ€Evolution of Dynamic Hydrogels to Create Hollow Interiors. Angewandte Chemie, 2020, 132, 5660-5664.	2.0	3

#	Article	lF	CITATIONS
91	Click functionalization of phenyl-capped bithiophene on azide-terminated self-assembled monolayers. Applied Surface Science, 2015, 355, 213-217.	6.1	2
92	Bio-inspired semi-infused adaptive surface with reconfigurable topography for on-demand droplet manipulation. Materials Chemistry Frontiers, 2021, 5, 5382-5389.	5.9	1