Mingyu Guo

List of Publications by Year
in descending order

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38 papers	1,995 citations	304743 22 h-index	315739 38 g-index
38 all docs	38 docs citations	38 times ranked	2950 citing authors

#	Article	IF	Citations
1	Tough Stimuli-Responsive Supramolecular Hydrogels with Hydrogen-Bonding Network Junctions. Journal of the American Chemical Society, 2014, 136, 6969-6977.	13.7	525
2	Supramolecular Hydrogels Made of End-Functionalized Low-Molecular-Weight PEG and Î±-Cyclodextrin and Their Hybridization with SiO₂ Nanoparticles through Hostâ^'Guest Interaction. Macromolecules, 2008, 41, 9744-9749.	4.8	118
3	Dual Stimuli-Responsive Supramolecular Hydrogel Based on Hybrid Inclusion Complex (HIC). Macromolecules, 2010, 43, 8086-8093.	4.8	113
4	Preparation of superabsorbent polymer with slow-release phosphate fertilizer. Journal of Applied Polymer Science, 2004, 92, 3417-3421.	2.6	108
5	Non-covalently connected micelles (NCCMs): the origins and development of a new concept. Soft Matter, 2009, 5, 495-500.	2.7	95
6	Factors on the preparation of carboxymethylcellulose hydrogel and its degradation behavior in soil. Carbohydrate Polymers, 2004, 58, 185-189.	10.2	89
7	Reactive macromolecular micelle crosslinked highly elastic hydrogel with water-triggered shape-memory behaviour. Polymer Chemistry, 2014, 5, 4965.	3.9	72
8	Flexible and voltage-switchable polymer velcro constructed using hostâ€“guest recognition between poly(ionic liquid) strips. Chemical Science, 2014, 5, 3261.	7.4	68
9	Multistimuli Responsive and Electroactive Supramolecular Gels Based on Ionic Liquid Gemini Guest. ACS Macro Letters, 2014, 3, 271-275.	4.8	61
10	Preparation and properties of a slow release NP compound fertilizer with superabsorbent and moisture preservation. Journal of Applied Polymer Science, 2005, 96, 2132-2138.	2.6	60
11	Granular urea-formaldehyde slow-release fertilizer with superabsorbent and moisture preservation. Journal of Applied Polymer Science, 2006, 99, 3230-3235.	2.6	59
12	Highly stretchable and resilient hydrogels from the copolymerization of acrylamide and a polymerizable macromolecular surfactant. Polymer Chemistry, 2013, 4, 5570.	3.9	59
13	Microfluidic Fabrication of Biomimetic Helical Hydrogel Microfibers for Bloodâ€Vesselâ€onâ€aâ€Chip Applications. Advanced Healthcare Materials, 2019, 8, e1900435.	7.6	53
14	Surface Modification of Polymeric Vesicles via Hostâ^'Guest Inclusion Complexation. Langmuir, 2008, 24, 10583-10586.	3.5	48
15	Mechanically strong and stretchable PEG-based supramolecular hydrogel with water-responsive shape-memory property. Journal of Materials Chemistry B, 2014, 2, 2978-2982.	5.8	48
16	Highly Transparent, Stretchable, and Conductive Supramolecular Ionogels Integrated with Three-Dimensional Printable, Adhesive, Healable, and Recyclable Character. ACS Applied Materials & Interfaces, 2021, 13, 25365-25373.	8.0	45
17	Micromechanics of Soft Particles. Macromolecular Materials and Engineering, 2011, 296, 223-229.	3.6	42
18	Ultrastrong and Tough Supramolecular Hydrogels from Multiurea Linkage Segmented Copolymers with Tractable Processablity and Recyclability. Macromolecular Rapid Communications, 2017, 38, 1700275.	3.9	32

#	Article	IF	Citations
19	Mechanically strong and stretchable polyurethaneâ€“urea supramolecular hydrogel using water as an additional in situ chain extender. RSC Advances, 2014, 4, 24095-24102.	3.6	27
20	Microfluidic Controlled Mass-Transfer and Buckling for Easy Fabrication of Polymeric Helical Fibers. Macromolecular Rapid Communications, 2016, 37, 426-432.	3.9	25
21	Non-covalent interaction cooperatively induced stretchy, tough and stimuli-responsive polyurethaneâ€“urea supramolecular (PUUS) hydrogels. Journal of Materials Chemistry B, 2015, 3, 2834-2841.	5.8	24
22	Ultraductile, notch and stab resistant supramolecular hydrogels via hostâ€“guest interactions. Polymer Chemistry, 2015, 6, 7543-7549.	3.9	24
23	Microfluidics-Based Fabrication of Cell-Laden Hydrogel Microfibers for Potential Applications in Tissue Engineering. Molecules, 2019, 24, 1633.	3.8	23
24	Bioinspired Polymeric Helical and Superhelical Microfibers via Microfluidic Spinning. Macromolecular Rapid Communications, 2019, 40, 1900111.	3.9	23
25	Strain hardening and highly resilient hydrogels crosslinked by chain-extended reactive pseudo-polyrotaxane. RSC Advances, 2014, 4, 56791-56797.	3.6	22
26	Stretchable collagen-coated polyurethane-urea hydrogel seeded with bladder smooth muscle cells for urethral defect repair in a rabbit model. Journal of Materials Science: Materials in Medicine, 2019, 30, 135.	3.6	18
27	Supramolecular and Physically Double-Cross-Linked Network Strategy toward Strong and Tough Elastic Fibers. ACS Macro Letters, 2020, 9, 1655-1661.	4.8	18
28	Stretchy and strong polyurethaneâ€“urea supramolecular (PUUS) hydrogels with various stimulus-responsive behaviours: the effect of chain-extenders. Journal of Materials Chemistry B, 2019, 7, 1734-1740.	5.8	17
29	Supramolecular Hydrogels with CdS Quantum Dots Incorporated by Hostâ€“Guest Interactions. Macromolecular Rapid Communications, 2010, 31, 1736-1739.	3.9	14
30	Photo-responsive gels based on cyclic/linear polymers: efficient synthesis and properties. Polymer Chemistry, 2019, 10, 2872-2880.	3.9	12
31	Single emulsion microfluidic production of Janus and core-shell particles via off-chip polymerization. Chinese Journal of Polymer Science (English Edition), 2016, 34, 367-377.	3.8	10
32	Coreâ€“Shell Capsules Based on Supramolecular Hydrogels Show Shellâ€Related Erosion and Release Due to Confinement. Macromolecular Bioscience, 2013, 13, 77-83.	4.1	9
33	Extremely Stretchable and Tough Piezoelectric Gels for Artificial Electronic Skin. Advanced Materials Technologies, 2022, 7, .	5.8	8
34	Highly Stretchable, Compressible, Resilient, and Equilibrium Swelling Hydrogels with Elastic Nano Junctions. Macromolecular Materials and Engineering, 2020, 305, 2000205.	3.6	7
35	Silk-Fibroin-Assisted Cathodic Electrolytic Deposition of Calcium Phosphate for Biomedical Applications. ACS Biomaterials Science and Engineering, 2019, 5, 4302-4310.	5.2	6
36	Thermo-responsive, mechanically robust and 3D printable supramolecular hydrogels. Polymer Chemistry, 2022, 13, 1695-1704.	3.9	6

#	Article	IF	Citations
37	Controllable Hierarchical Surface Patterns of Supramolecular Hydrogels: Harnessing Buckling Instability by Confinement. Chemistry - A European Journal, 2017, 23, 17444-17448.	3.3	4
38	Microfluidic fabrication of <scp>Î²â€phase</scp> enriched poly(vinylidene fluoride) microfibers toward flexible piezoelectric sensor. Journal of Polymer Science, 2022, 60, 1718-1726.	3.8	3