

Haibin Gu

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	A Multifunctional, Self-Healing, Self-Adhesive, and Conductive Sodium Alginate/Poly(vinyl alcohol) Composite Hydrogel as a Flexible Strain Sensor. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 11344-11355.	8.0	208
2	Multifunctional Self-Healing Dual Network Hydrogels Constructed via Host-Guest Interaction and Dynamic Covalent Bond as Wearable Strain Sensors for Monitoring Human and Organ Motions. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 14612-14622.	8.0	134
3	Rapid self-healing and self-adhesive chitosan-based hydrogels by host-guest interaction and dynamic covalent bond as flexible sensor. <i>Carbohydrate Polymers</i> , 2021, 273, 118533.	10.2	124
4	Highly Sensitive and Robust Polysaccharide-Based Composite Hydrogel Sensor Integrated with Underwater Repeatable Self-Adhesion and Rapid Self-Healing for Human Motion Detection. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 24741-24754.	8.0	114
5	Redox-stimuli-responsive drug delivery systems with supramolecular ferrocenyl-containing polymers for controlled release. <i>Coordination Chemistry Reviews</i> , 2018, 364, 51-85.	18.8	107
6	Tough, Repeatedly Adhesive, Cyclic Compression-Stable, and Conductive Dual-Network Hydrogel Sensors for Human Health Monitoring. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 18373-18383.	3.7	87
7	Dendronized triazolyl-containing ferrocenyl polymers as stabilizers of gold nanoparticles for recyclable two-phase reduction of 4-nitrophenol. <i>Journal of Colloid and Interface Science</i> , 2019, 533, 161-170.	9.4	85
8	Multifunctional Ionic Conductive Double-Network Hydrogel as a Long-Term Flexible Strain Sensor. <i>ACS Applied Polymer Materials</i> , 2021, 3, 5494-5508.	4.4	72
9	Supramolecular redox-responsive ferrocene hydrogels and microgels. <i>Coordination Chemistry Reviews</i> , 2020, 419, 213406.	18.8	71
10	PVA/gelatin/β-CD-based rapid self-healing supramolecular dual-network conductive hydrogel as bidirectional strain sensor. <i>Polymer</i> , 2022, 246, 124769.	3.8	60
11	Tannin-ethered Gelatin Hydrogels with Considerable Self-Healing and Adhesive Performances. <i>Macromolecular Materials and Engineering</i> , 2019, 304, 1800664.	3.6	59
12	Tough, Self-Adhesive, Antibacterial, and Recyclable Supramolecular Double Network Flexible Hydrogel Sensor Based on PVA/Chitosan/Cyclodextrin. <i>Industrial & Engineering Chemistry Research</i> , 2022, 61, 3620-3635.	3.7	57
13	Syntheses and applications of dendronized polymers. <i>Progress in Polymer Science</i> , 2019, 96, 43-105.	24.7	55
14	Ultra-fast preparation of multifunctional conductive hydrogels with high mechanical strength, self-healing and self-adhesive properties based on Tannin-Fe ³⁺ dynamic redox system for strain sensors applications. <i>Polymer</i> , 2022, 240, 124513.	3.8	49
15	Recent progress in cleaner preservation of hides and skins. <i>Journal of Cleaner Production</i> , 2017, 148, 158-173.	9.3	48
16	Metallomacromolecules containing cobalt sandwich complexes: Synthesis and functional materials properties. <i>Coordination Chemistry Reviews</i> , 2017, 337, 34-79.	18.8	47
17	Tetrablock Metallopolymer Electrochromes. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 2204-2208.	13.8	46
18	Multi-Network Poly(β-cyclodextrin)/PVA/Gelatin/Carbon Nanotubes Composite Hydrogels Constructed by Multiple Dynamic Crosslinking as Flexible Electronic Devices. <i>Macromolecular Materials and Engineering</i> , 2022, 307, 2100724.	3.6	46

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19	Mixed-Valent Click Intertwined Polymer Units Containing Biferrocenium Chloride Side Chains Form Nanosnakes that Encapsulate Gold Nanoparticles. <i>Journal of the American Chemical Society</i> , 2014, 136, 13995-13998.	13.7	44
20	Living Ring-Opening Metathesis-Polymerization Synthesis and Redox-Sensing Properties of Norbornene Polymers and Copolymers Containing Ferrocenyl and Tetraethylene Glycol Groups. <i>Organometallics</i> , 2014, 33, 4323-4335.	2.3	39
21	Highly-branched amphiphilic organometallic dendronized diblock copolymer: ROMP synthesis, self-assembly and long-term Au and Ag nanoparticle stabilizer for high-efficiency catalysis. <i>Polymer</i> , 2019, 173, 1-10.	3.8	35
22	Redox-Robust Pentamethylferrocene Polymers and Supramolecular Polymers, and Controlled Self-Assembly of Pentamethylferrocenium Polymer-Embedded Ag, AgI, and Au Nanoparticles. <i>Chemistry - A European Journal</i> , 2015, 21, 18177-18186.	3.3	32
23	New ROMP Synthesis of Ferrocenyl Dendronized Polymers. <i>Macromolecular Rapid Communications</i> , 2017, 38, 1700448.	3.9	31
24	ROMP and MCP as Versatile and Forceful Tools to Fabricate Dendronized Polymers for Functional Applications. <i>Polymer Reviews</i> , 2021, 61, 1-53.	10.9	31
25	ROMP Synthesis and Redox Properties of Polycationic Metallopolymers Containing the Electron-Reservoir Complex $[\text{Fe}(\text{C}_5\text{H}_5)(\text{C}_6\text{Me}_6)]^+[\text{PF}_6]^-$. <i>Macromolecules</i> , 2015, 48, 6071-6076.	4.8	30
26	Ferrocene-containing amphiphilic polynorbornenes as biocompatible drug carriers. <i>Polymer Chemistry</i> , 2019, 10, 2527-2539.	3.9	30
27	Living ROMP Syntheses and Redox Properties of Triblock Metallocopolymer Redox Cascades. <i>Macromolecules</i> , 2016, 49, 4763-4773.	4.8	28
28	Wool keratin total solubilisation for recovery and reintegration - An ecological approach. <i>Journal of Cleaner Production</i> , 2019, 236, 117586.	9.3	28
29	Antimicrobial AgNPs composites of gelatin hydrogels crosslinked by ferrocene-containing tetrablock terpolymer. <i>Polymer</i> , 2019, 169, 80-94.	3.8	27
30	Gold Nanoparticles Stabilized by 1,2,3-Triazolyl Dendronized Polymers as Highly Efficient Nanoreactors for the Reduction of 4-Nitrophenol. <i>Catalysis Letters</i> , 2019, 149, 544-551.	2.6	25
31	Multiple applications of polymers containing electron-reservoir metal-sandwich complexes. <i>Chemical Communications</i> , 2020, 56, 11374-11385.	4.1	25
32	Living ROMP Synthesis and Redox Properties of Diblock Ferrocene/Cobalticenium Copolymers. <i>Macromolecular Rapid Communications</i> , 2016, 37, 105-111.	3.9	24
33	Multifunctional triazolylferrocenyl Janus dendron: Nanoparticle stabilizer, smart drug carrier and supramolecular nanoreactor. <i>Applied Organometallic Chemistry</i> , 2018, 32, e4000.	3.5	24
34	Diblock metallocopolymers containing various iron sandwich complexes: living ROMP synthesis and selective reversible oxidation. <i>Polymer Chemistry</i> , 2016, 7, 2358-2371.	3.9	23
35	Gallol-containing homopolymers and block copolymers: ROMP synthesis and gelation properties by metal-coordination and oxidation. <i>Polymer</i> , 2018, 143, 212-227.	3.8	23
36	ROMP synthesis of benzaldehyde-containing amphiphilic block polynorbornenes used to conjugate drugs for pH-responsive release. <i>Reactive and Functional Polymers</i> , 2018, 128, 1-15.	4.1	23

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37	Supramolecular redox-responsive substrate carrier activity of a ferrocenyl Janus device. <i>Journal of Inorganic Biochemistry</i> , 2019, 193, 31-41.	3.5	23
38	ROMP synthesis of 1,2,3-triazolyl dendronized polymers with triethylene glycol branches as recyclable nanoreactors for Cu(I) catalysis reaction in water. <i>Polymer</i> , 2018, 146, 275-290.	3.8	22
39	Controlled ROMP synthesis of side-chain ferrocene and adamantane-containing diblock copolymer for the construction of redox-responsive micellar carriers. <i>Reactive and Functional Polymers</i> , 2018, 132, 60-73.	4.1	21
40	Ferrocenyl Janus mixed-dendron stars and their stabilization of Au and Ag nanoparticles. <i>Tetrahedron</i> , 2018, 74, 4777-4789.	1.9	21
41	Controlled ROMP Synthesis of Ferrocene-Containing Amphiphilic Dendronized Diblock Copolymers as Redox-Controlled Polymer Carriers. <i>Macromolecular Chemistry and Physics</i> , 2018, 219, 1800273.	2.2	21
42	On metallocene-containing macromolecules and their applications. <i>Journal of Organometallic Chemistry</i> , 2016, 813, 95-102.	1.8	19
43	ROMP synthesis of gallol-containing polymer hydrogels for in situ fabrication of AuNPs and AgNPs composites as recyclable catalysts for the degradation of 4-nitrophenol. <i>Polymer</i> , 2021, 219, 123539.	3.8	18
44	Electrostatic Assembly of Functional and Macromolecular Ferricinium Chloride-Stabilized Gold Nanoparticles. <i>Inorganic Chemistry</i> , 2017, 56, 2784-2791.	4.0	17
45	Gallol-Tethered Injectable AuNP Hydrogel with Desirable Self-Healing and Catalytic Properties. <i>Macromolecular Chemistry and Physics</i> , 2019, 220, 1800427.	2.2	17
46	AuNPs composites of gelatin hydrogels crosslinked by ferrocene-containing polymer as recyclable supported catalysts. <i>Journal of Applied Polymer Science</i> , 2020, 137, 48653.	2.6	17
47	Diblock Polyelectrolytic Copolymers Containing Cationic Iron and Cobalt Sandwich Complexes: Living ROMP Synthesis and Redox Properties. <i>Macromolecular Rapid Communications</i> , 2016, 37, 630-636.	3.9	16
48	Ferrocene-containing amphiphilic dendronized random copolymer as efficient stabilizer for reusable gold nanoparticles in catalysis. <i>Reactive and Functional Polymers</i> , 2019, 143, 104325.	4.1	15
49	Living ROMP Synthesis and Redox Properties of Triblock Metallocopolymers Containing Side-Chain Iron and Cobalt Sandwich Complexes. <i>Macromolecular Chemistry and Physics</i> , 2018, 219, 1800384.	2.2	14
50	Green fabrication of hydrogel-immobilized Au@Ag nanoparticles using tannic acid and their application in catalysis. <i>New Journal of Chemistry</i> , 2021, 45, 6914-6927.	2.8	14
51	ROMP Synthesis of Side-Chain Ferrocene-Containing Polyelectrolyte and Its Redox-Responsive Hydrogels Showing Dramatically Improved Swelling with β -Cyclodextrin. <i>Macromolecular Rapid Communications</i> , 2021, 42, e2100049.	3.9	12
52	Ferrocenyl amphiphilic Janus dendrimers as redox-responsive micellar carriers. <i>Applied Organometallic Chemistry</i> , 2019, 33, e4908.	3.5	8
53	Catalytically-Active Palladium Nanoparticles Stabilized by Triazolylbiferrocenyl-Containing Polymers. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2015, 25, 437-446.	3.7	7
54	Qualitative analysis of components of biofloculant prepared with <i>Bacillus fusiformis</i> for the treatment of tannery wastewater. <i>Clean Technologies and Environmental Policy</i> , 2016, 18, 973-978.	4.1	7

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55	Aluminum tanning of hide powder and skin pieces under microwave irradiation. <i>Journal of Leather Science and Engineering</i> , 2020, 2, .	6.0	7
56	Ferrocene-based dendritic macromolecules as efficient supports in nanocatalysis. <i>Polymer</i> , 2022, 246, 124714.	3.8	7
57	pH/oxidation dual-responsive gelatin/PVA composite hydrogels cross-linked by a novel ferrocene-containing dialdehyde. <i>Materials Letters</i> , 2021, 284, 129016.	2.6	6
58	Micelles of ferrocene/aldehyde-containing triblock polynorbornene: Preparation, biocompatibility, dual-cargo-loading and oxidation/pH-sensitive release behavior. <i>Materials Letters</i> , 2021, 290, 129479.	2.6	5
59	Synthesis, conjugating capacity and biocompatibility evaluation of a novel amphiphilic polynorbornene. <i>Designed Monomers and Polymers</i> , 2020, 23, 141-154.	1.6	4
60	Tetrablock Metallopolymer Electrochromes. <i>Angewandte Chemie</i> , 2018, 130, 2226-2230.	2.0	3
61	ROMP of supramolecular norbornene monomers containing β -cyclodextrin-ferrocene (<i>adamantane</i>) inclusion complexes. <i>Polymer Journal</i> , 2020, 52, 1333-1347.	2.7	3
62	Electrochemical Behavior of Tannin Solutions under Microwave Irradiation. <i>Leather and Footwear Journal</i> , 2017, 17, 91-96.	0.2	3
63	Reprint of: On metallocene-containing macromolecules and their applications. <i>Journal of Organometallic Chemistry</i> , 2016, 821, 54-61.	1.8	2
64	Tannin-Inspired Hydrogels with Considerable Self-Healing and Adhesive Properties. , 2018, , .		2
65	Synthesis, Characterization and Antimicrobial Activity of Three Gallates Containing Imidazole, Benzimidazole and Triclosan Units. <i>Asian Journal of Chemistry</i> , 2014, 26, 513-520.	0.3	1
66	Microwave-irradiated tanning reaction of aluminum with collagen. <i>Journal of Applied Polymer Science</i> , 2020, 137, 48682.	2.6	1