

Xiaojin Zhang

List of Publications by Year in descending order

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74
papers

2,286
citations

186254

28
h-index

233409

45
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75
all docs

75
docs citations

75
times ranked

2999
citing authors

#	ARTICLE	IF	CITATIONS
1	Cell-free 3D scaffold with two-stage delivery of miRNA-26a to regenerate critical-sized bone defects. <i>Nature Communications</i> , 2016, 7, 10376.	12.8	203
2	Role of a high calcium ion content in extending the properties of alginate dual-crosslinked hydrogels. <i>Journal of Materials Chemistry A</i> , 2020, 8, 25390-25401.	10.3	114
3	Light-Induced Hydrogel Based on Tumor-Targeting Mesoporous Silica Nanoparticles as a Theranostic Platform for Sustained Cancer Treatment. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 15857-15863.	8.0	94
4	Gold nanoparticles stabilized by amphiphilic hyperbranched polymers for catalytic reduction of 4-nitrophenol. <i>Journal of Catalysis</i> , 2016, 337, 65-71.	6.2	89
5	Preparation of Azido Polycarbonates and Their Functionalization via Click Chemistry. <i>Macromolecules</i> , 2011, 44, 1755-1759.	4.8	82
6	A high therapeutic efficacy of polymeric prodrug nano-assembly for a combination of photodynamic therapy and chemotherapy. <i>Communications Biology</i> , 2018, 1, 202.	4.4	81
7	EDTA-based adsorbents for the removal of metal ions in wastewater. <i>Coordination Chemistry Reviews</i> , 2021, 434, 213809.	18.8	80
8	Nanofibrous Spongy Microspheres To Distinctly Release miRNA and Growth Factors To Enrich Regulatory T Cells and Rescue Periodontal Bone Loss. <i>ACS Nano</i> , 2018, 12, 9785-9799.	14.6	78
9	Carbon-Quantum-Dots-Loaded Mesoporous Silica Nanocarriers with pH-Switchable Zwitterionic Surface and Enzyme-Responsive Pore-Cap for Targeted Imaging and Drug Delivery to Tumor. <i>Advanced Healthcare Materials</i> , 2016, 5, 1401-1407.	7.6	68
10	Recent advances in stimuli-responsive polymeric micelles <i>via</i> click chemistry. <i>Polymer Chemistry</i> , 2019, 10, 34-44.	3.9	67
11	Carbon dots as an on-off-on-fluorescent probe for detection of Cu(II) ion, ascorbic acid, and acid phosphatase. <i>Analytical and Bioanalytical Chemistry</i> , 2019, 411, 6645-6653.	3.7	59
12	Miktoarm Copolymers Bearing One Poly(ethylene glycol) Chain and Several Poly(μ -caprolactone) Chains on a Hyperbranched Polyglycerol Core. <i>Macromolecules</i> , 2010, 43, 6671-6677.	4.8	58
13	Advances in organometallic/organic nanozymes and their applications. <i>Coordination Chemistry Reviews</i> , 2021, 429, 213652.	18.8	57
14	Recent development of functional aliphatic polycarbonates for the construction of amphiphilic polymers. <i>Polymer Chemistry</i> , 2017, 8, 7429-7437.	3.9	56
15	Advances in non-covalent crosslinked polymer micelles for biomedical applications. <i>Materials Science and Engineering C</i> , 2021, 119, 111626.	7.3	55
16	Gold nanoparticles-derived double network for Janus adhesive-tough hydrogel as strain sensor. <i>Chemical Engineering Journal</i> , 2021, 420, 130447.	12.7	53
17	Amphiphilic Triblock Copolycarbonates with Poly(glycerol carbonate) as Hydrophilic Blocks. <i>Macromolecules</i> , 2009, 42, 1010-1016.	4.8	52
18	Injectable nanofibrous spongy microspheres for NR4A1 plasmid DNA transfection to reverse fibrotic degeneration and support disc regeneration. <i>Biomaterials</i> , 2017, 131, 86-97.	11.4	52

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19	Advances in the detection of telomerase activity using isothermal amplification. <i>Theranostics</i> , 2017, 7, 1847-1862.	10.0	52
20	Nanocomposite adhesive hydrogels: from design to application. <i>Journal of Materials Chemistry B</i> , 2021, 9, 585-593.	5.8	51
21	Phenylboronic acid-functionalized polymeric micelles with a HepG2 cell targetability. <i>Biomaterials</i> , 2013, 34, 10296-10304.	11.4	43
22	Recent Advances in Cyclodextrin-Based Light-Responsive Supramolecular Systems. <i>Macromolecular Rapid Communications</i> , 2018, 39, e1800142.	3.9	43
23	Click Chemistry in Functional Aliphatic Polycarbonates. <i>Macromolecular Rapid Communications</i> , 2017, 38, 1700357.	3.9	32
24	Redox-Responsive Micelles with Cores Crosslinked via Click Chemistry. <i>Macromolecular Rapid Communications</i> , 2016, 37, 993-997.	3.9	31
25	MicroRNA Delivery with Bioreducible Polyethylenimine as a Non-Viral Vector for Breast Cancer Gene Therapy. <i>Macromolecular Bioscience</i> , 2019, 19, e1800445.	4.1	31
26	Adhesive and tough hydrogels: from structural design to applications. <i>Journal of Materials Chemistry B</i> , 2021, 9, 5954-5966.	5.8	31
27	A Water-Soluble Polycarbonate With Dimethylamino Pendant Groups Prepared by Enzyme-Catalyzed Ring-Opening Polymerization. <i>Macromolecular Rapid Communications</i> , 2012, 33, 693-697.	3.9	29
28	An AIEgens and exonuclease III aided quadratic amplification assay for detecting and cellular imaging of telomerase activity. <i>Science Bulletin</i> , 2017, 62, 997-1003.	9.0	29
29	Amphiphilic Block-Graft Copolymers with a Degradable Backbone and Polyethylene Glycol Pendant Chains Prepared via Ring-Opening Polymerization of a Macromonomer. <i>Macromolecular Rapid Communications</i> , 2010, 31, 2155-2159.	3.9	27
30	Gradient adhesion modification of polyacrylamide/alginate-calcium tough hydrogels. <i>Journal of Materials Chemistry B</i> , 2022, 10, 757-764.	5.8	26
31	Near-Infrared Light-Triggered Dual Drug Release Using Gold Nanorod-Embedded Thermosensitive Nanogel-Crosslinked Hydrogels. <i>Macromolecular Materials and Engineering</i> , 2019, 304, 1900087.	3.6	23
32	Cyclodextrin capped gold nanoparticles (AuNP@CDs): from synthesis to applications. <i>Journal of Materials Chemistry B</i> , 2021, 9, 2584-2593.	5.8	23
33	Amphiphilic Block-Graft Copolymers Poly(ethylene glycol)- <i>b</i> -(polycarbonates- <i>g</i> -palmitate) Prepared via the Combination of Ring-Opening Polymerization and Click Chemistry. <i>Journal of Polymer Science Part A</i> , 2012, 50, 2687-2696.	2.3	22
34	The influence of amine structures on the stability and catalytic activity of gold nanoparticles stabilized by amine-modified hyperbranched polymers. <i>Nanotechnology</i> , 2018, 29, 055705.	2.6	20
35	Cationic polycarbonates <i>via</i> ring-opening polymerization: design, synthesis, and applications. <i>Polymer Chemistry</i> , 2019, 10, 296-305.	3.9	20
36	Recent development of brush polymers <i>via</i> polymerization of poly(ethylene glycol)-based macromonomers. <i>Polymer Chemistry</i> , 2019, 10, 2212-2222.	3.9	18

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37	Peptide-anchored gold nanoparticles with bicatalytic sites for photo-switchable cascade catalysis. <i>Journal of Catalysis</i> , 2021, 402, 125-129.	6.2	18
38	Azobenzene-based photoswitchable catalysts: State of the art and perspectives. <i>Journal of Catalysis</i> , 2022, 409, 33-40.	6.2	17
39	A click-induced fluorescence-quenching sensor based on gold nanoparticles for detection of copper(II) ion and ascorbic acid. <i>Dyes and Pigments</i> , 2021, 195, 109726.	3.7	16
40	Cofactor-free organic nanozyme with assembly-induced catalysis and light-regulated activity. <i>Chemical Engineering Journal</i> , 2021, 426, 130855.	12.7	15
41	Amphiphilic linear-hyperbranched polymer poly(ethylene glycol)-branched polyethylenimine-poly(μ -caprolactone): synthesis, self-assembly and application as stabilizer of platinum nanoparticles. <i>Polymer International</i> , 2016, 65, 691-697.	3.1	14
42	Stable and biocompatible genipin-inducing interlayer-crosslinked micelles for sustained drug release. <i>Journal of Nanoparticle Research</i> , 2017, 19, 1.	1.9	14
43	Recent Advances in Amphiphilic Polymers as the Stabilizers of Colloidal Gold Nanoparticles. <i>Macromolecular Materials and Engineering</i> , 2018, 303, 1800105.	3.6	14
44	Fluorescent probe based on N-doped carbon dots for the detection of intracellular pH and glutathione. <i>RSC Advances</i> , 2020, 10, 33635-33641.	3.6	14
45	Dual UV- and pH-Responsive Supramolecular Vesicles Mediated by Host-Guest Interactions for Drug Controlled Release. <i>Macromolecular Chemistry and Physics</i> , 2016, 217, 1934-1940.	2.2	12
46	Polyion complex micelles prepared by self-assembly of block-graft polycation and hyperbranched polyanion. <i>Journal of Nanoparticle Research</i> , 2017, 19, 1.	1.9	12
47	Advances in amphiphilic hyperbranched copolymers with an aliphatic hyperbranched 2,2-bis(methylol)propionic acid-based polyester core. <i>Polymer Chemistry</i> , 2020, 11, 964-973.	3.9	12
48	Three-layered polyplex as a microRNA targeted delivery system for breast cancer gene therapy. <i>Nanotechnology</i> , 2017, 28, 285101.	2.6	11
49	Recent Developments in the Area of Click-Crosslinked Nanocarriers for Drug Delivery. <i>Macromolecular Rapid Communications</i> , 2019, 40, e1800541.	3.9	11
50	Targeted Drug Delivery: Carbon-Quantum-Dots-Loaded Mesoporous Silica Nanocarriers with pH-Switchable Zwitterionic Surface and Enzyme-Responsive Pore-Cap for Targeted Imaging and Drug Delivery to Tumor (<i>Adv. Healthcare Mater.</i> 12/2016). <i>Advanced Healthcare Materials</i> , 2016, 5, 1380-1380.	7.6	10
51	Polymeric micelles stabilized by polyethylenimine-copper ($C_{20}H_{50}N_4Cu$) coordination for sustained drug release. <i>RSC Advances</i> , 2016, 6, 22964-22968.	3.6	10
52	Biodegradable amphiphilic graft polymer synthesized via the combination of ring-opening polymerization (ROP) and atom transfer radical polymerization (ATRP). <i>Materials Letters</i> , 2017, 198, 144-147.	2.6	10
53	Dual stimuli-responsive supramolecular polymeric nanoparticles based on poly(β -cyclodextrin) and acetal-modified β -cyclodextrin-azobenzene. <i>Journal of Polymer Research</i> , 2018, 25, 1.	2.4	10
54	pH-responsive polymeric micelles with tunable aggregation-induced emission and controllable drug release. <i>Journal of Nanoparticle Research</i> , 2019, 21, 1.	1.9	10

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55	Reversible down-regulation and up-regulation of catalytic activity of poly(N-isopropylacrylamide)-anchored gold nanoparticles. <i>Nanotechnology</i> , 2022, 33, 165601.	2.6	10
56	Redox and pH Dual-Responsive Supramolecular Micelles with a Traditional Polymer Block and a Supramolecular Block for Drug Controlled Release. <i>Macromolecular Chemistry and Physics</i> , 2016, 217, 1926-1933.	2.2	9
57	Amphiphilic hyperbranched polymers with a biodegradable hyperbranched poly(μ -caprolactone) core prepared from homologous AB ₂ macromonomer. <i>RSC Advances</i> , 2016, 6, 52334-52338.	3.6	9
58	The synergistic effect of nitrogen atoms and triblock structure on stabilizing gold nanoparticles for catalytic reduction of 4-nitrophenol. <i>Gold Bulletin</i> , 2017, 50, 123-129.	2.4	9
59	Synthesis of Amphiphilic Comb-Shape Copolymers Via Ring-Opening Polymerization of a Macromonomer. <i>Macromolecular Chemistry and Physics</i> , 2015, 216, 1712-1717.	2.2	8
60	Gold nanorods crosslinking PNIPAM hydrogels via dynamic Au-thiolate interaction with stretchable, adhesive, self-healing, and photothermal properties. <i>Gold Bulletin</i> , 2021, 54, 59-67.	2.4	8
61	Reduction-responsive interlayer-crosslinked micelles prepared from star-shaped copolymer via click chemistry for drug controlled release. <i>Journal of Nanoparticle Research</i> , 2017, 19, 1.	1.9	7
62	Interlayer-crosslinked micelles prepared from star-shaped copolymers via click chemistry for sustained drug release. <i>Nanotechnology</i> , 2017, 28, 205601.	2.6	6
63	Supramolecular Vesicles Prepared by Photodimerization of Coumarins in the Cavity of β -Cyclodextrin. <i>ChemistrySelect</i> , 2017, 2, 8162-8167.	1.5	6
64	Polyion complex micelles to stabilize gold nanoparticles for catalytic reduction of 4-nitrophenol. <i>Gold Bulletin</i> , 2018, 51, 21-26.	2.4	6
65	LIV-Responsive Supramolecular Vesicles with Double Hydrophobic Chains. <i>Macromolecular Rapid Communications</i> , 2016, 37, 888-893.	3.9	5
66	A Functionalized Cyclic Lactide Monomer for Synthesis of Water-Soluble Poly(Lactic Acid) and Amphiphilic Diblock Poly(Lactic Acid). <i>Macromolecular Rapid Communications</i> , 2017, 38, 1600593.	3.9	5
67	Amphiphilic linear-hyperbranched block copolymers bearing one poly(ethylene glycol) chain and several linear poly(μ -caprolactone) chains. <i>Journal of Controlled Release</i> , 2011, 152, e118-e119.	9.9	4
68	Click polymerization for the synthesis of reduction-responsive polymeric prodrug. <i>Journal of Nanoparticle Research</i> , 2018, 20, 1.	1.9	3
69	Amphiphilic graft polymer with reduction breakable main chain prepared via click polymerization and grafting onto. <i>Journal of Nanoparticle Research</i> , 2018, 20, 1.	1.9	3
70	Advances in PEG-based ABC terpolymers and their applications. <i>RSC Advances</i> , 2020, 10, 21602-21614.	3.6	3
71	CATIONIC POLYCARBONATES PREPARED VIA MICHAEL ADDITION OF AMINES ON THE PENDANT METHACRYLAMIDO GROUPS. <i>Acta Polymerica Sinica</i> , 2011, 011, 889-894.	0.0	3
72	Macromol. Rapid Commun. 19/2017. <i>Macromolecular Rapid Communications</i> , 2017, 38, .	3.9	1

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73	A Neglected Issue in Testing Particles in the Solution. <i>Chemical Research in Chinese Universities</i> , 2022, 38, 493-496.	2.6	1
74	Surface Charge Reversible Polymeric Micelle-Loaded Hydrogels for Drug Delivery and 3D Cell Culture. <i>Macromolecular Chemistry and Physics</i> , 2018, 219, 1800391.	2.2	0