Jiehua Li

List of Publications by Year in descending order

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Version: 2024-02-01

66 papers	2,077 citations	185998 28 h-index	253896 43 g-index
68 all docs	68 docs citations	68 times ranked	2579 citing authors

#	Article	IF	Citations
1	Synthesis and Characterization of pH-Sensitive Biodegradable Polyurethane for Potential Drug Delivery Applications. Macromolecules, 2011, 44, 857-864.	2.2	146
2	Self-assembly of biodegradable polyurethanes for controlled delivery applications. Soft Matter, 2012, 8, 5414.	1.2	132
3	Molecular Engineered Superâ€Nanodevices: Smart and Safe Delivery of Potent Drugs into Tumors. Advanced Materials, 2012, 24, 3639-3645.	11.1	111
4	The effect of fluorinated side chain attached on hard segment on the phase separation and surface topography of polyurethanes. Polymer, 2004, 45, 1647-1657.	1.8	105
5	Preparation and rapid degradation of nontoxic biodegradable polyurethanes based on poly(lactic) Tj ETQq1 1 0.784314 rgBT /Overloc 2011, 2, 601-607.	1.9	103
6	Antibacterial and Biocompatible Cross-Linked Waterborne Polyurethanes Containing Gemini Quaternary Ammonium Salts. Biomacromolecules, 2018, 19, 279-287.	2.6	76
7	A Novel Surface Structure Consisting of Contact-active Antibacterial Upper-layer and Antifouling Sub-layer Derived from Gemini Quaternary Ammonium Salt Polyurethanes. Scientific Reports, 2016, 6, 32140.	1.6	71
8	Clickable and imageable multiblock polymer micelles with magnetically guided and PEG-switched targeting and release property for precise tumor theranosis. Biomaterials, 2017, 145, 138-153.	5.7	67
9	Biodegradable gemini multiblock poly(Îµ-caprolactone urethane)s toward controllable micellization. Soft Matter, 2010, 6, 2087.	1.2	51
10	Phase behavior and hydrogen bonding in biomembrane mimicing polyurethanes with long side chain fluorinated alkyl phosphatidylcholine polar head groups attached to hard block. Polymer, 2005, 46, 7230-7239.	1.8	49
11	Anti-biofilm surfaces from mixed dopamine-modified polymer brushes: synergistic role of cationic and zwitterionic chains to resist staphyloccocus aureus. Biomaterials Science, 2019, 7, 5369-5382.	2.6	49
12	A novel flame retardant containing phosphorus, nitrogen, and sulfur. Journal of Thermal Analysis and Calorimetry, 2014, 115, 1639-1649.	2.0	47
13	Synthesis and characterization of biodegradable lysine-based waterborne polyurethane for soft tissue engineering applications. Biomaterials Science, 2016, 4, 1682-1690.	2.6	43
14	Gemini quaternary ammonium salt waterborne biodegradable polyurethanes with antibacterial and biocompatible properties. Materials Chemistry Frontiers, 2017, 1, 361-368.	3.2	42
15	Effect of PEG content on the properties of biodegradable amphiphilic multiblock poly(Îµ-caprolactone) Tj ETQq1 1 0.784314 rgBT /Ov	1.9	41
16	The preliminary study of immune superparamagnetic iron oxide nanoparticles for the detection of lung cancer in magnetic resonance imaging. Carbohydrate Research, 2016, 419, 33-40.	1.1	39
17	An Approach for the Sphere-to-Rod Transition of Multiblock Copolymer Micelles. ACS Macro Letters, 2013, 2, 146-151.	2.3	37
18	Synthesis and antibacterial characterization of gemini surfactant monomers and copolymers. Polymer Chemistry, 2012, 3, 907.	1.9	35

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19	Shape-Recoverable Hyaluronic Acidâ€“Waterborne Polyurethane Hybrid Cryogel Accelerates Hemostasis and Wound Healing. ACS Applied Materials & Interfaces, 2022, 14, 17093-17108.	4.0	35
20	Synthesis and micellization of new biodegradable phosphorylcholineâ€capped polyurethane. Journal of Polymer Science Part A, 2011, 49, 2033-2042.	2.5	34
21	Synthesis and microphase separated structures of polydimethylsiloxane/polycarbonate-based polyurethanes. RSC Advances, 2013, 3, 8291.	1.7	34
22	A waterborne polyurethane 3D scaffold containing PLGA with a controllable degradation rate and an anti-inflammatory effect for potential applications in neural tissue repair. Journal of Materials Chemistry B, 2020, 8, 4434-4446.	2.9	34
23	Synthesis and Hemocompatibility of Biomembrane Mimicing Poly(carbonate urethane)s Containing Fluorinated Alkyl Phosphatidylcholine Side Groups. Biomacromolecules, 2006, 7, 2591-2599.	2.6	32
24	Mechanical and surface properties of polyurethane/fluorinated multiâ€walled carbon nanotubes composites. Journal of Applied Polymer Science, 2008, 108, 2023-2028.	1.3	32
25	Synthesis and characterization of biodegradable polyurethanes with folate side chains conjugated to hard segments. Polymer Chemistry, 2014, 5, 2901-2910.	1.9	32
26	An injectable hydrogel with pH-sensitive and self-healing properties based on 4armPEGDA and N-carboxyethyl chitosan for local treatment of hepatocellular carcinoma. International Journal of Biological Macromolecules, 2020, 163, 1208-1222.	3.6	32
27	Tough and biodegradable polyurethane-curcumin composited hydrogel with antioxidant, antibacterial and antitumor properties. Materials Science and Engineering C, 2021, 121, 111820.	3.8	31
28	Preparation and characterization of nonfouling polymer brushes on poly(ethylene terephthalate) film surfaces. Colloids and Surfaces B: Biointerfaces, 2010, 78, 343-350.	2.5	30
29	Surface Distribution and Biophysicochemical Properties of Polymeric Micelles Bearing Gemini Cationic and Hydrophilic Groups. ACS Applied Materials & Interfaces, 2017, 9, 2138-2149.	4.0	30
30	Biodegradable multiblock polyurethane micelles with tunable reduction-sensitivity for on-demand intracellular drug delivery. RSC Advances, 2014, 4, 24736-24746.	1.7	27
31	Waterâ€Triggered Stiffening of Shapeâ€Memory Polyurethanes Composed of Hard Backbone Dangling PEG Soft Segments. Advanced Materials, 2022, 34, e2201914.	11.1	27
32	Bioactive 3D porous cobalt-doped alginate/waterborne polyurethane scaffolds with a coral reef-like rough surface for nerve tissue engineering application. Journal of Materials Chemistry B, 2021, 9, 322-335.	2.9	25
33	Albumin-Modified Cationic Nanocarriers To Potentially Create a New Platform for Drug Delivery Systems. ACS Applied Materials & Interfaces, 2019, 11, 16421-16429.	4.0	24
34	Inspired by nonenveloped viruses escaping from endo-lysosomes: a pH-sensitive polyurethane micelle for effective intracellular trafficking. Nanoscale, 2016, 8, 7711-7722.	2.8	23
35	Postâ€Crosslinked Polyurethanes with Excellent Shape Memory Property. Macromolecular Rapid Communications, 2017, 38, 1700450.	2.0	22
36	A novel non-releasing antibacterial poly(styrene-acrylate)/waterborne polyurethane composite containing gemini quaternary ammonium salt. RSC Advances, 2015, 5, 89763-89770.	1.7	21

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37	Nanofibrous scaffold from electrospinning biodegradable waterborne polyurethane/poly(vinyl) Tj ETQq1 1 0.784314 rgBT /Overlock 10 1 648-663.	1.9	21
38	Multifunctional Mixed Micelles Cross-Assembled from Various Polyurethanes for Tumor Therapy. Biomacromolecules, 2016, 17, 2148-2159.	2.6	19
39	Aligned 3D porous polyurethane scaffolds for biological anisotropic tissue regeneration. International Journal of Energy Production and Management, 2020, 7, 19-27.	1.9	18
40	Novel Biomembrane-Mimicking Polymer Surface with Environmental Responsiveness. Macromolecular Rapid Communications, 2005, 26, 1418-1422.	2.0	17
41	Enhanced Hydrolytic Resistance of Fluorinated Silicon-Containing Polyether Urethanes. Biomacromolecules, 2020, 21, 1460-1470.	2.6	15
42	Mussel-Inspired, Injectable Polyurethane Tissue Adhesives Demonstrate In Situ Gel Formation under Mild Conditions. ACS Applied Bio Materials, 2021, 4, 5352-5361.	2.3	15
43	Surface and bulk properties of poly(ether urethane)s/fluorinated phosphatidylcholine polyurethanes blends. Journal of Applied Polymer Science, 2008, 108, 548-553.	1.3	14
44	Simultaneous Improvement of Oxidative and Hydrolytic Resistance of Polycarbonate Urethanes Based on Polydimethylsiloxane/Poly(hexamethylene carbonate) Mixed Macrodiols. Biomacromolecules, 2018, 19, 2137-2145.	2.6	14
45	Biodegradable, antiâ€adhesive and tough polyurethane hydrogels crosslinked by triol crosslinkers. Journal of Biomedical Materials Research - Part A, 2019, 107, 2205-2221.	2.1	14
46	Synthesis and hemocompatibity evaluation of segmented polyurethane end-capped with both a fluorine tail and phosphatidylcholine polar headgroups. Biofouling, 2011, 27, 919-930.	0.8	13
47	Synthesis and surface properties of polyurethane endâ€capped with hybrid hydrocarbon/fluorocarbon doubleâ€chain phospholipid. Journal of Biomedical Materials Research - Part A, 2013, 101A, 1362-1372.	2.1	13
48	Shape Memory Properties and Enzymatic Degradability of Poly(Îµâ€caprolactone)â€Based Polyurethane Urea Containing Phenylalanineâ€Derived Chain Extender. Macromolecular Bioscience, 2018, 18, e1800054.	2.1	13
49	Biodegradable polyurethane nerve guide conduits with different moduli influence axon regeneration in transected peripheral nerve injury. Journal of Materials Chemistry B, 2021, 9, 7979-7990.	2.9	12
50	Simulation of self-assembly behaviour of fluorinated phospholipid molecules in aqueous solution by dissipative particle dynamics method. Molecular Simulation, 2009, 35, 638-647.	0.9	11
51	Synthesis and characterization of PLGA-PEG-PLGA based thermosensitive polyurethane micelles for potential drug delivery. Journal of Biomaterials Science, Polymer Edition, 2021, 32, 613-634.	1.9	11
52	Preparation of hydrocarbon/fluorocarbon double-chain phospholipid polymer brusheson polyurethane films by ATRP. Colloids and Surfaces B: Biointerfaces, 2015, 128, 36-43.	2.5	10
53	Effect of the disulfide bond and polyethylene glycol on the degradation and biophysicochemical properties of polyurethane micelles. Biomaterials Science, 2022, 10, 794-807.	2.6	10
54	Synthesis of biodegradable waterborne phosphatidylcholine polyurethanes for soft tissue engineering applications. International Journal of Energy Production and Management, 2017, 4, 69-79.	1.9	9

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55	Dual-encapsulated biodegradable 3D scaffold from liposome and waterborne polyurethane for local drug control release in breast cancer therapy. Journal of Biomaterials Science, Polymer Edition, 2020, 31, 2220-2237.	1.9	9
56	A bioinspired Janus polyurethane membrane for potential periodontal tissue regeneration. Journal of Materials Chemistry B, 2022, 10, 2602-2616.	2.9	8
57	Synthesis and Self-Assembly of an Amino-Functionalized Hybrid Hydrocarbon/Fluorocarbon Double-Chain Phospholipid. Langmuir, 2011, 27, 10859-10866.	1.6	7
58	Structure and properties of tough polyampholyte hydrogels: effects of a methyl group in the cationic monomer. RSC Advances, 2016, 6, 114532-114540.	1.7	7
59	A novel phosphatidylcholine-modified polyisoprene: synthesis and characterization. Colloid and Polymer Science, 2016, 294, 433-439.	1.0	7
60	Poly(Ïµ-Caprolactone)-Methoxypolyethylene Glycol (PCL-MPEG)-Based Micelles for Drug-Delivery: The Effect of PCL Chain Length on Blood Components, Phagocytosis, and Biodistribution. International Journal of Nanomedicine, 2022, Volume 17, 1613-1632.	3.3	7
61	Stable, Bioresponsive, and Macrophage-Evading Polyurethane Micelles Containing an Anionic Tripeptide Chain Extender. ACS Omega, 2019, 4, 16551-16563.	1.6	4
62	Enhanced hydrogen bonding and its dramatic impact on deformation behaviors in a biomedical poly(carbonate urethane) with fluorinated chain extender. Journal of Polymer Science, Part B: Polymer Physics, 2009, 47, 2198-2205.	2.4	3
63	Citicolineâ€“liposome/polyurethane composite scaffolds regulate the inflammatory response of microglia to promote nerve regeneration. Journal of Materials Science, 2022, 57, 2073-2088.	1.7	3
64	Thermoresponsive Threeâ€Stage Optical Modulation of a Selfâ€Healing Composite Hydrogel. Macromolecular Chemistry and Physics, 2018, 219, 1800329.	1.1	2
65	Effects of oppositely charged moieties on the self-assembly and biophysicochemical properties of polyurethane micelles. Journal of Materials Chemistry B, 2022, 10, 4431-4441.	2.9	2
66	Mussel-inspired polyurethane coating for bio-surface functionalization to enhance substrate adhesion and cell biocompatibility. Journal of Biomaterials Science, Polymer Edition, 0, , 1-13.	1.9	0