Zhen Li

List of Publications by Year
in descending order

30	493	687363 13	713466 21
papers	citations	h-index	g-index

30	30	30	538
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	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.	5.4	49
2	Shape-Recoverable Hyaluronic Acidâ€“Waterborne Polyurethane Hybrid Cryogel Accelerates Hemostasis and Wound Healing. ACS Applied Materials & Interfaces, 2022, 14, 17093-17108.	8.0	35
3	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.	5.8	34
4	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.	7.5	32
5	Tough and biodegradable polyurethane-curcumin composited hydrogel with antioxidant, antibacterial and antitumor properties. Materials Science and Engineering C, 2021, 121, 111820.	7.3	31
6	Waterâ€Triggered Stiffening of Shapeâ€Memory Polyurethanes Composed of Hard Backbone Dangling PEG Soft Segments. Advanced Materials, 2022, 34, e2201914.	21.0	27
7	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.	5.8	25
8	Albumin-Modified Cationic Nanocarriers To Potentially Create a New Platform for Drug Delivery Systems. ACS Applied Materials & Interfaces, 2019, 11, 16421-16429.	8.0	24
9	The influence of fluorocarbon chain and phosphorylcholine on the improvement of hemocompatibility: a comparative study in polyurethanes. Journal of Materials Chemistry B, 2014, 2, 1344-1353.	5.8	23
10	Aligned 3D porous polyurethane scaffolds for biological anisotropic tissue regeneration. International Journal of Energy Production and Management, 2020, 7, 19-27.	3.7	18
11	Effect of melting temperature on interfacial interaction and mechanical properties of polypropylene (PP) fiber reinforced olefin block copolymers (OBCs). RSC Advances, 2014, 4, 45234-45243.	3.6	16
12	Enhanced Hydrolytic Resistance of Fluorinated Silicon-Containing Polyether Urethanes. Biomacromolecules, 2020, 21, 1460-1470.	5.4	15
13	Mussel-Inspired, Injectable Polyurethane Tissue Adhesives Demonstrate In Situ Gel Formation under Mild Conditions. ACS Applied Bio Materials, 2021, 4, 5352-5361.	4.6	15
14	Simultaneous Improvement of Oxidative and Hydrolytic Resistance of Polycarbonate Urethanes Based on Polydimethylsiloxane/Poly(hexamethylene carbonate) Mixed Macrodiols. Biomacromolecules, 2018, 19, 2137-2145.	5.4	14
15	Biodegradable, antiâ€adhesive and tough polyurethane hydrogels crosslinked by triol crosslinkers. Journal of Biomedical Materials Research - Part A, 2019, 107, 2205-2221.	4.0	14
16	Shearâ€induced fibrillation and resultant mechanical properties of injectionâ€molded polyamide 1010/isotactic polypropylene blends. Polymer International, 2011, 60, 1655-1662.	3.1	12
17	Synthesis and properties of UV-curable polysiloxane methacrylate obtained by one-step method. Chinese Journal of Polymer Science (English Edition), 2013, 31, 363-370.	3.8	12
18	Biomimetic phosphorylcholine strategy to improve the hemocompatibility of pH-responsive micelles containing tertiary amino groups. Colloids and Surfaces B: Biointerfaces, 2019, 184, 110545.	5.0	12

#	Article	IF	Citations
19	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.	3.5	11
20	Improved in vivo stability of silicon-containing polyurethane by fluorocarbon side chain modulation of the surface structure. Journal of Materials Chemistry B, 2021, 9, 3210-3223.	5.8	11
21	A fuel-based approach for emission factor development for highway paving construction equipment in China. Journal of the Air and Waste Management Association, 2016, 66, 1214-1223.	1.9	9
22	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.	3.5	9
23	Influence of fluorocarbon side chain on microphase separation and chemical stability of silicon-containing polycarbonate urethane. Polymer, 2022, 242, 124538.	3.8	9
24	Effect of nanoparticles on fibril formation and mechanical performance of olefinic block copolymer (OBC)/polypropylene (PP) microfibrillar composites. RSC Advances, 2016, 6, 86520-86530.	3.6	8
25	A bioinspired Janus polyurethane membrane for potential periodontal tissue regeneration. Journal of Materials Chemistry B, 2022, 10, 2602-2616.	5.8	8
26	In situ formation of polypropylene (PP) fibrils in the olefinic block copolymer (OBC): effect of viscosity ratio and OBC block architecture. RSC Advances, 2015, 5, 85442-85445.	3.6	7
27	Biomimetic surface modification of polyurethane with phospholipids grafted carbon nanotubes. Journal of Biomedical Materials Research - Part A, 2015, 103, 2711-2719.	4.0	6
28	Stable, Bioresponsive, and Macrophage-Evading Polyurethane Micelles Containing an Anionic Tripeptide Chain Extender. ACS Omega, 2019, 4, 16551-16563.	3.5	4
29	Citicolineâ€“liposome/polyurethane composite scaffolds regulate the inflammatory response of microglia to promote nerve regeneration. Journal of Materials Science, 2022, 57, 2073-2088.	3.7	3
30	Mussel-inspired polyurethane coating for bio-surface functionalization to enhance substrate adhesion and cell biocompatibility. Journal of Biomaterials Science, Polymer Edition, 0, , 1-13.	3.5	0