Suming Li

List of Publications by Year
in descending order

301 papers	14,905 citations	16411 64 h-index	27345 106 g-index
304 all docs	304 docs citations	304 times ranked	15261 citing authors

#	Article	IF	Citations
1	Hydrolytic degradation characteristics of aliphatic polyesters derived from lactic and glycolic acids. Journal of Biomedical Materials Research Part B, 1999, 48, 342-353.	3.0	544
2	An Injectable, Selfâ€Healing Hydrogel to Repair the Central Nervous System. Advanced Materials, 2015, 27, 3518-3524.	11.1	471
3	Structure-property relationships in the case of the degradation of massive poly(?-hydroxy acids) in aqueous media. Journal of Materials Science: Materials in Medicine, 1990, 1, 198-206.	1.7	429
4	Biodegradation of PLA/GA polymers: increasing complexity. Biomaterials, 1994, 15, 1209-1213.	5.7	375
5	3D bioprinting of neural stem cell-laden thermoresponsive biodegradable polyurethane hydrogel and potential in central nervous system repair. Biomaterials, 2015, 71, 48-57.	5.7	354
6	Further investigations on the hydrolytic degradation of poly (DL-lactide). Biomaterials, 1999, 20, 35-44.	5.7	275
7	Hydrogels Based on Schiff Base Linkages for Biomedical Applications. Molecules, 2019, 24, 3005.	1.7	266
8	More about the degradation of LA/GA-derived matrices in aqueous media. Journal of Controlled Release, 1991, 16, 15-26.	4.8	265
9	Selective Enzymatic Degradations of Poly(l-lactide) and Poly(Îµ-caprolactone) Blend Films. Biomacromolecules, 2000, 1, 350-359.	2.6	250
10	In vivo degradation of massive poly(Î±-hydroxy acids): Validation of In vitro findings. Biomaterials, 1992, 13, 594-600.	5.7	221
11	Water-based polyurethane 3D printed scaffolds with controlled release function for customized cartilage tissue engineering. Biomaterials, 2016, 83, 156-168.	5.7	211
12	Synthesis and degradation of PLAâ€“PCLâ€“PLA triblock copolymer prepared by successive polymerization of Îµ-caprolactone and dl-lactide. Polymer, 2004, 45, 8675-8681.	1.8	204
13	Spheroid formation of mesenchymal stem cells on chitosan and chitosan-hyaluronan membranes. Biomaterials, 2011, 32, 6929-6945.	5.7	198
14	Influence of Crystallinity and Stereochemistry on the Enzymatic Degradation of Poly(lactide)s. Macromolecules, 1999, 32, 4454-4456.	2.2	189
15	Synthesis, Characterization, and Stereocomplex-Induced Gelation of Block Copolymers Prepared by Ring-Opening Polymerization ofl(d)-Lactide in the Presence of Poly(ethylene glycol). Macromolecules, 2003, 36, 8008-8014.	2.2	187
16	Review: Polymeric-Based 3D Printing for Tissue Engineering. Journal of Medical and Biological Engineering, 2015, 35, 285-292.	1.0	182
17	The biocompatibility and antibacterial properties of waterborne polyurethane-silver nanocomposites. Biomaterials, 2010, 31, 6796-6808.	5.7	171
18	Synthesis and Biomedical Applications of Self-healing Hydrogels. Frontiers in Chemistry, 2018, 6, 449.	1.8	158

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19	Protein release from physically crosslinked hydrogels of the PLA/PEO/PLA triblock copolymer-type. Biomaterials, 2001, 22, 363-369.	5.7	154
20	Enzymatic Degradation of Block Copolymers Prepared from Îµ-Caprolactone and Poly(ethylene glycol). Biomacromolecules, 2002, 3, 525-530.	2.6	132
21	Poly(vinyl alcohol) Nanocomposites Reinforced with Bamboo Charcoal Nanoparticles: Mineralization Behavior and Characterization. Materials, 2015, 8, 4895-4911.	1.3	127
22	New insights on the degradation of bioresorbable polymeric devices based on lactic and glycolic acids. Clinical Materials, 1992, 10, 3-8.	0.5	122
23	Degradation and cell culture studies on block copolymers prepared by ring opening polymerization of ?-caprolactone in the presence of poly(ethylene glycol). Journal of Biomedical Materials Research Part B, 2004, 69A, 417-427.	3.0	121
24	Unique crystallization behavior of poly(l-lactide)/poly(d-lactide) stereocomplex depending on initial melt states. Polymer, 2008, 49, 5670-5675.	1.8	120
25	Biodegradable Water-Based Polyurethane Shape Memory Elastomers for Bone Tissue Engineering. ACS Biomaterials Science and Engineering, 2018, 4, 1397-1406.	2.6	118
26	Enzymatic degradation of polylactide stereocopolymers with predominant d-lactyl contents. Polymer Degradation and Stability, 2000, 71, 61-67.	2.7	114
27	A novel biodegradable self-healing hydrogel to induce blood capillary formation. NPG Asia Materials, 2017, 9, e363-e363.	3.8	114
28	Enzymatic degradation of stereocopolymers derived from l -, dl - and meso-lactides. Polymer Degradation and Stability, 2000, 67, 85-90.	2.7	113
29	Synthesis and Characterization of Block Copolymers ofÉ›-Caprolactone andDL-Lactide Initiated by Ethylene Glycol or Poly(ethylene glycol). Macromolecular Chemistry and Physics, 2003, 204, 1994-2001.	1.1	112
30	Novel chitosanâ€“cellulose nanofiber self-healing hydrogels to correlate self-healing properties of hydrogels with neural regeneration effects. NPG Asia Materials, 2019, 11, .	3.8	108
31	Enzyme-catalyzed polymerization and degradation of copolymers prepared from Ïµ-caprolactone and poly(ethylene glycol). Polymer, 2003, 44, 5145-5151.	1.8	107
32	DSC analysis of isothermal melt-crystallization, glass transition and melting behavior of poly(l-lactide) with different molecular weights. European Polymer Journal, 2007, 43, 4431-4439.	2.6	104
33	Preparation, Characterization, and Mechanism for Biodegradable and Biocompatible Polyurethane Shape Memory Elastomers. ACS Applied Materials & Interfaces, 2017, 9, 5419-5429.	4.0	104
34	Hydrolytic degradation of poly(dl-lactic acid) in the presence of caffeine base. Journal of Controlled Release, 1996, 40, 41-53.	4.8	103
35	Novel Biodegradable Polylactide/poly(ethylene glycol) Micelles Prepared by Direct Dissolution Method for Controlled Delivery of Anticancer Drugs. Pharmaceutical Research, 2009, 26, 2332-2342.	1.7	102
36	Cryogel/hydrogel biomaterials and acupuncture combined to promote diabetic skin wound healing through immunomodulation. Biomaterials, 2021, 269, 120608.	5.7	101

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37	Processing of Polycaprolactone and Polycaprolactone-Based Copolymers into 3D Scaffolds, and Their Cellular Responses. Tissue Engineering - Part A, 2009, 15, 3013-3024.	1.6	100
38	Structureâ˘Property Relationships of Copolymers Obtained by Ring-Opening Polymerization of Glycolide and Îµ-Caprolactone. Part 1. Synthesis and Characterization. Biomacromolecules, 2005, 6, 483-488.	2.6	99
39	Lipase-Catalyzed Biodegradation of Poly(Îµ-caprolactone) Blended with Various Polylactide-Based Polymers. Biomacromolecules, 2003, 4, 372-377.	2.6	94
40	Substrate-dependent gene regulation of self-assembled human MSC spheroids on chitosan membranes. BMC Genomics, 2014, 15, 10.	1.2	92
41	Glucose-sensitive self-healing hydrogel as sacrificial materials to fabricate vascularized constructs. Biomaterials, 2017, 133, 20-28.	5.7	90
42	Effect of cellulose nanocrystals on scaffolds comprising chitosan, alginate and hydroxyapatite for bone tissue engineering. International Journal of Biological Macromolecules, 2019, 121, 814-821.	3.6	90
43	Composites of waterborne polyurethane and cellulose nanofibers for 3D printing and bioapplications. Carbohydrate Polymers, 2019, 212, 75-88.	5.1	89
44	3D bioprinting: A new insight into the therapeutic strategy of neural tissue regeneration. Organogenesis, 2015, 11, 153-158.	0.4	88
45	Degradation characteristics of poly(Îµ-caprolactone)-based copolymers and blends. Journal of Applied Polymer Science, 2006, 102, 1681-1687.	1.3	87
46	Synthesis and Gelation Properties of PEGâ˘PLAâ˘PEG Triblock Copolymers Obtained by Coupling Monohydroxylated PEGâ˘PLA with Adipoyl Chloride. Langmuir, 2007, 23, 2778-2783.	1.6	82
47	Peripheral nerve regeneration using a microporous polylactic acid asymmetric conduit in a rabbit long-gap sciatic nerve transection model. Biomaterials, 2011, 32, 3764-3775.	5.7	81
48	Accumulation and Toxicity of Superparamagnetic Iron Oxide Nanoparticles in Cells and Experimental Animals. International Journal of Molecular Sciences, 2016, 17, 1193.	1.8	81
49	Substrate-dependent Wnt signaling in MSC differentiation within biomaterial-derived 3D spheroids. Biomaterials, 2013, 34, 4725-4738.	5.7	80
50	Characterization and biocompatibility of chitosan nanocomposites. Colloids and Surfaces B: Biointerfaces, 2011, 85, 198-206.	2.5	79
51	Characterization of Biodegradable Polyurethane Nanoparticles and Thermally Induced Self-Assembly in Water Dispersion. ACS Applied Materials & Interfaces, 2014, 6, 5685-5694.	4.0	79
52	An injectable, self-healing phenol-functionalized chitosan hydrogel with fast gelling property and visible light-crosslinking capability for 3D printing. Acta Biomaterialia, 2021, 122, 211-219.	4.1	79
53	Micelles formed by self-assembling of polylactide/poly(ethylene glycol) block copolymers in aqueous solutions. Journal of Colloid and Interface Science, 2007, 314, 470-477.	5.0	78
54	Biodegradation of aliphatic polyesters. , 1995, , 43-87.		78

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55	Structural characterization, antioxidant and antibacterial activities of a novel polysaccharide from Periploca laevigata root barks. Carbohydrate Polymers, 2019, 206, 380-388.	5.1	77
56	Structureâ˘Property Relationships of Copolymers Obtained by Ring-Opening Polymerization of Glycolide and Îµ-Caprolactone. Part 2. Influence of Composition and Chain Microstructure on the Hydrolytic Degradation. Biomacromolecules, 2005, 6, 489-497.	2.6	76
57	Diffusion ordered spectroscopy (DOSY) as a powerful tool for amphiphilic block copolymer characterization and for critical micelle concentration (CMC) determination. Polymer Chemistry, 2012, 3, 2006.	1.9	76
58	Water-based synthesis and processing of novel biodegradable elastomers for medical applications. Journal of Materials Chemistry B, 2014, 2, 5083-5092.	2.9	76
59	Synthesis and Characterization of Dual Stimuli-Sensitive Biodegradable Polyurethane Soft Hydrogels for 3D Cell-Laden Bioprinting. ACS Applied Materials & Interfaces, 2018, 10, 29273-29287.	4.0	75
60	Hydrolytic degradation of poly(oxyethylene)-poly-(?-caprolactone) multiblock copolymers. Journal of Applied Polymer Science, 1998, 68, 989-998.	1.3	71
61	Crystalline oligomeric stereocomplex as an intermediate compound in racemic poly(DL-lactic acid) degradation. Polymer International, 1994, 33, 37-41.	1.6	69
62	Novel thymopentin release systems prepared from bioresorbable PLAâ€"PEGâ€"PLA hydrogels. International Journal of Pharmaceutics, 2010, 386, 15-22.	2.6	69
63	Double-Network Polyurethane-Gelatin Hydrogel with Tunable Modulus for High-Resolution 3D Bioprinting. ACS Applied Materials & Interfaces, 2019, 11, 32746-32757.	4.0	69
64	Design Strategies of Conductive Hydrogel for Biomedical Applications. Molecules, 2020, 25, 5296.	1.7	69
65	Semi-Interpenetrating Polymer Network of Hyaluronan and Chitosan Self-Healing Hydrogels for Central Nervous System Repair. ACS Applied Materials & Interfaces, 2020, 12, 40108-40120.	4.0	69
66	Modulation of Macrophage Phenotype by Biodegradable Polyurethane Nanoparticles: Possible Relation between Macrophage Polarization and Immune Response of Nanoparticles. ACS Applied Materials & Interfaces, 2018, 10, 19436-19448.	4.0	68
67	Morphology and melt crystallization of poly(L-lactide) obtained by ring opening polymerization ofL-lactide with zinc catalyst. Polymer Engineering and Science, 2006, 46, 1583-1589.	1.5	66
68	Degradation and osteogenic potential of a novel poly(lactic acid)/nano-sized β-tricalcium phosphate scaffold. International Journal of Nanomedicine, 2012, 7, 5881.	3.3	66
69	Substrate-mediated nanoparticle/gene delivery to MSC spheroids and their applications in peripheral nerve regeneration. Biomaterials, 2014, 35, 2630-2641.	5.7	66
70	Selfâ€assembled adult adiposeâ€derived stem cell spheroids combined with biomaterials promote wound healing in a rat skin repair model. Wound Repair and Regeneration, 2015, 23, 57-64.	1.5	65
71	Hydrolytic and enzymatic degradation of poly(trimethylene carbonate-co-d,l-lactide) random copolymers with shape memory behavior. European Polymer Journal, 2010, 46, 783-791.	2.6	64
72	Biodegradable polymer scaffolds. Journal of Materials Chemistry B, 2016, 4, 7493-7505.	2.9	64

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73	Synthesis and characterization of poly(oxyethylene)-poly(caprolactone) multiblock copolymers. Polymer International, 1998, 45, 419-426.	1.6	63
74	Hydrolytic degradation of PLA/PEO/PLA triblock copolymers prepared in the presence of Zn metal or CaH2. Polymer, 1998, 39, 5421-5430.	1.8	63
75	Bioresorbable Hydrogels Prepared Through Stereocomplexation between Poly(L-lactide) and Poly(D-lactide) Blocks Attached to Poly(ethylene glycol). Macromolecular Bioscience, 2003, 3, 657-661.	2.1	63
76	Acquisition of epithelialâ€“mesenchymal transition and cancer stem-like phenotypes within chitosan-hyaluronan membrane-derived 3D tumor spheroids. Biomaterials, 2014, 35, 10070-10079.	5.7	63
77	Synthesis of Thermoresponsive Amphiphilic Polyurethane Gel as a New Cell Printing Material near Body Temperature. ACS Applied Materials & Interfaces, 2015, 7, 27613-27623.	4.0	62
78	Biodegradable water-based polyurethane scaffolds with a sequential release function for cell-free cartilage tissue engineering. Acta Biomaterialia, 2019, 88, 301-313.	4.1	62
79	Nanoparticle uptake and gene transfer efficiency for MSCs on chitosan and chitosan-hyaluronan substrates. Biomaterials, 2012, 33, 3639-3650.	5.7	60
80	Cell reprogramming by 3D bioprinting of human fibroblasts in polyurethane hydrogel for fabrication of neural-like constructs. Acta Biomaterialia, 2018, 70, 57-70.	4.1	60
81	Smart polymers for cell therapy and precision medicine. Journal of Biomedical Science, 2019, 26, 73.	2.6	60
82	Evaluation of biodegradable elastic scaffolds made of anionic polyurethane for cartilage tissue engineering. Colloids and Surfaces B: Biointerfaces, 2015, 125, 34-44.	2.5	57
83	An Injectable, Electroconductive Hydrogel/Scaffold for Neural Repair and Motion Sensing. Chemistry of Materials, 2020, 32, 10407-10422.	3.2	57
84	Isolation of the multipotent MSC subpopulation from human gingival fibroblasts by culturing on chitosan membranes. Biomaterials, 2012, 33, 2642-2655.	5.7	56
85	The effect of elastic biodegradable polyurethane electrospun nanofibers on the differentiation of mesenchymal stem cells. Colloids and Surfaces B: Biointerfaces, 2014, 122, 414-422.	2.5	56
86	Self-assembled filomicelles prepared from polylactide/poly(ethylene glycol) block copolymers for anticancer drug delivery. International Journal of Pharmaceutics, 2015, 485, 357-364.	2.6	55
87	The static magnetic field accelerates the osteogenic differentiation and mineralization of dental pulp cells. Cytotechnology, 2010, 62, 143-155.	0.7	54
88	Biodegradation of Aliphatic Polyesters. , 2002, , 71-131.		53
89	Enzyme-catalyzed polymerization and degradation of copolyesters of Îµ-caprolactone and Î³-butyrolactone. Polymer, 2005, 46, 12682-12688.	1.8	53
90	Influence of chain microstructure on the hydrolytic degradation of copolymers from 1,3â€trimethylene carbonate and <scp>L</scp>â€lactide. Journal of Polymer Science Part A, 2009, 47, 3869-3879.	2.5	53

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91	Chondrogenesis from Human Placenta-Derived Mesenchymal Stem Cells in Three-Dimensional Scaffolds for Cartilage Tissue Engineering. Tissue Engineering - Part A, 2011, 17, 1549-1560.	1.6	53
92	Thermo-responsive drug release from self-assembled micelles of brush-like PLA/PEG analogues block copolymers. International Journal of Pharmaceutics, 2015, 491, 152-161.	2.6	53
93	Enzymatic degradation of block copolymers obtained by sequential ring opening polymerization of l-lactide and Ë›-caprolactone. Polymer Degradation and Stability, 2007, 92, 1769-1777.	2.7	50
94	Novel flexible nerve conduits made of waterâ€based biodegradable <i>polyurethane</i> for peripheral nerve regeneration. Journal of Biomedical Materials Research - Part A, 2017, 105, 1383-1392.	2.1	50
95	Synthesis and characterization of poly(L-lactide)-poly(ethylene glycol) multiblock copolymers. Journal of Applied Polymer Science, 2002, 84, 1729-1736.	1.3	47
96	Methylated and pegylated PLA-PCL-PLA block copolymers via the chemical modification of di-hydroxy PCL combined with the ring opening polymerization of lactide. Journal of Polymer Science Part A, 2005, 43, 4196-4205.	2.5	47
97	In Vitro Study of a Novel Nanogold-Collagen Composite to Enhance the Mesenchymal Stem Cell Behavior for Vascular Regeneration. PLoS ONE, 2014, 9, e104019.	1.1	46
98	Aggregation behavior of self-assembling polylactide/poly(ethylene glycol) micelles for sustained drug delivery. International Journal of Pharmaceutics, 2010, 394, 43-49.	2.6	45
99	Chitosan 3D cell culture system promotes naÃ¯ve-like features of human induced pluripotent stem cells: A novel tool to sustain pluripotency and facilitate differentiation. Biomaterials, 2021, 268, 120575.	5.7	45
100	Synthesis and Rheological Properties of Polylactide/Poly(ethylene glycol) Multiblock Copolymers. Macromolecular Bioscience, 2005, 5, 1125-1131.	2.1	44
101	Nonâ€isothermal crystallization kinetics of poly(<scp>L</scp>â€lactide). Polymer International, 2010, 59, 1616-1621.	1.6	44
102	Synthesis and ring-opening polymerisation of a new alkyne-functionalised glycolide towards biocompatible amphiphilic graft copolymers. Polymer Chemistry, 2013, 4, 3705.	1.9	43
103	Biomaterial substrate-derived compact cellular spheroids mimicking the behavior of pancreatic cancer and microenvironment. Biomaterials, 2019, 213, 119202.	5.7	43
104	Bioactive composite films with chitosan and carotenoproteins extract from blue crab shells: Biological potential and structural, thermal, and mechanical characterization. Food Hydrocolloids, 2019, 89, 802-812.	5.6	43
105	Anisotropic Self-Assembling Micelles Prepared by the Direct Dissolution of PLA/PEG Block Copolymers with a High PEG Fraction. Langmuir, 2011, 27, 8000-8008.	1.6	42
106	Hydrolytic degradation of coral/poly(DL-lactic acid) bioresorbable material. Journal of Biomaterials Science, Polymer Edition, 1996, 7, 817-827.	1.9	41
107	Degradation of copolymers obtained by ring-opening polymerization of glycolide and É›-caprolactone: A high resolution NMR and ESI-MS study. Polymer Degradation and Stability, 2008, 93, 990-999.	2.7	41
108	Thermo-responsive release of curcumin from micelles prepared by self-assembly of amphiphilic P(NIPAAm-co-DMAAm)-b-PLLA-b-P(NIPAAm-co-DMAAm) triblock copolymers. International Journal of Pharmaceutics, 2014, 476, 31-40.	2.6	41

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109	Substrate-dependent modulation of 3D spheroid morphology self-assembled in mesenchymal stem cell-endothelial progenitor cell coculture. Biomaterials, 2014, 35, 7295-7307.	5.7	41
110	Degradation of L- and DL-lactic acid oligomers in the presence ofFusarium moniliforme andPseudomonas putida. Journal of Polymers and the Environment, 1996, 4, 213-223.	0.8	40
111	Chitosan-hyaluronan based 3D co-culture platform for studying the crosstalk of lung cancer cells and mesenchymal stem cells. Acta Biomaterialia, 2016, 42, 157-167.	4.1	40
112	Hydrolytic and enzymatic degradations of physically crosslinked hydrogels prepared from PLA/PEO/PLA triblock copolymers. Journal of Materials Science: Materials in Medicine, 2002, 13, 81-86.	1.7	39
113	Spheroid Formation and Enhanced Cardiomyogenic Potential of Adipose-Derived Stem Cells Grown on Chitosan. BioResearch Open Access, 2013, 2, 28-39.	2.6	39
114	Synthesis of water-based cationic polyurethane for antibacterial and gene delivery applications. Colloids and Surfaces B: Biointerfaces, 2016, 146, 825-832.	2.5	39
115	Enhanced Chondrogenic Differentiation Potential of Human Gingival Fibroblasts by Spheroid Formation on Chitosan Membranes. Tissue Engineering - Part A, 2012, 18, 67-79.	1.6	38
116	Multidrug PLA-PEG filomicelles for concurrent delivery of anticancer drugsâ€"The influence of drug-drug and drug-polymer interactions on drug loading and release properties. International Journal of Pharmaceutics, 2016, 510, 365-374.	2.6	38
117	Chitosan promotes cancer progression and stem cell properties in association with Wnt signaling in colon and hepatocellular carcinoma cells. Scientific Reports, 2017, 7, 45751.	1.6	38
118	Biobased pH-responsive and self-healing hydrogels prepared from O-carboxymethyl chitosan and a 3-dimensional dynamer as cartilage engineering scaffold. Carbohydrate Polymers, 2020, 244, 116471.	5.1	38
119	Synthesis, Characterization, and Enzymatic Degradation of Copolymers Prepared from Îµ-Caprolactone and Î²-Butyrolactone. Macromolecules, 2004, 37, 9798-9803.	2.2	37
120	Rheology and Drug Release Properties of Bioresorbable Hydrogels Prepared from Polylactide/Poly(ethylene glycol) Block Copolymers. Macromolecular Symposia, 2005, 222, 23-36.	0.4	37
121	Design and Development of Immunomodulatory Antigen Delivery Systems Based on Peptide/PEGâ€"PLA Conjugate for Tuning Immunity. Biomacromolecules, 2015, 16, 3666-3673.	2.6	37
122	In vitro Degradation of Poly[(<scp>L</scp>â€lactide)<i>â€coâ€</i>(trimethylene carbonate)] Copolymers and a Composite with Poly[(<scp>L</scp>â€lactide)<i>â€coâ€</i>glycolide] Fibers as Cardiovascular Stent Material. Macromolecular Materials and Engineering, 2012, 297, 128-135.	1.7	36
123	Non-viral delivery of an optogenetic tool into cells with self-healing hydrogel. Biomaterials, 2018, 174, 31-40.	5.7	35
124	Novel bioresorbable hydrogels prepared from chitosanâ€<i>graft</i>â€polylactide copolymers. Polymer International, 2012, 61, 74-81.	1.6	34
125	Synthesis of water-dispersible zinc oxide quantum dots with antibacterial activity and low cytotoxicity for cell labeling. Nanotechnology, 2013, 24, 475102.	1.3	34
126	Synthesis and selfâ€assembling of		

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127	Anti-bacterial dynamic hydrogels prepared from O-carboxymethyl chitosan by dual imine bond crosslinking for biomedical applications. International Journal of Biological Macromolecules, 2021, 167, 1146-1155.	3.6	34
128	In vitro degradation behavior of poly(lactide)â€“poly(ethylene glycol) block copolymer micelles in aqueous solution. International Journal of Pharmaceutics, 2010, 400, 96-103.	2.6	33
129	Brush-like amphiphilic copolymers based on polylactide and poly(ethylene glycol): Synthesis, self-assembly and evaluation as drug carrier. Polymer, 2013, 54, 1746-1754.	1.8	32
130	Tunable thermo-responsive P(NIPAAm-co-DMAAm)-b-PLLA-b-P(NIPAAm-co-DMAAm) triblock copolymer micelles as drug carriers. Journal of Materials Chemistry B, 2014, 2, 2738-2748.	2.9	32
131	Evaluation and characterization of waterborne biodegradable polyurethane films for the prevention of tendon postoperative adhesion. International Journal of Nanomedicine, 2018, Volume 13, 5485-5497.	3.3	32
132	4D bioprintable self-healing hydrogel with shape memory and cryopreserving properties. Biofabrication, 2021, 13, 045029.	3.7	32
133	Controlled poly(l-lactide-co-trimethylene carbonate) delivery system of cyclosporine A and rapamycine â€" the effect of copolymer chain microstructure on drug release rate. International Journal of Pharmaceutics, 2011, 414, 203-209.	2.6	31
134	Preparation of Polyurethane-Graphene Nanocomposite and Evaluation of Neurovascular Regeneration. ACS Biomaterials Science and Engineering, 2020, 6, 597-609.	2.6	31
135	Post-assembly dimension-dependent face-selective etching of fullerene crystals. Materials Horizons, 2020, 7, 787-795.	6.4	31
136	Enzyme-catalyzed degradation behavior of l-lactide/trimethylene carbonate/glycolide terpolymers and their composites with poly(l-lactide-co-glycolide) fibers. Polymer Degradation and Stability, 2014, 103, 26-34.	2.7	30
137	Self-healing hydrogel for tissue repair in the central nervous system. Neural Regeneration Research, 2015, 10, 1922.	1.6	30
138	Antimicrobial Activities and Cellular Responses to Natural Silicate Clays and Derivatives Modified by Cationic Alkylamine Salts. ACS Applied Materials & Interfaces, 2009, 1, 2556-2564.	4.0	29
139	Modeling and self-assembly behavior of PEGâ€“PLAâ€“PEG triblock copolymers in aqueous solution. Nanoscale, 2013, 5, 9010.	2.8	29
140	Biomaterial Substrateâ€Mediated Multicellular Spheroid Formation and Their Applications in Tissue Engineering. Biotechnology Journal, 2017, 12, 1700064.	1.8	29
141	Optimization of polysaccharides extraction from a wild species of Ornithogalum combining ultrasound and maceration and their anti-oxidant properties. International Journal of Biological Macromolecules, 2020, 161, 958-968.	3.6	29
142	Effect of polymer degradation on prolonged release of paclitaxel from filomicelles of polylactide/poly(ethylene glycol) block copolymers. Materials Science and Engineering C, 2017, 75, 918-925.	3.8	28
143	Injectable Phenolic-Chitosan Self-Healing Hydrogel with Hierarchical Micelle Architectures and Fast Adhesiveness. Chemistry of Materials, 2021, 33, 3945-3958.	3.2	28
144	Biomaterials and neural regeneration. Neural Regeneration Research, 2020, 15, 1243.	1.6	28

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145	NMR analysis of the chain microstructure of biodegradable terpolymers with shape memory properties. European Polymer Journal, 2011, 47, 1315-1327.	2.6	27
146	Synthesis and characterization of waterborne polyurethane containing poly(3-hydroxybutyrate) as new biodegradable elastomers. Journal of Materials Chemistry B, 2015, 3, 9089-9097.	2.9	27
147	Cellular Spheroids of Mesenchymal Stem Cells and Their Perspectives in Future Healthcare. Applied Sciences (Switzerland), 2019, 9, 627.	1.3	27
148	Biomimetic Strain-Stiffening in Chitosan Self-Healing Hydrogels. ACS Applied Materials & Interfaces, 2022, 14, 16032-16046.	4.0	27
149	A bioresorbable cardiovascular stent prepared from <scp>L</scp> -lactide, trimethylene carbonate and glycolide terpolymers. Polymer Engineering and Science, 2014, 54, 1418-1426.	1.5	26
150	The substrate-dependent regeneration capacity of mesenchymal stem cell spheroids derived on various biomaterial surfaces. Biomaterials Science, 2014, 2, 1652-1660.	2.6	26
151	Nanosheet transfection: effective transfer of naked DNA on silica glass. NPG Asia Materials, 2015, 7, e184-e184.	3.8	26
152	Enzyme-catalyzed degradation of poly(l-lactide)/poly(É›-caprolactone) diblock, triblock and four-armed copolymers. Polymer Degradation and Stability, 2009, 94, 227-233.	2.7	25
153	In vitrobiocompatibility evaluation of bioresorbable copolymers prepared froml-lactide, 1, 3-trimethylene carbonate, and glycolide for cardiovascular applications. Journal of Biomaterials Science, Polymer Edition, 2015, 26, 497-514.	1.9	25
154	Reverse micelles prepared from amphiphilic polylactide- b -poly(ethylene glycol) block copolymers for controlled release of hydrophilic drugs. International Journal of Pharmaceutics, 2015, 495, 154-161.	2.6	25
155	InÂvitro degradation behavior of l-lactide/trimethylene carbonate/glycolide terpolymers and a composite with poly(l-lactide-co-glycolide) fibers. Polymer Degradation and Stability, 2015, 111, 203-210.	2.7	25
156	A facile method to prepare superparamagnetic iron oxide and hydrophobic drug-encapsulated biodegradable polyurethane nanoparticles. International Journal of Nanomedicine, 2017, Volume 12, 1775-1789.	3.3	25
157	Self-assembled micelles prepared from bio-based hydroxypropyl methyl cellulose and polylactide amphiphilic block copolymers for anti-tumor drug release. International Journal of Biological Macromolecules, 2020, 154, 39-47.	3.6	25
158	A novel blue crab chitosan/protein composite hydrogel enriched with carotenoids endowed with distinguished wound healing capability: In vitro characterization and in vivo assessment. Materials Science and Engineering C, 2020, 113, 110978.	3.8	25
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