Suming Li

List of Publications by Citations

296 papers	11,873 citations	59 h-index	96 g-index
304 ext. papers	13,275 ext. citations	6.1 avg, IF	6.99 L-index

#	Paper	IF	Citations
296	Hydrolytic degradation characteristics of aliphatic polyesters derived from lactic and glycolic acids. *Journal of Biomedical Materials Research Part B*, **1999**, 48, 342-53		481
295	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	4.5	380
294	An Injectable, Self-Healing Hydrogel to Repair the Central Nervous System. *Advanced Materials*, **2015**, 27, 3518-24	24	366
293	Biodegradation of PLA/GA polymers: increasing complexity. *Biomaterials*, **1994**, 15, 1209-13	15.6	342
292	3D bioprinting of neural stem cell-laden thermoresponsive biodegradable polyurethane hydrogel and potential in central nervous system repair. *Biomaterials*, **2015**, 71, 48-57	15.6	297
291	Further investigations on the hydrolytic degradation of poly (DL-lactide). *Biomaterials*, **1999**, 20, 35-44	15.6	254
290	More about the degradation of LA/GA-derived matrices in aqueous media. *Journal of Controlled Release*, **1991**, 16, 15-26	11.7	234
289	Selective enzymatic degradations of poly(L-lactide) and poly(epsilon-caprolactone) blend films. *Biomacromolecules*, **2000**, 1, 350-9	6.9	229
288	In vivo degradation of massive poly(alpha-hydroxy acids): validation of in vitro findings. *Biomaterials* , **1992**, 13, 594-600	15.6	199
287	Synthesis and degradation of PLA□PCL□PLA triblock copolymer prepared by successive polymerization of □caprolactone and dl-lactide. *Polymer*, **2004**, 45, 8675-8681	3.9	190
286	Synthesis, Characterization, and Stereocomplex-Induced Gelation of Block Copolymers Prepared by Ring-Opening Polymerization of l(d)-Lactide in the Presence of Poly(ethylene glycol). *Macromolecules*, **2003**, 36, 8008-8014	5.5	171
285	Water-based polyurethane 3D printed scaffolds with controlled release function for customized cartilage tissue engineering. *Biomaterials*, **2016**, 83, 156-68	15.6	166
284	Spheroid formation of mesenchymal stem cells on chitosan and chitosan-hyaluronan membranes. *Biomaterials*, **2011**, 32, 6929-45	15.6	166
283	Influence of Crystallinity and Stereochemistry on the Enzymatic Degradation of Poly(lactide)s. *Macromolecules*, **1999**, 32, 4454-4456	5.5	160
282	Protein release from physically crosslinked hydrogels of the PLA/PEO/PLA triblock copolymer-type. *Biomaterials*, **2001**, 22, 363-9	15.6	149
281	The biocompatibility and antibacterial properties of waterborne polyurethane-silver nanocomposites. *Biomaterials*, **2010**, 31, 6796-808	15.6	148
280	Review: Polymeric-Based 3D Printing for Tissue Engineering. *Journal of Medical and Biological Engineering*, **2015**, 35, 285-292	2.2	131

279	Enzymatic degradation of block copolymers prepared from epsilon-caprolactone and poly(ethylene glycol). *Biomacromolecules*, **2002**, 3, 525-30	6.9	122
278	Hydrogels Based on Schiff Base Linkages for Biomedical Applications. *Molecules*, **2019**, 24,	4.8	118
277	Degradation and cell culture studies on block copolymers prepared by ring opening polymerization of epsilon-caprolactone in the presence of poly(ethylene glycol). *Journal of Biomedical Materials Research Part B*, **2004**, 69, 417-27		113
276	New insights on the degradation of bioresorbable polymeric devices based on lactic and glycolic acids. *Clinical Materials*, **1992**, 10, 3-8		111
275	Synthesis and Characterization of Block Copolymers of ECaprolactone and DL-Lactide Initiated by Ethylene Glycol or Poly(ethylene glycol). *Macromolecular Chemistry and Physics*, **2003**, 204, 1994-2001	2.6	108
274	Unique crystallization behavior of poly(l-lactide)/poly(d-lactide) stereocomplex depending on initial melt states. *Polymer*, **2008**, 49, 5670-5675	3.9	107
273	Enzymatic degradation of polylactide stereocopolymers with predominant d-lactyl contents. *Polymer Degradation and Stability*, **2000**, 71, 61-67	4.7	105
272	Enzymatic degradation of stereocopolymers derived from l-, dl- and meso-lactides. *Polymer Degradation and Stability*, **2000**, 67, 85-90	4.7	104
271	Enzyme-catalyzed polymerization and degradation of copolymers prepared from ?-caprolactone and poly(ethylene glycol). *Polymer*, **2003**, 44, 5145-5151	3.9	101
270	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	5.2	97
269	Novel biodegradable polylactide/poly(ethylene glycol) micelles prepared by direct dissolution method for controlled delivery of anticancer drugs. *Pharmaceutical Research*, **2009**, 26, 2332-42	4.5	95
268	Structure-property relationships of copolymers obtained by ring-opening polymerization of glycolide and epsilon-caprolactone. Part 1. Synthesis and characterization. *Biomacromolecules*, **2005** , 6, 483-8	6.9	95
267	Synthesis and Biomedical Applications of Self-healing Hydrogels. *Frontiers in Chemistry*, **2018**, 6, 449	5	93
266	Hydrolytic degradation of poly(dl-lactic acid) in the presence of caffeine base. *Journal of Controlled Release*, **1996**, 40, 41-53	11.7	90
265	A novel biodegradable self-healing hydrogel to induce blood capillary formation. *NPG Asia Materials*, **2017**, 9, e363-e363	10.3	89
264	Lipase-catalyzed biodegradation of poly(epsilon-caprolactone) blended with various polylactide-based polymers. *Biomacromolecules*, **2003**, 4, 372-7	6.9	89
263	Poly(vinyl alcohol) Nanocomposites Reinforced with Bamboo Charcoal Nanoparticles: Mineralization Behavior and Characterization. *Materials*, **2015**, 8, 4895-4911	3.5	87
262	Processing of polycaprolactone and polycaprolactone-based copolymers into 3D scaffolds, and their cellular responses. *Tissue Engineering - Part A*, **2009**, 15, 3013-24	3.9	83

261	Preparation, Characterization, and Mechanism for Biodegradable and Biocompatible Polyurethane Shape Memory Elastomers. *ACS Applied Materials & Interfaces*, **2017**, 9, 5419-5429	9.5	78
260	Biodegradable Water-Based Polyurethane Shape Memory Elastomers for Bone Tissue Engineering. *ACS Biomaterials Science and Engineering*, **2018**, 4, 1397-1406	5.5	76
259	Degradation characteristics of poly(?-caprolactone)-based copolymers and blends. *Journal of Applied Polymer Science*, **2006**, 102, 1681-1687	2.9	76
258	Micelles formed by self-assembling of polylactide/poly(ethylene glycol) block copolymers in aqueous solutions. *Journal of Colloid and Interface Science*, **2007**, 314, 470-7	9.3	73
257	Synthesis and gelation properties of PEG-PLA-PEG triblock copolymers obtained by coupling monohydroxylated PEG-PLA with adipoyl chloride. *Langmuir*, **2007**, 23, 2778-83	4	73
256	Structure-property relationships of copolymers obtained by ring-opening polymerization of glycolide and epsilon-caprolactone. Part 2. Influence of composition and chain microstructure on the hydrolytic degradation. *Biomacromolecules*, **2005**, 6, 489-97	6.9	73
255	Characterization of biodegradable polyurethane nanoparticles and thermally induced self-assembly in water dispersion. *ACS Applied Materials & Interfaces*, **2014**, 6, 5685-94	9.5	72
254	Biodegradation of aliphatic polyesters **1995**, 43-87		72
253	Novel chitosan□ellulose nanofiber self-healing hydrogels to correlate self-healing properties of hydrogels with neural regeneration effects. *NPG Asia Materials*, **2019**, 11,	10.3	69
252	Substrate-dependent Wnt signaling in MSC differentiation within biomaterial-derived 3D spheroids. *Biomaterials*, **2013**, 34, 4725-38	15.6	69
251	3D bioprinting: A new insight into the therapeutic strategy of neural tissue regeneration. *Organogenesis*, **2015**, 11, 153-8	1.7	69
250	Peripheral nerve regeneration using a microporous polylactic acid asymmetric conduit in a rabbit long-gap sciatic nerve transection model. *Biomaterials*, **2011**, 32, 3764-75	15.6	67
249	Hydrolytic degradation of poly(oxyethylene)□poly-(□caprolactone) multiblock copolymers. *Journal of Applied Polymer Science*, **1998**, 68, 989-998	2.9	67
248	Composites of waterborne polyurethane and cellulose nanofibers for 3D printing and bioapplications. *Carbohydrate Polymers*, **2019**, 212, 75-88	10.3	66
247	Substrate-dependent gene regulation of self-assembled human MSC spheroids on chitosan membranes. *BMC Genomics*, **2014**, 15, 10	4.5	66
246	Water-based synthesis and processing of novel biodegradable elastomers for medical applications. *Journal of Materials Chemistry B*, **2014**, 2, 5083-5092	7.3	66
245	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	4.9	66
244	Accumulation and Toxicity of Superparamagnetic Iron Oxide Nanoparticles in Cells and Experimental Animals. *International Journal of Molecular Sciences*, **2016**, 17,	6.3	66

243	Glucose-sensitive self-healing hydrogel as sacrificial materials to fabricate vascularized constructs. *Biomaterials*, **2017**, 133, 20-28	15.6	65
242	Novel thymopentin release systems prepared from bioresorbable PLA-PEG-PLA hydrogels. *International Journal of Pharmaceutics*, **2010**, 386, 15-22	6.5	65
241	Crystalline oligomeric stereocomplex as an intermediate compound in racemic poly(DL-lactic acid) degradation. *Polymer International*, **1994**, 33, 37-41	3.3	63
240	Morphology and melt crystallization of poly(L-lactide) obtained by ring opening polymerization of L-lactide with zinc catalyst. *Polymer Engineering and Science*, **2006**, 46, 1583-1589	2.3	62
239	Substrate-mediated nanoparticle/gene delivery to MSC spheroids and their applications in peripheral nerve regeneration. *Biomaterials*, **2014**, 35, 2630-41	15.6	59
238	Characterization and biocompatibility of chitosan nanocomposites. *Colloids and Surfaces B: Biointerfaces*, **2011**, 85, 198-206	6	59
237	Structural characterization, antioxidant and antibacterial activities of a novel polysaccharide from Periploca laevigata root barks. *Carbohydrate Polymers*, **2019**, 206, 380-388	10.3	59
236	Synthesis and characterization of poly(oxyethylene)–poly(caprolactone) multiblock copolymers. *Polymer International*, **1998**, 45, 419-426	3.3	58
235	Hydrolytic degradation of PLA/PEO/PLA triblock copolymers prepared in the presence of Zn metal or CaH2. *Polymer*, **1998**, 39, 5421-5430	3.9	58
234	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	5.2	57
233	Effect of cellulose nanocrystals on scaffolds comprising chitosan, alginate and hydroxyapatite for bone tissue engineering. *International Journal of Biological Macromolecules*, **2019**, 121, 814-821	7.9	57
232	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	5.5	56
231	Synthesis and Characterization of Dual Stimuli-Sensitive Biodegradable Polyurethane Soft Hydrogels for 3D Cell-Laden Bioprinting. *ACS Applied Materials & Interfaces*, **2018**, 10, 29273-29287	9.5	54
230	Acquisition of epithelial-mesenchymal transition and cancer stem-like phenotypes within chitosan-hyaluronan membrane-derived 3D tumor spheroids. *Biomaterials*, **2014**, 35, 10070-9	15.6	54
229	Synthesis of Thermoresponsive Amphiphilic Polyurethane Gel as a New Cell Printing Material near Body Temperature. *ACS Applied Materials & Interfaces*, **2015**, 7, 27613-23	9.5	53
228	Isolation of the multipotent MSC subpopulation from human gingival fibroblasts by culturing on chitosan membranes. *Biomaterials*, **2012**, 33, 2642-55	15.6	51
227	Nanoparticle uptake and gene transfer efficiency for MSCs on chitosan and chitosan-hyaluronan substrates. *Biomaterials*, **2012**, 33, 3639-50	15.6	51
226	Enzyme-catalyzed polymerization and degradation of copolyesters of ε-caprolactone and δ-butyrolactone. *Polymer*, **2005**, 46, 12682-12688	3.9	51

225	Self-assembled adult adipose-derived stem cell spheroids combined with biomaterials promote wound healing in a rat skin repair model. *Wound Repair and Regeneration*, **2015**, 23, 57-64	3.6	50
224	Degradation and osteogenic potential of a novel poly(lactic acid)/nano-sized □tricalcium phosphate scaffold. *International Journal of Nanomedicine*, **2012**, 7, 5881-8	7.3	50
223	The effect of elastic biodegradable polyurethane electrospun nanofibers on the differentiation of mesenchymal stem cells. *Colloids and Surfaces B: Biointerfaces*, **2014**, 122, 414-422	6	49
222	Self-assembled filomicelles prepared from polylactide/poly(ethylene glycol) block copolymers for anticancer drug delivery. *International Journal of Pharmaceutics*, **2015**, 485, 357-64	6.5	48
221	Evaluation of biodegradable elastic scaffolds made of anionic polyurethane for cartilage tissue engineering. *Colloids and Surfaces B: Biointerfaces*, **2015**, 125, 34-44	6	47
220	Influence of chain microstructure on the hydrolytic degradation of copolymers from 1,3-trimethylene carbonate and L-lactide. *Journal of Polymer Science Part A*, **2009**, 47, 3869-3879	2.5	46
219	Enzymatic degradation of block copolymers obtained by sequential ring opening polymerization of l-lactide and e-caprolactone. *Polymer Degradation and Stability*, **2007**, 92, 1769-1777	4.7	46
218	Synthesis and characterization of poly(L-lactide)-poly(ethylene glycol) multiblock copolymers. *Journal of Applied Polymer Science*, **2002**, 84, 1729-1736	2.9	46
217	Biodegradable polymer scaffolds. *Journal of Materials Chemistry B*, **2016**, 4, 7493-7505	7.3	45
216	Thermo-responsive drug release from self-assembled micelles of brush-like PLA/PEG analogues block copolymers. *International Journal of Pharmaceutics*, **2015**, 491, 152-61	6.5	44
215	Chondrogenesis from human placenta-derived mesenchymal stem cells in three-dimensional scaffolds for cartilage tissue engineering. *Tissue Engineering - Part A*, **2011**, 17, 1549-60	3.9	44
214	The static magnetic field accelerates the osteogenic differentiation and mineralization of dental pulp cells. *Cytotechnology*, **2010**, 62, 143-55	2.2	44
213	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	44
212	Synthesis and rheological properties of polylactide/poly(ethylene glycol) multiblock copolymers. *Macromolecular Bioscience*, **2005**, 5, 1125-31	5.5	43
211	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	9.5	42
210	Synthesis and ring-opening polymerisation of a new alkyne-functionalised glycolide towards biocompatible amphiphilic graft copolymers. *Polymer Chemistry*, **2013**, 4, 3705	4.9	41
209	Aggregation behavior of self-assembling polylactide/poly(ethylene glycol) micelles for sustained drug delivery. *International Journal of Pharmaceutics*, **2010**, 394, 43-9	6.5	41
208	Anisotropic self-assembling micelles prepared by the direct dissolution of PLA/PEG block copolymers with a high PEG fraction. *Langmuir*, **2011**, 27, 8000-8	4	40

207	Double-Network Polyurethane-Gelatin Hydrogel with Tunable Modulus for High-Resolution 3D Bioprinting. *ACS Applied Materials & Interfaces*, **2019**, 11, 32746-32757	9.5	39
206	Non-isothermal crystallization kinetics of poly(L-lactide). *Polymer International*, **2010**, 59, 1616-1621	3.3	39
205	Hydrolytic degradation of the coral/poly(DL-lactic acid) bioresorbable material. *Journal of Biomaterials Science, Polymer Edition*, **1996**, 7, 817-27	3.5	38
204	Cell reprogramming by 3D bioprinting of human fibroblasts in polyurethane hydrogel for fabrication of neural-like constructs. *Acta Biomaterialia*, **2018**, 70, 57-70	10.8	37
203	Substrate-dependent modulation of 3D spheroid morphology self-assembled in mesenchymal stem cell-endothelial progenitor cell coculture. *Biomaterials*, **2014**, 35, 7295-307	15.6	37
202	In vitro study of a novel nanogold-collagen composite to enhance the mesenchymal stem cell behavior for vascular regeneration. *PLoS ONE*, **2014**, 9, e104019	3.7	37
201	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		36
200	Novel flexible nerve conduits made of water-based biodegradable polyurethane for peripheral nerve regeneration. *Journal of Biomedical Materials Research - Part A*, **2017**, 105, 1383-1392	5.4	35
199	Degradation of copolymers obtained by ring-opening polymerization of glycolide and e-caprolactone: A high resolution NMR and ESI-MS study. *Polymer Degradation and Stability*, **2008**, 93, 990-999	4.7	35
198	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	6.5	34
197	Spheroid formation and enhanced cardiomyogenic potential of adipose-derived stem cells grown on chitosan. *BioResearch Open Access*, **2013**, 2, 28-39	2.4	34
196	Hydrolytic and enzymatic degradations of physically crosslinked hydrogels prepared from PLA/PEO/PLA triblock copolymers. *Journal of Materials Science: Materials in Medicine*, **2002**, 13, 81-6	4.5	34
195	Semi-Interpenetrating Polymer Network of Hyaluronan and Chitosan Self-Healing Hydrogels for Central Nervous System Repair. *ACS Applied Materials & Interfaces*, **2020**, 12, 40108-40120	9.5	34
194	Cryogel/hydrogel biomaterials and acupuncture combined to promote diabetic skin wound healing through immunomodulation. *Biomaterials*, **2021**, 269, 120608	15.6	34
193	Smart polymers for cell therapy and precision medicine. *Journal of Biomedical Science*, **2019**, 26, 73	13.3	33
192	Enhanced chondrogenic differentiation potential of human gingival fibroblasts by spheroid formation on chitosan membranes. *Tissue Engineering - Part A*, **2012**, 18, 67-79	3.9	33
191	In vitro Degradation of Poly[(L-lactide)-co-(trimethylene carbonate)] Copolymers and a Composite with Poly[(L-lactide)-co-glycolide] Fibers as Cardiovascular Stent Material. *Macromolecular Materials and Engineering*, **2012**, 297, 128-135	3.9	33
190	Synthesis, Characterization, and Enzymatic Degradation of Copolymers Prepared from □Caprolactone and □Butyrolactone. *Macromolecules*, **2004**, 37, 9798-9803	5.5	33

189	Rheology and Drug Release Properties of Bioresorbable Hydrogels Prepared from Polylactide/Poly(ethylene glycol) Block Copolymers. *Macromolecular Symposia*, **2005**, 222, 23-36	0.8	33
188	Biodegradable water-based polyurethane scaffolds with a sequential release function for cell-free cartilage tissue engineering. *Acta Biomaterialia*, **2019**, 88, 301-313	10.8	31
187	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	10.6	31
186	Chitosan promotes cancer progression and stem cell properties in association with Wnt signaling in colon and hepatocellular carcinoma cells. *Scientific Reports*, **2017**, 8, 45751	4.9	30
185	Synthesis and self-assembling of poly(N-isopropylacrylamide-block-poly(L-lactide)-block-poly(N-isopropylacrylamide) triblock copolymers prepared by combination of ring-opening polymerization and atom transfer radical polymerization. *Journal of Polymer Science Part A*, **2013**, 51, 3274-3283	2.5	30
184	In vitro degradation behavior of poly(lactide)-poly(ethylene glycol) block copolymer micelles in aqueous solution. *International Journal of Pharmaceutics*, **2010**, 400, 96-103	6.5	30
183	Novel bioresorbable hydrogels prepared from chitosan-graft-polylactide copolymers. *Polymer International*, **2012**, 61, 74-81	3.3	29
182	Multidrug PLA-PEG filomicelles for concurrent delivery of anticancer drugs-The influence of drug-drug and drug-polymer interactions on drug loading and release properties. *International Journal of Pharmaceutics*, **2016**, 510, 365-74	6.5	28
181	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	7.3	28
180	Modeling and self-assembly behavior of PEG-PLA-PEG triblock copolymers in aqueous solution. *Nanoscale*, **2013**, 5, 9010-7	7.7	28
179	Synthesis of water-dispersible zinc oxide quantum dots with antibacterial activity and low cytotoxicity for cell labeling. *Nanotechnology*, **2013**, 24, 475102	3.4	28
178	Controlled poly(l-lactide-co-trimethylene carbonate) delivery system of cyclosporine A and rapamycine--the effect of copolymer chain microstructure on drug release rate. *International Journal of Pharmaceutics*, **2011**, 414, 203-9	6.5	28
177	Antimicrobial activities and cellular responses to natural silicate clays and derivatives modified by cationic alkylamine salts. *ACS Applied Materials & Interfaces*, **2009**, 1, 2556-64	9.5	28
176	Biodegradation of Aliphatic Polyesters **2002**, 71-131		28
175	Design and Development of Immunomodulatory Antigen Delivery Systems Based on Peptide/PEG-PLA Conjugate for Tuning Immunity. *Biomacromolecules*, **2015**, 16, 3666-73	6.9	27
174	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	10.8	27
173	Brush-like amphiphilic copolymers based on polylactide and poly(ethylene glycol): Synthesis, self-assembly and evaluation as drug carrier. *Polymer*, **2013**, 54, 1746-1754	3.9	27
172	Nanosheet transfection: effective transfer of naked DNA on silica glass. *NPG Asia Materials*, **2015**, 7, e184-e184	10.3	26

171	Non-viral delivery of an optogenetic tool into cells with self-healing hydrogel. *Biomaterials*, **2018**, 174, 31-40	15.6	26
170	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	4.7	26
169	A bioresorbable cardiovascular stent prepared from L-lactide, trimethylene carbonate and glycolide terpolymers. *Polymer Engineering and Science*, **2014**, 54, 1418-1426	2.3	26
168	In vitro 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	4.7	25
167	Biomaterial substrate-derived compact cellular spheroids mimicking the behavior of pancreatic cancer and microenvironment. *Biomaterials*, **2019**, 213, 119202	15.6	24
166	Self-healing hydrogel for tissue repair in the central nervous system. *Neural Regeneration Research*, **2015**, 10, 1922-3	4.5	24
165	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	8.3	23
164	The substrate-dependent regeneration capacity of mesenchymal stem cell spheroids derived on various biomaterial surfaces. *Biomaterials Science*, **2014**, 2, 1652-1660	7.4	23
163	Design Strategies of Conductive Hydrogel for Biomedical Applications. *Molecules*, **2020**, 25,	4.8	23
162	Synthesis of water-based cationic polyurethane for antibacterial and gene delivery applications. *Colloids and Surfaces B: Biointerfaces*, **2016**, 146, 825-32	6	23
161	In vitro biocompatibility evaluation of bioresorbable copolymers prepared from L-lactide, 1, 3-trimethylene carbonate, and glycolide for cardiovascular applications. *Journal of Biomaterials Science, Polymer Edition*, **2015**, 26, 497-514	3.5	22
160	Synthesis and characterization of waterborne polyurethane containing poly(3-hydroxybutyrate) as new biodegradable elastomers. *Journal of Materials Chemistry B*, **2015**, 3, 9089-9097	7.3	22
159	A facile method to prepare superparamagnetic iron oxide and hydrophobic drug-encapsulated biodegradable polyurethane nanoparticles. *International Journal of Nanomedicine*, **2017**, 12, 1775-1789	7.3	22
158	Substrate-mediated reprogramming of human fibroblasts into neural crest stem-like cells and their applications in neural repair. *Biomaterials*, **2016**, 102, 148-61	15.6	22
157	Enzyme-catalyzed degradation of poly(l-lactide)/poly(e-caprolactone) diblock, triblock and four-armed copolymers. *Polymer Degradation and Stability*, **2009**, 94, 227-233	4.7	22
156	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	10.3	22
155	Evaluation and characterization of waterborne biodegradable polyurethane films for the prevention of tendon postoperative adhesion. *International Journal of Nanomedicine*, **2018**, 13, 5485-5497	7.3	22
154	Biomaterial Substrate-Mediated Multicellular Spheroid Formation and Their Applications in Tissue Engineering. *Biotechnology Journal*, **2017**, 12, 1700064	5.6	21

153	Totally bioresorbable composites prepared from poly(l-lactide)-co-(trimethylene carbonate) copolymers and poly(l-lactide)-co-(glycolide) fibers as cardiovascular stent material. *Polymer Engineering and Science*, **2012**, 52, 741-750	2.3	21
152	PLA stereocopolymers as sources of bioresorbable stents: preliminary investigation in rabbit. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2006**, 77, 349-56	3.5	21
151	Post-assembly dimension-dependent face-selective etching of fullerene crystals. *Materials Horizons* , **2020**, 7, 787-795	14.4	21
150	NMR analysis of the chain microstructure of biodegradable terpolymers with shape memory properties. *European Polymer Journal*, **2011**, 47, 1315-1327	5.2	20
149	Morphological investigation on melt crystallized polylactide homo- and stereocopolymers by enzymatic degradation with proteinase K. *Journal of Polymer Science, Part B: Polymer Physics*, **2008**, 46, 959-970	2.6	20
148	Thermo-Responsive Polyurethane Hydrogels Based on Poly(ε-caprolactone) Diol and Amphiphilic Polylactide-Poly(Ethylene Glycol) Block Copolymers. *Polymers*, **2016**, 8,	4.5	20
147	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	6.5	19
146	Relationship between enzyme adsorption and enzyme-catalyzed degradation of polylactides. *Macromolecular Bioscience*, **2008**, 8, 25-31	5.5	19
145	Preparation of Polyurethane-Graphene Nanocomposite and Evaluation of Neurovascular Regeneration. *ACS Biomaterials Science and Engineering*, **2020**, 6, 597-609	5.5	19
144	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	10.8	19
143	Cellular Spheroids of Mesenchymal Stem Cells and Their Perspectives in Future Healthcare. *Applied Sciences (Switzerland)*, **2019**, 9, 627	2.6	18
142	Synthesis and characterization of novel carboxymethyl chitosan grafted polylactide hydrogels for controlled drug delivery. *Polymers for Advanced Technologies*, **2015**, 26, 924-931	3.2	18
141	Dependence of morphology on composition of poly(L-lactide)–poly(ethylene glycol) multiblock copolymers. *Polymers for Advanced Technologies*, **2002**, 13, 233-238	3.2	18
140	Using 3D bioprinting to produce mini-brain. *Neural Regeneration Research*, **2017**, 12, 1595-1596	4.5	18
139	Regulation of human endothelial progenitor cell maturation by polyurethane nanocomposites. *Biomaterials*, **2014**, 35, 6810-21	15.6	17
138	Chitosan derived co-spheroids of neural stem cells and mesenchymal stem cells for neural regeneration. *Colloids and Surfaces B: Biointerfaces*, **2017**, 158, 527-538	6	17
137	Investigations on the morphology and melt crystallization of poly(L-lactide)-poly(ethylene glycol) diblock copolymers. *Polymer Engineering and Science*, **2008**, 48, 425-433	2.3	17
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