

Soo Hyun Kim

List of Publications by Citations

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176
papers

5,209
citations

39
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64
g-index

181
ext. papers

5,839
ext. citations

5.9
avg, IF

5.74
L-index

#	Paper	IF	Citations
176	In vivo biocompatibility and degradation behavior of elastic poly(L-lactide-co-epsilon-caprolactone) scaffolds. <i>Biomaterials</i> , 2004 , 25, 5939-46	15.6	199
175	Mechano-active tissue engineering of vascular smooth muscle using pulsatile perfusion bioreactors and elastic PLCL scaffolds. <i>Biomaterials</i> , 2005 , 26, 1405-11	15.6	176
174	Biodegradable polymer blends of poly(L-lactic acid) and gelatinized starch. <i>Polymer Engineering and Science</i> , 2000 , 40, 2539-2550	2.3	171
173	The effect of gelatin incorporation into electrospun poly(L-lactide-co-epsilon-caprolactone) fibers on mechanical properties and cytocompatibility. <i>Biomaterials</i> , 2008 , 29, 1872-9	15.6	162
172	Synthesis and Characterization of Poly(L-lactide)Poly(Epsilon-caprolactone) Multiblock Copolymers. <i>Macromolecules</i> , 2003 , 36, 5585-5592	5.5	151
171	Manufacture of elastic biodegradable PLCL scaffolds for mechano-active vascular tissue engineering. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2004 , 15, 645-60	3.5	144
170	Morphology of elastic poly(L-lactide-co-epsilon-caprolactone) copolymers and in vitro and in vivo degradation behavior of their scaffolds. <i>Biomacromolecules</i> , 2004 , 5, 1303-9	6.9	142
169	Elastic biodegradable poly(glycolide-co-caprolactone) scaffold for tissue engineering. <i>Journal of Biomedical Materials Research Part B</i> , 2003 , 66, 29-37		128
168	Immobilization of poly(ethylene glycol) or its sulfonate onto polymer surfaces by ozone oxidation. <i>Biomaterials</i> , 2001 , 22, 2115-23	15.6	128
167	Bioresorbable elastomeric vascular tissue engineering scaffolds via melt spinning and electrospinning. <i>Acta Biomaterialia</i> , 2010 , 6, 1958-67	10.8	121
166	Stereocomplex Formation of High-Molecular-Weight Polylactide Using Supercritical Fluid. <i>Macromolecules</i> , 2010 , 43, 1137-1142	5.5	117
165	A poly(lactic acid)/calcium metaphosphate composite for bone tissue engineering. <i>Biomaterials</i> , 2005 , 26, 6314-22	15.6	108
164	A novel tissue-engineered trachea with a mechanical behavior similar to native trachea. <i>Biomaterials</i> , 2015 , 62, 106-15	15.6	91
163	Cartilage regeneration with highly-elastic three-dimensional scaffolds prepared from biodegradable poly(L-lactide-co-epsilon-caprolactone). <i>Biomaterials</i> , 2008 , 29, 4630-6	15.6	87
162	Current status and future direction of biodegradable metallic and polymeric vascular scaffolds for next-generation stents. <i>Acta Biomaterialia</i> , 2017 , 60, 3-22	10.8	86
161	Regeneration of chronic myocardial infarction by injectable hydrogels containing stem cell homing factor SDF-1 and angiogenic peptide Ac-SDKP. <i>Biomaterials</i> , 2014 , 35, 2436-45	15.6	83
160	Vascular patches tissue-engineered with autologous bone marrow-derived cells and decellularized tissue matrices. <i>Biomaterials</i> , 2005 , 26, 1915-24	15.6	82

159	The enhancement of mature vessel formation and cardiac function in infarcted hearts using dual growth factor delivery with self-assembling peptides. <i>Biomaterials</i> , 2011 , 32, 6080-8	15.6	81
158	Stem cell recruitment and angiogenesis of neuropeptide substance P coupled with self-assembling peptide nanofiber in a mouse hind limb ischemia model. <i>Biomaterials</i> , 2013 , 34, 1657-68	15.6	80
157	Decellularized heart ECM hydrogel using supercritical carbon dioxide for improved angiogenesis. <i>Acta Biomaterialia</i> , 2018 , 67, 270-281	10.8	78
156	Insight on stem cell preconditioning and instructive biomaterials to enhance cell adhesion, retention, and engraftment for tissue repair. <i>Biomaterials</i> , 2016 , 90, 85-115	15.6	71
155	Thermally produced biodegradable scaffolds for cartilage tissue engineering. <i>Macromolecular Bioscience</i> , 2004 , 4, 802-10	5.5	70
154	In situ chondrogenic differentiation of human adipose tissue-derived stem cells in a TGF-beta1 loaded fibrin-poly(lactide-caprolactone) nanoparticulate complex. <i>Biomaterials</i> , 2009 , 30, 4657-64	15.6	68
153	Mechano-active scaffold design based on microporous poly(L-lactide-co-epsilon-caprolactone) for articular cartilage tissue engineering: dependence of porosity on compression force-applied mechanical behaviors. <i>Tissue Engineering</i> , 2006 , 12, 449-58		67
152	Effect of scaffold microarchitecture on osteogenic differentiation of human mesenchymal stem cells. <i>European Cells and Materials</i> , 2013 , 25, 114-129	4.3	67
151	Enhanced regeneration of the ligament-bone interface using a poly(L-lactide-co-epsilon-caprolactone) scaffold with local delivery of cells/BMP-2 using a heparin-based hydrogel. <i>Acta Biomaterialia</i> , 2011 , 7, 244-57	10.8	59
150	Stereocomplexation of Poly(l-lactide) and Random Copolymer Poly(d-lactide-co-epsilon-caprolactone) To Enhance Melt Stability. <i>Macromolecules</i> , 2012 , 45, 4012-4014	5.5	55
149	In vivo conjunctival reconstruction using modified PLGA grafts for decreased scar formation and contraction. <i>Biomaterials</i> , 2003 , 24, 5049-59	15.6	54
148	The correlation between human adipose-derived stem cells differentiation and cell adhesion mechanism. <i>Biomaterials</i> , 2009 , 30, 6835-43	15.6	53
147	Effect of self-assembled peptide-mesenchymal stem cell complex on the progression of osteoarthritis in a rat model. <i>International Journal of Nanomedicine</i> , 2014 , 9 Suppl 1, 141-57	7.3	49
146	Therapeutic effects of neuropeptide substance P coupled with self-assembled peptide nanofibers on the progression of osteoarthritis in a rat model. <i>Biomaterials</i> , 2016 , 74, 119-30	15.6	46
145	Platelet and bacterial repellence on sulfonated poly(ethylene glycol)-acrylate copolymer surfaces. <i>Colloids and Surfaces B: Biointerfaces</i> , 2000 , 18, 355-370	6	45
144	Microstructure analysis and thermal property of copolymers made of glycolide and epsilon-caprolactone by stannous octoate. <i>Journal of Polymer Science Part A</i> , 2002 , 40, 544-554	2.5	44
143	Self-assembling peptide nanofibers coupled with neuropeptide substance P for bone tissue engineering. <i>Tissue Engineering - Part A</i> , 2015 , 21, 1237-46	3.9	43
142	Regeneration of Achilles' tendon: the role of dynamic stimulation for enhanced cell proliferation and mechanical properties. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2010 , 21, 1173-90	3.5	43

141	Application of an elastic biodegradable poly(L-lactide-co-epsilon-caprolactone) scaffold for cartilage tissue regeneration. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2008 , 19, 1073-85	3.5	42
140	Fabrication of a new tubular fibrous PLCL scaffold for vascular tissue engineering. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2006 , 17, 1359-74	3.5	42
139	Smooth muscle-like tissues engineered with bone marrow stromal cells. <i>Biomaterials</i> , 2004 , 25, 2979-86	15.6	40
138	Integrating Organs-on-Chips: Multiplexing, Scaling, Vascularization, and Innervation. <i>Trends in Biotechnology</i> , 2020 , 38, 99-112	15.1	40
137	Effect of poly(ethylene glycol) graft polymerization of poly(methyl methacrylate) on cell adhesion. In vitro and in vivo study. <i>Journal of Cataract and Refractive Surgery</i> , 2001 , 27, 766-74	2.3	39
136	TGF- β encapsulated PLCL scaffold by a supercritical CO ₂ -HFIP co-solvent system for cartilage tissue engineering. <i>Journal of Controlled Release</i> , 2015 , 206, 101-7	11.7	38
135	Nanofibrous scaffolds electrospun from elastomeric biodegradable poly(L-lactide-co-epsilon-caprolactone) copolymer. <i>Biomedical Materials (Bristol)</i> , 2009 , 4, 015019	3.5	36
134	In Situ Recruitment of Human Bone Marrow-Derived Mesenchymal Stem Cells Using Chemokines for Articular Cartilage Regeneration. <i>Cell Transplantation</i> , 2015 , 24, 1067-83	4	35
133	Cartilaginous tissue formation using a mechano-active scaffold and dynamic compressive stimulation. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2008 , 19, 61-74	3.5	33
132	UV-curing kinetics and performance development of in situ curable 3D printing materials. <i>European Polymer Journal</i> , 2017 , 93, 140-147	5.2	31
131	Therapeutic angiogenesis of three-dimensionally cultured adipose-derived stem cells in rat infarcted hearts. <i>Cytotherapy</i> , 2013 , 15, 542-56	4.8	31
130	Stem cell recruitment, angiogenesis, and tissue regeneration in substance P-conjugated poly(L-lactide-co-epsilon-caprolactone) nonwoven meshes. <i>Journal of Biomedical Materials Research - Part A</i> , 2015 , 103, 2673-88	5.4	31
129	Three-dimensional electrospun poly(lactide-co-epsilon-caprolactone) for small-diameter vascular grafts. <i>Tissue Engineering - Part A</i> , 2012 , 18, 1608-16	3.9	31
128	Covalent immobilization of stem cell inducing/recruiting factor and heparin on cell-free small-diameter vascular graft for accelerated in situ tissue regeneration. <i>Journal of Biomedical Materials Research - Part A</i> , 2016 , 104, 1352-71	5.4	30
127	Networked concave microwell arrays for constructing 3D cell spheroids. <i>Biofabrication</i> , 2017 , 10, 015001	10.5	30
126	Electrically controllable twisted-coiled artificial muscle actuators using surface-modified polyester fibers. <i>Smart Materials and Structures</i> , 2017 , 26, 035048	3.4	28
125	Rapid stereocomplex formation of polylactide using supercritical fluid technology. <i>Polymer International</i> , 2012 , 61, 939-942	3.3	28
124	Fluctuation conductivity of single-crystalline BaFe _{1.8} Co _{0.2} As ₂ in the critical region. <i>Journal of Applied Physics</i> , 2010 , 108, 063916	2.5	28

123	The effects of dynamic and three-dimensional environments on chondrogenic differentiation of bone marrow stromal cells. <i>Biomedical Materials (Bristol)</i> , 2009 , 4, 055009	3.5	28
122	Improved calcification resistance and biocompatibility of tissue patch grafted with sulfonated PEO or heparin after glutaraldehyde fixation. <i>Journal of Biomedical Materials Research Part B</i> , 2001 , 58, 27-35		28
121	Direct condensation polymerization of lactic acid. <i>Macromolecular Symposia</i> , 1999 , 144, 277-287	0.8	28
120	Decellularized brain matrix enhances macrophage polarization and functional improvements in rat spinal cord injury. <i>Acta Biomaterialia</i> , 2020 , 101, 357-371	10.8	28
119	Nanofibrous Electrospun Heart Decellularized Extracellular Matrix-Based Hybrid Scaffold as Wound Dressing for Reducing Scarring in Wound Healing. <i>Tissue Engineering - Part A</i> , 2018 , 24, 830-848	3.9	26
118	Adhesion and differentiation of adipose-derived stem cells on a substrate with immobilized fibroblast growth factor. <i>Acta Biomaterialia</i> , 2012 , 8, 1759-67	10.8	26
117	Lotus-leaf-like structured heparin-conjugated poly(L-lactide-co-epsilon-caprolactone) as a blood compatible material. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013 , 103, 463-7	6	25
116	Synthesis and degradation behaviors of PEO/PL/PEO tri-block copolymers. <i>Macromolecular Research</i> , 2002 , 10, 85-90	1.9	24
115	In Situ Blood Vessel Regeneration Using SP (Substance P) and SDF (Stromal Cell-Derived Factor)-1 Peptide Eluting Vascular Grafts. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2018 , 38, e117-e134	9.4	24
114	Skin Regeneration with Self-Assembled Peptide Hydrogels Conjugated with Substance P in a Diabetic Rat Model. <i>Tissue Engineering - Part A</i> , 2018 , 24, 21-33	3.9	23
113	Melt stability of 8-arms star-shaped stereocomplex polylactide with three-dimensional core structures. <i>Polymer Degradation and Stability</i> , 2013 , 98, 1097-1101	4.7	23
112	Endothelial differentiation and vasculogenesis induced by three-dimensional adipose-derived stem cells. <i>Anatomical Record</i> , 2013 , 296, 168-77	2.1	23
111	The effect of hybridization of hydrogels and poly(L-lactide-co-epsilon-caprolactone) scaffolds on cartilage tissue engineering. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2010 , 21, 581-92	3.5	23
110	A collagen/smooth muscle cell-incorporated elastic scaffold for tissue-engineered vascular grafts. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2009 , 20, 1645-60	3.5	23
109	Poly(L-lactic acid) scaffold with oriented micro-valley surface and superior properties fabricated by solid-state drawing for blood-contact biomaterials. <i>Biofabrication</i> , 2016 , 8, 045010	10.5	22
108	Bio-based composite of stereocomplex polylactide and cellulose nanowhiskers. <i>Polymer Degradation and Stability</i> , 2014 , 109, 430-435	4.7	22
107	A biocompatible tissue scaffold produced by supercritical fluid processing for cartilage tissue engineering. <i>Tissue Engineering - Part C: Methods</i> , 2013 , 19, 181-8	2.9	22
106	Kinetic and Mechanistic Studies of L-Lactide Polymerization in Supercritical Chlorodifluoromethane. <i>Macromolecules</i> , 2003 , 36, 8923-8930	5.5	22

105	Improved blood compatibility and decreased VSMC proliferation of surface-modified metal grafted with sulfonated PEG or heparin. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2002 , 13, 939-52	3.5	22
104	SDF-1 β peptide tethered polyester facilitates tissue repair by endogenous cell mobilization and recruitment. <i>Journal of Biomedical Materials Research - Part A</i> , 2017 , 105, 2670-2684	5.4	21
103	Small diameter double layer tubular scaffolds using highly elastic PLCL copolymer for vascular tissue engineering. <i>Macromolecular Research</i> , 2011 , 19, 122-129	1.9	21
102	Skin Regeneration with a Scaffold of Predefined Shape and Bioactive Peptide Hydrogels. <i>Tissue Engineering - Part A</i> , 2018 , 24, 1518-1530	3.9	21
101	Biodegradable vascular stents with high tensile and compressive strength: a novel strategy for applying monofilaments via solid-state drawing and shaped-annealing processes. <i>Biomaterials Science</i> , 2017 , 5, 422-431	7.4	20
100	New technique of seeding chondrocytes into microporous poly(L-lactide-co-epsilon-caprolactone) sponge by cyclic compression force-induced suction. <i>Tissue Engineering</i> , 2006 , 12, 1811-20		20
99	Articular cartilage tissue engineering based on a mechano-active scaffold made of poly(L-lactide-co-epsilon-caprolactone): In vivo performance in adult rabbits. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2010 , 94, 80-8	3.5	19
98	Augmented peripheral nerve regeneration through elastic nerve guidance conduits prepared using a porous PLCL membrane with a 3D printed collagen hydrogel. <i>Biomaterials Science</i> , 2020 , 8, 6261-6271	7.4	19
97	Combinatorial therapy with three-dimensionally cultured adipose-derived stromal cells and self-assembling peptides to enhance angiogenesis and preserve cardiac function in infarcted hearts. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2017 , 11, 2816-2827	4.4	18
96	Synergistic Action of IL-8 and Bone Marrow Concentrate on Cartilage Regeneration Through Upregulation of Chondrogenic Transcription Factors. <i>Tissue Engineering - Part A</i> , 2016 , 22, 363-74	3.9	18
95	In situ chondrogenic differentiation of bone marrow stromal cells in bioactive self-assembled peptide gels. <i>Journal of Bioscience and Bioengineering</i> , 2015 , 120, 91-8	3.3	18
94	Nanografted Substrata and Triculture of Human Pericytes, Fibroblasts, and Endothelial Cells for Studying the Effects on Angiogenesis. <i>Tissue Engineering - Part A</i> , 2016 , 22, 698-706	3.9	18
93	Characterization and preparation of bio-tubular scaffolds for fabricating artificial vascular grafts by combining electrospinning and a co-culture system. <i>Macromolecular Research</i> , 2016 , 24, 131-142	1.9	17
92	Design and characterization of a maltose binding protein-linked growth factor for matrix engineering. <i>Biotechnology Letters</i> , 2009 , 31, 1677-84	3	17
91	Antagonistic effect of EGF on FAK phosphorylation/dephosphorylation in a cell. <i>Cell Biochemistry and Function</i> , 2008 , 26, 539-47	4.2	17
90	Strategies for recruitment of stem cells to treat myocardial infarction. <i>Current Pharmaceutical Design</i> , 2015 , 21, 1584-97	3.3	16
89	Effects of pulsatile bioreactor culture on vascular smooth muscle cells seeded on electrospun poly(lactide-co-epsilon-caprolactone) scaffold. <i>Artificial Organs</i> , 2013 , 37, E168-78	2.6	15
88	Mechanical loading-dependence of mRNA expressions of extracellular matrices of chondrocytes inoculated into elastomeric microporous poly(L-lactide-co-epsilon-caprolactone) scaffold. <i>Tissue Engineering</i> , 2007 , 13, 29-40		15

87	Improvement of Flexural Strengths of Poly(L-lactic acid) by Solid-State Extrusion, 2. Extrusion Through Rectangular Die. <i>Macromolecular Materials and Engineering</i> , 2003 , 288, 50-57	3.9	15
86	Bi-layered PLCL/(PLGA/βTCP) composite scaffold for osteochondral tissue engineering. <i>Journal of Bioactive and Compatible Polymers</i> , 2015 , 30, 178-187	2	14
85	Stereocomplex-nanocomposite formation of polylactide/fluorinated-clay with superior thermal property using supercritical fluid. <i>Macromolecular Research</i> , 2012 , 20, 545-548	1.9	14
84	Substance P/dexamethasone-encapsulated PLGA scaffold fabricated using supercritical fluid process for calvarial bone regeneration. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2017 , 11, 3469-3480	4.4	13
83	Combined Treatment with Systemic and Local Delivery of Substance P Coupled with Self-Assembled Peptides for a Hind Limb Ischemia Model. <i>Tissue Engineering - Part A</i> , 2016 , 22, 545-55	3.9	13
82	Preparation of enhanced hydrophobic poly(l-lactide-co-ε-caprolactone) films surface and its blood compatibility. <i>Applied Surface Science</i> , 2013 , 276, 586-591	6.7	13
81	Elastic, double-layered poly (l-lactide-co-ε-caprolactone) scaffold for long-term vascular reconstruction. <i>Journal of Bioactive and Compatible Polymers</i> , 2013 , 28, 233-246	2	13
80	Improvement of Flexural Strengths of Poly(L-lactic acid) by Solid-State Extrusion. <i>Macromolecular Chemistry and Physics</i> , 2001 , 202, 2447-2453	2.6	13
79	In Situ Homologous Polymerization of l-Lactide Having a Stereocomplex Crystal. <i>Macromolecules</i> , 2018 , 51, 6303-6311	5.5	12
78	Preparation of lotus-leaf-like structured blood compatible poly(ε-caprolactone)-block-poly(L-lactic acid) copolymer film surfaces. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014 , 114, 28-35	6	12
77	Biodegradable stereocomplex polylactide having flexible ε-caprolactone unit. <i>Macromolecular Research</i> , 2013 , 21, 1036-1041	1.9	12
76	Fabrication and Medical Applications of Lotus-leaf-like Structured Superhydrophobic Surfaces. <i>Porrime</i> , 2013 , 37, 411-419	1	12
75	Novel Strategy of Lactide Polymerization Leading to Stereocomplex Polylactide Nanoparticles Using Supercritical Fluid Technology. <i>ACS Sustainable Chemistry and Engineering</i> , 2016 , 4, 4521-4528	8.3	12
74	Small diameter vascular graft with fibroblast cells and electrospun poly (L-lactide-co-ε-caprolactone) scaffolds: Cell Matrix Engineering. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2018 , 29, 942-959	3.5	12
73	Effect of platelet-rich plasma with self-assembled peptide on the rotator cuff tear model in rat. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2017 , 11, 77-85	4.4	11
72	Simultaneous microfluidic spinning of multiple strands of submicron fiber for the production of free-standing porous membranes for biological application. <i>Biofabrication</i> , 2017 , 9, 025026	10.5	11
71	Creation of polylactide vascular scaffolds with high compressive strength using a novel melt-tube drawing method. <i>Polymer</i> , 2019 , 166, 130-137	3.9	11
70	Extracellular pH modulating injectable gel for enhancing immune checkpoint inhibitor therapy. <i>Journal of Controlled Release</i> , 2019 , 315, 65-75	11.7	11

69	Enhanced Cartilaginous Tissue Formation with a Cell Aggregate-Fibrin-Polymer Scaffold Complex. <i>Polymers</i> , 2017 , 9,	4.5	11
68	Development of an Anisotropically Organized Brain dECM Hydrogel-Based 3D Neuronal Culture Platform for Recapitulating the Brain Microenvironment in Vivo. <i>ACS Biomaterials Science and Engineering</i> , 2020 , 6, 610-620	5.5	11
67	An Advanced Class of Bio-Hybrid Materials: Bionanocomposites of Inorganic Clays and Organic Stereocomplex Polylactides. <i>Macromolecular Materials and Engineering</i> , 2013 , 298, 263-269	3.9	10
66	Preparation of topographically modified poly(L-lactic acid)-b-Poly(e-caprolactone)-b-poly(L-lactic acid) tri-block copolymer film surfaces and its blood compatibility. <i>Macromolecular Research</i> , 2014 , 22, 1229-1237	1.9	10
65	A novel seamless elastic scaffold for vascular tissue engineering. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2010 , 21, 289-302	3.5	10
64	Effects of Pressure and Temperature on the Kinetics of L-Lactide Polymerization in Supercritical Chlorodifluoromethane. <i>Macromolecules</i> , 2004 , 37, 3564-3568	5.5	10
63	Expandable and implantable bioelectronic complex for analyzing and regulating real-time activity of the urinary bladder. <i>Science Advances</i> , 2020 , 6,	14.3	10
62	Biodegradable blends of stereocomplex polylactide and lignin by supercritical carbon dioxide-solvent system. <i>Macromolecular Research</i> , 2014 , 22, 74-78	1.9	9
61	Synthesis and characterization of the biodegradable and elastic terpolymer poly(glycolide-co-L-lactide-co-ε-caprolactone) for mechano-active tissue engineering. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2013 , 24, 386-97	3.5	9
60	Fibroblast culture on poly(L-lactide-co-ε-caprolactone) an electrospun nanofiber sheet. <i>Macromolecular Research</i> , 2012 , 20, 1234-1242	1.9	9
59	Synergistic effect of biochemical factors and strain on the smooth muscle cell differentiation of adipose-derived stem cells on an elastic nanofibrous scaffold. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2012 , 23, 1579-93	3.5	9
58	Effect of molecular orientation on biodegradability of poly(glycolide-co-ε-caprolactone). <i>Polymer Degradation and Stability</i> , 2003 , 80, 223-232	4.7	9
57	The effect of Substance P/Heparin conjugated PLCL polymer coating of bioinert ePTFE vascular grafts on the recruitment of both ECs and SMCs for accelerated regeneration. <i>Scientific Reports</i> , 2019 , 9, 17083	4.9	9
56	Supercritical fluid technology parameters affecting size and behavior of stereocomplex polylactide particles and their composites. <i>Polymer Engineering and Science</i> , 2018 , 58, 1193-1200	2.3	9
55	cardiac regeneration by using neuropeptide substance P and IGF-1C peptide eluting heart patches. <i>International Journal of Energy Production and Management</i> , 2018 , 5, 303-316	5.3	9
54	Stem Cells Seeded on Multilayered Scaffolds Implanted into an Injured Bladder Rat Model Improves Bladder Function. <i>Tissue Engineering and Regenerative Medicine</i> , 2019 , 16, 201-212	4.5	8
53	Bioinspired adhesive coating on PET film for antifouling surface modification. <i>Macromolecular Research</i> , 2014 , 22, 203-209	1.9	8
52	Mechanical properties of compliant double layered poly(L-lactide-co-ε-caprolactone) vascular graft. <i>Macromolecular Research</i> , 2013 , 21, 886-891	1.9	8

51	Bioinspired self-adhesive polymer for surface modification to improve antifouling property 2013 , 10, 811-819		8
50	Magnetic properties of one-dimensional embedded nickel nanostructures in gold nanowires. <i>Current Applied Physics</i> , 2012 , 12, 65-68	2.6	8
49	Three-Dimensional Vascularized Lung Cancer-on-a-Chip with Lung Extracellular Matrix Hydrogels for In Vitro Screening. <i>Cancers</i> , 2021 , 13,	6.6	8
48	The use of microfluidic spinning fiber as an ophthalmology suture showing the good anastomotic strength control. <i>Scientific Reports</i> , 2017 , 7, 16264	4.9	7
47	Ring-opening polymerization of L-lactide and preparation of its microsphere in supercritical fluids. <i>Macromolecular Bioscience</i> , 2004 , 4, 340-5	5.5	7
46	Organ-Level Functional 3D Tissue Constructs with Complex Compartments and their Preclinical Applications. <i>Advanced Materials</i> , 2020 , 32, e2002096	24	7
45	In situ blood vessel regeneration using neuropeptide substance P-conjugated small-diameter vascular grafts. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2019 , 107, 1669-1683	3.5	7
44	Synergism of cellulosic nanowhiskers and graft structure in stereocomplex-based materials: formation in solution and a stereocomplex memory study. <i>Cellulose</i> , 2014 , 21, 2539-2548	5.5	6
43	Synthesis of poly(D-lactide) with different molecular weight via melt-polymerization. <i>Macromolecular Research</i> , 2012 , 20, 515-519	1.9	6
42	A dynamically cultured collagen/cells-incorporated elastic scaffold for small-diameter vascular grafts. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2012 , 23, 1807-20	3.5	6
41	A Faster Approach to Stereocomplex Formation of High Molecular Weight Polylactide Using Supercritical Dimethyl Ether. <i>Porrime</i> , 2015 , 39, 453-460	1	6
40	Enhanced Regeneration of Vascularized Adipose Tissue with Dual 3D-Printed Elastic Polymer/dECM Hydrogel Complex. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	6
39	Stereocomplex Polylactide for Drug Delivery and Biomedical Applications: A Review. <i>Molecules</i> , 2021 , 26,	4.8	6
38	Covalent immobilization of MSC-affinity peptide on poly(L-lactide-co-ε-caprolactone) copolymer to enhance stem cell adhesion and retention for tissue engineering applications. <i>Macromolecular Research</i> , 2016 , 24, 986-994	1.9	6
37	Use of Elastic, Porous, and Ultrathin Co-Culture Membranes to Control the Endothelial Barrier Function via Cell Alignment. <i>Advanced Functional Materials</i> , 2021 , 31, 2008172	15.6	6
36	TGF-β encapsulated PLCL scaffold by supercritical CO ₂ -HFIP co-solvent system for cartilage tissue engineering. <i>Journal of Controlled Release</i> , 2015 , 213, e100-1	11.7	5
35	Two S-wave gap symmetry for single crystals of the superconductor BaFe _{1.8} Co _{0.2} As ₂ . <i>Physica C: Superconductivity and Its Applications</i> , 2010 , 470, S506-S507	1.3	5
34	Substance P/Heparin-Conjugated PLCL Mitigate Acute Gliosis on Neural Implants and Improve Neuronal Regeneration via Recruitment of Neural Stem Cells. <i>Advanced Healthcare Materials</i> , 2021 , 10, e2100107	10.1	5

33	pH-Triggered Silk Fibroin/Alginate Structures Fabricated in Aqueous Two-Phase System. <i>ACS Biomaterials Science and Engineering</i> , 2019 , 5, 5897-5905	5.5	4
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