Cato T Laurencin

List of Publications by Year
in descending order

310 papers	29,672 citations	9234 74 h-index	5519 163 g-index
324 all docs	324 docs citations	324 times ranked	28164 citing authors

#	Article	IF	Citations
1	Biodegradable polymers as biomaterials. Progress in Polymer Science, 2007, 32, 762-798.	11.8	3,688
2	Electrospun nanofibrous structure: A novel scaffold for tissue engineering. Journal of Biomedical Materials Research Part B, 2002, 60, 613-621.	3.0	2,134
3	Bone Tissue Engineering: Recent Advances and Challenges. Critical Reviews in Biomedical Engineering, 2012, 40, 363-408.	0.5	1,758
4	Biomedical applications of biodegradable polymers. Journal of Polymer Science, Part B: Polymer Physics, 2011, 49, 832-864.	2.4	1,718
5	Progress in 3D bioprinting technology for tissue/organ regenerative engineering. Biomaterials, 2020, 226, 119536.	5.7	631
6	Bioresorbable nanofiber-based systems for wound healing and drug delivery: Optimization of fabrication parameters. Journal of Biomedical Materials Research Part B, 2004, 70B, 286-296.	3.0	587
7	The COVID-19 Pandemic: a Call to Action to Identify and Address Racial and Ethnic Disparities. Journal of Racial and Ethnic Health Disparities, 2020, 7, 398-402.	1.8	579
8	Bone-Graft Substitutes: Facts, Fictions, and Applications. Journal of Bone and Joint Surgery - Series A, 2001, 83, 98-103.	1.4	556
9	Bone graft substitutes. Expert Review of Medical Devices, 2006, 3, 49-57.	1.4	524
10	Electrospun poly(lactic acid-co-glycolic acid) scaffolds for skin tissue engineering. Biomaterials, 2008, 29, 4100-4107.	5.7	512
11	Fiber-based tissue-engineered scaffold for ligament replacement: design considerations and in vitro evaluation. Biomaterials, 2005, 26, 1523-1532.	5.7	428
12	Tissue Engineering of Bone: Material and Matrix Considerations. Journal of Bone and Joint Surgery - Series A, 2008, 90, 36-42.	1.4	417
13	Electrospinning of polymer nanofibers for tissue regeneration. Progress in Polymer Science, 2015, 46, 1-24.	11.8	406
14	Animal models of osteoarthritis: classification, update, and measurement of outcomes. Journal of Orthopaedic Surgery and Research, 2016, 11, 19.	0.9	375
15	Curcuminâ€loaded poly(Îµâ€caprolactone) nanofibres: Diabetic wound dressing with antiâ€oxidant and antiâ€inflammatory properties. Clinical and Experimental Pharmacology and Physiology, 2009, 36, 1149-1156.	0.9	364
16	Poly (lactic acid)-based biomaterials for orthopaedic regenerative engineering. Advanced Drug Delivery Reviews, 2016, 107, 247-276.	6.6	342
17	Anterior cruciate ligament regeneration using braided biodegradable scaffolds: in vitro optimization studies. Biomaterials, 2005, 26, 4805-4816.	5.7	338
18	Three-dimensional, bioactive, biodegradable, polymer-bioactive glass composite scaffolds with improved mechanical properties support collagen synthesis and mineralization of human osteoblast-like cellsin vitro. Journal of Biomedical Materials Research Part B, 2003, 64A, 465-474.	3.0	317

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19	Nanobiomaterial applications in orthopedics. Journal of Orthopaedic Research, 2007, 25, 11-22.	1.2	316
20	Polymers as Biomaterials for Tissue Engineering and Controlled Drug Delivery. , 2006, 102, 47-90.		285
21	Biomaterials for Bone Regenerative Engineering. Advanced Healthcare Materials, 2015, 4, 1268-1285.	3.9	280
22	Ligament tissue engineering: An evolutionary materials science approach. Biomaterials, 2005, 26, 7530-7536.	5.7	278
23	Bioreactor-based bone tissue engineering: The influence of dynamic flow on osteoblast phenotypic expression and matrix mineralization. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 11203-11208.	3.3	270
24	In vitro evaluation of chitosan/poly(lactic acid-glycolic acid) sintered microsphere scaffolds for bone tissue engineering. Biomaterials, 2006, 27, 4894-4903.	5.7	260
25	Biodegradable Piezoelectric Force Sensor. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 909-914.	3.3	259
26	Tissue engineered microsphere-based matrices for bone repair:. Biomaterials, 2002, 23, 551-559.	5.7	255
27	Polysaccharide biomaterials for drug delivery and regenerative engineering. Polymers for Advanced Technologies, 2014, 25, 448-460.	1.6	236
28	Studies of bone morphogenetic protein-based surgical repair. Advanced Drug Delivery Reviews, 2012, 64, 1277-1291.	6.6	218
29	Tissue engineering of the anterior cruciate ligament using a braidâ€“twist scaffold design. Journal of Biomechanics, 2007, 40, 2029-2036.	0.9	187
30	Polyphosphazene/Nano-Hydroxyapatite Composite Microsphere Scaffolds for Bone Tissue Engineering. Biomacromolecules, 2008, 9, 1818-1825.	2.6	184
31	A highly porous 3-dimensional polyphosphazene polymer matrix for skeletal tissue regeneration. , 1996, 30, 133-138.		181
32	Induction of angiogenesis in tissue-engineered scaffolds designed for bone repair: A combined gene therapyâ€“cell transplantation approach. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 11099-11104.	3.3	178
33	Development of novel tissue engineering scaffolds via electrospinning. Expert Opinion on Biological Therapy, 2004, 4, 659-668.	1.4	175
34	Biomimetic tissue-engineered anterior cruciate ligament replacement. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 3049-3054.	3.3	170
35	Use of polyphosphazenes for skeletal tissue regeneration. Journal of Biomedical Materials Research Part B, 1993, 27, 963-973.	3.0	167
36	Three-dimensional degradable porous polymer-ceramic matrices for use in bone repair. Journal of Biomaterials Science, Polymer Edition, 1996, 7, 661-669.	1.9	162

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37	Fabrication and Optimization of Methylphenoxy Substituted Polyphosphazene Nanofibers for Biomedical Applications. Biomacromolecules, 2004, 5, 2212-2220.	2.6	162
38	Tissue engineered bone-regeneration using degradable polymers: The formation of mineralized matrices. Bone, 1996, 19, S93-S99.	1.4	153
39	Effect of Side Group Chemistry on the Properties of Biodegradablel-Alanine Cosubstituted Polyphosphazenes. Biomacromolecules, 2006, 7, 914-918.	2.6	149
40	A novel amorphous calcium phosphate polymer ceramic for bone repair: I. Synthesis and characterization. Journal of Biomedical Materials Research Part B, 2001, 58, 295-301.	3.0	148
41	Chitosanâ€"poly(lactide-co-glycolide) microsphere-based scaffolds for bone tissue engineering: In vitro degradation and in vivo bone regeneration studies. Acta Biomaterialia, 2010, 6, 3457-3470.	4.1	141
42	The sintered microsphere matrix for bone tissue engineering:In vitro osteoconductivity studies. Journal of Biomedical Materials Research Part B, 2002, 61, 421-429.	3.0	136
43	Biomimetic Structures: Biological Implications of Dipeptideâ€Substituted Polyphosphazeneâ€"Polyester Blend Nanofiber Matrices for Loadâ€Bearing Bone Regeneration. Advanced Functional Materials, 2011, 21, 2641-2651.	7.8	129
44	Delivery of small molecules for bone regenerative engineering: preclinical studies and potential clinical applications. Drug Discovery Today, 2014, 19, 794-800.	3.2	128
45	Novel polymer-synthesized ceramic composite-based system for bone repair: Anin vitro evaluation. Journal of Biomedical Materials Research Part B, 2004, 69A, 728-737.	3.0	127
46	Proximal Humerus Fracture Rehabilitation. Clinical Orthopaedics and Related Research, 2006, 442, 131-138.	0.7	126
47	Polyphosphazene polymers for tissue engineering: an analysis of material synthesis, characterization and applications. Soft Matter, 2010, 6, 3119.	1.2	123
48	Synthesis and Characterization of Degradable Poly(anhydride-co-imides). Macromolecules, 1995, 28, 2184-2193.	2.2	122
49	Degradable polyphosphazene/poly(Î±-hydroxyester) blends: degradation studies. Biomaterials, 2002, 23, 1667-1672.	5.7	113
50	Biologically Active Chitosan Systems for Tissue Engineering and Regenerative Medicine. Current Topics in Medicinal Chemistry, 2008, 8, 354-364.	1.0	113
51	Small-molecule based musculoskeletal regenerative engineering. Trends in Biotechnology, 2014, 32, 74-81.	4.9	111
52	Development of Injectable Thermogelling Chitosanâ€"Inorganic Phosphate Solutions for Biomedical Applications. Biomacromolecules, 2007, 8, 3779-3785.	2.6	108
53	Optimally Porous and Biomechanically Compatible Scaffolds for Large-Area Bone Regeneration. Tissue Engineering - Part A, 2012, 18, 1376-1388.	1.6	108
54	Regenerative Engineering. Science Translational Medicine, 2012, 4, 160ed9.	5.8	107

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55	Micro- and nanofabrication of chitosan structures for regenerative engineering. Acta Biomaterialia, 2014, 10, 1632-1645.	4.1	102
56	Polymeric Nanofibers as Novel Carriers for the Delivery of Therapeutic Molecules. Journal of Nanoscience and Nanotechnology, 2006, 6, 2591-2607.	0.9	101
57	Evaluation of the anterior cruciate ligament, medial collateral ligament, achilles tendon and patellar tendon as cell sources for tissue-engineered ligament. Biomaterials, 2006, 27, 2747-2754.	5.7	99
58	Fabrication, characterization, and <i>in vitro</i> evaluation of poly(lactic acid glycolic) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 627 Td (aci rotating bioreactors. Journal of Biomedical Materials Research - Part A, 2009, 91A, 679-691.	2.1	99
59	Microsphere-Based Scaffolds in Regenerative Engineering. Annual Review of Biomedical Engineering, 2017, 19, 135-161.	5.7	98
60	Synthesis, characterization of chitosans and fabrication of sintered chitosan microsphere matrices for bone tissue engineering. Acta Biomaterialia, 2007, 3, 503-514.	4.1	96
61	Cellulose and Collagen Derived Micro-Nano Structured Scaffolds for Bone Tissue Engineering. Journal of Biomedical Nanotechnology, 2013, 9, 719-731.	0.5	96
62	A Pandemic on a Pandemic: Racism and COVID-19 in Blacks. Cell Systems, 2020, 11, 9-10.	2.9	96
63	Demineralized bone matrix gelatin as scaffold for osteochondral tissue engineering. Biomaterials, 2006, 27, 2426-2433.	5.7	95
64	Mechanical properties and osteocompatibility of novel biodegradable alanine based polyphosphazenes: Side group effects. Acta Biomaterialia, 2010, 6, 1931-1937.	4.1	92
65	Miscibility and in vitro osteocompatibility of biodegradable blends of poly[(ethyl alanato) (p-phenyl) Tj ETQq1 1 0.784314 rgBT /Overl	5.7	91
66	Dipeptide-based polyphosphazene and polyester blends for bone tissue engineering. Biomaterials, 2010, 31, 4898-4908.	5.7	91
67	Polymeric Biomaterials for Scaffold-Based Bone Regenerative Engineering. Regenerative Engineering and Translational Medicine, 2019, 5, 128-154.	1.6	91
68	Emergence of the Stem Cell Secretome in Regenerative Engineering. Trends in Biotechnology, 2020, 38, 1373-1384.	4.9	90
69	The role of small molecules in musculoskeletal regeneration. Regenerative Medicine, 2012, 7, 535-549.	0.8	89
70	Exercise-induced piezoelectric stimulation for cartilage regeneration in rabbits. Science Translational Medicine, 2022, 14, eabi7282.	5.8	88
71	The Impact of Biomechanics in Tissue Engineering and Regenerative Medicine. Tissue Engineering - Part B: Reviews, 2009, 15, 477-484.	2.5	87
72	Nanostructured Polymeric Scaffolds for Orthopaedic Regenerative Engineering. IEEE Transactions on Nanobioscience, 2012, 11, 3-14.	2.2	84

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73	Adenovirus-mediated expression of growth and differentiation factor-5 promotes chondrogenesis of adipose stem cells. Growth Factors, 2008, 26, 132-142.	0.5	83
74	Ectopic induction of cartilage and bone by water-soluble proteins from bovine bone using a polyanhydride delivery vehicle. Journal of Biomedical Materials Research Part B, 1990, 24, 901-911.	3.0	81
75	Novel polyphosphazene/poly(lactide-co-glycolide) blends: miscibility and degradation studies. Biomaterials, 1997, 18, 1565-1569.	5.7	80
76	Solvent/nonâ€solvent sintering: A novel route to create porous microsphere scaffolds for tissue regeneration. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2008, 86B, 396-406.	1.6	80
77	Functionalized carbon nanotube reinforced scaffolds for bone regenerative engineering: fabrication, <i>in vitro</i> and <i>in vivo</i> evaluation. Biomedical Materials (Bristol), 2014, 9, 035001.	1.7	78
78	Nanofibers and Nanoparticles for Orthopaedic Surgery Applications. Journal of Bone and Joint Surgery - Series A, 2008, 90, 128-131.	1.4	77
79	Electrospun Nanofibrous Scaffolds for Engineering Soft Connective Tissues. Methods in Molecular Biology, 2011, 726, 243-258.	0.4	76
80	Preliminaryin vivo report on the osteocompatibility of poly(anhydride-co-imides) evaluated in a tibial model. Journal of Biomedical Materials Research Part B, 1998, 43, 374-379.	3.0	73
81	Differential analysis of peripheral bloodâ€•and bone marrowâ€derived endothelial progenitor cells for enhanced vascularization in bone tissue engineering. Journal of Orthopaedic Research, 2012, 30, 1507-1515.	1.2	73
82	In vivo biodegradability and biocompatibility evaluation of novel alanine ester based polyphosphazenes in a rat model. Journal of Biomedical Materials Research - Part A, 2006, 77A, 679-687.	2.1	72
83	An American Crisis: the Lack of Black Men in Medicine. Journal of Racial and Ethnic Health Disparities, 2017, 4, 317-321.	1.8	72
84	Poly(anhydride-co-imides): in vivo biocompatibility in a rat model. Biomaterials, 1998, 19, 941-951.	5.7	70
85	In Vitro and In Vivo Characterization of Biodegradable Poly(organophosphazenes) for Biomedical Applications. Journal of Inorganic and Organometallic Polymers and Materials, 2007, 16, 365-385.	1.9	70
86	Mouse growth and differentiation factor-5 protein and DNA therapy potentiates intervertebral disc cell aggregation and chondrogenic gene expression. Spine Journal, 2008, 8, 287-295.	0.6	68
87	Nanofiber Technology for Regenerative Engineering. ACS Nano, 2020, 14, 9347-9363.	7.3	68
88	Evaluation of a hydrogelâ€“fiber composite for ACL tissue engineering. Journal of Biomechanics, 2011, 44, 694-699.	0.9	67
89	Recent Patents on Electrospun Biomedical Nanostructures: An Overview. Recent Patents on Biomedical Engineering, 2008, 1, 68-78.	0.5	66
90	Spiralâ€structured, nanofibrous, 3D scaffolds for bone tissue engineering. Journal of Biomedical Materials Research - Part A, 2010, 93A, 753-762.	2.1	65

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91	Growth factor delivery strategies for rotator cuff repair and regeneration. International Journal of Pharmaceutics, 2018, 544, 358-371.	2.6	65
92	Xenotransplantation in Orthopaedic Surgery. Journal of the American Academy of Orthopaedic Surgeons, The, 2008, 16, 4-8.	1.1	65
93	Racial Profiling Is a Public Health and Health Disparities Issue. Journal of Racial and Ethnic Health Disparities, 2020, 7, 393-397.	1.8	64
94	Structural and nanoindentation studies of stem cell-based tissue-engineered bone. Journal of Biomechanics, 2007, 40, 399-411.	0.9	62
95	A chitosan thermogel for delivery of ropivacaine in regional musculoskeletal anesthesia. Biomaterials, 2013, 34, 2539-2546.	5.7	62
96	Integrin expression by human osteoblasts cultured on degradable polymeric materials applicable for tissue engineered bone. Journal of Orthopaedic Research, 2002, 20, 20-28.	1.2	61
97	Controlled macromolecule release from poly(phosphazene) matrices. Journal of Controlled Release, 1996, 40, 31-39.	4.8	60
98	Phosphate graphene as an intrinsically osteoinductive scaffold for stem cell-driven bone regeneration. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 4855-4860.	3.3	59
99	Fabrication and characterization of mechanically competent 3D printed polycaprolactone-reduced graphene oxide scaffolds. Scientific Reports, 2020, 10, 22210.	1.6	59
100	Amorphous hydroxyapatite-sintered polymeric scaffolds for bone tissue regeneration: Physical characterization studies. Journal of Biomedical Materials Research - Part A, 2008, 84A, 54-62.	2.1	57
101	Polyphosphazene functionalized polyester fiber matrices for tendon tissue engineering: <i>in vitro</i> evaluation with human mesenchymal stem cells. Biomedical Materials (Bristol), 2012, 7, 045016.	1.7	57
102	Engineered stem cell niche matrices for rotator cuff tendon regenerative engineering. PLoS ONE, 2017, 12, e0174789.	1.1	57
103	Development of Tripolymeric Triaxial Electrospun Fibrous Matrices for Dual Drug Delivery Applications. Scientific Reports, 2020, 10, 609.	1.6	57
104	Nanocomposites and bone regeneration. Frontiers of Materials Science, 2011, 5, 342-357.	1.1	56
105	Miscibility of Bioerodible Polyphosphazene/Poly(lactide-co-glycolide) Blends. Biomacromolecules, 2007, 8, 1306-1312.	2.6	55
106	In situ Porous Structures: A Unique Polymer Erosion Mechanism in Biodegradable Dipeptideâ€Based Polyphosphazene and Polyester Blends Producing Matrices for Regenerative Engineering. Advanced Functional Materials, 2010, 20, 2794-2806.	7.8	55
107	Nanofiber-based matrices for rotator cuff regenerative engineering. Acta Biomaterialia, 2019, 94, 64-81.	4.1	55
108	Addressing Justified Vaccine Hesitancy in the Black Community. Journal of Racial and Ethnic Health Disparities, 2021, 8, 543-546.	1.8	54

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109	The influence of side group modification in polyphosphazenes on hydrolysis and cell adhesion of blends with PLGA. Biomaterials, 2009, 30, 3035-3041.	5.7	53
110	Nanotechnology and orthopedics: a personal perspective. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2009, 1, 6-10.	3.3	53
111	In vitro bone formation using muscle-derived cells: a new paradigm for bone tissue engineering using polymerâ€“bone morphogenetic protein matrices. Biochemical and Biophysical Research Communications, 2003, 305, 882-889.	1.0	52
112	The small molecule PKA-specific cyclic AMP analogue as an inducer of osteoblast-like cells differentiation and mineralization. Journal of Tissue Engineering and Regenerative Medicine, 2012, 6, 40-48.	1.3	52
113	Biodegradable Polyphosphazene-Based Blends for Regenerative Engineering. Regenerative Engineering and Translational Medicine, 2017, 3, 15-31.	1.6	52
114	HIV/AIDS and the African-American Community: A State of Emergency. Journal of the National Medical Association, 2008, 100, 35-43.	0.6	51
115	Biodegradable Polyphosphazene-Nanohydroxyapatite Composite Nanofibers: Scaffolds for Bone Tissue Engineering. Journal of Biomedical Nanotechnology, 2009, 5, 69-75.	0.5	51
116	Design and Optimization of Polyphosphazene Functionalized Fiber Matrices for Soft Tissue Regeneration. Journal of Biomedical Nanotechnology, 2012, 8, 107-124.	0.5	51
117	Osteogenic differentiation of adipose-derived stromal cells treated with GDF-5 cultured on a novel three-dimensional sintered microsphere matrix. Spine Journal, 2006, 6, 615-623.	0.6	50
118	Grapheneâ€Based Biomaterials for Bone Regenerative Engineering: A Comprehensive Review of the Field and Considerations Regarding Biocompatibility and Biodegradation. Advanced Healthcare Materials, 2021, 10, e2001414.	3.9	50
119	Synthesis, characterization, and osteocompatibility evaluation of novel alanine-based polyphosphazenes. Journal of Biomedical Materials Research - Part A, 2006, 76A, 206-213.	2.1	48
120	Polyphosphazenes Containing Vitamin Substituents: Synthesis, Characterization, and Hydrolytic Sensitivity. Macromolecules, 2011, 44, 1355-1364.	2.2	48
121	Regenerative Engineering of Cartilage Using Adipose-Derived Stem Cells. Regenerative Engineering and Translational Medicine, 2015, 1, 42-49.	1.6	47
122	Regenerative Engineering for Knee Osteoarthritis Treatment: Biomaterials and Cell-Based Technologies. Engineering, 2017, 3, 16-27.	3.2	47
123	Proliferation, morphology, and protein expression by osteoblasts cultured on poly(anhydride-co-imides). Journal of Biomedical Materials Research Part B, 1999, 48, 322-327.	3.0	46
124	A preliminary report on a novel electrospray technique for nanoparticle based biomedical implants coating: Precision electrospraying. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2007, 81B, 91-103.	1.6	46
125	Biomimetic, bioactive etheric polyphosphazeneâ€poly(lactideâ€<i>co</i>â€glycolide) blends for bone tissue engineering. Journal of Biomedical Materials Research - Part A, 2010, 92A, 114-125.	2.1	46
126	In vitro bone biocompatibility of poly(anhydride-co-imides) containing pyromellitylimidoalanine. Journal of Orthopaedic Research, 1996, 14, 445-454.	1.2	44

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127	Immunofluorescence and confocal laser scanning microscopy studies of osteoblast growth and phenotypic expression in three-dimensional degradable synthetic matrices. Journal of Biomedical Materials Research Part B, 1995, 29, 843-848.	3.0	43
128	Simple Signaling Molecules for Inductive Bone Regenerative Engineering. PLoS ONE, 2014, 9, e101627.	1.1	41
129	Regenerative Engineering: Approaches to Limb Regeneration and Other Grand Challenges. Regenerative Engineering and Translational Medicine, 2015, 1, 1-3.	1.6	41
130	Tissue Engineering of the Anterior Cruciate Ligament: The Viscoelastic Behavior and Cell Viability of a Novel Braidâ€“Twist Scaffold. Journal of Biomaterials Science, Polymer Edition, 2009, 20, 1709-1728.	1.9	40
131	VEGFâ€•incorporated biomimetic poly(lactideâ€•<i>co</i>â€•glycolide) sintered microsphere scaffolds for bone tissue engineering. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2012, 100B, 2187-2196.	1.6	40
132	Generational biodegradable and regenerative polyphosphazene polymers and their blends with poly (lactic-co-glycolic acid). Progress in Polymer Science, 2019, 98, 101146.	11.8	40
133	Injectable amnion hydrogel-mediated delivery of adipose-derived stem cells for osteoarthritis treatment. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	3.3	39
134	Cytotoxicity testing of poly(anhydride-co-imides) for orthopedic applications. Journal of Biomedical Materials Research Part B, 1995, 29, 1233-1240.	3.0	38
135	Polyphosphazenes That Contain Dipeptide Side Groups: Synthesis, Characterization, and Sensitivity to Hydrolysis. Macromolecules, 2009, 42, 636-639.	2.2	38
136	Miscibility of choline-substituted polyphosphazenes with PLGA and osteoblast activity on resulting blends. Biomaterials, 2010, 31, 8507-8515.	5.7	38
137	Bioinspired Scaffold Designs for Regenerating Musculoskeletal Tissue Interfaces. Regenerative Engineering and Translational Medicine, 2020, 6, 451-483.	1.6	38
138	Human osteoblast cells: Isolation, characterization, and growth on polymers for musculoskeletal tissue engineering. Journal of Biomedical Materials Research - Part A, 2006, 76A, 439-449.	2.1	37
139	2010 Panel on the Biomaterials Grand Challenges. Journal of Biomedical Materials Research - Part A, 2011, 96A, 275-287.	2.1	37
140	Evaluating the feasibility of utilizing the small molecule phenamil as a novel biofactor for bone regenerative engineering. Journal of Tissue Engineering and Regenerative Medicine, 2014, 8, 728-736.	1.3	37
141	Biomimetic Electroconductive Nanofibrous Matrices for Skeletal Muscle Regenerative Engineering. Regenerative Engineering and Translational Medicine, 2020, 6, 228-237.	1.6	37
142	Composite scaffolds: Bridging nanofiber and microsphere architectures to improve bioactivity of mechanically competent constructs. Journal of Biomedical Materials Research - Part A, 2010, 95A, 1150-1158.	2.1	35
143	Polymeric Electrospinning for Musculoskeletal Regenerative Engineering. Regenerative Engineering and Translational Medicine, 2016, 2, 69-84.	1.6	35
144	Osteoblast culture on bioerodible polymers: studies of initial cell adhesion and spread. Polymers for Advanced Technologies, 1992, 3, 359-364.	1.6	34

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145	Insulin immobilized PCLâ€cellulose acetate microâ€nanostructured fibrous scaffolds for tendon tissue engineering. Polymers for Advanced Technologies, 2019, 30, 1205-1215.	1.6	34
146	The formation of propylene fumarate oligomers for use in bioerodible bone cement composites. Journal of Polymer Science Part A, 1990, 28, 973-985.	2.5	33
147	Novel Nanostructured Scaffolds as Therapeutic Replacement Options for Rotator Cuff Disease. Journal of Bone and Joint Surgery - Series A, 2010, 92, 170-179.	1.4	33
148	Improved bioâ€implant using ultrafast laser induced selfâ€assembled nanotexture in titanium. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2011, 97B, 299-305.	1.6	33
149	Synthesis and Characterization of Polyphosphazene-<i>block</i>-polyester and Polyphosphazene-<i>block</i>-polycarbonate Macromolecules. Macromolecules, 2008, 41, 1126-1130.	2.2	32
150	Novel matrix based anterior cruciate ligament (ACL) regeneration. Soft Matter, 2010, 6, 5016.	1.2	32
151	Pain management via local anesthetics and responsive hydrogels. Therapeutic Delivery, 2015, 6, 165-176.	1.2	32
152	The Quest toward limb regeneration: a regenerative engineering approach. International Journal of Energy Production and Management, 2016, 3, 123-125.	1.9	32
153	Cryopreservation of tissue engineered constructs for bone. Journal of Orthopaedic Research, 2003, 21, 1005-1010.	1.2	31
154	Electrospinning of Poly[bis(ethyl alanato) phosphazene] Nanofibers. Journal of Biomedical Nanotechnology, 2006, 2, 36-45.	0.5	31
155	Functionalization of chitosan/poly(lactic acidâ€glycolic acid) sintered microsphere scaffolds via surface heparinization for bone tissue engineering. Journal of Biomedical Materials Research - Part A, 2010, 93A, 1193-1208.	2.1	31
156	Human endothelial cell growth and phenotypic expression on three dimensional poly(lactide-co-glycolide) sintered microsphere scaffolds for bone tissue engineering. Biotechnology and Bioengineering, 2007, 98, 1094-1102.	1.7	30
157	The past, present and future of ligament regenerative engineering. Regenerative Medicine, 2016, 11, 871-881.	0.8	30
158	Musculoskeletal Tissue Regeneration: the Role of the Stem Cells. Regenerative Engineering and Translational Medicine, 2017, 3, 133-165.	1.6	30
159	The Biocompatibility of Biodegradable Glycine Containing Polyphosphazenes: A Comparative study in Bone. Journal of Inorganic and Organometallic Polymers and Materials, 2007, 16, 387-396.	1.9	29
160	In Vitro Release of Colchicine Using Poly(phosphazenes): The Development of Delivery Systems for Musculoskeletal Use. Pharmaceutical Development and Technology, 1998, 3, 55-62.	1.1	28
161	The FDA and safetyâ€”beyond the heparin crisis. Nature Biotechnology, 2008, 26, 621-623.	9.4	28
162	Hydrolysable polylactideâ€“polyphosphazene block copolymers for biomedical applications: synthesis, characterization, and composites with poly(lactic-co-glycolic acid). Polymer Chemistry, 2010, 1, 1459.	1.9	28

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163	Nano-ceramic Composite Scaffolds for Bioreactor-based Bone Engineering. Clinical Orthopaedics and Related Research, 2013, 471, 2422-2433.	0.7	28
164	Mechanically superior matrices promote osteointegration and regeneration of anterior cruciate ligament tissue in rabbits. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 28655-28666.	3.3	28
165	Polyphosphazene polymers: The next generation of biomaterials for regenerative engineering and therapeutic drug delivery. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2020, 38, 030801.	0.6	28
166	The Implications of Polymer Selection in Regenerative Medicine: A Comparison of Amorphous and Semiâ€Crystalline Polymer for Tissue Regeneration. Advanced Functional Materials, 2009, 19, 1351-1359.	7.8	27
167	Porous Structures: In situ Porous Structures: A Unique Polymer Erosion Mechanism in Biodegradable Dipeptide-Based Polyphosphazene and Polyester Blends Producing Matrices for Regenerative Engineering (Adv. Funct. Mater. 17/2010). Advanced Functional Materials, 2010, 20, n/a-n/a.	7.8	27
168	The Mechanism of Metallosis After Total Hip Arthroplasty. Regenerative Engineering and Translational Medicine, 2021, 7, 247-261.	1.6	27
169	One-day treatment of small molecule 8-bromo-cyclic AMP analogue induces cell-based VEGF production for<i>in vitro</i>angiogenesis and osteoblastic differentiation. Journal of Tissue Engineering and Regenerative Medicine, 2016, 10, 867-875.	1.3	26
170	Skeletal Muscle Regenerative Engineering. Regenerative Engineering and Translational Medicine, 2019, 5, 233-251.	1.6	26
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