

Cato T Laurencin

List of Publications by Year in descending order

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Version: 2024-02-01

310
papers

29,672
citations

8755

75
h-index

5539

163
g-index

324
all docs

324
docs citations

324
times ranked

28164
citing authors

#	ARTICLE	IF	CITATIONS
1	Fentanyl, Heroin, and Cocaine Overdose Fatalities are Shifting to the Black Community: An Analysis of the State of Connecticut. <i>Journal of Racial and Ethnic Health Disparities</i> , 2022, 9, 722-730.	3.2	14
2	Regenerative Engineering Animal Models for Knee Osteoarthritis. <i>Regenerative Engineering and Translational Medicine</i> , 2022, 8, 284-297.	2.9	7
3	Stromal Vascular Fraction for Osteoarthritis of the Knee Regenerative Engineering. <i>Regenerative Engineering and Translational Medicine</i> , 2022, 8, 210-224.	2.9	14
4	Changes in COVID-19-Associated Deaths During a Year Among Blacks and Hispanics Compared to Whites in the State of Connecticut. <i>Journal of Racial and Ethnic Health Disparities</i> , 2022, 9, 2049-2055.	3.2	6
5	Regenerative Engineering Approaches to Scar-Free Skin Regeneration. <i>Regenerative Engineering and Translational Medicine</i> , 2022, 8, 225-247.	2.9	12
6	Injectable amnion hydrogel-mediated delivery of adipose-derived stem cells for osteoarthritis treatment. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	7.1	39
7	The synthetic artificial stem cell (SASC): Shifting the paradigm of cell therapy in regenerative engineering. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	7.1	18
8	Advanced graphene ceramics and their future in bone regenerative engineering. <i>International Journal of Applied Ceramic Technology</i> , 2022, 19, 893-905.	2.1	5
9	Exercise-induced piezoelectric stimulation for cartilage regeneration in rabbits. <i>Science Translational Medicine</i> , 2022, 14, eabi7282.	12.4	88
10	Pegylated insulin-like growth factor-1 biotherapeutic delivery promotes rotator cuff regeneration in a rat model. <i>Journal of Biomedical Materials Research - Part A</i> , 2022, 110, 1356-1371.	4.0	8
11	Biodegradable polyphosphazenes for regenerative engineering. <i>Journal of Materials Research</i> , 2022, 37, 1417-1428.	2.6	11
12	Ultra-low binder content 3D printed calcium phosphate graphene scaffolds as resorbable, osteoinductive matrices that support bone formation in vivo. <i>Scientific Reports</i> , 2022, 12, 6960.	3.3	9
13	The Role of Nanomaterials and Biological Agents on Rotator Cuff Regeneration. <i>Regenerative Engineering and Translational Medicine</i> , 2021, 7, 440-449.	2.9	10
14	Ligament Regenerative Engineering: Braiding Scalable and Tunable Bioengineered Ligaments Using a Bench-Top Braiding Machine. <i>Regenerative Engineering and Translational Medicine</i> , 2021, 7, 524-532.	2.9	24
15	Enhancing the Surface Properties of a Bioengineered Anterior Cruciate Ligament Matrix for Use with Point-of-Care Stem Cell Therapy. <i>Engineering</i> , 2021, 7, 153-161.	6.7	11
16	Minimally Invasive Cellular Therapies for Osteoarthritis Treatment. <i>Regenerative Engineering and Translational Medicine</i> , 2021, 7, 76-90.	2.9	13
17	The Treatment of Muscle Atrophy After Rotator Cuff Tears Using Electroconductive Nanofibrous Matrices. <i>Regenerative Engineering and Translational Medicine</i> , 2021, 7, 1-9.	2.9	12
18	COVID Highlights Another Crisis: Lack of Black Physicians and Scientists. <i>Med</i> , 2021, 2, 2-3.	4.4	4

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19	Graphene-Based Biomaterials for Bone Regenerative Engineering: A Comprehensive Review of the Field and Considerations Regarding Biocompatibility and Biodegradation. <i>Advanced Healthcare Materials</i> , 2021, 10, e2001414.	7.6	50
20	Addressing Justified Vaccine Hesitancy in the Black Community. <i>Journal of Racial and Ethnic Health Disparities</i> , 2021, 8, 543-546.	3.2	54
21	Control of mesenchymal cell fate via application of FGF-8b in vitro. <i>Stem Cell Research</i> , 2021, 51, 102155.	0.7	9
22	Excess Deaths Among Blacks and Latinx Compared to Whites During Covid-19. <i>Journal of Racial and Ethnic Health Disparities</i> , 2021, 8, 783-789.	3.2	15
23	In Vivo Evaluation of the Regenerative Capability of Glycylglycine Ethyl Ester-Substituted Polyphosphazene and Poly(lactic-co-glycolic acid) Blends: A Rabbit Critical-Sized Bone Defect Model. <i>ACS Biomaterials Science and Engineering</i> , 2021, 7, 1564-1572.	5.2	9
24	Regenerative engineering: a review of recent advances and future directions. <i>Regenerative Medicine</i> , 2021, 16, 495-512.	1.7	13
25	Kinetic degradation and biocompatibility evaluation of polycaprolactone-based biologics delivery matrices for regenerative engineering of the rotator cuff. <i>Journal of Biomedical Materials Research - Part A</i> , 2021, 109, 2137-2153.	4.0	9
26	The COVID-19 Vaccine and the Black Community: Addressing the Justified Questions. <i>Journal of Racial and Ethnic Health Disparities</i> , 2021, 8, 809-820.	3.2	4
27	The Mechanism of Metallosis After Total Hip Arthroplasty. <i>Regenerative Engineering and Translational Medicine</i> , 2021, 7, 247-261.	2.9	27
28	Enhancing the Surface Properties of a Bioengineered Anterior Cruciate Ligament Matrix for Use with Point-of-Care Stem Cell Therapy. <i>Engineering</i> , 2021, 7, 153-161.	6.7	4
29	Progress in 3D bioprinting technology for tissue/organ regenerative engineering. <i>Biomaterials</i> , 2020, 226, 119536.	11.4	631
30	Evaluation of a bioengineered ACL matrix's osteointegration with BMP-2 supplementation. <i>PLoS ONE</i> , 2020, 15, e0227181.	2.5	14
31	Regenerative engineered vascularized bone mediated by calcium peroxide. <i>Journal of Biomedical Materials Research - Part A</i> , 2020, 108, 1045-1057.	4.0	23
32	A Regenerative Polymer Blend Composed of Glycylglycine Ethyl Ester-Substituted Polyphosphazene and Poly(lactic-co-glycolic acid). <i>ACS Applied Polymer Materials</i> , 2020, 2, 1169-1179.	4.4	17
33	Bioinspired Scaffold Designs for Regenerating Musculoskeletal Tissue Interfaces. <i>Regenerative Engineering and Translational Medicine</i> , 2020, 6, 451-483.	2.9	38
34	Biomimetic Electroconductive Nanofibrous Matrices for Skeletal Muscle Regenerative Engineering. <i>Regenerative Engineering and Translational Medicine</i> , 2020, 6, 228-237.	2.9	37
35	Just in TIME: Trauma-Informed Medical Education. <i>Journal of Racial and Ethnic Health Disparities</i> , 2020, 7, 1046-1052.	3.2	24
36	Robust phenotypic maintenance of limb cells during heterogeneous culture in a physiologically relevant polymeric-based constructed graft system. <i>Scientific Reports</i> , 2020, 10, 11739.	3.3	5

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37	A Pandemic on a Pandemic: Racism and COVID-19 in Blacks. Cell Systems, 2020, 11, 9-10.	6.2	96
38	Nanofiber Technology for Regenerative Engineering. ACS Nano, 2020, 14, 9347-9363.	14.6	68
39	Graphene for regenerative engineering. International Journal of Ceramic Engineering & Science, 2020, 2, 140-143.	1.2	10
40	Bone Tissue Engineering. , 2020, , 1373-1388.		8
41	Biomedical applications of polyphosphazenes. Medical Devices & Sensors, 2020, 3, e10113.	2.7	9
42	National Academy of Engineering 2019 Simon Ramo Founders Award Remarks. Annals of Biomedical Engineering, 2020, 48, 2279-2280.	2.5	0
43	<scp>Thiopheneâ€based</scp> polyphosphazenes with tunable optoelectronic properties. Journal of Polymer Science, 2020, 58, 3294-3310.	3.8	4
44	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.	7.1	28
45	Fabrication and characterization of mechanically competent 3D printed polycaprolactone-reduced graphene oxide scaffolds. Scientific Reports, 2020, 10, 22210.	3.3	59
46	Black Lives Matter in Science Engineering and Medicine. Journal of Racial and Ethnic Health Disparities, 2020, 7, 1021-1034.	3.2	3
47	Preparation and characterization of amnion hydrogel and its synergistic effect with adipose derived stem cells towards IL1 β activated chondrocytes. Scientific Reports, 2020, 10, 18751.	3.3	24
48	Weâ€Are the First toâ€Applaud Youâ€Regarding Your Efforts inâ€COVID-19:â€A Messageâ€from the African Diaspora to Our Brothers and Sisters of Africa. Journal of Racial and Ethnic Health Disparities, 2020, 7, 587-589.	3.2	0
49	Matrix-Based Bone Regenerative Engineering. , 2020, , 135-148.		2
50	Unconscious Bias, Racism, and Trauma-Informed Policing: an Address and Message to the Connecticut Racial Profiling Prohibition Project Advisory Board. Journal of Racial and Ethnic Health Disparities, 2020, 7, 590-591.	3.2	2
51	Health CafÃ© Series: a Potential Platform to Reduce Health Disparities. Journal of Racial and Ethnic Health Disparities, 2020, 7, 592-594.	3.2	2
52	Spatial alignment of 3D printed scaffolds modulates genotypic expression in pre-osteoblasts. Materials Letters, 2020, 276, 128189.	2.6	7
53	Emergence of the Stem Cell Secretome in Regenerative Engineering. Trends in Biotechnology, 2020, 38, 1373-1384.	9.3	90
54	Regenerative Cell-Based Therapies: Cutting Edge, Bleeding Edge, and Off the Edge. Regenerative Engineering and Translational Medicine, 2020, 6, 78-89.	2.9	24

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55	Nail matrix regenerative engineering: in vitro evaluation of poly(lactide-co-glycolide)/gelatin fibrous substrates. Journal of Biomedical Materials Research - Part A, 2020, 108, 1136-1143.	4.0	4
56	Development of Tripolymeric Triaxial Electrospun Fibrous Matrices for Dual Drug Delivery Applications. Scientific Reports, 2020, 10, 609.	3.3	57
57	Racial Profiling Is a Public Health and Health Disparities Issue. Journal of Racial and Ethnic Health Disparities, 2020, 7, 393-397.	3.2	64
58	Sources of Variability in Clinical Translation of Regenerative Engineering Products: Insights from the National Academies Forum on Regenerative Medicine. Regenerative Engineering and Translational Medicine, 2020, 6, 1-6.	2.9	16
59	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.	3.2	579
60	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.	1.2	28
61	Racial Profiling Is a Public Health and Health Disparities Issue. , 2020, 7, 393.		1
62	Just in TIME: Trauma-Informed Medical Education. , 2020, 7, 1046.		1
63	Polymeric Biomaterials for Scaffold-Based Bone Regenerative Engineering. Regenerative Engineering and Translational Medicine, 2019, 5, 128-154.	2.9	91
64	Generational biodegradable and regenerative polyphosphazene polymers and their blends with poly (lactic-co-glycolic acid). Progress in Polymer Science, 2019, 98, 101146.	24.7	40
65	Medical Surprise Anticipation and Recognition Capability: A New Concept for Better Health Care. Journal of Racial and Ethnic Health Disparities, 2019, 6, 869-873.	3.2	5
66	Nanofiber-based matrices for rotator cuff regenerative engineering. Acta Biomaterialia, 2019, 94, 64-81.	8.3	55
67	Synthesis, Physicochemical Analysis, and Side Group Optimization of Degradable Dipeptide-Based Polyphosphazenes as Potential Regenerative Biomaterials. ACS Applied Polymer Materials, 2019, 1, 1568-1578.	4.4	24
68	Skeletal Muscle Regenerative Engineering. Regenerative Engineering and Translational Medicine, 2019, 5, 233-251.	2.9	26
69	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.	7.1	59
70	Insulin immobilized PCL-cellulose acetate micro-nanostructured fibrous scaffolds for tendon tissue engineering. Polymers for Advanced Technologies, 2019, 30, 1205-1215.	3.2	34
71	The context of diversity. Science, 2019, 366, 929-929.	12.6	5
72	Introduction to Regenerative Engineering. , 2019, , 624-630.		0

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73	Regenerative Engineering in the Field of Orthopedic Surgery. , 2019, , 201-213.		0
74	The Paracrine Effect of Adipose-Derived Stem Cells Inhibits IL-1 β -induced Inflammation in Chondrogenic Cells through the Wnt/ β 2-Catenin Signaling Pathway. Regenerative Engineering and Translational Medicine, 2018, 4, 35-41.	2.9	15
75	Biodegradable Piezoelectric Force Sensor. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 909-914.	7.1	259
76	Regenerative Engineering of the Rotator Cuff of the Shoulder. ACS Biomaterials Science and Engineering, 2018, 4, 751-786.	5.2	23
77	Regenerative Engineering-The Convergence Quest. MRS Advances, 2018, 3, 1665-1670.	0.9	3
78	Growth factor delivery strategies for rotator cuff repair and regeneration. International Journal of Pharmaceutics, 2018, 544, 358-371.	5.2	65
79	Injectable nanocomposite analgesic delivery system for musculoskeletal pain management. Acta Biomaterialia, 2018, 74, 280-290.	8.3	15
80	Polyphosphazene-Based Biomaterials for Regenerative Engineering. ACS Symposium Series, 2018, , 53-75.	0.5	10
81	Nanofiber/Microsphere Hybrid Matrices In Vivo for Bone Regenerative Engineering: A Preliminary Report. Regenerative Engineering and Translational Medicine, 2018, 4, 133-141.	2.9	19
82	HIV/AIDS and the African-American Community 2018: a Decade Call to Action. Journal of Racial and Ethnic Health Disparities, 2018, 5, 449-458.	3.2	18
83	HIV/AIDS and the African-American Community 2018: a Decade Call to Action. , 2018, 5, 449.		1
84	Biodegradable Polyphosphazene-Based Blends for Regenerative Engineering. Regenerative Engineering and Translational Medicine, 2017, 3, 15-31.	2.9	52
85	Inductive biomaterials for bone regeneration. Journal of Materials Research, 2017, 32, 1047-1060.	2.6	16
86	Engagement of the medical-technology sector with society. Science Translational Medicine, 2017, 9, .	12.4	3
87	Regenerative Engineering for Knee Osteoarthritis Treatment: Biomaterials and Cell-Based Technologies. Engineering, 2017, 3, 16-27.	6.7	47
88	An American Crisis: the Lack of Black Men in Medicine. Journal of Racial and Ethnic Health Disparities, 2017, 4, 317-321.	3.2	72
89	Harnessing cAMP signaling in musculoskeletal regenerative engineering. Drug Discovery Today, 2017, 22, 1027-1044.	6.4	10
90	Next Generation Devices and Technologies Through Regenerative Engineering. , 2017, , 21-28.		3

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91	Regenerative engineering and advanced materials science. MRS Bulletin, 2017, 42, 600-607.	3.5	2
92	Musculoskeletal Tissue Regeneration: the Role of the Stem Cells. Regenerative Engineering and Translational Medicine, 2017, 3, 133-165.	2.9	30
93	Microsphere-Based Scaffolds in Regenerative Engineering. Annual Review of Biomedical Engineering, 2017, 19, 135-161.	12.3	98
94	Regenerative Engineering of the Anterior Cruciate Ligament. Studies in Mechanobiology, Tissue Engineering and Biomaterials, 2017, , 391-410.	1.0	1
95	Engineered stem cell niche matrices for rotator cuff tendon regenerative engineering. PLoS ONE, 2017, 12, e0174789.	2.5	57
96	Biomimetic electroconductive scaffolds for muscle regenerative engineering. Advanced Materials Letters, 2017, 8, 587-591.	0.6	4
97	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.	2.7	26
98	Polymeric Electrospinning for Musculoskeletal Regenerative Engineering. Regenerative Engineering and Translational Medicine, 2016, 2, 69-84.	2.9	35
99	Poly (lactic acid)-based biomaterials for orthopaedic regenerative engineering. Advanced Drug Delivery Reviews, 2016, 107, 247-276.	13.7	342
100	Nanofiber technology: its transformative role in nanomedicine. Nanomedicine, 2016, 11, 1499-1501.	3.3	11
101	Nanotechnology Applications in Stem Cell Science for Regenerative Engineering. Journal of Nanoscience and Nanotechnology, 2016, 16, 8953-8965.	0.9	11
102	The past, present and future of ligament regenerative engineering. Regenerative Medicine, 2016, 11, 871-881.	1.7	30
103	Regenerative Engineering: Studies of the Rotator Cuff and other Musculoskeletal Soft Tissues. MRS Advances, 2016, 1, 1255-1263.	0.9	6
104	Short-term administration of small molecule phenamil induced a protracted osteogenic effect on osteoblast-like MC3T3-E1 cells. Journal of Tissue Engineering and Regenerative Medicine, 2016, 10, 518-526.	2.7	25
105	The Quest toward limb regeneration: a regenerative engineering approach. International Journal of Energy Production and Management, 2016, 3, 123-125.	3.7	32
106	Animal models of osteoarthritis: classification, update, and measurement of outcomes. Journal of Orthopaedic Surgery and Research, 2016, 11, 19.	2.3	375
107	Regenerative Engineering: Approaches to Limb Regeneration and Other Grand Challenges. Regenerative Engineering and Translational Medicine, 2015, 1, 1-3.	2.9	41
108	The Fight for the Elimination of Racial and Ethnic Health Disparities: Acknowledging the Work and Celebrating the Life of Mr. Louis Stokes. Journal of Racial and Ethnic Health Disparities, 2015, 2, 423-424.	3.2	0

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109	Pain management via local anesthetics and responsive hydrogels. <i>Therapeutic Delivery</i> , 2015, 6, 165-176.	2.2	32
110	Regenerative Engineering of Cartilage Using Adipose-Derived Stem Cells. <i>Regenerative Engineering and Translational Medicine</i> , 2015, 1, 42-49.	2.9	47
111	Regenerative engineering and bionic limbs. <i>Rare Metals</i> , 2015, 34, 143-155.	7.1	8
112	Biomaterials for Bone Regenerative Engineering. <i>Advanced Healthcare Materials</i> , 2015, 4, 1268-1285.	7.6	280
113	Electrospinning of polymer nanofibers for tissue regeneration. <i>Progress in Polymer Science</i> , 2015, 46, 1-24.	24.7	406
114	Simple Signaling Molecules for Inductive Bone Regenerative Engineering. <i>PLoS ONE</i> , 2014, 9, e101627.	2.5	41
115	Musculoskeletal Regenerative Engineering: Biomaterials, Structures, and Small Molecules. <i>Advances in Biomaterials</i> , 2014, 2014, 1-12.	0.2	5
116	Polyphosphazenes. , 2014, , 193-206.		5
117	Nanofiber-microsphere (nano-micro) matrices for bone regenerative engineering: a convergence approach toward matrix design. <i>International Journal of Energy Production and Management</i> , 2014, 1, 3-9.	3.7	17
118	Facile Fabrication of Polyanhydride/Anesthetic Nanoparticles with Tunable Release Kinetics. <i>Advanced Healthcare Materials</i> , 2014, 3, 843-847.	7.6	10
119	Nanofiber-permeated, hybrid polymer/ceramic scaffolds for guided cell behavior. <i>Materials Research Society Symposia Proceedings</i> , 2014, 1687, 24.	0.1	2
120	Composites and Structures for Regenerative Engineering. <i>Materials Research Society Symposia Proceedings</i> , 2014, 1621, 3-15.	0.1	3
121	The Evolution and Application of Regenerative Engineering. <i>Materials Research Society Symposia Proceedings</i> , 2014, 1687, 13.	0.1	1
122	Evaluating the feasibility of utilizing the small molecule phenamil as a novel biofactor for bone regenerative engineering. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2014, 8, 728-736.	2.7	37
123	Delivery of small molecules for bone regenerative engineering: preclinical studies and potential clinical applications. <i>Drug Discovery Today</i> , 2014, 19, 794-800.	6.4	128
124	Micro- and nanofabrication of chitosan structures for regenerative engineering. <i>Acta Biomaterialia</i> , 2014, 10, 1632-1645.	8.3	102
125	Polysaccharide biomaterials for drug delivery and regenerative engineering. <i>Polymers for Advanced Technologies</i> , 2014, 25, 448-460.	3.2	236
126	Racial and Ethnic Health Disparities: A Way Forward. <i>Journal of Racial and Ethnic Health Disparities</i> , 2014, 1, 1-1.	3.2	3

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127	Diversity 5.0: A Way Forward. Journal of Racial and Ethnic Health Disparities, 2014, 1, 67-68.	3.2	3
128	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.	3.3	78
129	Small-molecule based musculoskeletal regenerative engineering. Trends in Biotechnology, 2014, 32, 74-81.	9.3	111
130	Regulation of bone regeneration with approved small molecule compounds. Advances in Regenerative Biology, 2014, 1, 25276.	0.2	11
131	Electrospun Polymeric Nanofiber Scaffolds for Tissue Regeneration. , 2014, , 229-254.		0
132	BIOINSPIRED MATERIALS FOR BONE REGENERATIVE ENGINEERING. World Scientific Series in Nanoscience and Nanotechnology, 2014, , 947-967.	0.1	0
133	INNOVATIVE REGENERATIVE ENGINEERING TECHNOLOGIES FOR SOFT TISSUE REGENERATION. Technology and Innovation, 2014, 16, 195-214.	0.2	2
134	Nano-ceramic Composite Scaffolds for Bioreactor-based Bone Engineering. Clinical Orthopaedics and Related Research, 2013, 471, 2422-2433.	1.5	28
135	A chitosan thermogel for delivery of ropivacaine in regional musculoskeletal anesthesia. Biomaterials, 2013, 34, 2539-2546.	11.4	62
136	Cellulose and Collagen Derived Micro-Nano Structured Scaffolds for Bone Tissue Engineering. Journal of Biomedical Nanotechnology, 2013, 9, 719-731.	1.1	96
137	Editorial (Hot Topic:Bone Morphogenetic Proteins for Bone Regeneration and Their Alternatives). Current Pharmaceutical Design, 2013, 19, 3353-3353.	1.9	3
138	Nanostructured Composites for Bone Repair. Journal of Biomaterials and Tissue Engineering, 2013, 3, 426-439.	0.1	8
139	Polyphosphazenes as Biomaterials. , 2013, , 83-134.		2
140	Design and Optimization of Polyphosphazene Functionalized Fiber Matrices for Soft Tissue Regeneration. Journal of Biomedical Nanotechnology, 2012, 8, 107-124.	1.1	51
141	Poly(lactide-co-glycolide)-Hydroxyapatite Composites: The Development of Osteoinductive Scaffolds for Bone Regenerative Engineering. Materials Research Society Symposia Proceedings, 2012, 1417, 8.	0.1	3
142	Regenerative Engineering. Science Translational Medicine, 2012, 4, 160ed9.	12.4	107
143	Bone Tissue Engineering: Recent Advances and Challenges. Critical Reviews in Biomedical Engineering, 2012, 40, 363-408.	0.9	1,758
144	Nanostructured Polymeric Scaffolds for Orthopaedic Regenerative Engineering. IEEE Transactions on Nanobioscience, 2012, 11, 3-14.	3.3	84

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145	Injectable thermogelling chitosan for the local delivery of bone morphogenetic protein. Journal of Materials Science: Materials in Medicine, 2012, 23, 2141-2149.	3.6	17
146	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.	3.3	57
147	VEGF-incorporated biomimetic poly(lactide-co-glycolide) sintered microsphere scaffolds for bone tissue engineering. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2012, 100B, 2187-2196.	3.4	40
148	Studies of bone morphogenetic protein-based surgical repair. Advanced Drug Delivery Reviews, 2012, 64, 1277-1291.	13.7	218
149	Optimally Porous and Biomechanically Compatible Scaffolds for Large-Area Bone Regeneration. Tissue Engineering - Part A, 2012, 18, 1376-1388.	3.1	108
150	Vascularization of Biomaterials for Bone Tissue Engineering: Current Approaches and Major Challenges. Current Angiogenesis, 2012, 1, 180-191.	0.1	15
151	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.	2.7	52
152	The role of small molecules in musculoskeletal regeneration. Regenerative Medicine, 2012, 7, 535-549.	1.7	89
153	Differential analysis of peripheral blood- and bone marrow-derived endothelial progenitor cells for enhanced vascularization in bone tissue engineering. Journal of Orthopaedic Research, 2012, 30, 1507-1515.	2.3	73
154	Polyphosphazenes Containing Vitamin Substituents: Synthesis, Characterization, and Hydrolytic Sensitivity. Macromolecules, 2011, 44, 1355-1364.	4.8	48
155	Nanostructured Scaffolds for Bone Tissue Engineering. Studies in Mechanobiology, Tissue Engineering and Biomaterials, 2011, , 169-192.	1.0	6
156	Nanocomposites and bone regeneration. Frontiers of Materials Science, 2011, 5, 342-357.	2.2	56
157	Biomedical applications of biodegradable polymers. Journal of Polymer Science, Part B: Polymer Physics, 2011, 49, 832-864.	2.1	1,718
158	Activation of cyclic amp/protein kinase: A signaling pathway enhances osteoblast cell adhesion on biomaterials for regenerative engineering. Journal of Orthopaedic Research, 2011, 29, 602-608.	2.3	19
159	Biomimetic Structures: Biological Implications of Dipeptide-Substituted Polyphosphazene-Polyester Blend Nanofiber Matrices for Load-Bearing Bone Regeneration. Advanced Functional Materials, 2011, 21, 2641-2651.	14.9	129
160	2010 Panel on the Biomaterials Grand Challenges. Journal of Biomedical Materials Research - Part A, 2011, 96A, 275-287.	4.0	37
161	Improved bio-implant using ultrafast laser induced self-assembled nanotexture in titanium. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2011, 97B, 299-305.	3.4	33
162	Evaluation of a hydrogel-fiber composite for ACL tissue engineering. Journal of Biomechanics, 2011, 44, 694-699.	2.1	67

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163	Electrospun Nanofibrous Scaffolds for Engineering Soft Connective Tissues. <i>Methods in Molecular Biology</i> , 2011, 726, 243-258.	0.9	76
164	Current Patents on Osteoinductive Molecules for Bone Tissue Engineering. <i>Recent Patents on Biomedical Engineering</i> , 2011, 4, 153-167.	0.5	20
165	Novel Polymer-Ceramics for Bone Repair and Regeneration. <i>Recent Patents on Biomedical Engineering</i> , 2011, 4, 168-184.	0.5	19
166	Spiral-structured, nanofibrous, 3D scaffolds for bone tissue engineering. <i>Journal of Biomedical Materials Research - Part A</i> , 2010, 93A, 753-762.	4.0	65
167	Functionalization of chitosan/poly(lactic acid-glycolic acid) sintered microsphere scaffolds via surface heparinization for bone tissue engineering. <i>Journal of Biomedical Materials Research - Part A</i> , 2010, 93A, 1193-1208.	4.0	31
168	BIOMIMETIC MATRICES FOR INTEGRIN-MEDIATED CELL ADHESION. , 2010, , 247-284.		3
169	Biomimetic, bioactive etheric polyphosphazene-poly(lactide-co-glycolide) blends for bone tissue engineering. <i>Journal of Biomedical Materials Research - Part A</i> , 2010, 92A, 114-125.	4.0	46
170	Tissue-engineered matrices as functional delivery systems: Adsorption and release of bioactive proteins from degradable composite scaffolds. <i>Journal of Biomedical Materials Research - Part A</i> , 2010, 94A, 568-575.	4.0	10
171	Composite scaffolds: Bridging nanofiber and microsphere architectures to improve bioactivity of mechanically competent constructs. <i>Journal of Biomedical Materials Research - Part A</i> , 2010, 95A, 1150-1158.	4.0	35
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