

# Sander G C Leeuwenburgh

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

178  
papers

5,489  
citations

42  
h-index

67  
g-index

187  
ext. papers

6,279  
ext. citations

6.7  
avg, IF

5.8  
L-index

#	Paper	IF	Citations
178	Dual-functional porous and cisplatin-loaded polymethylmethacrylate cement for reconstruction of load-bearing bone defect kills bone tumor cells.. <i>Bioactive Materials</i> , <b>2022</b> , 15, 120-130	16.7	0
177	Colloidal hydrogels made of gelatin nanoparticles exhibit fast stress relaxation at strains relevant for cell activity. <i>Acta Biomaterialia</i> , <b>2021</b> ,	10.8	4
176	New insights into the biomimetic design and biomedical applications of bioengineered bone microenvironments. <i>APL Bioengineering</i> , <b>2021</b> , 5, 041507	6.6	1
175	Designing biomaterials for the delivery of RNA therapeutics to stimulate bone healing. <i>Materials Today Bio</i> , <b>2021</b> , 10, 100105	9.9	2
174	A systematic review and meta-analyses on animal models used in bone adhesive research. <i>Journal of Orthopaedic Research</i> , <b>2021</b> ,	3.8	2
173	Nanoclay Reinforced Biomaterials for Mending Musculoskeletal Tissue Disorders. <i>Advanced Healthcare Materials</i> , <b>2021</b> , 10, e2100217	10.1	4
172	Regenerating Critical Size Rat Segmental Bone Defects with a Self-Healing Hybrid Nanocomposite Hydrogel: Effect of Bone Condition and BMP-2 Incorporation. <i>Macromolecular Bioscience</i> , <b>2021</b> , 21, e2100088	5.5	1
171	A Practical Procedure for the Generation of Human Osteoclasts and Their Characterization. <i>Tissue Engineering - Part C: Methods</i> , <b>2021</b> , 27, 421-432	2.9	0
170	Calcium phosphate cement reinforced with poly (vinyl alcohol) fibers: An experimental and numerical failure analysis. <i>Acta Biomaterialia</i> , <b>2021</b> , 119, 458-471	10.8	3
169	Selenium-doped hydroxyapatite nanoparticles for potential application in bone tumor therapy. <i>Journal of Inorganic Biochemistry</i> , <b>2021</b> , 215, 111334	4.2	11
168	Bone tumor-targeted delivery of theranostic Pt-bisphosphonate complexes promotes killing of metastatic tumor cells. <i>Materials Today Bio</i> , <b>2021</b> , 9, 100088	9.9	7
167	Bone-adhesive barrier membranes based on alendronate-functionalized poly(2-oxazoline)s. <i>Journal of Materials Chemistry B</i> , <b>2021</b> , 9, 5848-5860	7.3	1
166	The Use of Fibers in Bone Tissue Engineering. <i>Tissue Engineering - Part B: Reviews</i> , <b>2021</b> ,	7.9	5
165	The molecular conformation of silk fibroin regulates osteogenic cell behavior by modulating the stability of the adsorbed protein-material interface. <i>Bone Research</i> , <b>2021</b> , 9, 13	13.3	5
164	Bone-Adhesive Hydrogels Based on Dual Crosslinked Poly(2-oxazoline)s. <i>Macromolecular Bioscience</i> , <b>2021</b> , 21, e2100257	5.5	3
163	Electrophoretic deposition of silk fibroin coatings with pre-defined architecture to facilitate precise control over drug delivery. <i>Bioactive Materials</i> , <b>2021</b> , 6, 4243-4254	16.7	5
162	A self-healable, moldable and bioactive biomaterial gum for personalised and wearable drug delivery. <i>Journal of Materials Chemistry B</i> , <b>2020</b> , 8, 4340-4356	7.3	6

161	Degradation and excretion of poly(2-oxazoline) based hemostatic materials. <i>Materialia</i> , <b>2020</b> , 12, 100763.2	2	2
160	Micro- and macromechanical characterization of the influence of surface-modification of poly(vinyl alcohol) fibers on the reinforcement of calcium phosphate cements. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , <b>2020</b> , 109, 103776	4.1	8
159	Preclinical evaluation of platinum-loaded hydroxyapatite nanoparticles in an embryonic zebrafish xenograft model. <i>Nanoscale</i> , <b>2020</b> , 12, 13582-13594	7.7	7
158	Pre-Clinical Evaluation of Biological Bone Substitute Materials for Application in Highly Loaded Skeletal Sites. <i>Biomolecules</i> , <b>2020</b> , 10,	5.9	3
157	Platinum-loaded, selenium-doped hydroxyapatite nanoparticles selectively reduce proliferation of prostate and breast cancer cells co-cultured in the presence of stem cells. <i>Journal of Materials Chemistry B</i> , <b>2020</b> , 8, 2792-2804	7.3	16
156	Targeting of radioactive platinum-bisphosphonate anticancer drugs to bone of high metabolic activity. <i>Scientific Reports</i> , <b>2020</b> , 10, 5889	4.9	9
155	Tough and injectable fiber reinforced calcium phosphate cement as an alternative to polymethylmethacrylate cement for vertebral augmentation: a biomechanical study. <i>Biomaterials Science</i> , <b>2020</b> , 8, 4239-4250	7.4	3
154	Piezoelectric Nano-Biomaterials for Biomedicine and Tissue Regeneration. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 1909045	15.6	115
153	Electrodeposited Assembly of Additive-Free Silk Fibroin Coating from Pre-Assembled Nanospheres for Drug Delivery. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 12018-12029	9.5	21
152	Stabilizing dental implants with a fiber-reinforced calcium phosphate cement: An in vitro and in vivo study. <i>Acta Biomaterialia</i> , <b>2020</b> , 110, 280-288	10.8	13
151	Experimental and numerical analysis on bending and tensile failure behavior of calcium phosphate cements. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , <b>2020</b> , 103, 103565	4.1	8
150	Pharmacological interventions targeting bone diseases in adjunction with bone grafting <b>2020</b> , 251-280		1
149	Sterilization effects on the handling and degradation properties of calcium phosphate cements containing poly (l-lactic-co-glycolic acid) porogens and carboxymethyl cellulose. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , <b>2019</b> , 107, 2216-2228	3.5	7
148	Hybrid particles derived from alendronate and bioactive glass for treatment of osteoporotic bone defects. <i>Journal of Materials Chemistry B</i> , <b>2019</b> , 7, 796-808	7.3	10
147	Quantitative imaging of platinum-based antitumor complexes in bone tissue samples using LA-ICP-MS. <i>Journal of Trace Elements in Medicine and Biology</i> , <b>2019</b> , 54, 98-102	4.1	10
146	Tough and Osteocompatible Calcium Phosphate Cements Reinforced with Poly(vinyl alcohol) Fibers. <i>ACS Biomaterials Science and Engineering</i> , <b>2019</b> , 5, 2491-2505	5.5	15
145	Calcium Phosphate Bioceramics and Cements <b>2019</b> , 591-611		6
144	Alendronate-Functionalized Poly(2-oxazoline)s with Tunable Affinity for Calcium Cations. <i>Biomacromolecules</i> , <b>2019</b> , 20, 2913-2921	6.9	8

143	Interfacial characterization of poly (vinyl alcohol) fibers embedded in a calcium phosphate cement matrix: An experimental and numerical investigation. <i>Acta Biomaterialia</i> , <b>2019</b> , 96, 582-593	10.8	6
142	Thermoresponsive Brushes Facilitate Effective Reinforcement of Calcium Phosphate Cements. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 26690-26703	9.5	6
141	Effect of mechanical loading and substrate elasticity on the osteogenic and adipogenic differentiation of mesenchymal stem cells. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , <b>2019</b> , 13, 2279-2290	4.4	8
140	A salt-based method to adapt stiffness and biodegradability of porous collagen scaffolds.. <i>RSC Advances</i> , <b>2019</b> , 9, 36742-36750	3.7	
139	Surface functionalization of polylactic acid fibers with alendronate groups does not improve the mechanical properties of fiber-reinforced calcium phosphate cements. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , <b>2019</b> , 90, 472-483	4.1	8
138	Self-Healing Biomaterials: From Molecular Concepts to Clinical Applications. <i>Advanced Materials Interfaces</i> , <b>2018</b> , 5, 1800118	4.6	51
137	Fiber-reinforced colloidal gels as injectable and moldable biomaterials for regenerative medicine. <i>Materials Science and Engineering C</i> , <b>2018</b> , 92, 143-150	8.3	11
136	Monitoring local delivery of vancomycin from gelatin nanospheres in zebrafish larvae. <i>International Journal of Nanomedicine</i> , <b>2018</b> , 13, 5377-5394	7.3	11
135	Porous titanium scaffolds with injectable hyaluronic acid-DBM gel for bone substitution in a rat critical-sized calvarial defect model. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , <b>2017</b> , 11, 2537-2548	4.4	7
134	Enzymatically biomineralized chitosan scaffolds for tissue-engineering applications. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , <b>2017</b> , 11, 1500-1513	4.4	19
133	Highly Elastic and Self-Healing Composite Colloidal Gels. <i>Advanced Materials</i> , <b>2017</b> , 29, 1604672	24	53
132	Bisphosphonate-Functionalized Imaging Agents, Anti-Tumor Agents and Nanocarriers for Treatment of Bone Cancer. <i>Advanced Healthcare Materials</i> , <b>2017</b> , 6, 1601119	10.1	29
131	Strontium doped calcium phosphate coatings on poly(etheretherketone) (PEEK) by pulsed electron deposition. <i>Surface and Coatings Technology</i> , <b>2017</b> , 319, 191-199	4.4	32
130	Incorporation of PLLA micro-fillers for mechanical reinforcement of calcium-phosphate cement. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , <b>2017</b> , 71, 286-294	4.1	24
129	Effect of surface alkali-based treatment of titanium implants on ability to promote in vitro mineralization and in vivo bone formation. <i>Acta Biomaterialia</i> , <b>2017</b> , 57, 511-523	10.8	56
128	Electrospun Nanofibrous Silk Fibroin Membranes Containing Gelatin Nanospheres for Controlled Delivery of Biomolecules. <i>Advanced Healthcare Materials</i> , <b>2017</b> , 6, 1700014	10.1	36
127	Nanostructured raspberry-like gelatin microspheres for local delivery of multiple biomolecules. <i>Acta Biomaterialia</i> , <b>2017</b> , 58, 67-79	10.8	10
126	Polyester fibers can be rendered calcium phosphate-binding by surface functionalization with bisphosphonate groups. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2017</b> , 105, 2335-2342	5.4	10

125	Composite Colloidal Gels Made of Bisphosphonate-Functionalized Gelatin and Bioactive Glass Particles for Regeneration of Osteoporotic Bone Defects. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1703438	15.6	45
124	Self-healing hydrogels formed by complexation between calcium ions and bisphosphonate-functionalized star-shaped polymers. <i>Macromolecules</i> , <b>2017</b> , 50, 8698-8706	5.5	29
123	Putty-like bone fillers based on CaP ceramics or Biosilicate combined with carboxymethylcellulose: Characterization, optimization, and evaluation. <i>Journal of Biomaterials Applications</i> , <b>2017</b> , 32, 276-288	2.9	5
122	Next Generation Hemostatic Materials Based on NHS-Ester Functionalized Poly(2-oxazoline)s. <i>Biomacromolecules</i> , <b>2017</b> , 18, 2529-2538	6.9	41
121	Acellular mineral deposition within injectable, dual-gelling hydrogels for bone tissue engineering. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2017</b> , 105, 110-117	5.4	7
120	Dual-functionalisation of gelatine nanoparticles with an anticancer platinum(II)Bisphosphonate complex and mineral-binding alendronate. <i>RSC Advances</i> , <b>2016</b> , 6, 113025-113037	3.7	7
119	Exploiting Bisphosphonate-Bioactive-Glass Interactions for the Development of Self-Healing and Bioactive Composite Hydrogels. <i>Macromolecular Rapid Communications</i> , <b>2016</b> , 37, 1952-1959	4.8	24
118	Synthesis of pH- and thermoresponsive poly(2-n-propyl-2-oxazoline) based copolymers. <i>Journal of Polymer Science Part A</i> , <b>2016</b> , 54, 1573-1582	2.5	31
117	Electrophoretic Deposition of Chitosan Coatings Modified with Gelatin Nanospheres To Tune the Release of Antibiotics. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 13785-92	9.5	66
116	Effect of Nano-HA/Collagen Composite Hydrogels on Osteogenic Behavior of Mesenchymal Stromal Cells. <i>Stem Cell Reviews and Reports</i> , <b>2016</b> , 12, 352-64	6.4	24
115	Influence of polymeric additives on the cohesion and mechanical properties of calcium phosphate cements. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2016</b> , 27, 58	4.5	14
114	Antibacterial effects of electrospun chitosan/poly(ethylene oxide) nanofibrous membranes loaded with chlorhexidine and silver. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , <b>2016</b> , 12, 1357-64	6	43
113	Increased acellular and cellular surface mineralization induced by nanogrooves in combination with a calcium-phosphate coating. <i>Acta Biomaterialia</i> , <b>2016</b> , 31, 368-377	10.8	22
112	Fibrous Hydrogels for Cell Encapsulation: A Modular and Supramolecular Approach. <i>PLoS ONE</i> , <b>2016</b> , 11, e0155625	3.7	15
111	Long-term evaluation of the degradation behavior of three apatite-forming calcium phosphate cements. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2016</b> , 104, 1072-81	5.4	28
110	Gelatin Nanoparticles with Enhanced Affinity for Calcium Phosphate. <i>Macromolecular Bioscience</i> , <b>2016</b> , 16, 717-29	5.5	14
109	Osteophilic properties of bone implant surface modifications in a cassette model on a decorticated goat spinal transverse process. <i>Acta Biomaterialia</i> , <b>2016</b> , 37, 195-205	10.8	16
108	Controlled Release of Chemotherapeutic Platinum-Bisphosphonate Complexes from Injectable Calcium Phosphate Cements. <i>Tissue Engineering - Part A</i> , <b>2016</b> , 22, 788-800	3.9	14

107	Top-Down Approach for the Preparation of Highly Porous PLLA Microcylinders. <i>ACS Biomaterials Science and Engineering</i> , <b>2016</b> , 2, 2099-2107	5.5	7
106	Nanofibrillar hydrogel scaffolds from recombinant protein-based polymers with integrin- and proteoglycan-binding domains. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2016</b> , 104, 3082-3092	5.4	12
105	Bisphosphonate-functionalized hyaluronic acid showing selective affinity for osteoclasts as a potential treatment for osteoporosis. <i>Biomaterials Science</i> , <b>2015</b> , 3, 1197-207	7.4	15
104	Effects of Stirring and Fluid Perfusion on the In Vitro Degradation of Calcium Phosphate Cement/PLGA Composites. <i>Tissue Engineering - Part C: Methods</i> , <b>2015</b> , 21, 1171-7	2.9	8
103	Preclinical evaluation of injectable bone substitute materials. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , <b>2015</b> , 9, 191-209	4.4	24
102	Hydroxyapatite nanocrystals functionalized with alendronate as bioactive components for bone implant coatings to decrease osteoclastic activity. <i>Applied Surface Science</i> , <b>2015</b> , 328, 516-524	6.7	46
101	Development of porous polyurethane/strontium-substituted hydroxyapatite composites for bone regeneration. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2015</b> , 103, 1930-9	5.4	21
100	Physicochemical properties and in vitro mineralization of porous polymethylmethacrylate cement loaded with calcium phosphate particles. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , <b>2015</b> , 103, 548-55	3.5	13
99	Influence of the Molecular Weight and Charge of Antibiotics on Their Release Kinetics From Gelatin Nanospheres. <i>Macromolecular Bioscience</i> , <b>2015</b> , 15, 901-11	5.5	18
98	Synergistic effects of bisphosphonate and calcium phosphate nanoparticles on peri-implant bone responses in osteoporotic rats. <i>Biomaterials</i> , <b>2014</b> , 35, 5482-90	15.6	66
97	Injectable biphasic calcium phosphate cements as a potential bone substitute. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , <b>2014</b> , 102, 415-22	3.5	33
96	Development of injectable organic/inorganic colloidal composite gels made of self-assembling gelatin nanospheres and calcium phosphate nanocrystals. <i>Acta Biomaterialia</i> , <b>2014</b> , 10, 508-19	10.8	49
95	Alginate-hydroxypropylcellulose hydrogel microbeads for alkaline phosphatase encapsulation. <i>Journal of Microencapsulation</i> , <b>2014</b> , 31, 68-76	3.4	11
94	Tuning the degradation rate of calcium phosphate cements by incorporating mixtures of polylactic-co-glycolic acid microspheres and glucono-delta-lactone microparticles. <i>Tissue Engineering - Part A</i> , <b>2014</b> , 20, 2870-82	3.9	19
93	Injectable composites based on biosilicate and alginate: handling and in vitro characterization. <i>RSC Advances</i> , <b>2014</b> , 4, 45778-45785	3.7	19
92	Injectable self-gelling composites for bone tissue engineering based on gellan gum hydrogel enriched with different bioglasses. <i>Biomedical Materials (Bristol)</i> , <b>2014</b> , 9, 045014	3.5	47
91	Enzymatic pH control for biomimetic deposition of calcium phosphate coatings. <i>Acta Biomaterialia</i> , <b>2014</b> , 10, 931-9	10.8	16
90	Genetically engineered silk-collagen-like copolymer for biomedical applications: production, characterization and evaluation of cellular response. <i>Acta Biomaterialia</i> , <b>2014</b> , 10, 3620-9	10.8	28

89	Substrate geometry directs the in vitro mineralization of calcium phosphate ceramics. <i>Acta Biomaterialia</i> , <b>2014</b> , 10, 661-9	10.8	24
88	Configurational effects of collagen/ALP coatings on enzyme immobilization and surface mineralization. <i>Applied Surface Science</i> , <b>2014</b> , 311, 292-299	6.7	8
87	Self-healing hybrid nanocomposites consisting of bisphosphonated hyaluronan and calcium phosphate nanoparticles. <i>Biomaterials</i> , <b>2014</b> , 35, 6918-29	15.6	107
86	Gelation and biocompatibility of injectable alginate-calcium phosphate gels for bone regeneration. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2014</b> , 102, 808-17	5.4	24
85	In vitro response to alkaline phosphatase coatings immobilized onto titanium implants using electrospray deposition or polydopamine-assisted deposition. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2014</b> , 102, 1102-9	5.4	15
84	Rapid screening of mineralization capacity of biomaterials by means of quantification of enzymatically deposited calcium phosphate. <i>Tissue Engineering - Part C: Methods</i> , <b>2014</b> , 20, 838-50	2.9	7
83	Tantalum oxide and barium sulfate as radiopacifiers in injectable calcium phosphate-poly(lactic-co-glycolic acid) cements for monitoring in vivo degradation. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2014</b> , 102, 141-9	5.4	13
82	Effects of physical and chemical treatments on the molecular weight and degradation of alginate-hydroxyapatite composites. <i>Macromolecular Bioscience</i> , <b>2014</b> , 14, 872-80	5.5	14
81	Enzymatic control of chitosan gelation for delivery of periodontal ligament cells. <i>Macromolecular Bioscience</i> , <b>2014</b> , 14, 1004-14	5.5	10
80	Interactions between inorganic and organic phases in bone tissue as a source of inspiration for design of novel nanocomposites. <i>Tissue Engineering - Part B: Reviews</i> , <b>2014</b> , 20, 173-88	7.9	51
79	Sustained delivery of biomolecules from gelatin carriers for applications in bone regeneration. <i>Therapeutic Delivery</i> , <b>2014</b> , 5, 943-58	3.8	14
78	Porous calcium phosphate cement for alveolar bone regeneration. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , <b>2014</b> , 8, 473-82	4.4	19
77	Accelerated calcium phosphate cement degradation due to incorporation of glucono-delta-lactone microparticles. <i>Tissue Engineering - Part A</i> , <b>2014</b> , 20, 378-88	3.9	23
76	Enzymatic mineralization of gellan gum hydrogel for bone tissue-engineering applications and its enhancement by polydopamine. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , <b>2014</b> , 8, 906-18	4.4	69
75	Physicochemical properties and applications of poly(lactic-co-glycolic acid) for use in bone regeneration. <i>Tissue Engineering - Part B: Reviews</i> , <b>2013</b> , 19, 380-90	7.9	97
74	Micro- and Nanospheres for Tissue Engineering <b>2013</b> , 202-219		
73	Acceleration of gelation and promotion of mineralization of chitosan hydrogels by alkaline phosphatase. <i>International Journal of Biological Macromolecules</i> , <b>2013</b> , 56, 122-32	7.9	36
72	Calcium-mediated secondary cross-linking of bisphosphonated oligo(poly(ethylene glycol) fumarate) hydrogels. <i>Macromolecular Bioscience</i> , <b>2013</b> , 13, 1308-13	5.5	9

71	Development of an in vitro confinement test to predict the clinical handling of polymer-based injectable bone substitutes. <i>Polymer Testing</i> , <b>2013</b> , 32, 1379-1384	4.5	5
70	Instructive coatings for biological guidance of bone implants. <i>Surface and Coatings Technology</i> , <b>2013</b> , 233, 91-98	4.4	42
69	Subcutaneous tissue response and osteogenic performance of calcium phosphate nanoparticle-enriched hydrogels in the tibial medullary cavity of guinea pigs. <i>Acta Biomaterialia</i> , <b>2013</b> , 9, 5464-74	10.8	20
68	Combined delivery of BMP-2 and bFGF from nanostructured colloidal gelatin gels and its effect on bone regeneration in vivo. <i>Journal of Controlled Release</i> , <b>2013</b> , 166, 172-81	11.7	130
67	1-step versus 2-step immobilization of alkaline phosphatase and bone morphogenetic protein-2 onto implant surfaces using polydopamine. <i>Tissue Engineering - Part C: Methods</i> , <b>2013</b> , 19, 610-9	2.9	26
66	Enhanced bone regeneration of cortical segmental bone defects using porous titanium scaffolds incorporated with colloidal gelatin gels for time- and dose-controlled delivery of dual growth factors. <i>Tissue Engineering - Part A</i> , <b>2013</b> , 19, 2605-14	3.9	75
65	In vitro and in vivo enzyme-mediated biomineralization of oligo(poly(ethylene glycol) fumarate hydrogels. <i>Macromolecular Bioscience</i> , <b>2013</b> , 13, 777-88	5.5	8
64	Biomimetic Mineralization of Hydrogel Biomaterials for Bone Tissue Engineering <b>2013</b> , 51-67		
63	Bulk physicochemical, interconnectivity, and mechanical properties of calcium phosphate cements-fibrin glue composites for bone substitute applications. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2013</b> , 101, 478-90	5.4	17
62	RANKL delivery from calcium phosphate containing PLGA microspheres. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2013</b> , 101, 3123-30	5.4	11
61	Sustained release of BMP-2 in bioprinted alginate for osteogenicity in mice and rats. <i>PLoS ONE</i> , <b>2013</b> , 8, e72610	3.7	146
60	Nanostructured Bioceramics. <i>Journal of Nanomaterials</i> , <b>2013</b> , 2013, 1-1	3.2	
59	Combining Osteochondral Stem Cells and Biodegradable Hydrogels for Bone Regeneration <b>2013</b> , 326-348		
58	Biodegradable Polymeric/Ceramic Composite Scaffolds to Regenerate Bone Tissue <b>2013</b> , 221-242		
57	Effect of calcium carbonate on hardening, physicochemical properties, and in vitro degradation of injectable calcium phosphate cements. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2012</b> , 100, 712-9	5.4	27
56	The use of micro- and nanospheres as functional components for bone tissue regeneration. <i>Tissue Engineering - Part B: Reviews</i> , <b>2012</b> , 18, 24-39	7.9	123
55	Synthesis and application of nanostructured calcium phosphate ceramics for bone regeneration. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , <b>2012</b> , 100, 2316-26	3.5	72
54	Local delivery of small and large biomolecules in craniomaxillofacial bone. <i>Advanced Drug Delivery Reviews</i> , <b>2012</b> , 64, 1152-64	18.5	44

53	Comparison of micro- vs. nanostructured colloidal gelatin gels for sustained delivery of osteogenic proteins: Bone morphogenetic protein-2 and alkaline phosphatase. <i>Biomaterials</i> , <b>2012</b> , 33, 8695-703	15.6	120
52	Surface Engineering for Bone Implants: A Trend from Passive to Active Surfaces. <i>Coatings</i> , <b>2012</b> , 2, 95-119	9	165
51	Enzymatic mineralization of hydrogels for bone tissue engineering by incorporation of alkaline phosphatase. <i>Macromolecular Bioscience</i> , <b>2012</b> , 12, 1077-89	5.5	66
50	Facilitating the mineralization of oligo(poly(ethylene glycol) fumarate) hydrogel by incorporation of hydroxyapatite nanoparticles. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2012</b> , 100, 1316-23	5.4	27
49	Enzymatically induced mineralization of platelet-rich fibrin. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2012</b> , 100, 1335-46	5.4	23
48	The osteoinductive potential of printable, cell-laden hydrogel-ceramic composites. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2012</b> , 100, 2412-20	5.4	17
47	Electrostatic Spray Deposition of Biomimetic Nanocrystalline Apatite Coatings onto Titanium. <i>Advanced Engineering Materials</i> , <b>2012</b> , 14, B13-B20	3.5	35
46	Influence of the pore generator on the evolution of the mechanical properties and the porosity and interconnectivity of a calcium phosphate cement. <i>Acta Biomaterialia</i> , <b>2012</b> , 8, 404-14	10.8	49
45	Characterization of $\beta$ -TCP Based Injectable Calcium Phosphate Cement as a Potential Bone Substitute. <i>Key Engineering Materials</i> , <b>2012</b> , 529-530, 157-160	0.4	1
44	Bone Regenerative Properties of Injectable Calcium Phosphate/PLGA Cement in an Alveolar Bone Defect. <i>Key Engineering Materials</i> , <b>2012</b> , 529-530, 300-303	0.4	1
43	Three different strategies to obtain porous calcium phosphate cements: comparison of performance in a rat skull bone augmentation model. <i>Tissue Engineering - Part A</i> , <b>2012</b> , 18, 1171-82	3.9	33
42	Adsorption of Alendronate onto Biomimetic Apatite Nanocrystals to Develop Drug Carrier Coating for Bone Implants. <i>Key Engineering Materials</i> , <b>2012</b> , 529-530, 475-479	0.4	1
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