

Jeroen van den Beucken

List of Publications by Citations

Source: <https://exaly.com/author-pdf/2538707/jeroen-van-den-beucken-publications-by-citations.pdf>

Version: 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

204
papers

6,120
citations

42
h-index

68
g-index

217
ext. papers

7,127
ext. citations

6.4
avg, IF

5.83
L-index

#	Paper	IF	Citations
204	Bioactive electrospun scaffolds delivering growth factors and genes for tissue engineering applications. <i>Pharmaceutical Research</i> , 2011 , 28, 1259-72	4.5	315
203	Nanobiomaterial applications in orthopedics. <i>Journal of Orthopaedic Research</i> , 2007 , 25, 11-22	3.8	278
202	Surface Engineering for Bone Implants: A Trend from Passive to Active Surfaces. <i>Coatings</i> , 2012 , 2, 95-119	2.9	165
201	Repair of osteochondral defects with biodegradable hydrogel composites encapsulating marrow mesenchymal stem cells in a rabbit model. <i>Acta Biomaterialia</i> , 2010 , 6, 39-47	10.8	144
200	Biocompatibility and degradation characteristics of PLGA-based electrospun nanofibrous scaffolds with nanoapatite incorporation. <i>Biomaterials</i> , 2012 , 33, 6604-14	15.6	134
199	Incorporation of stromal cell-derived factor-1 in PCL/gelatin electrospun membranes for guided bone regeneration. <i>Biomaterials</i> , 2013 , 34, 735-45	15.6	132
198	Fibrous scaffolds loaded with protein prepared by blend or coaxial electrospinning. <i>Acta Biomaterialia</i> , 2010 , 6, 4199-207	10.8	132
197	Hypoxia-mediated downregulation of miRNA biogenesis promotes tumour progression. <i>Nature Communications</i> , 2014 , 5, 5202	17.4	130
196	Concise review: cell-based strategies in bone tissue engineering and regenerative medicine. <i>Stem Cells Translational Medicine</i> , 2014 , 3, 98-107	6.9	117
195	Dual growth factor delivery from bilayered, biodegradable hydrogel composites for spatially-guided osteochondral tissue repair. <i>Biomaterials</i> , 2014 , 35, 8829-8839	15.6	112
194	Self-healing hybrid nanocomposites consisting of bisphosphonated hyaluronan and calcium phosphate nanoparticles. <i>Biomaterials</i> , 2014 , 35, 6918-29	15.6	107
193	Development of bone substitute materials: from Biocompatible to Instructive. <i>Journal of Materials Chemistry</i> , 2010 , 20, 8747		96
192	The osteogenic effect of electrosprayed nanoscale collagen/calcium phosphate coatings on titanium. <i>Biomaterials</i> , 2010 , 31, 2461-9	15.6	93
191	Macrophage type modulates osteogenic differentiation of adipose tissue MSCs. <i>Cell and Tissue Research</i> , 2017 , 369, 273-286	4.2	92
190	Osteogenicity of titanium implants coated with calcium phosphate or collagen type-I in osteoporotic rats. <i>Biomaterials</i> , 2013 , 34, 3747-57	15.6	89
189	The ability of a collagen/calcium phosphate scaffold to act as its own vector for gene delivery and to promote bone formation via transfection with VEGF(165). <i>Biomaterials</i> , 2010 , 31, 2893-902	15.6	89
188	Fabrication, characterization, and biological assessment of multilayered DNA-coatings for biomaterial purposes. <i>Biomaterials</i> , 2006 , 27, 691-701	15.6	89

187	Bone response and mechanical strength of rabbit femoral defects filled with injectable CaP cements containing TGF-beta 1 loaded gelatin microparticles. <i>Biomaterials</i> , 2008 , 29, 675-82	15.6	88
186	Coculture of osteoblasts and endothelial cells: optimization of culture medium and cell ratio. <i>Tissue Engineering - Part C: Methods</i> , 2011 , 17, 349-57	2.9	85
185	Two phases of disulfide bond formation have differing requirements for oxygen. <i>Journal of Cell Biology</i> , 2013 , 203, 615-27	7.3	84
184	Signaling pathways involved in osteogenesis and their application for bone regenerative medicine. <i>Tissue Engineering - Part B: Reviews</i> , 2015 , 21, 75-87	7.9	74
183	Functionalization of multilayered DNA-coatings with bone morphogenetic protein 2. <i>Journal of Controlled Release</i> , 2006 , 113, 63-72	11.7	72
182	Hard tissue formation of STRO-1-selected rat dental pulp stem cells in vivo. <i>Tissue Engineering - Part A</i> , 2009 , 15, 367-75	3.9	70
181	Evaluation of the biocompatibility of calcium phosphate cement/PLGA microparticle composites. <i>Journal of Biomedical Materials Research - Part A</i> , 2008 , 87, 760-9	5.4	68
180	Synergistic effects of bisphosphonate and calcium phosphate nanoparticles on peri-implant bone responses in osteoporotic rats. <i>Biomaterials</i> , 2014 , 35, 5482-90	15.6	66
179	Biomimetic modification of synthetic hydrogels by incorporation of adhesive peptides and calcium phosphate nanoparticles: in vitro evaluation of cell behavior. <i>European Cells and Materials</i> , 2011 , 22, 359-473	4.3	66
178	Development of a PCL-silica nanoparticles composite membrane for Guided Bone Regeneration. <i>Materials Science and Engineering C</i> , 2018 , 85, 154-161	8.3	64
177	The quantitative assessment of peri-implant bone responses using histomorphometry and micro-computed tomography. <i>Biomaterials</i> , 2009 , 30, 4539-49	15.6	64
176	The effect of platelet-rich plasma in vitro on primary cells: rat osteoblast-like cells and human endothelial cells. <i>Tissue Engineering - Part A</i> , 2010 , 16, 3159-72	3.9	61
175	Influence of surface microstructure and chemistry on osteoinduction and osteoclastogenesis by biphasic calcium phosphate discs. <i>European Cells and Materials</i> , 2015 , 29, 314-29	4.3	61
174	Electrosprayed Enzyme Coatings as Bioinspired Alternatives to Bioceramic Coatings for Orthopedic and Oral Implants. <i>Advanced Functional Materials</i> , 2009 , 19, 755-762	15.6	59
173	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> , 2017 , 57, 511-523	10.8	56
172	Mechanical aspects of dental implants and osseointegration: A narrative review. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2020 , 103, 103574	4.1	52
171	Development of injectable organic/inorganic colloidal composite gels made of self-assembling gelatin nanospheres and calcium phosphate nanocrystals. <i>Acta Biomaterialia</i> , 2014 , 10, 508-19	10.8	49
170	Incorporation of bioactive glass in calcium phosphate cement: An evaluation. <i>Acta Biomaterialia</i> , 2013 , 9, 5728-39	10.8	48

169	Coaxially electrospun scaffolds based on hydroxyl-functionalized poly(ϵ -caprolactone) and loaded with VEGF for tissue engineering applications. <i>Biomacromolecules</i> , 2012 , 13, 3650-60	6.9	47
168	Hydroxyapatite nanocrystals functionalized with alendronate as bioactive components for bone implant coatings to decrease osteoclastic activity. <i>Applied Surface Science</i> , 2015 , 328, 516-524	6.7	46
167	Differential loading methods for BMP-2 within injectable calcium phosphate cement. <i>Journal of Controlled Release</i> , 2012 , 164, 283-90	11.7	46
166	Composite Colloidal Gels Made of Bisphosphonate-Functionalized Gelatin and Bioactive Glass Particles for Regeneration of Osteoporotic Bone Defects. <i>Advanced Functional Materials</i> , 2017 , 27, 1703438	15.6	45
165	Local delivery of small and large biomolecules in craniomaxillofacial bone. <i>Advanced Drug Delivery Reviews</i> , 2012 , 64, 1152-64	18.5	44
164	Instructive coatings for biological guidance of bone implants. <i>Surface and Coatings Technology</i> , 2013 , 233, 91-98	4.4	42
163	Cell-Based Approaches in Periodontal Regeneration: A Systematic Review and Meta-Analysis of Periodontal Defect Models in Animal Experimental Work. <i>Tissue Engineering - Part B: Reviews</i> , 2015 , 21, 411-26	7.9	42
162	Calcium-phosphate-coated oral implants promote osseointegration in osteoporosis. <i>Journal of Dental Research</i> , 2013 , 92, 982-8	8.1	41
161	Osteochondral defect repair using bilayered hydrogels encapsulating both chondrogenically and osteogenically pre-differentiated mesenchymal stem cells in a rabbit model. <i>Osteoarthritis and Cartilage</i> , 2014 , 22, 1291-300	6.2	38
160	Calcium phosphate/poly(D,L-lactic-co-glycolic acid) composite bone substitute materials: evaluation of temporal degradation and bone ingrowth in a rat critical-sized cranial defect. <i>Clinical Oral Implants Research</i> , 2012 , 23, 151-159	4.8	38
159	In vitro responses to electrospayed alkaline phosphatase/calcium phosphate composite coatings. <i>Acta Biomaterialia</i> , 2009 , 5, 2773-82	10.8	38
158	The effect of alkaline phosphatase coated onto titanium alloys on bone responses in rats. <i>Biomaterials</i> , 2009 , 30, 6407-17	15.6	38
157	In vivo bone response and mechanical evaluation of electrospayed CaP nanoparticle coatings using the iliac crest of goats as an implantation model. <i>Acta Biomaterialia</i> , 2010 , 6, 2227-36	10.8	38
156	Combinatorial Surface Roughness Effects on Osteoclastogenesis and Osteogenesis. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 36652-36663	9.5	36
155	In vitro and in vivo angiogenic capacity of BM-MSCs/HUVECs and AT-MSCs/HUVECs cocultures. <i>Biofabrication</i> , 2014 , 6, 015005	10.5	35
154	Electrostatic Spray Deposition of Biomimetic Nanocrystalline Apatite Coatings onto Titanium. <i>Advanced Engineering Materials</i> , 2012 , 14, B13-B20	3.5	35
153	Incorporation of fast dissolving glucose porogens into an injectable calcium phosphate cement for bone tissue engineering. <i>Acta Biomaterialia</i> , 2017 , 50, 68-77	10.8	33
152	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> , 2012 , 18, 1171-82	3.9	33

151	Bone regenerative properties of injectable PGLA-CaP composite with TGF-beta1 in a rat augmentation model. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2007 , 1, 457-64	4.4	33
150	Cigarette smoke extract induces a phenotypic shift in epithelial cells; involvement of HIF1 β in mesenchymal transition. <i>PLoS ONE</i> , 2014 , 9, e107757	3.7	31
149	Multilayered DNA coatings: in vitro bioactivity studies and effects on osteoblast-like cell behavior. <i>Acta Biomaterialia</i> , 2007 , 3, 587-96	10.8	31
148	Titanium surfaces characteristics modulate macrophage polarization. <i>Materials Science and Engineering C</i> , 2019 , 95, 143-151	8.3	31
147	Alkaline phosphatase immobilization onto Bio-Gide \square and Bio-Oss \square for periodontal and bone regeneration. <i>Journal of Clinical Periodontology</i> , 2012 , 39, 546-55	7.7	30
146	Bone regenerative properties of rat, goat and human platelet-rich plasma. <i>International Journal of Oral and Maxillofacial Surgery</i> , 2009 , 38, 861-9	2.9	30
145	Bisphosphonate-Functionalized Imaging Agents, Anti-Tumor Agents and Nanocarriers for Treatment of Bone Cancer. <i>Advanced Healthcare Materials</i> , 2017 , 6, 1601119	10.1	29
144	Genetically engineered silk-collagen-like copolymer for biomedical applications: production, characterization and evaluation of cellular response. <i>Acta Biomaterialia</i> , 2014 , 10, 3620-9	10.8	28
143	Biological response to titanium implants coated with nanocrystals calcium phosphate or type 1 collagen in a dog model. <i>Clinical Oral Implants Research</i> , 2013 , 24, 475-83	4.8	28
142	Osteoporotic rat models for evaluation of osseointegration of bone implants. <i>Tissue Engineering - Part C: Methods</i> , 2014 , 20, 493-505	2.9	28
141	Long-term evaluation of the degradation behavior of three apatite-forming calcium phosphate cements. <i>Journal of Biomedical Materials Research - Part A</i> , 2016 , 104, 1072-81	5.4	28
140	Effect of a new bioactive fibrous glassy scaffold on bone repair. <i>Journal of Materials Science: Materials in Medicine</i> , 2015 , 26, 177	4.5	27
139	Biomaterials-aided mandibular reconstruction using in vivo bioreactors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 6954-6963	11.5	26
138	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> , 2013 , 19, 610-9	2.9	26
137	Evaluation of an orthotopically implanted calcium phosphate cement containing gelatin microparticles. <i>Journal of Biomedical Materials Research - Part A</i> , 2009 , 90, 372-9	5.4	26
136	Reconstruction of large mandibular defects using autologous tissues generated from in vivo bioreactors. <i>Acta Biomaterialia</i> , 2016 , 45, 72-84	10.8	25
135	Incorporation of PLLA micro-fillers for mechanical reinforcement of calcium-phosphate cement. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2017 , 71, 286-294	4.1	24
134	Autologously generated tissue-engineered bone flaps for reconstruction of large mandibular defects in an ovine model. <i>Tissue Engineering - Part A</i> , 2015 , 21, 1520-8	3.9	24

133	Preclinical evaluation of injectable bone substitute materials. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2015 , 9, 191-209	4.4	24
132	Effect of Nano-HA/Collagen Composite Hydrogels on Osteogenic Behavior of Mesenchymal Stromal Cells. <i>Stem Cell Reviews and Reports</i> , 2016 , 12, 352-64	6.4	24
131	Substrate geometry directs the in vitro mineralization of calcium phosphate ceramics. <i>Acta Biomaterialia</i> , 2014 , 10, 661-9	10.8	24
130	Gelation and biocompatibility of injectable alginate-calcium phosphate gels for bone regeneration. <i>Journal of Biomedical Materials Research - Part A</i> , 2014 , 102, 808-17	5.4	24
129	Effects of calcium phosphate composition in sputter coatings on in vitro and in vivo performance. <i>Journal of Biomedical Materials Research - Part A</i> , 2015 , 103, 300-10	5.4	23
128	Comparison of a resorbable magnesium implant in small and large growing-animal models. <i>Acta Biomaterialia</i> , 2018 , 78, 378-386	10.8	23
127	The in vivo performance of CaP/PLGA composites with varied PLGA microsphere sizes and inorganic compositions. <i>Acta Biomaterialia</i> , 2013 , 9, 7518-26	10.8	23
126	Cyto- and histocompatibility of multilayered DNA-coatings on titanium. <i>Journal of Biomedical Materials Research - Part A</i> , 2006 , 77, 202-11	5.4	23
125	Incorporation of Collagen from Marine Sponges (Spongins) into Hydroxyapatite Samples: Characterization and In Vitro Biological Evaluation. <i>Marine Biotechnology</i> , 2019 , 21, 30-37	3.4	23
124	Control of Matrix Stiffness Using Methacrylate-Gelatin Hydrogels for a Macrophage-Mediated Inflammatory Response. <i>ACS Biomaterials Science and Engineering</i> , 2020 , 6, 3091-3102	5.5	22
123	In vivo evaluation of bioactive glass-based coatings on dental implants in a dog implantation model. <i>Clinical Oral Implants Research</i> , 2014 , 25, 21-8	4.8	22
122	Diabetes Mellitus and Bone Regeneration: A Systematic Review and Meta-Analysis of Animal Studies. <i>Tissue Engineering - Part B: Reviews</i> , 2017 , 23, 471-479	7.9	21
121	Long-term biological performance of injectable and degradable calcium phosphate cement. <i>Biomedical Materials (Bristol)</i> , 2016 , 12, 015009	3.5	21
120	Anti-bacterial efficacy via drug-delivery system from layer-by-layer coating for percutaneous dental implant components. <i>Applied Surface Science</i> , 2019 , 488, 194-204	6.7	21
119	Periodontal tissue regeneration using enzymatically solidified chitosan hydrogels with or without cell loading. <i>Tissue Engineering - Part A</i> , 2015 , 21, 1066-76	3.9	20
118	Biomaterial strategies for stem cell maintenance during in vitro expansion. <i>Tissue Engineering - Part B: Reviews</i> , 2014 , 20, 340-54	7.9	20
117	Subcutaneous tissue response and osteogenic performance of calcium phosphate nanoparticle-enriched hydrogels in the tibial medullary cavity of guinea pigs. <i>Acta Biomaterialia</i> , 2013 , 9, 5464-74	10.8	20
116	Biomaterial-based possibilities for managing peri-implantitis. <i>Journal of Periodontal Research</i> , 2020 , 55, 165-173	4.3	20

115	Characterization and biocompatibility of a fibrous glassy scaffold. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2017 , 11, 1141-1151	4.4	19
114	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> , 2014 , 20, 2870-82	3.9	19
113	Adipose tissue-derived mesenchymal stem cells as monocultures or cocultures with human umbilical vein endothelial cells: performance in vitro and in rat cranial defects. <i>Journal of Biomedical Materials Research - Part A</i> , 2014 , 102, 1026-36	5.4	19
112	Characterization and in vitro evaluation of biphasic calcium pyrophosphate-tricalciumphosphate radio frequency magnetron sputter coatings. <i>Journal of Biomedical Materials Research - Part A</i> , 2008 , 84, 682-90	5.4	19
111	Calcium phosphate cements: Optimization toward biodegradability. <i>Acta Biomaterialia</i> , 2021 , 119, 6985	10.8	19
110	In vitro and in vivo effects of deoxyribonucleic acid-based coatings functionalized with vascular endothelial growth factor. <i>Tissue Engineering</i> , 2007 , 13, 711-20		18
109	Effect of calcium phosphate ceramic substrate geometry on mesenchymal stromal cell organization and osteogenic differentiation. <i>Biofabrication</i> , 2016 , 8, 025006	10.5	18
108	Alendronate release from calcium phosphate cement for bone regeneration in osteoporotic conditions. <i>Scientific Reports</i> , 2018 , 8, 15398	4.9	18
107	The performance of CPC/PLGA and Bio-Oss for bone regeneration in healthy and osteoporotic rats. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2018 , 106, 131-142	3.5	17
106	Biomaterial Property Effects on Platelets and Macrophages: An in Vitro Study. <i>ACS Biomaterials Science and Engineering</i> , 2017 , 3, 3318-3327	5.5	17
105	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> , 2020 , 8, 2792-2804	7.3	16
104	Multimodal pore formation in calcium phosphate cements. <i>Journal of Biomedical Materials Research - Part A</i> , 2018 , 106, 500-509	5.4	16
103	Incorporation of fast dissolving glucose porogens and poly(lactic-co-glycolic acid) microparticles within calcium phosphate cements for bone tissue regeneration. <i>Acta Biomaterialia</i> , 2018 , 78, 341-350	10.8	16
102	Novel pantothenate derivatives for anti-malarial chemotherapy. <i>Malaria Journal</i> , 2015 , 14, 169	3.6	16
101	Bone formation analysis: effect of quantification procedures on the study outcome. <i>Tissue Engineering - Part C: Methods</i> , 2012 , 18, 369-73	2.9	16
100	Osteophilic properties of bone implant surface modifications in a cassette model on a decorticated goat spinal transverse process. <i>Acta Biomaterialia</i> , 2016 , 37, 195-205	10.8	16
99	Tough and Osteocompatible Calcium Phosphate Cements Reinforced with Poly(vinyl alcohol) Fibers. <i>ACS Biomaterials Science and Engineering</i> , 2019 , 5, 2491-2505	5.5	15
98	Bisphosphonate-functionalized hyaluronic acid showing selective affinity for osteoclasts as a potential treatment for osteoporosis. <i>Biomaterials Science</i> , 2015 , 3, 1197-207	7.4	15

97	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> , 2014 , 102, 1102-9	5.4	15
96	Long-term survival of calcium phosphate-coated dental implants: a meta-analytical approach to the clinical literature. <i>Clinical Oral Implants Research</i> , 2013 , 24, 355-62	4.8	15
95	Processing and in vivo evaluation of multiphasic calcium phosphate cements with dual tricalcium phosphate phases. <i>Acta Biomaterialia</i> , 2012 , 8, 3500-8	10.8	15
94	Fibrous Hydrogels for Cell Encapsulation: A Modular and Supramolecular Approach. <i>PLoS ONE</i> , 2016 , 11, e0155625	3.7	15
93	Polymer-Based Local Antibiotic Delivery for Prevention of Polymicrobial Infection in Contaminated Mandibular Implants. <i>ACS Biomaterials Science and Engineering</i> , 2016 , 2, 558-566	5.5	15
92	Bone regeneration and gene expression in bone defects under healthy and osteoporotic bone conditions using two commercially available bone graft substitutes. <i>Biomedical Materials (Bristol)</i> , 2015 , 10, 035003	3.5	14
91	Osteogenic capacity of human BM-MSCs, AT-MSCs and their co-cultures using HUVECs in FBS and PL supplemented media. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2015 , 9, 779-88	4.4	14
90	Maxillary sinus floor augmentation with injectable calcium phosphate cements: a pre-clinical study in sheep. <i>Clinical Oral Implants Research</i> , 2013 , 24, 210-6	4.8	14
89	Tantalumpentoxide as a radiopacifier in injectable calcium phosphate cements for bone substitution. <i>Tissue Engineering - Part C: Methods</i> , 2011 , 17, 907-13	2.9	14
88	Macrophage behavior on multilayered DNA-coatings in vitro. <i>Journal of Biomedical Materials Research - Part A</i> , 2007 , 80, 612-20	5.4	14
87	Controlled Release of Chemotherapeutic Platinum-Bisphosphonate Complexes from Injectable Calcium Phosphate Cements. <i>Tissue Engineering - Part A</i> , 2016 , 22, 788-800	3.9	14
86	Stabilizing dental implants with a fiber-reinforced calcium phosphate cement: An in vitro and in vivo study. <i>Acta Biomaterialia</i> , 2020 , 110, 280-288	10.8	13
85	Non-glycosylated BMP-2 can induce ectopic bone formation at lower concentrations compared to glycosylated BMP-2. <i>Journal of Controlled Release</i> , 2012 , 159, 69-77	11.7	13
84	Role of oxygen consumption in hypoxia protection by translation factor depletion. <i>Journal of Experimental Biology</i> , 2013 , 216, 2283-92	3	13
83	Bone forming capacity of cell- and growth factor-based constructs at different ectopic implantation sites. <i>Journal of Biomedical Materials Research - Part A</i> , 2015 , 103, 439-50	5.4	13
82	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> , 2014 , 102, 141-9	5.4	13
81	Multimodal porogen platforms for calcium phosphate cement degradation. <i>Journal of Biomedical Materials Research - Part A</i> , 2019 , 107, 1713-1722	5.4	12
80	Technical Report: Correlation Between the Repair of Cartilage and Subchondral Bone in an Osteochondral Defect Using Bilayered, Biodegradable Hydrogel Composites. <i>Tissue Engineering - Part C: Methods</i> , 2015 , 21, 1216-25	2.9	12

79	Human periodontal ligament derived progenitor cells: effect of STRO-1 cell sorting and Wnt3a treatment on cell behavior. <i>BioMed Research International</i> , 2014 , 2014, 145423	3	12
78	Toward accelerated bone regeneration by altering poly(D,L-lactic-co-glycolic) acid porogen content in calcium phosphate cement. <i>Journal of Biomedical Materials Research - Part A</i> , 2016 , 104, 483-92	5.4	12
77	Nanofibrillar hydrogel scaffolds from recombinant protein-based polymers with integrin- and proteoglycan-binding domains. <i>Journal of Biomedical Materials Research - Part A</i> , 2016 , 104, 3082-3092	5.4	12
76	Efficiency of coculture with angiogenic cells or physiological BMP-2 administration on improving osteogenic differentiation and bone formation of MSCs. <i>Journal of Biomedical Materials Research - Part A</i> , 2019 , 107, 643-653	5.4	12
75	Coculture with monocytes/macrophages modulates osteogenic differentiation of adipose-derived mesenchymal stromal cells on poly(lactic-co-glycolic) acid/polycaprolactone scaffolds. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2019 , 13, 785-798	4.4	11
74	Residual stress evaluation within hydroxyapatite coatings of different micrometer thicknesses. <i>Surface and Coatings Technology</i> , 2015 , 266, 177-182	4.4	11
73	Size matters: effects of PLGA-microsphere size in injectable CPC/PLGA on bone formation. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2016 , 10, 669-78	4.4	11
72	RANKL delivery from calcium phosphate containing PLGA microspheres. <i>Journal of Biomedical Materials Research - Part A</i> , 2013 , 101, 3123-30	5.4	11
71	Comparison of different surface modifications for titanium implants installed into the goat iliac crest. <i>Clinical Oral Implants Research</i> , 2016 , 27, e57-67	4.8	11
70	Monitoring local delivery of vancomycin from gelatin nanospheres in zebrafish larvae. <i>International Journal of Nanomedicine</i> , 2018 , 13, 5377-5394	7.3	11
69	Periodontal regeneration via chemoattractive constructs. <i>Journal of Clinical Periodontology</i> , 2018 , 45, 851-860	7.7	11
68	Characterization and biological evaluation of the introduction of PLGA into biosilicate. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2017 , 105, 1063-1074	3.5	10
67	Polyester fibers can be rendered calcium phosphate-binding by surface functionalization with bisphosphonate groups. <i>Journal of Biomedical Materials Research - Part A</i> , 2017 , 105, 2335-2342	5.4	10
66	Hybrid particles derived from alendronate and bioactive glass for treatment of osteoporotic bone defects. <i>Journal of Materials Chemistry B</i> , 2019 , 7, 796-808	7.3	10
65	Complement proteins regulating macrophage polarisation on biomaterials. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019 , 181, 125-133	6	10
64	A lean magnesium-zinc-calcium alloy ZX00 used for bone fracture stabilization in a large growing-animal model. <i>Acta Biomaterialia</i> , 2020 , 113, 646-659	10.8	10
63	Enzymatic control of chitosan gelation for delivery of periodontal ligament cells. <i>Macromolecular Bioscience</i> , 2014 , 14, 1004-14	5.5	10
62	Targeting of radioactive platinum-bisphosphonate anticancer drugs to bone of high metabolic activity. <i>Scientific Reports</i> , 2020 , 10, 5889	4.9	9

61	The biological performance of injectable calcium phosphate/PLGA cement in osteoporotic rats. <i>Biomedical Materials (Bristol)</i> , 2013 , 8, 035012	3.5	9
60	A long-term controlled drug-delivery with anionic beta cyclodextrin complex in layer-by-layer coating for percutaneous implants devices. <i>Carbohydrate Polymers</i> , 2021 , 257, 117604	10.3	9
59	Efficacy of intraoperatively prepared cell-based constructs for bone regeneration. <i>Stem Cell Research and Therapy</i> , 2018 , 9, 283	8.3	9
58	Effect of monocytes/macrophages on the osteogenic differentiation of adipose-derived mesenchymal stromal cells in 3D co-culture spheroids. <i>Tissue and Cell</i> , 2017 , 49, 461-469	2.7	8
57	Spheroid formation and stemness preservation of human periodontal ligament cells on chitosan films. <i>Oral Diseases</i> , 2018 , 24, 1083-1092	3.5	8
56	Incorporation of simvastatin in PLLA membranes for guided bone regeneration: effect of thermal treatment on simvastatin release.. <i>RSC Advances</i> , 2018 , 8, 28546-28554	3.7	8
55	Configurational effects of collagen/ALP coatings on enzyme immobilization and surface mineralization. <i>Applied Surface Science</i> , 2014 , 311, 292-299	6.7	8
54	Tissue response to composite hydrogels for vertical bone augmentation in the rat. <i>Journal of Biomedical Materials Research - Part A</i> , 2014 , 102, 2079-88	5.4	8
53	In vitro and in vivo enzyme-mediated biomineralization of oligo(poly(ethylene glycol) fumarate hydrogels. <i>Macromolecular Bioscience</i> , 2013 , 13, 777-88	5.5	8
52	Preclinical evaluation of platinum-loaded hydroxyapatite nanoparticles in an embryonic zebrafish xenograft model. <i>Nanoscale</i> , 2020 , 12, 13582-13594	7.7	7
51	Acellular mineral deposition within injectable, dual-gelling hydrogels for bone tissue engineering. <i>Journal of Biomedical Materials Research - Part A</i> , 2017 , 105, 110-117	5.4	7
50	Influence of ceramic disk material, surface hemispheres, and SBF volume on in vitro mineralization. <i>Journal of Biomedical Materials Research - Part A</i> , 2015 , 103, 2740-6	5.4	7
49	Coupling between macrophage phenotype, angiogenesis and bone formation by calcium phosphates. <i>Materials Science and Engineering C</i> , 2021 , 122, 111948	8.3	7
48	Top-Down Approach for the Preparation of Highly Porous PLLA Microcylinders. <i>ACS Biomaterials Science and Engineering</i> , 2016 , 2, 2099-2107	5.5	7
47	Bone tumor-targeted delivery of theranostic Pt-bisphosphonate complexes promotes killing of metastatic tumor cells. <i>Materials Today Bio</i> , 2021 , 9, 100088	9.9	7
46	Comparative evaluation of the combined application of titanium implants and calcium phosphate bone substitutes in a rabbit model. <i>Clinical Oral Implants Research</i> , 2015 , 26, 1215-21	4.8	6
45	Fast dissolving glucose porogens for early calcium phosphate cement degradation and bone regeneration. <i>Biomedical Materials (Bristol)</i> , 2020 , 15, 025002	3.5	6
44	Coculture effects on the osteogenic differentiation of human mesenchymal stromal cells. <i>Tissue Engineering and Regenerative Medicine</i> , 2016 , 13, 713-723	4.5	6

43	Antiestoporotic Drugs to Promote Bone Regeneration Related to Titanium Implants: A Systematic Review and Meta-Analysis. <i>Tissue Engineering - Part B: Reviews</i> , 2019 , 25, 89-99	7.9	6
42	Influence of the incorporation of marine spongin into a Biosilicate [®] : an in vitro study. <i>Journal of Materials Science: Materials in Medicine</i> , 2019 , 30, 64	4.5	5
41	Early-stage macroporosity enhancement in calcium phosphate cements by inclusion of poly(N-vinylpyrrolidone) particles as a porogen. <i>Materials Today Communications</i> , 2020 , 23, 100901	2.5	5
40	Development of an in vitro confinement test to predict the clinical handling of polymer-based injectable bone substitutes. <i>Polymer Testing</i> , 2013 , 32, 1379-1384	4.5	5
39	Putty-like bone fillers based on CaP ceramics or Biosilicate [®] combined with carboxymethylcellulose: Characterization, optimization, and evaluation. <i>Journal of Biomaterials Applications</i> , 2017 , 32, 276-288	2.9	5
38	Comparison of cell-loading methods in hydrogel systems. <i>Journal of Biomedical Materials Research - Part A</i> , 2014 , 102, 935-46	5.4	5
37	In vivo bioactivity of DNA-based coatings: an experimental study in rats. <i>Journal of Biomedical Materials Research - Part A</i> , 2010 , 92, 931-41	5.4	5
36	DNA-Coatings: Bioactive Properties and Effects on Osteoblast-Like Cells. <i>Key Engineering Materials</i> , 2007 , 361-363, 605-608	0.4	4
35	Combined Treatment Effects Using Bioactive-Coated Implants and Ceramic Granulate in a Rabbit Femoral Condyle Model. <i>Clinical Implant Dentistry and Related Research</i> , 2016 , 18, 666-77	3.9	4
34	Pre-Clinical Evaluation of Biological Bone Substitute Materials for Application in Highly Loaded Skeletal Sites. <i>Biomolecules</i> , 2020 , 10,	5.9	3
33	Tough and injectable fiber reinforced calcium phosphate cement as an alternative to polymethylmethacrylate cement for vertebral augmentation: a biomechanical study. <i>Biomaterials Science</i> , 2020 , 8, 4239-4250	7.4	3
32	Localized mandibular infection affects remote in vivo bioreactor bone generation. <i>Biomaterials</i> , 2020 , 256, 120185	15.6	3
31	Bone Regeneration Using Antiestoporotic Drugs in Adjunction with Bone Grafting: A Meta-Analysis. <i>Tissue Engineering - Part B: Reviews</i> , 2019 , 25, 500-509	7.9	3
30	Evaluation of polydimethylsiloxane-based substrates for in vitro culture of human periodontal ligament cells. <i>Journal of Biomedical Materials Research - Part A</i> , 2019 , 107, 2796-2805	5.4	3
29	Evaluation of Peri-Implant Bone Grafting Around Surface-Porous Dental Implants: An In Vivo Study in a Goat Model. <i>Materials</i> , 2019 , 12,	3.5	3
28	Osteoporosis [Fracture healing and osseointegration. <i>Drug Discovery Today: Disease Models</i> , 2014 , 13, 3-9	1.3	3
27	A dynamic trajectory class model for intensive longitudinal categorical outcome. <i>Statistics in Medicine</i> , 2014 , 33, 2645-64	2.3	3
26	Growth Behavior of Rat Bone Marrow Cells on RF Magnetron Sputtered Bioglass- and Calcium Phosphate Coatings. <i>Key Engineering Materials</i> , 2007 , 361-363, 253-256	0.4	3

25	A Rabbit Femoral Condyle Defect Model for Assessment of Osteochondral Tissue Regeneration. <i>Tissue Engineering - Part C: Methods</i> , 2020 , 26, 554-564	2.9	3
24	Bioinorganic supplementation of calcium phosphate-based bone substitutes to improve in vivo performance: a systematic review and meta-analysis of animal studies. <i>Biomaterials Science</i> , 2020 , 8, 4792-4809	7.4	3
23	Bilayered, peptide-biofunctionalized hydrogels for in vivo osteochondral tissue repair. <i>Acta Biomaterialia</i> , 2021 , 128, 120-129	10.8	3
22	An Ovine Model of Bioreactor-Based Bone Generation. <i>Tissue Engineering - Part C: Methods</i> , 2020 , 26, 384-396	2.9	2
21	Intraoperative Construct Preparation: A Practical Route for Cell-Based Bone Regeneration. <i>Tissue Engineering - Part B: Reviews</i> , 2018 , 24, 403-417	7.9	2
20	Bone regeneration using coculture of mesenchymal stem cells and angiogenic cells. <i>Frontiers of Materials Science</i> , 2014 , 8, 32-38	2.5	2
19	Bone Regenerative Properties of Injectable Calcium Phosphate/PLGA Cement in an Alveolar Bone Defect. <i>Key Engineering Materials</i> , 2012 , 529-530, 300-303	0.4	1
18	Adsorption of Alendronate onto Biomimetic Apatite Nanocrystals to Develop Drug Carrier Coating for Bone Implants. <i>Key Engineering Materials</i> , 2012 , 529-530, 475-479	0.4	1
17	Electrospray Deposition of Bioactive Alkaline Phosphatase Coatings. <i>Key Engineering Materials</i> , 2007 , 361-363, 589-592	0.4	1
16	RNF8-independent Lys63 poly-ubiquitylation prevents genomic instability in response to replication-associated DNA damage. <i>PLoS ONE</i> , 2014 , 9, e89997	3.7	1
15	Copper source determines chemistry and topography of implant coatings to optimally couple cellular responses and antibacterial activity.. <i>Materials Science and Engineering C</i> , 2021 , 112550	8.3	1
14	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> , 2021 , 21, e210088	5.5	1
13	Special Collection: Cell-Based Therapy for Bone Regeneration. <i>Tissue Engineering - Part A</i> , 2016 , 22, 1127-1128	3.1	1
12	Pharmacological interventions targeting bone diseases in adjunction with bone grafting 2020 , 251-280		1
11	Evaluation of the inflammatory responses to sol-gel coatings with distinct biocompatibility levels. <i>Journal of Biomedical Materials Research - Part A</i> , 2021 , 109, 1539-1548	5.4	1
10	Innovative implant design for continuous implant stability: A mechanical and histological experimental study in the iliac crest of goats. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2021 , 122, 104651	4.1	1
9	Species-independent stimulation of osteogenic differentiation induced by osteoclasts.. <i>Biochemical and Biophysical Research Communications</i> , 2022 , 606, 149-155	3.4	1
8	A Practical Procedure for the Generation of Human Osteoclasts and Their Characterization. <i>Tissue Engineering - Part C: Methods</i> , 2021 , 27, 421-432	2.9	0

- 7 Dual-functional porous and cisplatin-loaded polymethylmethacrylate cement for reconstruction of load-bearing bone defect kills bone tumor cells.. *Bioactive Materials*, **2022**, 15, 120-130 16.7 0
- 6 Enzymatically Enhanced Guided Tissue Regeneration. *Bioceramics Development and Applications*, **2011**, 1, 1-3
- 5 Biological Effect of Single or Combined Pharmacological Therapy Using Alendronate and Simvastatin on Implant Osseointegration: An In Vivo Study in Healthy and Osteoporotic Rat Models. *Applied Sciences (Switzerland)*, **2020**, 10, 4298 2.6
- 4 Cell-based therapies in bone regeneration **2020**, 217-250
- 3 Impact of Single or Combined Drug Therapy on Bone Regeneration in Healthy and Osteoporotic Rats. *Tissue Engineering - Part A*, **2021**, 27, 572-581 3.9
- 2 Effect of Osteoporosis on Well-Integrated Bone Implants. *Applied Sciences (Switzerland)*, **2021**, 11, 723 2.6
- 1 Effect of Systemic Zoledronic Acid Dosing Regimens on Bone Regeneration in Osteoporotic Rats. *Applied Sciences (Switzerland)*, **2021**, 11, 1906 2.6