Jerome Guicheux

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213 8,588 56 84 g-index

280 9,712 5.5 ext. papers ext. citations avg, IF L-index

#	Paper	IF	Citations
213	Cartilage engineering: a crucial combination of cells, biomaterials and biofactors. <i>Trends in Biotechnology</i> , 2009 , 27, 307-14	15.1	360
212	Oxidative stress in bone remodelling and disease. <i>Trends in Molecular Medicine</i> , 2009 , 15, 468-77	11.5	285
211	Activation of p38 mitogen-activated protein kinase and c-Jun-NH2-terminal kinase by BMP-2 and their implication in the stimulation of osteoblastic cell differentiation. <i>Journal of Bone and Mineral Research</i> , 2003 , 18, 2060-8	6.3	252
210	Calcium phosphate drug delivery system: influence of local zoledronate release on bone implant osteointegration. <i>Bone</i> , 2005 , 36, 52-60	4.7	226
209	Cartilage tissue engineering: towards a biomaterial-assisted mesenchymal stem cell therapy. <i>Current Stem Cell Research and Therapy</i> , 2009 , 4, 318-29	3.6	165
208	An injectable vehicle for nucleus pulposus cell-based therapy. <i>Biomaterials</i> , 2011 , 32, 2862-70	15.6	161
207	Calcium phosphate biomaterials as bone drug delivery systems: a review. <i>Drug Discovery Today</i> , 2010 , 15, 547-52	8.8	161
206	Evidence for a role of p38 MAP kinase in expression of alkaline phosphatase during osteoblastic cell differentiation. <i>Bone</i> , 2002 , 30, 91-8	4.7	156
205	Cartilage tissue engineering: From biomaterials and stem cells to osteoarthritis treatments. <i>Annals of Physical and Rehabilitation Medicine</i> , 2016 , 59, 139-144	3.8	140
204	Local delivery of bisphosphonate from coated orthopedic implants increases implants mechanical stability in osteoporotic rats. <i>Journal of Biomedical Materials Research - Part A</i> , 2006 , 76, 133-43	5.4	134
203	Novel biomaterials for bisphosphonate delivery. <i>Biomaterials</i> , 2005 , 26, 2073-80	15.6	131
202	Phosphate-dependent regulation of MGP in osteoblasts: role of ERK1/2 and Fra-1. <i>Journal of Bone and Mineral Research</i> , 2009 , 24, 1856-68	6.3	122
201	Enhanced expression of the inorganic phosphate transporter Pit-1 is involved in BMP-2-induced matrix mineralization in osteoblast-like cells. <i>Journal of Bone and Mineral Research</i> , 2006 , 21, 674-83	6.3	122
200	The emergence of phosphate as a specific signaling molecule in bone and other cell types in mammals. <i>Cellular and Molecular Life Sciences</i> , 2011 , 68, 205-18	10.3	120
199	A silanized hydroxypropyl methylcellulose hydrogel for the three-dimensional culture of chondrocytes. <i>Biomaterials</i> , 2005 , 26, 6643-51	15.6	117
198	In vitro biological effects of titanium rough surface obtained by calcium phosphate grid blasting. <i>Biomaterials</i> , 2005 , 26, 157-65	15.6	114
197	Influence of biphasic calcium phosphate granulometry on bone ingrowth, ceramic resorption, and inflammatory reactions: preliminary in vitro and in vivo study. <i>Journal of Biomedical Materials Research Part B</i> , 1999 , 46, 103-11		113

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196	Protein kinase C-independent activation of protein kinase D is involved in BMP-2-induced activation of stress mitogen-activated protein kinases JNK and p38 and osteoblastic cell differentiation. Journal of Biological Chemistry, 2004 , 279, 259-64	5.4	110	
195	Phosphate is a specific signal for ATDC5 chondrocyte maturation and apoptosis-associated mineralization: possible implication of apoptosis in the regulation of endochondral ossification. <i>Journal of Bone and Mineral Research</i> , 2003 , 18, 1430-42	6.3	109	
194	An injectable cellulose-based hydrogel for the transfer of autologous nasal chondrocytes in articular cartilage defects. <i>Biotechnology and Bioengineering</i> , 2009 , 102, 1259-67	4.9	107	
193	Dexamethasone stimulates differentiation of odontoblast-like cells in human dental pulp cultures. <i>Cell and Tissue Research</i> , 2005 , 321, 391-400	4.2	107	
192	Osteogenic potential in vitro of human bone marrow cells cultured on macroporous biphasic calcium phosphate ceramic. <i>Journal of Biomedical Materials Research Part B</i> , 1999 , 44, 98-108		107	
191	Three-dimensional culture and differentiation of human osteogenic cells in an injectable hydroxypropylmethylcellulose hydrogel. <i>Biomaterials</i> , 2005 , 26, 5509-17	15.6	102	
190	Differential effects of hypoxia on osteochondrogenic potential of human adipose-derived stem cells. <i>American Journal of Physiology - Cell Physiology</i> , 2010 , 298, C355-64	5.4	98	
189	Articular cartilage calcification in osteoarthritis: insights into crystal-induced stress. <i>Arthritis and Rheumatism</i> , 2011 , 63, 10-8		97	
188	Physico-chemical-mechanical and in vitro biological properties of calcium phosphate cements with doped amorphous calcium phosphates. <i>Biomaterials</i> , 2007 , 28, 956-65	15.6	95	
187	The lumbar intervertebral disc: from embryonic development to degeneration. <i>Joint Bone Spine</i> , 2014 , 81, 125-9	2.9	93	
186	From osteoarthritis treatments to future regenerative therapies for cartilage. <i>Drug Discovery Today</i> , 2009 , 14, 913-25	8.8	93	
185	Phosphate-dependent stimulation of MGP and OPN expression in osteoblasts via the ERK1/2 pathway is modulated by calcium. <i>Bone</i> , 2011 , 48, 894-902	4.7	92	
184	Engineering cartilage with human nasal chondrocytes and a silanized hydroxypropyl methylcellulose hydrogel. <i>Journal of Biomedical Materials Research - Part A</i> , 2007 , 80, 66-74	5.4	89	
183	Role of fibronectin during biological apatite crystal nucleation: ultrastructural characterization. <i>Journal of Biomedical Materials Research Part B</i> , 1999 , 47, 228-33		86	
182	Human osteosarcoma cells express functional receptor activator of nuclear factor-kappa B. <i>Journal of Pathology</i> , 2007 , 211, 555-562	9.4	80	
181	Mesenchymal stem cell therapy to rebuild cartilage. <i>Trends in Molecular Medicine</i> , 2005 , 11, 519-26	11.5	80	
180	In vivo bone augmentation in an osteoporotic environment using bisphosphonate-loaded calcium deficient apatite. <i>Biomaterials</i> , 2010 , 31, 7776-84	15.6	77	
179	Laponite nanoparticle-associated silated hydroxypropylmethyl cellulose as an injectable reinforced interpenetrating network hydrogel for cartilage tissue engineering. <i>Acta Biomaterialia</i> , 2018 , 65, 112-7	12 ² 0.8	72	

178	Macroporous biphasic calcium phosphate ceramics versus injectable bone substitute: a comparative study 3 and 8 weeks after implantation in rabbit bone. <i>Journal of Materials Science: Materials in Medicine</i> , 2001 , 12, 385-90	4.5	71
177	Behaviour of mesenchymal stem cells, fibroblasts and osteoblasts on smooth surfaces. <i>Acta Biomaterialia</i> , 2011 , 7, 1525-34	10.8	70
176	The effect of two- and three-dimensional cell culture on the chondrogenic potential of human adipose-derived mesenchymal stem cells after subcutaneous transplantation with an injectable hydrogel. <i>Cell Transplantation</i> , 2011 , 20, 1575-88	4	67
175	The free fatty acid receptor G protein-coupled receptor 40 (GPR40) protects from bone loss through inhibition of osteoclast differentiation. <i>Journal of Biological Chemistry</i> , 2013 , 288, 6542-51	5.4	66
174	Intramyocardial delivery of mesenchymal stem cell-seeded hydrogel preserves cardiac function and attenuates ventricular remodeling after myocardial infarction. <i>PLoS ONE</i> , 2012 , 7, e51991	3.7	66
173	Il-4 and IL-13, but not IL-10, protect human synoviocytes from apoptosis. <i>Journal of Immunology</i> , 2001 , 166, 2775-82	5.3	65
172	Role of the Inflammation-Autophagy-Senescence Integrative Network in Osteoarthritis. <i>Frontiers in Physiology</i> , 2018 , 9, 706	4.6	62
171	Controlling the biological function of calcium phosphate bone substitutes with drugs. <i>Acta Biomaterialia</i> , 2012 , 8, 3541-51	10.8	62
170	Persistent lipid abnormalities in statin-treated patients with diabetes mellitus in Europe and Canada: results of the Dyslipidaemia International Study. <i>Diabetic Medicine</i> , 2011 , 28, 1343-51	3.5	62
169	Phosphate stimulates matrix Gla protein expression in chondrocytes through the extracellular signal regulated kinase signaling pathway. <i>Endocrinology</i> , 2007 , 148, 530-7	4.8	62
168	Identification of phenotypic discriminating markers for intervertebral disc cells and articular chondrocytes. <i>Rheumatology</i> , 2009 , 48, 1447-50	3.9	61
167	VEGF and VEGF receptors are differentially expressed in chondrocytes. <i>Bone</i> , 2007 , 40, 568-76	4.7	61
166	Cytokines, growth factors and osteoclasts. <i>Cytokine</i> , 1998 , 10, 155-68	4	61
165	Phosphate (P)-regulated heterodimerization of the high-affinity sodium-dependent P transporters PiT1/Slc20a1 and PiT2/Slc20a2 underlies extracellular P sensing independently of P uptake. <i>Journal of Biological Chemistry</i> , 2018 , 293, 2102-2114	5.4	60
164	Chemically Modified Calcium Phosphates as Novel Materials for Bisphosphonate Delivery. <i>Advanced Materials</i> , 2004 , 16, 1423-1427	24	59
163	Intervertebral disc regeneration: From cell therapy to the development of novel bioinspired endogenous repair strategies. <i>Advanced Drug Delivery Reviews</i> , 2019 , 146, 306-324	18.5	59
162	Effects of in vitro low oxygen tension preconditioning of adipose stromal cells on their in vivo chondrogenic potential: application in cartilage tissue repair. <i>PLoS ONE</i> , 2013 , 8, e62368	3.7	58
161	Growth hormone stimulatory effects on osteoclastic resorption are partly mediated by insulin-like growth factor I: an in vitro study. <i>Bone</i> , 1998 , 22, 25-31	4.7	58

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160	Transforming growth factor-beta stimulates inorganic phosphate transport and expression of the type III phosphate transporter Glvr-1 in chondrogenic ATDC5 cells. <i>Endocrinology</i> , 2000 , 141, 2236-43	4.8	58
159	Cell-specific effects of TNF-tand IL-1Ibn alkaline phosphatase: implication for syndesmophyte formation and vascular calcification. <i>Laboratory Investigation</i> , 2011 , 91, 1434-42	5.9	57
158	The intervertebral disc: from pathophysiology to tissue engineering. <i>Joint Bone Spine</i> , 2009 , 76, 614-8	2.9	56
157	Calcium phosphate scaffold and bone marrow for bone reconstruction in irradiated area: a dog study. <i>Bone</i> , 2005 , 36, 323-30	4.7	55
156	Cartilage formation in growth plate and arteries: from physiology to pathology. <i>BioEssays</i> , 2005 , 27, 705	8 ₄ 1. 6	54
155	Osteoarthritis: from pathogenic mechanisms and recent clinical developments to novel prospective therapeutic options. <i>Drug Discovery Today</i> , 2016 , 21, 1932-1937	8.8	53
154	Effect of Sodium Doping in Erricalcium Phosphate on Its Structure and Properties. <i>Chemistry of Materials</i> , 2006 , 18, 1425-1433	9.6	53
153	Pharmacological modulation of human mesenchymal stem cell chondrogenesis by a chemically oversulfated polysaccharide of marine origin: potential application to cartilage regenerative medicine. <i>Stem Cells</i> , 2012 , 30, 471-80	5.8	52
152	Innovative strategies for intervertebral disc regenerative medicine: From cell therapies to multiscale delivery systems. <i>Biotechnology Advances</i> , 2018 , 36, 281-294	17.8	52
151	Apatite as carrier for growth hormone: in vitro characterization of loading and release. <i>Journal of Biomedical Materials Research Part B</i> , 1997 , 34, 165-70		50
150	TGF-II and GDF5 Act Synergistically to Drive the Differentiation of Human Adipose Stromal Cells toward Nucleus Pulposus-like Cells. <i>Stem Cells</i> , 2016 , 34, 653-67	5.8	50
149	Controlled release of bisphosphonate from a calcium phosphate biomaterial inhibits osteoclastic resorption in vitro. <i>Journal of Biomedical Materials Research - Part A</i> , 2009 , 89, 46-56	5.4	48
148	Toward the development of biomimetic injectable and macroporous biohydrogels for regenerative medicine. <i>Advances in Colloid and Interface Science</i> , 2017 , 247, 589-609	14.3	46
147	The polyphenol fisetin protects bone by repressing NF-B and MKP-1-dependent signaling pathways in osteoclasts. <i>PLoS ONE</i> , 2013 , 8, e68388	3.7	46
146	Human growth hormone locally released in bone sites by calcium-phosphate biomaterial stimulates ceramic bone substitution without systemic effects: a rabbit study. <i>Journal of Bone and Mineral Research</i> , 1998 , 13, 739-48	6.3	46
145	Ageing in the musculoskeletal system. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2016 , 87, 15-25	4.3	46
144	Reaction of Zoledronate with Erricalcium Phosphate for the Design of Potential Drug Device Combined Systems. <i>Chemistry of Materials</i> , 2008 , 20, 182-191	9.6	45
143	Alveolar bone regeneration for immediate implant placement using an injectable bone substitute: an experimental study in dogs. <i>Journal of Periodontology</i> , 2004 , 75, 663-71	4.6	45

142	A novel in vitro culture system for analysis of functional role of phosphate transport in endochondral ossification. <i>Bone</i> , 2000 , 27, 69-74	4.7	45
141	Assessing glucose and oxygen diffusion in hydrogels for the rational design of 3D stem cell scaffolds in regenerative medicine. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2018 , 12, 1238-1246	4.4	43
140	Gallium modulates osteoclastic bone resorption in vitro without affecting osteoblasts. <i>British Journal of Pharmacology</i> , 2010 , 159, 1681-92	8.6	42
139	Phosphate-dependent FGF23 secretion is modulated by PiT2/Slc20a2. <i>Molecular Metabolism</i> , 2018 , 11, 197-204	8.8	41
138	Nanocomposite hydrogels for cartilage tissue engineering: mesoporous silica nanofibers interlinked with siloxane derived polysaccharide. <i>Journal of Materials Science: Materials in Medicine</i> , 2013 , 24, 1875-84	4.5	40
137	Production of interleukin-1 receptor antagonist by human articular chondrocytes. <i>Arthritis Research</i> , 2002 , 4, 226-31		37
136	In vitro and in vivo evaluation of an electrospun-aligned microfibrous implant for Annulus fibrosus repair. <i>Biomaterials</i> , 2019 , 205, 81-93	15.6	35
135	The modulation of gene expression in osteoblasts by thrombin coated on biphasic calcium phosphate ceramic. <i>Biomaterials</i> , 2006 , 27, 2934-43	15.6	35
134	Pharmacologically active microcarriers delivering BDNF within a hydrogel: Novel strategy for human bone marrow-derived stem cells neural/neuronal differentiation guidance and therapeutic secretome enhancement. <i>Acta Biomaterialia</i> , 2017 , 49, 167-180	10.8	34
133	A comparison between bone reconstruction following the use of mesenchymal stem cells and total bone marrow in association with calcium phosphate scaffold in irradiated bone. <i>Biomaterials</i> , 2009 , 30, 763-9	15.6	34
132	Interactions of total bone marrow cells with increasing quantities of macroporous calcium phosphate ceramic granules. <i>Journal of Materials Science: Materials in Medicine</i> , 2007 , 18, 1983-90	4.5	33
131	A biomaterial-assisted mesenchymal stromal cell therapy alleviates colonic radiation-induced damage. <i>Biomaterials</i> , 2017 , 115, 40-52	15.6	32
130	Culture medium modulates the behaviour of human dental pulp-derived cells: technical note. <i>European Cells and Materials</i> , 2006 , 11, 35-42; discussion 42	4.3	32
129	Enriching a cellulose hydrogel with a biologically active marine exopolysaccharide for cell-based cartilage engineering. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2017 , 11, 1152-1164	4.4	31
128	Development of an odontoblast in vitro model to study dentin mineralization. <i>Connective Tissue Research</i> , 2004 , 45, 101-8	3.3	31
127	Injectable calcium phosphate scaffold and bone marrow graft for bone reconstruction in irradiated areas: an experimental study in rats. <i>Biomaterials</i> , 2006 , 27, 4566-72	15.6	30
126	Inverse regulation of early and late chondrogenic differentiation by oxygen tension provides cues for stem cell-based cartilage tissue engineering. <i>Cellular Physiology and Biochemistry</i> , 2015 , 35, 841-57	3.9	29
125	Mice with hypomorphic expression of the sodium-phosphate cotransporter PiT1/Slc20a1 have an unexpected normal bone mineralization. <i>PLoS ONE</i> , 2013 , 8, e65979	3.7	29

(2006-2019)

124	Lessons learned from intervertebral disc pathophysiology to guide rational design of sequential delivery systems for therapeutic biological factors. <i>Advanced Drug Delivery Reviews</i> , 2019 , 149-150, 49-	71 ^{8.5}	28	
123	Autologous Fat Grafting in the Breast: Critical Points and Technique Improvements. <i>Aesthetic Plastic Surgery</i> , 2015 , 39, 547-61	2	28	
122	Intervertebral disc regeneration: a great challenge for tissue engineers. <i>Trends in Biotechnology</i> , 2014 , 32, 433-5	15.1	28	
121	Adipose-derived mesenchymal stem cells and biomaterials for cartilage tissue engineering. <i>Joint Bone Spine</i> , 2008 , 75, 672-4	2.9	28	
120	Inorganic phosphate regulates Glvr-1 and -2 expression: role of calcium and ERK1/2. <i>Biochemical and Biophysical Research Communications</i> , 2009 , 381, 259-63	3.4	27	
119	Growth hormone-loaded macroporous calcium phosphate ceramic: in vitro biopharmaceutical characterization and preliminary in vivo study. <i>Journal of Biomedical Materials Research Part B</i> , 1998 , 40, 560-6		27	
118	In vitro influence of apatite-granule-specific area on human growth hormone loading and release. <i>Journal of Biomedical Materials Research Part B</i> , 1998 , 40, 606-13		27	
117	Injectable bone substitute to preserve alveolar ridge resorption after tooth extraction: a study in dog. <i>Journal of Materials Science: Materials in Medicine</i> , 2006 , 17, 1145-52	4.5	27	
116	Ultrastructural evidence in vitro of osteoclast-induced degradation of calcium phosphate ceramic by simultaneous resorption and phagocytosis mechanisms. <i>Histology and Histopathology</i> , 2001 , 16, 37-4	14 ^{1.4}	27	
115	Interleukin-33 and RANK-L Interplay in the Alveolar Bone Loss Associated to Periodontitis. <i>PLoS ONE</i> , 2016 , 11, e0168080	3.7	26	
114	Dynamic compaction: a new process to compact therapeutic agent-loaded calcium phosphates. <i>Biomaterials</i> , 1997 , 18, 141-5	15.6	25	
113	Dendritic-cell-derived osteoclasts: a new game changer in bone-resorption-associated diseases. Drug Discovery Today, 2016 , 21, 1345-1354	8.8	25	
112	Olive and grape seed extract prevents post-traumatic osteoarthritis damages and exhibits in vitro anti IL-1[activities before and after oral consumption. <i>Scientific Reports</i> , 2016 , 6, 33527	4.9	24	
111	Osteoinduction of biphasic calcium phosphate scaffolds in a nude mouse model. <i>Journal of Biomaterials Applications</i> , 2014 , 29, 595-604	2.9	23	
110	An in vitro study of two GAG-like marine polysaccharides incorporated into injectable hydrogels for bone and cartilage tissue engineering. <i>Acta Biomaterialia</i> , 2011 , 7, 2119-30	10.8	23	
109	Nasal chondrocytes and fibrin sealant for cartilage tissue engineering. <i>Journal of Biomedical Materials Research - Part A</i> , 2009 , 89, 176-85	5.4	23	
108	Characterization of the age-dependent intervertebral disc changes in rabbit by correlation between MRI, histology and gene expression. <i>BMC Musculoskeletal Disorders</i> , 2011 , 12, 147	2.8	22	
107	Novel phosphatephosphonate hybrid nanomaterials applied to biology. <i>Progress in Solid State Chemistry</i> , 2006 , 34, 257-266	8	22	

106	Chasing Chimeras - The elusive stable chondrogenic phenotype. <i>Biomaterials</i> , 2019 , 192, 199-225	15.6	22
105	PiT1/Slc20a1 Is Required for Endoplasmic Reticulum Homeostasis, Chondrocyte Survival, and Skeletal Development. <i>Journal of Bone and Mineral Research</i> , 2019 , 34, 387-398	6.3	22
104	Molecular effects of gallium on osteoclastic differentiation of mouse and human monocytes. <i>Biochemical Pharmacology</i> , 2012 , 83, 671-9	6	21
103	Orthopedic implant used as drug delivery system: clinical situation and state of the research. <i>Current Drug Delivery</i> , 2008 , 5, 59-63	3.2	20
102	Neu5Gc and ¶-3 GAL Xenoantigen Knockout Does Not Affect Glycemia Homeostasis and Insulin Secretion in Pigs. <i>Diabetes</i> , 2017 , 66, 987-993	0.9	19
101	Pullulan microbeads/Si-HPMC hydrogel injectable system for the sustained delivery of GDF-5 and TGF-1: new insight into intervertebral disc regenerative medicine. <i>Drug Delivery</i> , 2017 , 24, 999-1010	7	19
100	Slc20a2, Encoding the Phosphate Transporter PiT2, Is an Important Genetic Determinant of Bone Quality and Strength. <i>Journal of Bone and Mineral Research</i> , 2019 , 34, 1101-1114	6.3	18
99	Micro-CT Analysis of Radiation-Induced Osteopenia and Bone Hypovascularization in Rat. <i>Calcified Tissue International</i> , 2015 , 97, 62-8	3.9	18
98	The in vitro and in vivo effects of a low-molecular-weight fucoidan on the osteogenic capacity of human adipose-derived stromal cells. <i>Tissue Engineering - Part A</i> , 2014 , 20, 275-84	3.9	18
97	Osteogenic potential in vitro of human bone marrow cells cultured on macroporous biphasic calcium phosphate ceramic 1999 , 44, 98		18
96	Silica nanofibers as a new drug delivery system: a study of the protein-silica interactions. <i>Journal of Materials Chemistry B</i> , 2017 , 5, 2908-2920	7.3	17
95	Fourier transform infrared microspectroscopic investigation of the organic and mineral constituents of peritubular dentin: a horse study. <i>Calcified Tissue International</i> , 2002 , 71, 179-85	3.9	17
94	Optimized Bioactive Glass: the Quest for the Bony Graft. Advanced Healthcare Materials, 2019, 8, e1801	5A2 1	16
93	Development of mandibular osteoradionecrosis in rats: Importance of dental extraction. <i>Journal of Cranio-Maxillo-Facial Surgery</i> , 2015 , 43, 1829-36	3.6	16
92	Association of human growth hormone and calcium phosphate by dynamic compaction: in vitro biocompatibility and bioactivity. <i>Journal of Biomedical Materials Research Part B</i> , 1997 , 36, 258-64		16
91	Primary human articular chondrocytes, dedifferentiated chondrocytes, and synoviocytes exhibit differential responsiveness to interleukin-4: correlation with the expression pattern of the common receptor gamma chain. <i>Journal of Cellular Physiology</i> , 2002 , 192, 93-101	7	16
90	Oncostatin M stimulates macrophage-polykaryon formation in long-term human bone-marrow cultures. <i>Cytokine</i> , 1998 , 10, 98-109	4	16
89	Biomaterial-assisted cell therapy in osteoarthritis: From mesenchymal stem cells to cell encapsulation. <i>Best Practice and Research in Clinical Rheumatology</i> , 2017 , 31, 730-745	5.3	15

88	Vascular imaging with contrast agent in hard and soft tissues using microcomputed-tomography. Journal of Microscopy, 2016 , 262, 40-9	1.9	15	
87	Inorganic phosphate stimulates apoptosis in murine MO6-G3 odontoblast-like cells. <i>Archives of Oral Biology</i> , 2011 , 56, 977-83	2.8	14	
86	State of art and limitations in genetic engineering to induce stable chondrogenic phenotype. <i>Biotechnology Advances</i> , 2018 , 36, 1855-1869	17.8	13	
85	Tailored Three-Dimensionally Printed Triply Periodic Calcium Phosphate Implants: A Preclinical Study for Craniofacial Bone Repair. <i>ACS Biomaterials Science and Engineering</i> , 2020 , 6, 553-563	5.5	13	
84	Microcarriers Based on Glycosaminoglycan-Like Marine Exopolysaccharide for TGF-II Long-Term Protection. <i>Marine Drugs</i> , 2019 , 17,	6	12	
83	Direct comparison of current cell-based and cell-free approaches towards the repair of craniofacial bone defects - A preclinical study. <i>Acta Biomaterialia</i> , 2015 , 26, 306-17	10.8	12	
82	Polysaccharide Hydrogels Support the Long-Term Viability of Encapsulated Human Mesenchymal Stem Cells and Their Ability to Secrete Immunomodulatory Factors. <i>Stem Cells International</i> , 2017 , 2017, 9303598	5	12	
81	Polymyxin B inhibits biphasic calcium phosphate degradation induced by lipopolysaccharide-activated human monocytes/macrophages. <i>Journal of Biomedical Materials Research Part B</i> , 1998 , 40, 336-40		12	
80	Nutraceuticals in joint health: animal models as instrumental tools. <i>Drug Discovery Today</i> , 2014 , 19, 164	198588	11	
79	The transpedicular surgical approach for the development of intervertebral disc targeting regenerative strategies in an ovine model. <i>European Spine Journal</i> , 2017 , 26, 2072-2083	2.7	11	
78	Evaluation of new bone formation in irradiated areas using association of mesenchymal stem cells and total fresh bone marrow mixed with calcium phosphate scaffold. <i>Journal of Materials Science: Materials in Medicine</i> , 2014 , 25, 2711-20	4.5	11	
77	Determining a clinically relevant strategy for bone tissue engineering: an "all-in-one" study in nude mice. <i>PLoS ONE</i> , 2013 , 8, e81599	3.7	11	
76	Na-doped Ericalcium phosphate: physico-chemical and in vitro biological properties. <i>Journal of Materials Science: Materials in Medicine</i> , 2011 , 22, 593-600	4.5	11	
75	Upmodulation of multinucleated cell formation in long-term human bone marrow cultures by leukaemia inhibitory factor (LIF). <i>Cytokine</i> , 1997 , 9, 46-52	4	11	
74	Quantitative and reliable in vitro method combining scanning electron microscopy and image analysis for the screening of osteotropic modulators. <i>Microscopy Research and Technique</i> , 2006 , 69, 606	5-72 ⁸	11	
73	Autologous fat grafting: A comparative study of four current commercial protocols. <i>Journal of Plastic, Reconstructive and Aesthetic Surgery</i> , 2017 , 70, 248-256	1.7	10	
72	The effect of bisphosphonates and titanium particles on osteoblasts: an in vitro study. <i>Journal of Bone and Joint Surgery: British Volume</i> , 2005 , 87, 1157-63		10	
71	Purification of the exopolysaccharide produced by Alteromonas infernus: identification of endotoxins and effective process to remove them. <i>Applied Microbiology and Biotechnology</i> , 2017 , 101, 6597-6606	5.7	10	

70	Human Enriched Serum Following Hydrolysed Collagen Absorption Modulates Bone Cell Activity: from Bedside to Bench and Vice Versa. <i>Nutrients</i> , 2019 , 11,	6.7	9
69	Controlled release of biological factors for endogenous progenitor cell migration and intervertebral disc extracellular matrix remodelling. <i>Biomaterials</i> , 2020 , 253, 120107	15.6	9
68	Interpenetrated Si-HPMC/alginate hydrogels as a potential scaffold for human tissue regeneration. Journal of Materials Science: Materials in Medicine, 2016 , 27, 99	4.5	9
67	Wnt5a is expressed in spondyloarthritis and exerts opposite effects on enthesis and bone in murine organ and cell cultures. <i>Translational Research</i> , 2015 , 166, 627-38	11	8
66	Age-related changes in the articular cartilage of the stifle joint in non-working and working German Shepherd dogs. <i>Journal of Comparative Pathology</i> , 2014 , 151, 363-74	1	8
65	Growth hormone stimulates the degradation of calcium phosphate biomaterial by human monocytes macrophages in vitro. <i>Journal of Biomedical Materials Research Part B</i> , 1998 , 40, 79-85		8
64	A Self Setting Hydrogel as an Extracellular Synthetic Matrix for Tissue Engineering. <i>Key Engineering Materials</i> , 2003 , 254-256, 1107-1110	0.4	8
63	Longitudinal Comparison of Enzyme- and Laser-Treated Intervertebral Disc by MRI, X-Ray, and Histological Analyses Reveals Discrepancies in the Progression of Disc Degeneration: A Rabbit Study. <i>BioMed Research International</i> , 2016 , 2016, 5498271	3	8
62	NOTO Transcription Factor Directs Human Induced Pluripotent Stem Cell-Derived Mesendoderm Progenitors to a Notochordal Fate. <i>Cells</i> , 2020 , 9,	7.9	7
61	Expression of Phosphate Transporters during Dental Mineralization. <i>Journal of Dental Research</i> , 2018 , 97, 209-217	8.1	7
60	Assessment and Quantification of Noncollagenic Matrix Proteins Released from Human Dentin Powder Incorporated into a Silated Hydroxypropylmethylcellulose Biomedical Hydrogel. <i>Journal of Endodontics</i> , 2016 , 42, 1371-6	4.7	7
59	A Cellulose/Laponite Interpenetrated Polymer Network (IPN) Hydrogel: Controllable Double-Network Structure with High Modulus. <i>Polymers</i> , 2018 , 10,	4.5	7
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