

Yin Xiao

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L-index

#	Paper	IF	Citations
3 ²⁵	Copper-containing mesoporous bioactive glass scaffolds with multifunctional properties of angiogenesis capacity, osteostimulation and antibacterial activity. <i>Biomaterials</i> , 2013 , 34, 422-33	15.6	535
3 ²⁴	Osteoimmunomodulation for the development of advanced bone biomaterials. <i>Materials Today</i> , 2016 , 19, 304-321	21.8	345
3 ²³	Hypoxia-mimicking mesoporous bioactive glass scaffolds with controllable cobalt ion release for bone tissue engineering. <i>Biomaterials</i> , 2012 , 33, 2076-85	15.6	328
3 ²²	The Horizon of Materiobiology: A Perspective on Material-Guided Cell Behaviors and Tissue Engineering. <i>Chemical Reviews</i> , 2017 , 117, 4376-4421	68.1	296
3 ²¹	Three-dimensional printing of hierarchical and tough mesoporous bioactive glass scaffolds with a controllable pore architecture, excellent mechanical strength and mineralization ability. <i>Acta Biomaterialia</i> , 2011 , 7, 2644-50	10.8	288
3 ²⁰	Osteogenic differentiation of bone marrow MSCs by tricalcium phosphate stimulating macrophages via BMP2 signalling pathway. <i>Biomaterials</i> , 2014 , 35, 1507-18	15.6	206
3 ¹⁹	Mechanical and biological properties of hydroxyapatite/tricalcium phosphate scaffolds coated with poly(lactic-co-glycolic acid). <i>Acta Biomaterialia</i> , 2008 , 4, 638-45	10.8	173
3 ¹⁸	The effect of silicate ions on proliferation, osteogenic differentiation and cell signalling pathways (WNT and SHH) of bone marrow stromal cells. <i>Biomaterials Science</i> , 2013 , 1, 379-392	7.4	171
3 ¹⁷	Osteoimmunomodulatory properties of magnesium scaffolds coated with tricalcium phosphate. <i>Biomaterials</i> , 2014 , 35, 8553-65	15.6	169
3 ¹⁶	Structure-property relationships of silk-modified mesoporous bioglass scaffolds. <i>Biomaterials</i> , 2010 , 31, 3429-38	15.6	164
3 ¹⁵	A biphasic scaffold design combined with cell sheet technology for simultaneous regeneration of alveolar bone/periodontal ligament complex. <i>Biomaterials</i> , 2012 , 33, 5560-73	15.6	163
3 ¹⁴	Strontium-containing mesoporous bioactive glass scaffolds with improved osteogenic/cementogenic differentiation of periodontal ligament cells for periodontal tissue engineering. <i>Acta Biomaterialia</i> , 2012 , 8, 3805-15	10.8	162
3 ¹³	3D-printing of highly uniform CaSiO ₃ ceramic scaffolds: preparation, characterization and in vivo osteogenesis. <i>Journal of Materials Chemistry</i> , 2012 , 22, 12288		157
3 ¹²	Tuning Chemistry and Topography of Nanoengineered Surfaces to Manipulate Immune Response for Bone Regeneration Applications. <i>ACS Nano</i> , 2017 , 11, 4494-4506	16.7	153
3 ¹¹	Copper-doped mesoporous silica nanospheres, a promising immunomodulatory agent for inducing osteogenesis. <i>Acta Biomaterialia</i> , 2016 , 30, 334-344	10.8	150
3 ¹⁰	Multifunctional magnetic mesoporous bioactive glass scaffolds with a hierarchical pore structure. <i>Acta Biomaterialia</i> , 2011 , 7, 3563-72	10.8	149
3 ⁰⁹	Expression of mineralization markers in dental pulp cells. <i>Journal of Endodontics</i> , 2007 , 33, 703-8	4.7	147

308	The key regulatory roles of the PI3K/Akt signaling pathway in the functionalities of mesenchymal stem cells and applications in tissue regeneration. <i>Tissue Engineering - Part B: Reviews</i> , 2013 , 19, 516-28	7.9	144
307	An influenza virus-inspired polymer system for the timed release of siRNA. <i>Nature Communications</i> , 2013 , 4, 1902	17.4	138
306	A multifaceted coating on titanium dictates osteoimmunomodulation and osteo/angio-genesis towards ameliorative osseointegration. <i>Biomaterials</i> , 2018 , 162, 154-169	15.6	134
305	The effect of osteoimmunomodulation on the osteogenic effects of cobalt incorporated strontium calcium phosphate. <i>Biomaterials</i> , 2015 , 61, 126-38	15.6	132
304	Stimulation of osteogenesis and angiogenesis of hBMSCs by delivering Si ions and functional drug from mesoporous silica nanospheres. <i>Acta Biomaterialia</i> , 2015 , 21, 178-89	10.8	128
303	Nanotechnology in the targeted drug delivery for bone diseases and bone regeneration. <i>International Journal of Nanomedicine</i> , 2013 , 8, 2305-17	7.3	126
302	Increased neutrophil elastase and proteinase 3 and augmented NETosis are closely associated with T cell autoimmunity in patients with type 1 diabetes. <i>Diabetes</i> , 2014 , 63, 4239-48	0.9	121
301	Enhancing in vivo vascularized bone formation by cobalt chloride-treated bone marrow stromal cells in a tissue engineered periosteum model. <i>Biomaterials</i> , 2010 , 31, 3580-9	15.6	120
300	The effects of pore architecture in silk fibroin scaffolds on the growth and differentiation of mesenchymal stem cells expressing BMP7. <i>Acta Biomaterialia</i> , 2010 , 6, 3021-8	10.8	120
299	Multidirectional effects of Sr-, Mg-, and Si-containing bioceramic coatings with high bonding strength on inflammation, osteoclastogenesis, and osteogenesis. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 4264-76	9.5	117
298	Copper Silicate Hollow Microspheres-Incorporated Scaffolds for Chemo-Photothermal Therapy of Melanoma and Tissue Healing. <i>ACS Nano</i> , 2018 , 12, 2695-2707	16.7	114
297	A comparative study of mesoporous glass/silk and non-mesoporous glass/silk scaffolds: physiochemistry and in vivo osteogenesis. <i>Acta Biomaterialia</i> , 2011 , 7, 2229-36	10.8	112
296	Stiffness and strength tailoring of cobalt chromium graded cellular structures for stress-shielding reduction. <i>Materials and Design</i> , 2017 , 114, 633-641	8.1	111
295	Bioactive SrO-SiO ₂ glass with well-ordered mesopores: characterization, physiochemistry and biological properties. <i>Acta Biomaterialia</i> , 2011 , 7, 1797-806	10.8	105
294	The cementogenic differentiation of periodontal ligament cells via the activation of Wnt/ β -catenin signalling pathway by Li ⁺ ions released from bioactive scaffolds. <i>Biomaterials</i> , 2012 , 33, 6370-9	15.6	103
293	Graphene-oxide-modified strontium calcium phosphate bioceramics stimulate in vitro and in vivo osteogenesis. <i>Carbon</i> , 2015 , 93, 116-129	10.4	101
292	The osteogenic properties of CaP/silk composite scaffolds. <i>Biomaterials</i> , 2010 , 31, 2848-56	15.6	101
291	Europium-doped mesoporous silica nanosphere as an immune-modulating osteogenesis/angiogenesis agent. <i>Biomaterials</i> , 2017 , 144, 176-187	15.6	98

290	Nanoporous microstructures mediate osteogenesis by modulating the osteo-immune response of macrophages. <i>Nanoscale</i> , 2017 , 9, 706-718	7.7	97
289	Tissue engineering for bone regeneration using differentiated alveolar bone cells in collagen scaffolds. <i>Tissue Engineering</i> , 2003 , 9, 1167-77		96
288	A bifunctional scaffold with CuFeSe nanocrystals for tumor therapy and bone reconstruction. <i>Biomaterials</i> , 2018 , 160, 92-106	15.6	95
287	The influence of cellular source on periodontal regeneration using calcium phosphate coated polycaprolactone scaffold supported cell sheets. <i>Biomaterials</i> , 2014 , 35, 113-22	15.6	95
286	Mussel-inspired bioceramics with self-assembled Ca-P/polydopamine composite nanolayer: preparation, formation mechanism, improved cellular bioactivity and osteogenic differentiation of bone marrow stromal cells. <i>Acta Biomaterialia</i> , 2014 , 10, 428-38	10.8	92
285	Mussel-inspired porous SiO ₂ scaffolds with improved mineralization and cytocompatibility for drug delivery and bone tissue engineering. <i>Journal of Materials Chemistry</i> , 2011 , 21, 18300		91
284	Effects of Simvastatin on bone healing around titanium implants in osteoporotic rats. <i>Clinical Oral Implants Research</i> , 2009 , 20, 145-50	4.8	90
283	Application of autologous cryopreserved bone marrow mesenchymal stem cells for periodontal regeneration in dogs. <i>Cells Tissues Organs</i> , 2009 , 190, 94-101	2.1	88
282	Clonal isolation and characterization of bone marrow stromal cells from patients with osteoarthritis. <i>Tissue Engineering</i> , 2007 , 13, 819-29		88
281	Principles and applications of cell delivery systems for periodontal regeneration. <i>Periodontology 2000</i> , 2006 , 41, 123-35	12.9	88
280	Genetic evidence for the vital function of Osterix in cementogenesis. <i>Journal of Bone and Mineral Research</i> , 2012 , 27, 1080-92	6.3	83
279	The stimulation of proliferation and differentiation of periodontal ligament cells by the ionic products from Ca ₇ Si ₂ P ₂ O ₁₆ bioceramics. <i>Acta Biomaterialia</i> , 2012 , 8, 2307-16	10.8	79
278	ERK-1/2 and p38 in the regulation of hypertrophic changes of normal articular cartilage chondrocytes induced by osteoarthritic subchondral osteoblasts. <i>Arthritis and Rheumatism</i> , 2010 , 62, 1349-60		78
277	Nanotopography-based strategy for the precise manipulation of osteoimmunomodulation in bone regeneration. <i>Nanoscale</i> , 2017 , 9, 18129-18152	7.7	77
276	Delivery of dimethyloxallyl glycine in mesoporous bioactive glass scaffolds to improve angiogenesis and osteogenesis of human bone marrow stromal cells. <i>Acta Biomaterialia</i> , 2013 , 9, 9159-68	10.8	76
275	Vertical inhibition of the PI3K/Akt/mTOR pathway for the treatment of osteoarthritis. <i>Journal of Cellular Biochemistry</i> , 2013 , 114, 245-9	4.7	76
274	Clinoenstatite coatings have high bonding strength, bioactive ion release, and osteoimmunomodulatory effects that enhance <i>in vivo</i> osseointegration. <i>Biomaterials</i> , 2015 , 71, 35-47	15.6	73
273	Exosome-integrated titanium oxide nanotubes for targeted bone regeneration. <i>Acta Biomaterialia</i> , 2019 , 86, 480-492	10.8	72

272	Stem cell regulatory gene expression in human adult dental pulp and periodontal ligament cells undergoing odontogenic/osteogenic differentiation. <i>Journal of Endodontics</i> , 2009 , 35, 1368-76	4.7	71
271	Formation of blood clot on biomaterial implants influences bone healing. <i>Tissue Engineering - Part B: Reviews</i> , 2014 , 20, 697-712	7.9	70
270	Calcium ions promote osteogenic differentiation and mineralization of human dental pulp cells: implications for pulp capping materials. <i>Journal of Materials Science: Materials in Medicine</i> , 2012 , 23, 789-95	4.5	70
269	A comparative study of Sr-incorporated mesoporous bioactive glass scaffolds for regeneration of osteopenic bone defects. <i>Osteoporosis International</i> , 2014 , 25, 2089-96	5.3	66
268	Xenotransplantation of long-term-cultured swine bone marrow-derived mesenchymal stem cells. <i>Stem Cells</i> , 2007 , 25, 612-20	5.8	66
267	Activation of the Canonical Wnt Signaling Pathway Induces Cementum Regeneration. <i>Journal of Bone and Mineral Research</i> , 2015 , 30, 1160-74	6.3	65
266	Gold nanoparticles modulate the crosstalk between macrophages and periodontal ligament cells for periodontitis treatment. <i>Biomaterials</i> , 2019 , 206, 115-132	15.6	64
265	A Bi-Lineage Conductive Scaffold for Osteochondral Defect Regeneration. <i>Advanced Functional Materials</i> , 2014 , 24, 4473-4483	15.6	64
264	Effect of nano-structural properties of biomimetic hydroxyapatite on osteoimmunomodulation. <i>Biomaterials</i> , 2018 , 181, 318-332	15.6	63
263	Structural and cellular differences between metaphyseal and diaphyseal periosteum in different aged rats. <i>Bone</i> , 2008 , 42, 81-9	4.7	63
262	Mesoporous bioactive glasses as drug delivery and bone tissue regeneration platforms. <i>Therapeutic Delivery</i> , 2011 , 2, 1189-98	3.8	61
261	Bioactive mesopore-glass microspheres with controllable protein-delivery properties by biomimetic surface modification. <i>Journal of Biomedical Materials Research - Part A</i> , 2010 , 95, 476-85	5.4	61
260	Differential effect of hydroxyapatite nano-particle versus nano-rod decorated titanium micro-surface on osseointegration. <i>Acta Biomaterialia</i> , 2018 , 76, 344-358	10.8	60
259	Aggravation of ADAMTS and matrix metalloproteinase production and role of ERK1/2 pathway in the interaction of osteoarthritic subchondral bone osteoblasts and articular cartilage chondrocytes -- possible pathogenic role in osteoarthritis. <i>Journal of Rheumatology</i> , 2012 , 39, 621-34	4.1	60
258	Osteoarthritic cartilage chondrocytes alter subchondral bone osteoblast differentiation via MAPK signalling pathway involving ERK1/2. <i>Bone</i> , 2010 , 46, 226-35	4.7	59
257	Phenotypic characterization of osteoarthritic osteocytes from the sclerotic zones: a possible pathological role in subchondral bone sclerosis. <i>International Journal of Biological Sciences</i> , 2012 , 8, 406-17	11.2	58
256	Nitric oxide synthase type-II is synthesized by human gingival tissue and cultured human gingival fibroblasts. <i>Journal of Periodontal Research</i> , 2000 , 35, 194-200	4.3	58
255	Saturated fatty acids induce development of both metabolic syndrome and osteoarthritis in rats. <i>Scientific Reports</i> , 2017 , 7, 46457	4.9	57

254	The Immunomodulatory Role of BMP-2 on Macrophages to Accelerate Osteogenesis. <i>Tissue Engineering - Part A</i> , 2018 , 24, 584-594	3.9	57
253	The effect of biomimetic calcium deficient hydroxyapatite and sintered β -tricalcium phosphate on osteoimmune reaction and osteogenesis. <i>Acta Biomaterialia</i> , 2019 , 96, 605-618	10.8	56
252	Non-destructive evaluation of articular cartilage defects using near-infrared (NIR) spectroscopy in osteoarthritic rat models and its direct relation to Mankin score. <i>Osteoarthritis and Cartilage</i> , 2012 , 20, 1367-73	6.2	55
251	The ratio of VEGF/PEDF expression in bone marrow mesenchymal stem cells regulates neovascularization. <i>Differentiation</i> , 2011 , 81, 181-91	3.5	55
250	Europium-Containing Mesoporous Bioactive Glass Scaffolds for Stimulating in Vitro and in Vivo Osteogenesis. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 11342-54	9.5	53
249	RANKL-induced M1 macrophages are involved in bone formation. <i>Bone Research</i> , 2017 , 5, 17019	13.3	52
248	Novel β -Ti35Zr28Nb alloy scaffolds manufactured using selective laser melting for bone implant applications. <i>Acta Biomaterialia</i> , 2019 , 87, 273-284	10.8	52
247	Preparation, characterization and in vitro angiogenic capacity of cobalt substituted β -tricalcium phosphate ceramics. <i>Journal of Materials Chemistry</i> , 2012 , 22, 21686		51
246	Effects of hyperbaric oxygen on proliferation and differentiation of osteoblasts from human alveolar bone. <i>Connective Tissue Research</i> , 2007 , 48, 206-13	3.3	51
245	3D-printed cellular structures for bone biomimetic implants. <i>Additive Manufacturing</i> , 2017 , 15, 93-101	6.1	49
244	Obesity-associated metabolic syndrome spontaneously induces infiltration of pro-inflammatory macrophage in synovium and promotes osteoarthritis. <i>PLoS ONE</i> , 2017 , 12, e0183693	3.7	49
243	The microRNA expression signature on modified titanium implant surfaces influences genetic mechanisms leading to osteogenic differentiation. <i>Acta Biomaterialia</i> , 2012 , 8, 3516-23	10.8	49
242	Polymer nanocarrier system for endosome escape and timed release of siRNA with complete gene silencing and cell death in cancer cells. <i>Biomacromolecules</i> , 2013 , 14, 3386-9	6.9	48
241	Expression pattern of Oct-4, Sox2, and c-Myc in the primary culture of human dental pulp derived cells. <i>Journal of Endodontics</i> , 2011 , 37, 466-72	4.7	48
240	Development and transplantation of a mineralized matrix formed by osteoblasts in vitro for bone regeneration. <i>Cell Transplantation</i> , 2004 , 13, 15-25	4	48
239	Detection of tissue plasminogen activator (t-PA) and plasminogen activator inhibitor 2(PAI-2) in gingival crevicular fluid from healthy, gingivitis and periodontitis patients. <i>Journal of Clinical Periodontology</i> , 2000 , 27, 149-56	7.7	48
238	Dihydrolipoic Acid-Gold Nanoclusters Regulate Microglial Polarization and Have the Potential To Alter Neurogenesis. <i>Nano Letters</i> , 2020 , 20, 478-495	11.5	47
237	Biological responses of human bone marrow mesenchymal stem cells to Sr-M-Si (M = Zn, Mg) silicate bioceramics. <i>Journal of Biomedical Materials Research - Part A</i> , 2012 , 100, 2979-90	5.4	46

236	Nutrient element-based bioceramic coatings on titanium alloy stimulating osteogenesis by inducing beneficial osteoimmunomodulation. <i>Journal of Materials Chemistry B</i> , 2014 , 2, 6030-6043	7.3	45
235	Protective effects of mitochondria-targeted antioxidants and statins on cholesterol-induced osteoarthritis. <i>FASEB Journal</i> , 2017 , 31, 356-367	0.9	45
234	RANKL expression in periodontal disease: where does RANKL come from?. <i>BioMed Research International</i> , 2014 , 2014, 731039	3	45
233	Proteomic profiling of distinct clonal populations of bone marrow mesenchymal stem cells. <i>Journal of Cellular Biochemistry</i> , 2009 , 106, 776-86	4.7	45
232	Endothelium-Mimicking Multifunctional Coating Modified Cardiovascular Stents via a Stepwise Metal-Catechol-(Amine) Surface Engineering Strategy. <i>Research</i> , 2020 , 2020, 9203906	7.8	45
231	In vitro and in vivo evaluation of adenovirus combined silk fibroin scaffolds for bone morphogenetic protein-7 gene delivery. <i>Tissue Engineering - Part C: Methods</i> , 2011 , 17, 789-97	2.9	43
230	3D printing of metal-organic framework nanosheets-structured scaffolds with tumor therapy and bone construction. <i>Biofabrication</i> , 2020 , 12, 025005	10.5	39
229	The effects of implant topography on osseointegration under estrogen deficiency induced osteoporotic conditions: Histomorphometric, transcriptional and ultrastructural analysis. <i>Acta Biomaterialia</i> , 2016 , 42, 351-363	10.8	39
228	Growth hormone induces bone morphogenetic proteins and bone-related proteins in the developing rat periodontium. <i>Journal of Bone and Mineral Research</i> , 2001 , 16, 1068-76	6.3	38
227	The osteoimmunomodulatory property of a barrier collagen membrane and its manipulation via coating nanometer-sized bioactive glass to improve guided bone regeneration. <i>Biomaterials Science</i> , 2018 , 6, 1007-1019	7.4	37
226	Immunomodulatory Role of Stem Cells from Human Exfoliated Deciduous Teeth on Periodontal Regeneration. <i>Tissue Engineering - Part A</i> , 2018 , 24, 1341-1353	3.9	37
225	Systematic Identification, Characterization and Target Gene Analysis of microRNAs Involved in Osteoarthritis Subchondral Bone Pathogenesis. <i>Calcified Tissue International</i> , 2016 , 99, 43-55	3.9	37
224	Effects of varied ionic calcium and phosphate on the proliferation, osteogenic differentiation and mineralization of human periodontal ligament cells in vitro. <i>Journal of Periodontal Research</i> , 2012 , 47, 374-82	4.3	37
223	Inhibition of p38 pathway leads to OA-like changes in a rat animal model. <i>Rheumatology</i> , 2012 , 51, 813-23.9	3.9	37
222	Pro-osteogenic topographical cues promote early activation of osteoprogenitor differentiation via enhanced TGF β /Wnt, and Notch signaling. <i>Clinical Oral Implants Research</i> , 2014 , 25, 475-86	4.8	37
221	Nagelschmidite bioceramics with osteostimulation properties: material chemistry activating osteogenic genes and WNT signalling pathway of human bone marrow stromal cells. <i>Journal of Materials Chemistry B</i> , 2013 , 1, 876-885	7.3	36
220	Cholesterol metabolism in pathogenesis of osteoarthritis disease. <i>International Journal of Rheumatic Diseases</i> , 2017 , 20, 131-140	2.3	35
219	The effect of hypoxia on the stemness and differentiation capacity of PDLC and DPC. <i>BioMed Research International</i> , 2014 , 2014, 890675	3	35

218	Mesoporous bioactive glass scaffolds for efficient delivery of vascular endothelial growth factor. <i>Journal of Biomaterials Applications</i> , 2013 , 28, 367-74	2.9	35
217	Combination of MEK-ERK inhibitor and hyaluronic acid has a synergistic effect on anti-hypertrophic and pro-chondrogenic activities in osteoarthritis treatment. <i>Journal of Molecular Medicine</i> , 2013 , 91, 369-380	5.5	34
216	In situ preparation and protein delivery of silicate-alginate composite microspheres with core-shell structure. <i>Journal of the Royal Society Interface</i> , 2011 , 8, 1804-14	4.1	34
215	Amphiphilic triblock copolymers of methoxy-poly(ethylene glycol)-b-poly(L-lactide)-b-poly(L-lysine) for enhancement of osteoblast attachment and growth. <i>Biomacromolecules</i> , 2009 , 10, 95-104	6.9	34
214	Impact of extracellular matrix derived from osteoarthritis subchondral bone osteoblasts on osteocytes: role of integrin α and focal adhesion kinase signaling cues. <i>Arthritis Research and Therapy</i> , 2013 , 15, R150	5.7	33
213	CaSiO $_3$ microstructure modulating the in vitro and in vivo bioactivity of poly(lactide-co-glycolide) microspheres. <i>Journal of Biomedical Materials Research - Part A</i> , 2011 , 98, 122-31	5.4	33
212	Identification of bone morphogenetic proteins 2 and 4 in commercial demineralized freeze-dried bone allograft preparations: pilot study. <i>Clinical Implant Dentistry and Related Research</i> , 2000 , 2, 110-7	3.9	33
211	Near infrared (NIR) absorption spectra correlates with subchondral bone micro-CT parameters in osteoarthritic rat models. <i>Bone</i> , 2013 , 53, 350-7	4.7	32
210	Differentially expressed protein profile of human dental pulp cells in the early process of odontoblast-like differentiation in vitro. <i>Journal of Endodontics</i> , 2008 , 34, 1077-84	4.7	32
209	Clonal characterization of bone marrow derived stem cells and their application for bone regeneration. <i>International Journal of Oral Science</i> , 2010 , 2, 127-35	27.9	32
208	Structural and cellular features in metaphyseal and diaphyseal periosteum of osteoporotic rats. <i>Journal of Molecular Histology</i> , 2010 , 41, 51-60	3.3	31
207	Immunohistochemical demonstration of the plasminogen activator system in human gingival tissues and gingival fibroblasts. <i>Journal of Periodontal Research</i> , 1998 , 33, 17-26	4.3	30
206	Recent progress on the role of miR-140 in cartilage matrix remodelling and its implications for osteoarthritis treatment. <i>Arthritis Research and Therapy</i> , 2020 , 22, 194	5.7	30
205	Early osteogenic differential protein profile detected by proteomic analysis in human periodontal ligament cells. <i>Journal of Periodontal Research</i> , 2009 , 44, 645-56	4.3	29
204	Enhanced proliferation, attachment and osteopontin expression by porcine periodontal cells exposed to Emdogain. <i>Archives of Oral Biology</i> , 2005 , 50, 1047-54	2.8	29
203	Surface modification by complexes of vitronectin and growth factors for serum-free culture of human osteoblasts. <i>Tissue Engineering</i> , 2005 , 11, 1688-98		29
202	Exosome-mediated delivery of gene vectors for gene therapy. <i>Nanoscale</i> , 2021 , 13, 1387-1397	7.7	29
201	Strategies to direct vascularisation using mesoporous bioactive glass-based biomaterials for bone regeneration. <i>International Materials Reviews</i> , 2017 , 62, 392-414	16.1	28

200	Effect of bone morphogenetic protein-4 on the expression of Sox2, Oct-4, and c-Myc in human periodontal ligament cells during long-term culture. <i>Stem Cells and Development</i> , 2013 , 22, 1670-7	4.4	28
199	Characterization of a mesenchymal-like stem cell population from osteophyte tissue. <i>Stem Cells and Development</i> , 2008 , 17, 245-54	4.4	28
198	Blood clot formed on rough titanium surface induces early cell recruitment. <i>Clinical Oral Implants Research</i> , 2016 , 27, 1031-8	4.8	28
197	Immunomodulatory effects of mesoporous silica nanoparticles on osteogenesis: From nanoimmunotoxicity to nanoimmunotherapy. <i>Applied Materials Today</i> , 2018 , 10, 184-193	6.6	28
196	Pro-resolving lipid mediator ameliorates obesity induced osteoarthritis by regulating synovial macrophage polarisation. <i>Scientific Reports</i> , 2019 , 9, 426	4.9	27
195	SPHK1-S1PR1-RANKL Axis Regulates the Interactions Between Macrophages and BMSCs in Inflammatory Bone Loss. <i>Journal of Bone and Mineral Research</i> , 2018 , 33, 1090-1104	6.3	27
194	Osteocyte-induced angiogenesis via VEGF-MAPK-dependent pathways in endothelial cells. <i>Molecular and Cellular Biochemistry</i> , 2014 , 386, 15-25	4.2	27
193	Hyperlipidemia impaired innate immune response to periodontal pathogen porphyromonas gingivalis in apolipoprotein E knockout mice. <i>PLoS ONE</i> , 2013 , 8, e71849	3.7	27
192	Extracellular vesicles: Potential role in osteoarthritis regenerative medicine. <i>Journal of Orthopaedic Translation</i> , 2020 , 21, 73-80	4.2	27
191	Bio-inspired hybrid nanoparticles promote vascularized bone regeneration in a morphology-dependent manner. <i>Nanoscale</i> , 2017 , 9, 5794-5805	7.7	26
190	Accelerated host angiogenesis and immune responses by ion release from mesoporous bioactive glass. <i>Journal of Materials Chemistry B</i> , 2018 , 6, 3274-3284	7.3	25
189	Gene expression profiling of bone marrow stromal cells from juvenile, adult, aged and osteoporotic rats: with an emphasis on osteoporosis. <i>Bone</i> , 2007 , 40, 700-15	4.7	25
188	Effect of lipopolysaccharide from periodontal pathogens on the production of tissue plasminogen activator and plasminogen activator inhibitor 2 by human gingival fibroblasts. <i>Journal of Periodontal Research</i> , 2001 , 36, 25-31	4.3	25
187	Near infrared spectroscopy for rapid determination of Mankin score components: a potential tool for quantitative characterization of articular cartilage at surgery. <i>Arthroscopy - Journal of Arthroscopic and Related Surgery</i> , 2014 , 30, 1146-55	5.4	24
186	The ionic products from bredigite bioceramics induced cementogenic differentiation of periodontal ligament cells via activation of the Wnt/ β -catenin signalling pathway. <i>Journal of Materials Chemistry B</i> , 2013 , 1, 3380-3389	7.3	24
185	Application of autologous periosteal cells for the regeneration of class III furcation defects in Beagle dogs. <i>Cytotechnology</i> , 2010 , 62, 235-43	2.2	24
184	FeO@TiO ₂ -Laden Neutrophils Activate Innate Immunity via Photosensitive Reactive Oxygen Species Release. <i>Nano Letters</i> , 2020 , 20, 261-271	11.5	24
183	Characterization of nano-structural and nano-mechanical properties of osteoarthritic subchondral bone. <i>BMC Musculoskeletal Disorders</i> , 2016 , 17, 367	2.8	24

182	Biophysical response of living cells to boron nitride nanoparticles: uptake mechanism and bio-mechanical characterization. <i>Journal of Nanoparticle Research</i> , 2015 , 17, 1	2.3	23
181	Immunoregulatory role of exosomes derived from differentiating mesenchymal stromal cells on inflammation and osteogenesis. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2019 , 13, 1978-1991	4.4	23
180	Lithium release from β-tricalcium phosphate inducing cementogenic and osteogenic differentiation of both hPDLCs and hBMSCs. <i>Biomaterials Science</i> , 2014 , 2, 1230-1243	7.4	23
179	Stem cell-related gene expression in clonal populations of mesenchymal stromal cells from bone marrow. <i>Tissue Engineering - Part A</i> , 2010 , 16, 749-58	3.9	23
178	Expression of extracellular matrix macromolecules around demineralized freeze-dried bone allografts. <i>Journal of Periodontology</i> , 1996 , 67, 1233-44	4.6	23
177	Alteration of blood clot structures by interleukin-1 beta in association with bone defects healing. <i>Scientific Reports</i> , 2016 , 6, 35645	4.9	23
176	Is Synovial Macrophage Activation the Inflammatory Link Between Obesity and Osteoarthritis?. <i>Current Rheumatology Reports</i> , 2016 , 18, 57	4.9	22
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