

Yin Xiao

List of Publications by Year in descending order

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345
papers

17,845
citations

9786

73
h-index

21540

114
g-index

356
all docs

356
docs citations

356
times ranked

18100
citing authors

#	ARTICLE	IF	CITATIONS
1	Copper-containing mesoporous bioactive glass scaffolds with multifunctional properties of angiogenesis capacity, osteostimulation and antibacterial activity. <i>Biomaterials</i> , 2013, 34, 422-433.	11.4	679
2	Osteoimmunomodulation for the development of advanced bone biomaterials. <i>Materials Today</i> , 2016, 19, 304-321.	14.2	513
3	The Horizon of Materiobiology: A Perspective on Material-Guided Cell Behaviors and Tissue Engineering. <i>Chemical Reviews</i> , 2017, 117, 4376-4421.	47.7	424
4	Hypoxia-mimicking mesoporous bioactive glass scaffolds with controllable cobalt ion release for bone tissue engineering. <i>Biomaterials</i> , 2012, 33, 2076-2085.	11.4	393
5	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, 2644-2650.	8.3	324
6	Osteogenic differentiation of bone marrow MSCs by β -tricalcium phosphate stimulating macrophages via BMP2 signalling pathway. <i>Biomaterials</i> , 2014, 35, 1507-1518.	11.4	262
7	Tuning Chemistry and Topography of Nanoengineered Surfaces to Manipulate Immune Response for Bone Regeneration Applications. <i>ACS Nano</i> , 2017, 11, 4494-4506.	14.6	223
8	Osteoimmunomodulatory properties of magnesium scaffolds coated with β -tricalcium phosphate. <i>Biomaterials</i> , 2014, 35, 8553-8565.	11.4	215
9	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.	5.4	209
10	Copper-doped mesoporous silica nanospheres, a promising immunomodulatory agent for inducing osteogenesis. <i>Acta Biomaterialia</i> , 2016, 30, 334-344.	8.3	209
11	A multifaceted coating on titanium dictates osteoimmunomodulation and osteo/angio-genesis towards ameliorative osseointegration. <i>Biomaterials</i> , 2018, 162, 154-169.	11.4	206
12	A biphasic scaffold design combined with cell sheet technology for simultaneous regeneration of alveolar bone/periodontal ligament complex. <i>Biomaterials</i> , 2012, 33, 5560-5573.	11.4	199
13	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, 516-528.	4.8	193
14	Mechanical and biological properties of hydroxyapatite/tricalcium phosphate scaffolds coated with poly(lactic-co-glycolic acid). <i>Acta Biomaterialia</i> , 2008, 4, 638-645.	8.3	187
15	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, 3805-3815.	8.3	187
16	3D-printing of highly uniform CaSiO ₃ ceramic scaffolds: preparation, characterization and in vivo osteogenesis. <i>Journal of Materials Chemistry</i> , 2012, 22, 12288.	6.7	182
17	Structure–property relationships of silk-modified mesoporous bioglass scaffolds. <i>Biomaterials</i> , 2010, 31, 3429-3438.	11.4	178
18	Expression of Mineralization Markers in Dental Pulp Cells. <i>Journal of Endodontics</i> , 2007, 33, 703-708.	3.1	175

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19	Stimulation of osteogenesis and angiogenesis of hBMSCs by delivering Si ions and functional drug from mesoporous silica nanospheres. <i>Acta Biomaterialia</i> , 2015, 21, 178-189.	8.3	173
20	Multifunctional magnetic mesoporous bioactive glass scaffolds with a hierarchical pore structure. <i>Acta Biomaterialia</i> , 2011, 7, 3563-3572.	8.3	171
21	The effect of osteoimmunomodulation on the osteogenic effects of cobalt incorporated β -tricalcium phosphate. <i>Biomaterials</i> , 2015, 61, 126-138.	11.4	163
22	Stiffness and strength tailoring of cobalt chromium graded cellular structures for stress-shielding reduction. <i>Materials and Design</i> , 2017, 114, 633-641.	7.0	163
23	Copper Silicate Hollow Microspheres-Incorporated Scaffolds for Chemo-Photothermal Therapy of Melanoma and Tissue Healing. <i>ACS Nano</i> , 2018, 12, 2695-2707.	14.6	158
24	An influenza virus-inspired polymer system for the timed release of siRNA. <i>Nature Communications</i> , 2013, 4, 1902.	12.8	155
25	Increased Neutrophil Elastase and Proteinase 3 and Augmented NETosis Are Closely Associated With β -Cell Autoimmunity in Patients With Type 1 Diabetes. <i>Diabetes</i> , 2014, 63, 4239-4248.	0.6	154
26	Nanotechnology in the targeted drug delivery for bone diseases and bone regeneration. <i>International Journal of Nanomedicine</i> , 2013, 8, 2305.	6.7	146
27	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, 3580-3589.	11.4	144
28	Europium-doped mesoporous silica nanosphere as an immune-modulating osteogenesis/angiogenesis agent. <i>Biomaterials</i> , 2017, 144, 176-187.	11.4	144
29	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, 3021-3028.	8.3	141
30	A bifunctional scaffold with CuFeSe ₂ nanocrystals for tumor therapy and bone reconstruction. <i>Biomaterials</i> , 2018, 160, 92-106.	11.4	139
31	Gold nanoparticles modulate the crosstalk between macrophages and periodontal ligament cells for periodontitis treatment. <i>Biomaterials</i> , 2019, 206, 115-132.	11.4	139
32	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, 4264-4276.	8.0	136
33	Exosome-mediated delivery of gene vectors for gene therapy. <i>Nanoscale</i> , 2021, 13, 1387-1397.	5.6	136
34	Nanoporous microstructures mediate osteogenesis by modulating the osteo-immune response of macrophages. <i>Nanoscale</i> , 2017, 9, 706-718.	5.6	134
35	A comparative study of mesoporous glass/silk and non-mesoporous glass/silk scaffolds: Physiochemistry and in vivo osteogenesis. <i>Acta Biomaterialia</i> , 2011, 7, 2229-2236.	8.3	127
36	Exosome-integrated titanium oxide nanotubes for targeted bone regeneration. <i>Acta Biomaterialia</i> , 2019, 86, 480-492.	8.3	127

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37	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, 6370-6379.	11.4	124
38	The influence of cellular source on periodontal regeneration using calcium phosphate coated polycaprolactone scaffold supported cell sheets. <i>Biomaterials</i> , 2014, 35, 113-122.	11.4	123
39	Graphene-oxide-modified β -tricalcium phosphate bioceramics stimulate in vitro and in vivo osteogenesis. <i>Carbon</i> , 2015, 93, 116-129.	10.3	116
40	The osteogenic properties of CaP/silk composite scaffolds. <i>Biomaterials</i> , 2010, 31, 2848-2856.	11.4	114
41	Bioactive SrO-SiO ₂ glass with well-ordered mesopores: Characterization, physiochemistry and biological properties. <i>Acta Biomaterialia</i> , 2011, 7, 1797-1806.	8.3	113
42	Nanotopography-based strategy for the precise manipulation of osteoimmunomodulation in bone regeneration. <i>Nanoscale</i> , 2017, 9, 18129-18152.	5.6	113
43	Effects of Simvastatin on bone healing around titanium implants in osteoporotic rats. <i>Clinical Oral Implants Research</i> , 2009, 20, 145-150.	4.5	111
44	Vertical inhibition of the PI3K/Akt/mTOR pathway for the treatment of osteoarthritis. <i>Journal of Cellular Biochemistry</i> , 2013, 114, 245-249.	2.6	108
45	Tissue Engineering for Bone Regeneration Using Differentiated Alveolar Bone Cells in Collagen Scaffolds. <i>Tissue Engineering</i> , 2003, 9, 1167-1177.	4.6	107
46	Principles and applications of cell delivery systems for periodontal regeneration. <i>Periodontology</i> 2000, 2006, 41, 123-135.	13.4	106
47	Genetic evidence for the vital function of osterix in cementogenesis. <i>Journal of Bone and Mineral Research</i> , 2012, 27, 1080-1092.	2.8	101
48	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, 428-438.	8.3	101
49	Clonal Isolation and Characterization of Bone Marrow Stromal Cells from Patients with Osteoarthritis. <i>Tissue Engineering</i> , 2007, 13, 819-829.	4.6	99
50	Application of Autologous Cryopreserved Bone Marrow Mesenchymal Stem Cells for Periodontal Regeneration in Dogs. <i>Cells Tissues Organs</i> , 2009, 190, 94-101.	2.3	98
51	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.	6.7	98
52	The Immunomodulatory Role of BMP-2 on Macrophages to Accelerate Osteogenesis. <i>Tissue Engineering - Part A</i> , 2018, 24, 584-594.	3.1	98
53	RANKL-induced M1 macrophages are involved in bone formation. <i>Bone Research</i> , 2017, 5, 17019.	11.4	97
54	Formation of Blood Clot on Biomaterial Implants Influences Bone Healing. <i>Tissue Engineering - Part B: Reviews</i> , 2014, 20, 697-712.	4.8	96

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55	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.	8.3	95
56	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, 789-795.	3.6	94
57	Effect of nano-structural properties of biomimetic hydroxyapatite on osteoimmunomodulation. <i>Biomaterials</i> , 2018, 181, 318-332.	11.4	94
58	Differential effect of hydroxyapatite nano-particle versus nano-rod decorated titanium micro-surface on osseointegration. <i>Acta Biomaterialia</i> , 2018, 76, 344-358.	8.3	93
59	Dihydrolipoic Acid-Gold Nanoclusters Regulate Microglial Polarization and Have the Potential To Alter Neurogenesis. <i>Nano Letters</i> , 2020, 20, 478-495.	9.1	92
60	ERK1/2 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, 1349-1360.	6.7	91
61	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, 9159-9168.	8.3	91
62	Activation of the Canonical Wnt Signaling Pathway Induces Cementum Regeneration. <i>Journal of Bone and Mineral Research</i> , 2015, 30, 1160-1174.	2.8	91
63	3D-printed cellular structures for bone biomimetic implants. <i>Additive Manufacturing</i> , 2017, 15, 93-101.	3.0	91
64	Clinoenstatite coatings have high bonding strength, bioactive ion release, and osteoimmunomodulatory effects that enhance in vivo osseointegration. <i>Biomaterials</i> , 2015, 71, 35-47.	11.4	88
65	3D printing of metal-organic framework nanosheets-structured scaffolds with tumor therapy and bone construction. <i>Biofabrication</i> , 2020, 12, 025005.	7.1	87
66	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, 2307-2316.	8.3	85
67	Novel β -Ti35Zr28Nb alloy scaffolds manufactured using selective laser melting for bone implant applications. <i>Acta Biomaterialia</i> , 2019, 87, 273-284.	8.3	85
68	A micro/nano-biomimetic coating on titanium orchestrates osteo/angiogenesis and osteoimmunomodulation for advanced osseointegration. <i>Biomaterials</i> , 2021, 278, 121162.	11.4	84
69	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, 1368-1376.	3.1	82
70	Endothelium-Mimicking Multifunctional Coating Modified Cardiovascular Stents via a Stepwise Metal-Catechol-(Amine) Surface Engineering Strategy. <i>Research</i> , 2020, 2020, 9203906.	5.7	81
71	A Biodegradable Conductive Scaffold for Osteochondral Defect Regeneration. <i>Advanced Functional Materials</i> , 2014, 24, 4473-4483.	14.9	80
72	Mesoporous bioactive glasses as drug delivery and bone tissue regeneration platforms. <i>Therapeutic Delivery</i> , 2011, 2, 1189-1198.	2.2	78

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73	Xenotransplantation of Long-Term-Cultured Swine Bone Marrow-Derived Mesenchymal Stem Cells. Stem Cells, 2007, 25, 612-620.	3.2	77
74	A comparative study of Sr-incorporated mesoporous bioactive glass scaffolds for regeneration of osteopenic bone defects. Osteoporosis International, 2014, 25, 2089-2096.	3.1	76
75	Phenotypic Characterization of Osteoarthritic Osteocytes from the Sclerotic Zones: A Possible Pathological Role in Subchondral Bone Sclerosis. International Journal of Biological Sciences, 2012, 8, 406-417.	6.4	74
76	Protective effects of mitochondria-targeted antioxidants and statins on cholesterol-induced osteoarthritis. FASEB Journal, 2017, 31, 356-367.	0.5	74
77	Structural and cellular differences between metaphyseal and diaphyseal periosteum in different aged rats. Bone, 2008, 42, 81-89.	2.9	73
78	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. Journal of Rheumatology, 2012, 39, 621-634.	2.0	72
79	Saturated fatty acids induce development of both metabolic syndrome and osteoarthritis in rats. Scientific Reports, 2017, 7, 46457.	3.3	71
80	Cholesterol metabolism in pathogenesis of osteoarthritis disease. International Journal of Rheumatic Diseases, 2017, 20, 131-140.	1.9	71
81	Bioactive mesoporous glass microspheres with controllable protein delivery properties by biomimetic surface modification. Journal of Biomedical Materials Research - Part A, 2010, 95A, 476-485.	4.0	70
82	Obesity-associated metabolic syndrome spontaneously induces infiltration of pro-inflammatory macrophage in synovium and promotes osteoarthritis. PLoS ONE, 2017, 12, e0183693.	2.5	69
83	Europium-Containing Mesoporous Bioactive Glass Scaffolds for Stimulating in Vitro and in Vivo Osteogenesis. ACS Applied Materials & Interfaces, 2016, 8, 11342-11354.	8.0	68
84	Osteoarthritic cartilage chondrocytes alter subchondral bone osteoblast differentiation via MAPK signalling pathway involving ERK1/2. Bone, 2010, 46, 226-235.	2.9	67
85	Nitric oxide synthase type-II is synthesized by human gingival tissue and cultured human gingival fibroblasts. Journal of Periodontal Research, 2000, 35, 194-200.	2.7	66
86	Non-destructive evaluation of articular cartilage defects using near-infrared (NIR) spectroscopy in osteoarthritic rat models and its direct relation to Mankin score. Osteoarthritis and Cartilage, 2012, 20, 1367-1373.	1.3	66
87	RANKL Expression in Periodontal Disease: Where Does RANKL Come from?. BioMed Research International, 2014, 2014, 1-7.	1.9	65
88	The ratio of VEGF/PEDF expression in bone marrow mesenchymal stem cells regulates neovascularization. Differentiation, 2011, 81, 181-191.	1.9	64
89	The osteoimmunomodulatory property of a barrier collagen membrane and its manipulation via coating nanometer-sized bioactive glass to improve guided bone regeneration. Biomaterials Science, 2018, 6, 1007-1019.	5.4	64
90	Preparation, characterization and in vitro angiogenic capacity of cobalt substituted β -tricalcium phosphate ceramics. Journal of Materials Chemistry, 2012, 22, 21686.	6.7	63

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91	Effects of Hyperbaric Oxygen on Proliferation and Differentiation of Osteoblasts from Human Alveolar Bone. <i>Connective Tissue Research</i> , 2007, 48, 206-213.	2.3	61
92	Immunomodulatory Role of Stem Cells from Human Exfoliated Deciduous Teeth on Periodontal Regeneration. <i>Tissue Engineering - Part A</i> , 2018, 24, 1341-1353.	3.1	60
93	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, 466-472.	3.1	57
94	Targeting Early Healing Phase with Titania Nanotube Arrays on Tunable Diameters to Accelerate Bone Regeneration and Osseointegration. <i>Small</i> , 2021, 17, e2006287.	10.0	57
95	Accelerated host angiogenesis and immune responses by ion release from mesoporous bioactive glass. <i>Journal of Materials Chemistry B</i> , 2018, 6, 3274-3284.	5.8	56
96	Proteomic profiling of distinct clonal populations of bone marrow mesenchymal stem cells. <i>Journal of Cellular Biochemistry</i> , 2009, 106, 776-786.	2.6	55
97	Biological responses of human bone marrow mesenchymal stem cells to Sr ϵ M ϵ Si (M = Zn, Mg) silicate bioceramics. <i>Journal of Biomedical Materials Research - Part A</i> , 2012, 100A, 2979-2990.	4.0	54
98	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.	5.8	54
99	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, 149-156.	4.9	52
100	The microRNA expression signature on modified titanium implant surfaces influences genetic mechanisms leading to osteogenic differentiation. <i>Acta Biomaterialia</i> , 2012, 8, 3516-3523.	8.3	52
101	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, 3386-3389.	5.4	52
102	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.	3.5	52
103	Effects of varied ionic calcium and phosphate on the proliferation, osteogenic differentiation and mineralization of human periodontal ligament cells <i>in vitro</i> . <i>Journal of Periodontal Research</i> , 2012, 47, 374-382.	2.7	50
104	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.	8.3	50
105	Pro ϵ osteogenic topographical cues promote early activation of osteoprogenitor differentiation via enhanced $\langle \text{TGF}\beta^2 \rangle$, $\langle \text{Wnt} \rangle$, and Notch signaling. <i>Clinical Oral Implants Research</i> , 2014, 25, 475-486.	4.5	50
106	Development and Transplantation of a Mineralized Matrix Formed by Osteoblasts in Vitro for Bone Regeneration. <i>Cell Transplantation</i> , 2004, 13, 15-25.	2.5	49
107	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.	3.9	49
108	Injectable bone cement with magnesium-containing microspheres enhances osteogenesis via anti-inflammatory immunoregulation. <i>Bioactive Materials</i> , 2021, 6, 3411-3423.	15.6	49

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109	The Effect of Hypoxia on the Stemness and Differentiation Capacity of PDLC and DPC. BioMed Research International, 2014, 2014, 1-7.	1.9	48
110	Immunoregulatory role of exosomes derived from differentiating mesenchymal stromal cells on inflammation and osteogenesis. Journal of Tissue Engineering and Regenerative Medicine, 2019, 13, 1978-1991.	2.7	48
111	<i>In Vitro</i> and <i>In Vivo</i> Evaluation of Adenovirus Combined Silk Fibroin Scaffolds for Bone Morphogenetic Protein-7 Gene Delivery. Tissue Engineering - Part C: Methods, 2011, 17, 789-797.	2.1	46
112	SPHK1-S1PR1-RANKL Axis Regulates the Interactions Between Macrophages and BMSCs in Inflammatory Bone Loss. Journal of Bone and Mineral Research, 2018, 33, 1090-1104.	2.8	46
113	Exosomes Extraction and Identification. Methods in Molecular Biology, 2019, 2054, 81-91.	0.9	46
114	Pro-resolving lipid mediator ameliorates obesity induced osteoarthritis by regulating synovial macrophage polarisation. Scientific Reports, 2019, 9, 426.	3.3	45
115	Mesoporous bioactive glass scaffolds for efficient delivery of vascular endothelial growth factor. Journal of Biomaterials Applications, 2013, 28, 367-374.	2.4	44
116	Strategies to direct vascularisation using mesoporous bioactive glass-based biomaterials for bone regeneration. International Materials Reviews, 2017, 62, 392-414.	19.3	44
117	Immunomodulatory effects of mesoporous silica nanoparticles on osteogenesis: From nanoimmunotoxicity to nanoimmunotherapy. Applied Materials Today, 2018, 10, 184-193.	4.3	44
118	Fe ₃ O ₄ @TiO ₂ -Laden Neutrophils Activate Innate Immunity via Photosensitive Reactive Oxygen Species Release. Nano Letters, 2020, 20, 261-271.	9.1	44
119	Inhibition of p38 pathway leads to OA-like changes in a rat animal model. Rheumatology, 2012, 51, 813-823.	1.9	43
120	Systematic Identification, Characterization and Target Gene Analysis of microRNAs Involved in Osteoarthritis Subchondral Bone Pathogenesis. Calcified Tissue International, 2016, 99, 43-55.	3.1	43
121	Growth Hormone Induces Bone Morphogenetic Proteins and Bone-Related Proteins in the Developing Rat Periodontium. Journal of Bone and Mineral Research, 2001, 16, 1068-1076.	2.8	42
122	Structural properties of fracture haematoma: current status and future clinical implications. Journal of Tissue Engineering and Regenerative Medicine, 2017, 11, 2864-2875.	2.7	42
123	Patient-Specific Bone Particles Bioprinting for Bone Tissue Engineering. Advanced Healthcare Materials, 2020, 9, e2001323.	7.6	42
124	Near-Infrared Light-Sensitive Nano Neuro-Immune Blocker Capsule Relieves Pain and Enhances the Innate Immune Response for Necrotizing Infection. Nano Letters, 2019, 19, 5904-5914.	9.1	41
125	Graphene oxide coated Titanium Surfaces with Osteoimmunomodulatory Role to Enhance Osteogenesis. Materials Science and Engineering C, 2020, 113, 110983.	7.3	41
126	Identification of Bone Morphogenetic Proteins 2 and 4 in Commercial Demineralized Freeze-dried Bone Allograft Preparations: Pilot Study. Clinical Implant Dentistry and Related Research, 2000, 2, 110-117.	3.7	40

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127	Dual Functional Monocytes Modulate Bactericidal and Anti-Inflammation Process for Severe Osteomyelitis Treatment. <i>Small</i> , 2020, 16, e1905185.	10.0	40
128	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.	8.6	40
129	Impact of extracellular matrix derived from osteoarthritis subchondral bone osteoblasts on osteocytes: role of integrin α 21 and focal adhesion kinase signaling cues. <i>Arthritis Research and Therapy</i> , 2013, 15, R150.	3.5	39
130	Extracellular vesicles: Potential role in osteoarthritis regenerative medicine. <i>Journal of Orthopaedic Translation</i> , 2020, 21, 73-80.	3.9	39
131	Mesoporous silica rods with cone shaped pores modulate inflammation and deliver BMP-2 for bone regeneration. <i>Nano Research</i> , 2020, 13, 2323-2331.	10.4	39
132	Early osteogenic differential protein profile detected by proteomic analysis in human periodontal ligament cells. <i>Journal of Periodontal Research</i> , 2009, 44, 645-656.	2.7	38
133	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, 1804-1814.	3.4	38
134	Osteocyte-induced angiogenesis via VEGF-MAPK-dependent pathways in endothelial cells. <i>Molecular and Cellular Biochemistry</i> , 2014, 386, 15-25.	3.1	38
135	Blood clot formed on rough titanium surface induces early cell recruitment. <i>Clinical Oral Implants Research</i> , 2016, 27, 1031-1038.	4.5	38
136	Synergistic regulation of osteoimmune microenvironment by IL-4 and RGD to accelerate osteogenesis. <i>Materials Science and Engineering C</i> , 2020, 109, 110508.	7.3	38
137	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, 98A, 122-131.	4.0	37
138	Nagelschmidtite 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.	5.8	37
139	Hyperlipidemia Impaired Innate Immune Response to Periodontal Pathogen <i>Porphyromonas gingivalis</i> in Apolipoprotein E Knockout Mice. <i>PLoS ONE</i> , 2013, 8, e71849.	2.5	37
140	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, 1077-1084.	3.1	36
141	Amphiphilic Triblock Copolymers of Methoxy-poly(ethylene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 187 Td (glycol)-poly(Osteoblast Attachment and Growth. <i>Biomacromolecules</i> , 2009, 10, 95-104.	5.4	36
142	Structural and cellular features in metaphyseal and diaphyseal periosteum of osteoporotic rats. <i>Journal of Molecular Histology</i> , 2010, 41, 51-60.	2.2	36
143	Near infrared (NIR) absorption spectra correlates with subchondral bone micro-CT parameters in osteoarthritic rat models. <i>Bone</i> , 2013, 53, 350-357.	2.9	35
144	S1P-S1PR1 Signaling: the Sphinx in Osteoimmunology. <i>Frontiers in Immunology</i> , 2019, 10, 1409.	4.8	35

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145	Immunomodulation-Based Strategy for Improving Soft Tissue and Metal Implant Integration and Its Implications in the Development of Metal Soft Tissue Materials. <i>Advanced Functional Materials</i> , 2020, 30, 1910672.	14.9	35
146	Dual-Wavelength Photosensitive Nano-in-Micro Scaffold Regulates Innate and Adaptive Immune Responses for Osteogenesis. <i>Nano-Micro Letters</i> , 2021, 13, 28.	27.0	35
147	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, 1670-1677.	2.1	34
148	Characterization of nano-structural and nano-mechanical properties of osteoarthritic subchondral bone. <i>BMC Musculoskeletal Disorders</i> , 2016, 17, 367.	1.9	34
149	Immunohistochemical demonstration of the plasminogen activator system in human gingival tissues and gingival fibroblasts. <i>Journal of Periodontal Research</i> , 1998, 33, 17-26.	2.7	33
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