

Yin Xiao

List of Publications by Year in descending order

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344
papers

17,845
citations

9756

73
h-index

21474

114
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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.	5.7	679
2	Osteoimmunomodulation for the development of advanced bone biomaterials. <i>Materials Today</i> , 2016, 19, 304-321.	8.3	513
3	The Horizon of Materiobiology: A Perspective on Material-Guided Cell Behaviors and Tissue Engineering. <i>Chemical Reviews</i> , 2017, 117, 4376-4421.	23.0	424
4	Hypoxia-mimicking mesoporous bioactive glass scaffolds with controllable cobalt ion release for bone tissue engineering. <i>Biomaterials</i> , 2012, 33, 2076-2085.	5.7	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.	4.1	324
6	Osteogenic differentiation of bone marrow MSCs by $\hat{1}^2$ -tricalcium phosphate stimulating macrophages via BMP2 signalling pathway. <i>Biomaterials</i> , 2014, 35, 1507-1518.	5.7	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.	7.3	223
8	Osteoimmunomodulatory properties of magnesium scaffolds coated with $\hat{1}^2$ -tricalcium phosphate. <i>Biomaterials</i> , 2014, 35, 8553-8565.	5.7	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.	2.6	209
10	Copper-doped mesoporous silica nanospheres, a promising immunomodulatory agent for inducing osteogenesis. <i>Acta Biomaterialia</i> , 2016, 30, 334-344.	4.1	209
11	A multifaceted coating on titanium dictates osteoimmunomodulation and osteo/angio-genesis towards ameliorative osseointegration. <i>Biomaterials</i> , 2018, 162, 154-169.	5.7	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.	5.7	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.	2.5	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.	4.1	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.	4.1	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.	5.7	178
18	Expression of Mineralization Markers in Dental Pulp Cells. <i>Journal of Endodontics</i> , 2007, 33, 703-708.	1.4	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.	4.1	173
20	Multifunctional magnetic mesoporous bioactive glass scaffolds with a hierarchical pore structure. <i>Acta Biomaterialia</i> , 2011, 7, 3563-3572.	4.1	171
21	The effect of osteoimmunomodulation on the osteogenic effects of cobalt incorporated β -tricalcium phosphate. <i>Biomaterials</i> , 2015, 61, 126-138.	5.7	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.	3.3	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.	7.3	158
24	An influenza virus-inspired polymer system for the timed release of siRNA. <i>Nature Communications</i> , 2013, 4, 1902.	5.8	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.	0.3	154
26	Nanotechnology in the targeted drug delivery for bone diseases and bone regeneration. <i>International Journal of Nanomedicine</i> , 2013, 8, 2305.	3.3	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.	5.7	144
28	Europium-doped mesoporous silica nanosphere as an immune-modulating osteogenesis/angiogenesis agent. <i>Biomaterials</i> , 2017, 144, 176-187.	5.7	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.	4.1	141
30	A bifunctional scaffold with CuFeSe ₂ nanocrystals for tumor therapy and bone reconstruction. <i>Biomaterials</i> , 2018, 160, 92-106.	5.7	139
31	Gold nanoparticles modulate the crosstalk between macrophages and periodontal ligament cells for periodontitis treatment. <i>Biomaterials</i> , 2019, 206, 115-132.	5.7	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.	4.0	136
33	Exosome-mediated delivery of gene vectors for gene therapy. <i>Nanoscale</i> , 2021, 13, 1387-1397.	2.8	136
34	Nanoporous microstructures mediate osteogenesis by modulating the osteo-immune response of macrophages. <i>Nanoscale</i> , 2017, 9, 706-718.	2.8	134
35	A comparative study of mesoporous glass/silk and non-mesoporous glass/silk scaffolds: Physicochemistry and in vivo osteogenesis. <i>Acta Biomaterialia</i> , 2011, 7, 2229-2236.	4.1	127
36	Exosome-integrated titanium oxide nanotubes for targeted bone regeneration. <i>Acta Biomaterialia</i> , 2019, 86, 480-492.	4.1	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.	5.7	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.	5.7	123
39	Graphene-oxide-modified β -tricalcium phosphate bioceramics stimulate in vitro and in vivo osteogenesis. <i>Carbon</i> , 2015, 93, 116-129.	5.4	116
40	The osteogenic properties of CaP/silk composite scaffolds. <i>Biomaterials</i> , 2010, 31, 2848-2856.	5.7	114
41	Bioactive SrO-SiO ₂ glass with well-ordered mesopores: Characterization, physiochemistry and biological properties. <i>Acta Biomaterialia</i> , 2011, 7, 1797-1806.	4.1	113
42	Nanotopography-based strategy for the precise manipulation of osteoimmunomodulation in bone regeneration. <i>Nanoscale</i> , 2017, 9, 18129-18152.	2.8	113
43	Effects of Simvastatin on bone healing around titanium implants in osteoporotic rats. <i>Clinical Oral Implants Research</i> , 2009, 20, 145-150.	1.9	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.	1.2	108
45	Tissue Engineering for Bone Regeneration Using Differentiated Alveolar Bone Cells in Collagen Scaffolds. <i>Tissue Engineering</i> , 2003, 9, 1167-1177.	4.9	107
46	Principles and applications of cell delivery systems for periodontal regeneration. <i>Periodontology</i> 2000, 2006, 41, 123-135.	6.3	106
47	Genetic evidence for the vital function of osterix in cementogenesis. <i>Journal of Bone and Mineral Research</i> , 2012, 27, 1080-1092.	3.1	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.	4.1	101
49	Clonal Isolation and Characterization of Bone Marrow Stromal Cells from Patients with Osteoarthritis. <i>Tissue Engineering</i> , 2007, 13, 819-829.	4.9	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.	1.3	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.	1.6	98
53	RANKL-induced M1 macrophages are involved in bone formation. <i>Bone Research</i> , 2017, 5, 17019.	5.4	97
54	Formation of Blood Clot on Biomaterial Implants Influences Bone Healing. <i>Tissue Engineering - Part B: Reviews</i> , 2014, 20, 697-712.	2.5	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.	4.1	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.	1.7	94
57	Effect of nano-structural properties of biomimetic hydroxyapatite on osteoimmunomodulation. <i>Biomaterials</i> , 2018, 181, 318-332.	5.7	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.	4.1	93
59	Dihydropyridone Gold Nanoclusters Regulate Microglial Polarization and Have the Potential To Alter Neurogenesis. <i>Nano Letters</i> , 2020, 20, 478-495.	4.5	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 dimethylallyl 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.	4.1	91
62	Activation of the Canonical Wnt Signaling Pathway Induces Cementum Regeneration. <i>Journal of Bone and Mineral Research</i> , 2015, 30, 1160-1174.	3.1	91
63	3D-printed cellular structures for bone biomimetic implants. <i>Additive Manufacturing</i> , 2017, 15, 93-101.	1.7	91
64	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.	5.7	88
65	3D printing of metal-organic framework nanosheets-structured scaffolds with tumor therapy and bone construction. <i>Biofabrication</i> , 2020, 12, 025005.	3.7	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.	4.1	85
67	Novel β -Ti ₃₅ Zr ₂₈ Nb alloy scaffolds manufactured using selective laser melting for bone implant applications. <i>Acta Biomaterialia</i> , 2019, 87, 273-284.	4.1	85
68	A micro/nano-biomimetic coating on titanium orchestrates osteo/angio-genesis and osteoimmunomodulation for advanced osseointegration. <i>Biomaterials</i> , 2021, 278, 121162.	5.7	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.	1.4	82
70	Endothelium-Mimicking Multifunctional Coating Modified Cardiovascular Stents via a Stepwise Metal-Catechol-(Amine) Surface Engineering Strategy. <i>Research</i> , 2020, 2020, 9203906.	2.8	81
71	A Biodegradable Conductive Scaffold for Osteochondral Defect Regeneration. <i>Advanced Functional Materials</i> , 2014, 24, 4473-4483.	7.8	80
72	Mesoporous bioactive glasses as drug delivery and bone tissue regeneration platforms. <i>Therapeutic Delivery</i> , 2011, 2, 1189-1198.	1.2	78

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73	Xenotransplantation of Long-Term-Cultured Swine Bone Marrow-Derived Mesenchymal Stem Cells. <i>Stem Cells</i> , 2007, 25, 612-620.	1.4	77
74	A comparative study of Sr-incorporated mesoporous bioactive glass scaffolds for regeneration of osteopenic bone defects. <i>Osteoporosis International</i> , 2014, 25, 2089-2096.	1.3	76
75	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, 406-417.	2.6	74
76	Protective effects of mitochondria-targeted antioxidants and statins on cholesterol-induced osteoarthritis. <i>FASEB Journal</i> , 2017, 31, 356-367.	0.2	74
77	Structural and cellular differences between metaphyseal and diaphyseal periosteum in different aged rats. <i>Bone</i> , 2008, 42, 81-89.	1.4	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. <i>Journal of Rheumatology</i> , 2012, 39, 621-634.	1.0	72
79	Saturated fatty acids induce development of both metabolic syndrome and osteoarthritis in rats. <i>Scientific Reports</i> , 2017, 7, 46457.	1.6	71
80	Cholesterol metabolism in pathogenesis of osteoarthritis disease. <i>International Journal of Rheumatic Diseases</i> , 2017, 20, 131-140.	0.9	71
81	Bioactive mesoporous glass microspheres with controllable protein delivery properties by biomimetic surface modification. <i>Journal of Biomedical Materials Research - Part A</i> , 2010, 95A, 476-485.	2.1	70
82	Obesity-associated metabolic syndrome spontaneously induces infiltration of pro-inflammatory macrophage in synovium and promotes osteoarthritis. <i>PLoS ONE</i> , 2017, 12, e0183693.	1.1	69
83	Europium-Containing Mesoporous Bioactive Glass Scaffolds for Stimulating in Vitro and in Vivo Osteogenesis. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 11342-11354.	4.0	68
84	Osteoarthritic cartilage chondrocytes alter subchondral bone osteoblast differentiation via MAPK signalling pathway involving ERK1/2. <i>Bone</i> , 2010, 46, 226-235.	1.4	67
85	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.	1.4	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. <i>Osteoarthritis and Cartilage</i> , 2012, 20, 1367-1373.	0.6	66
87	RANKL Expression in Periodontal Disease: Where Does RANKL Come from?. <i>BioMed Research International</i> , 2014, 2014, 1-7.	0.9	65
88	The ratio of VEGF/PEDF expression in bone marrow mesenchymal stem cells regulates neovascularization. <i>Differentiation</i> , 2011, 81, 181-191.	1.0	64
89	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.	2.6	64
90	Preparation, characterization and in vitro angiogenic capacity of cobalt substituted β -tricalcium phosphate ceramics. <i>Journal of Materials Chemistry</i> , 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.	1.1	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.	1.6	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.	1.4	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.	5.2	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.	2.9	56
96	Proteomic profiling of distinct clonal populations of bone marrow mesenchymal stem cells. <i>Journal of Cellular Biochemistry</i> , 2009, 106, 776-786.	1.2	55
97	Biological responses of human bone marrow mesenchymal stem cells to Sr _{1-x} Mg _x Si ₃ (M = Zn, Mg) silicate bioceramics. <i>Journal of Biomedical Materials Research - Part A</i> , 2012, 100A, 2979-2990.	2.1	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.	2.9	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.	2.3	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.	4.1	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.	2.6	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.	1.6	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.	1.4	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.	4.1	50
105	Pro-osteogenic topographical cues promote early activation of osteoprogenitor differentiation via enhanced TGF β ² , Wnt, and Notch signaling. <i>Clinical Oral Implants Research</i> , 2014, 25, 475-486.	1.9	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.	1.2	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.	1.7	49
108	Injectable bone cement with magnesium-containing microspheres enhances osteogenesis via anti-inflammatory immunoregulation. <i>Bioactive Materials</i> , 2021, 6, 3411-3423.	8.6	49

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109	The Effect of Hypoxia on the Stemness and Differentiation Capacity of PDLC and DPC. <i>BioMed Research International</i> , 2014, 2014, 1-7.	0.9	48
110	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.	1.3	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. <i>Tissue Engineering - Part C: Methods</i> , 2011, 17, 789-797.	1.1	46
112	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.	3.1	46
113	Exosomes Extraction and Identification. <i>Methods in Molecular Biology</i> , 2019, 2054, 81-91.	0.4	46
114	Pro-resolving lipid mediator ameliorates obesity induced osteoarthritis by regulating synovial macrophage polarisation. <i>Scientific Reports</i> , 2019, 9, 426.	1.6	45
115	Mesoporous bioactive glass scaffolds for efficient delivery of vascular endothelial growth factor. <i>Journal of Biomaterials Applications</i> , 2013, 28, 367-374.	1.2	44
116	Strategies to direct vascularisation using mesoporous bioactive glass-based biomaterials for bone regeneration. <i>International Materials Reviews</i> , 2017, 62, 392-414.	9.4	44
117	Immunomodulatory effects of mesoporous silica nanoparticles on osteogenesis: From nanoimmunotoxicity to nanoimmunotherapy. <i>Applied Materials Today</i> , 2018, 10, 184-193.	2.3	44
118	Fe ₃ O ₄ @TiO ₂ -Laden Neutrophils Activate Innate Immunity via Photosensitive Reactive Oxygen Species Release. <i>Nano Letters</i> , 2020, 20, 261-271.	4.5	44
119	Inhibition of p38 pathway leads to OA-like changes in a rat animal model. <i>Rheumatology</i> , 2012, 51, 813-823.	0.9	43
120	Systematic Identification, Characterization and Target Gene Analysis of microRNAs Involved in Osteoarthritis Subchondral Bone Pathogenesis. <i>Calcified Tissue International</i> , 2016, 99, 43-55.	1.5	43
121	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, 1068-1076.	3.1	42
122	Structural properties of fracture haematoma: current status and future clinical implications. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2017, 11, 2864-2875.	1.3	42
123	Patient-Specific Bone Particles Bioprinting for Bone Tissue Engineering. <i>Advanced Healthcare Materials</i> , 2020, 9, e2001323.	3.9	42
124	Near-Infrared Light-Sensitive Nano Neuro-Immune Blocker Capsule Relieves Pain and Enhances the Innate Immune Response for Necrotizing Infection. <i>Nano Letters</i> , 2019, 19, 5904-5914.	4.5	41
125	Graphene oxide coated Titanium Surfaces with Osteoimmunomodulatory Role to Enhance Osteogenesis. <i>Materials Science and Engineering C</i> , 2020, 113, 110983.	3.8	41
126	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, 110-117.	1.6	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.	5.2	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.	3.6	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.	1.6	39
130	Extracellular vesicles: Potential role in osteoarthritis regenerative medicine. <i>Journal of Orthopaedic Translation</i> , 2020, 21, 73-80.	1.9	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.	5.8	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.	1.4	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.	1.5	38
134	Osteocyte-induced angiogenesis via VEGF-MAPK-dependent pathways in endothelial cells. <i>Molecular and Cellular Biochemistry</i> , 2014, 386, 15-25.	1.4	38
135	Blood clot formed on rough titanium surface induces early cell recruitment. <i>Clinical Oral Implants Research</i> , 2016, 27, 1031-1038.	1.9	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.	3.8	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.	2.1	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.	2.9	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.	1.1	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.	1.4	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.	2.6	36
142	Structural and cellular features in metaphyseal and diaphyseal periosteum of osteoporotic rats. <i>Journal of Molecular Histology</i> , 2010, 41, 51-60.	1.0	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.	1.4	35
144	S1P-S1PR1 Signaling: the Sphinx in Osteoimmunology. <i>Frontiers in Immunology</i> , 2019, 10, 1409.	2.2	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.	7.8	35
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