

Jiang Chang

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

256
papers

17,922
citations

80
h-index

122
g-index

268
ext. papers

21,038
ext. citations

8.4
avg, IF

7.19
L-index

#	Paper	IF	Citations
256	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
255	Osteoimmunomodulation for the development of advanced bone biomaterials. <i>Materials Today</i> , 2016 , 19, 304-321	21.8	345
254	Electrospun nanofibrous materials for tissue engineering and drug delivery. <i>Science and Technology of Advanced Materials</i> , 2010 , 11, 014108	7.1	338
253	Reconstruction of calvarial defect of rabbits using porous calcium silicate bioactive ceramics. <i>Biomaterials</i> , 2008 , 29, 2588-96	15.6	338
252	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
251	Advances in synthesis of calcium phosphate crystals with controlled size and shape. <i>Acta Biomaterialia</i> , 2014 , 10, 4071-102	10.8	273
250	Proliferation and osteoblastic differentiation of human bone marrow-derived stromal cells on akermanite-bioactive ceramics. <i>Biomaterials</i> , 2006 , 27, 5651-7	15.6	270
249	Enhanced osteoporotic bone regeneration by strontium-substituted calcium silicate bioactive ceramics. <i>Biomaterials</i> , 2013 , 34, 10028-42	15.6	259
248	Multifunctional mesoporous bioactive glasses for effective delivery of therapeutic ions and drug/growth factors. <i>Journal of Controlled Release</i> , 2014 , 193, 282-95	11.7	251
247	In vitro and in vivo evaluation of akermanite bioceramics for bone regeneration. <i>Biomaterials</i> , 2009 , 30, 5041-8	15.6	249
246	Degradation, bioactivity, and cytocompatibility of diopside, akermanite, and bredigite ceramics. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2007 , 83, 153-60	3.5	223
245	The self-setting properties and in vitro bioactivity of tricalcium silicate. <i>Biomaterials</i> , 2005 , 26, 6113-21	15.6	218
244	Mesoporous bioactive glasses: structure characteristics, drug/growth factor delivery and bone regeneration application. <i>Interface Focus</i> , 2012 , 2, 292-306	3.9	214
243	3D-printed bioceramic scaffolds: From bone tissue engineering to tumor therapy. <i>Acta Biomaterialia</i> , 2018 , 79, 37-59	10.8	211
242	Silicate bioceramics induce angiogenesis during bone regeneration. <i>Acta Biomaterialia</i> , 2012 , 8, 341-9	10.8	206
241	Osteogenesis and angiogenesis induced by porous β -CaSiO ₃ /PDLGA composite scaffold via activation of AMPK/ERK1/2 and PI3K/Akt pathways. <i>Biomaterials</i> , 2013 , 34, 64-77	15.6	206
240	Enhanced thermoelectric properties of CNT/PANI composite nanofibers by highly orienting the arrangement of polymer chains. <i>Journal of Materials Chemistry</i> , 2012 , 22, 17612		204

239	A comparative study of proliferation and osteogenic differentiation of adipose-derived stem cells on akermanite and beta-TCP ceramics. <i>Biomaterials</i> , 2008 , 29, 4792-9	15.6	196
238	A review of bioactive silicate ceramics. <i>Biomedical Materials (Bristol)</i> , 2013 , 8, 032001	3.5	183
237	A Bifunctional Biomaterial with Photothermal Effect for Tumor Therapy and Bone Regeneration. <i>Advanced Functional Materials</i> , 2016 , 26, 1197-1208	15.6	182
236	Preparation of copper-containing bioactive glass/eggshell membrane nanocomposites for improving angiogenesis, antibacterial activity and wound healing. <i>Acta Biomaterialia</i> , 2016 , 36, 254-66	10.8	178
235	Preparation and characteristics of a calcium magnesium silicate (bredigite) bioactive ceramic. <i>Biomaterials</i> , 2005 , 26, 2925-31	15.6	178
234	Silicate bioceramics enhanced vascularization and osteogenesis through stimulating interactions between endothelia cells and bone marrow stromal cells. <i>Biomaterials</i> , 2014 , 35, 3803-18	15.6	174
233	Tailoring the nanostructured surfaces of hydroxyapatite bioceramics to promote protein adsorption, osteoblast growth, and osteogenic differentiation. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 8008-17	9.5	168
232	Stimulation of proangiogenesis by calcium silicate bioactive ceramic. <i>Acta Biomaterialia</i> , 2013 , 9, 5379-89	10.8	168
231	Dual drug release from electrospun poly(lactic-co-glycolic acid)/mesoporous silica nanoparticles composite mats with distinct release profiles. <i>Acta Biomaterialia</i> , 2012 , 8, 1901-7	10.8	165
230	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
229	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
228	A novel bioactive porous CaSiO ₃ scaffold for bone tissue engineering. <i>Journal of Biomedical Materials Research - Part A</i> , 2006 , 76, 196-205	5.4	156
227	In vitro bioactivity of akermanite ceramics. <i>Journal of Biomedical Materials Research - Part A</i> , 2006 , 76, 73-80	5.4	154
226	Fabrication and characterization of bioactive wollastonite/PHBV composite scaffolds. <i>Biomaterials</i> , 2004 , 25, 5473-80	15.6	149
225	Stimulatory effects of the ionic products from Ca-Mg-Si bioceramics on both osteogenesis and angiogenesis in vitro. <i>Acta Biomaterialia</i> , 2013 , 9, 8004-14	10.8	148
224	Comparison of osteoblast-like cell responses to calcium silicate and tricalcium phosphate ceramics in vitro. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2007 , 80, 174-83	3.5	145
223	Bioglass Activated Skin Tissue Engineering Constructs for Wound Healing. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 703-15	9.5	143
222	The synergistic effects of Sr and Si bioactive ions on osteogenesis, osteoclastogenesis and angiogenesis for osteoporotic bone regeneration. <i>Acta Biomaterialia</i> , 2017 , 61, 217-232	10.8	143

221	Study of the mechanical property and in vitro biocompatibility of CaSiO ₃ ceramics. <i>Ceramics International</i> , 2005 , 31, 323-326	5.1	142
220	Effect of nano-structured bioceramic surface on osteogenic differentiation of adipose derived stem cells. <i>Biomaterials</i> , 2014 , 35, 8514-27	15.6	140
219	Electrospun Micropatterned Nanocomposites Incorporated with CuS Nanoflowers for Skin Tumor Therapy and Wound Healing. <i>ACS Nano</i> , 2017 , 11, 11337-11349	16.7	134
218	The effect of osteoimmunomodulation on the osteogenic effects of cobalt incorporated strontium calcium phosphate. <i>Biomaterials</i> , 2015 , 61, 126-38	15.6	132
217	3D-printed scaffolds with synergistic effect of hollow-pipe structure and bioactive ions for vascularized bone regeneration. <i>Biomaterials</i> , 2017 , 135, 85-95	15.6	130
216	Porous akermanite scaffolds for bone tissue engineering: preparation, characterization, and in vitro studies. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2006 , 78, 47-55	3.5	129
215	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
214	The stimulation of osteogenic differentiation of human adipose-derived stem cells by ionic products from akermanite dissolution via activation of the ERK pathway. <i>Biomaterials</i> , 2011 , 32, 7023-33	15.6	121
213	3D printing of biomaterials with mussel-inspired nanostructures for tumor therapy and tissue regeneration. <i>Biomaterials</i> , 2016 , 111, 138-148	15.6	116
212	Alginate/nanohydroxyapatite scaffolds with designed core/shell structures fabricated by 3D plotting and in situ mineralization for bone tissue engineering. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 6541-9	9.5	114
211	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
210	Functional mesoporous bioactive glass nanospheres: synthesis, high loading efficiency, controllable delivery of doxorubicin and inhibitory effect on bone cancer cells. <i>Journal of Materials Chemistry B</i> , 2013 , 1, 2710-2718	7.3	114
209	A novel akermanite bioceramic: preparation and characteristics. <i>Journal of Biomaterials Applications</i> , 2006 , 21, 119-29	2.9	113
208	A novel bioactive porous bredigite (Ca ₇ MgSi ₄ O ₁₆) scaffold with biomimetic apatite layer for bone tissue engineering. <i>Journal of Materials Science: Materials in Medicine</i> , 2007 , 18, 857-64	4.5	112
207	The calcium silicate/alginate composite: preparation and evaluation of its behavior as bioactive injectable hydrogels. <i>Acta Biomaterialia</i> , 2013 , 9, 9107-17	10.8	106
206	The enhancement of bone regeneration by a combination of osteoconductivity and osteostimulation using SrCaSiO ₃ /SrCa ₃ (PO ₄) ₂ composite bioceramics. <i>Acta Biomaterialia</i> , 2012 , 8, 350-60	10.8	106
205	Enhanced osteogenesis through nano-structured surface design of macroporous hydroxyapatite bioceramic scaffolds via activation of ERK and p38 MAPK signaling pathways. <i>Journal of Materials Chemistry B</i> , 2013 , 1, 5403-5416	7.3	104
204	3D Printing of Lotus Root-Like Biomimetic Materials for Cell Delivery and Tissue Regeneration. <i>Advanced Science</i> , 2017 , 4, 1700401	13.6	103

203	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
202	Graphene-oxide-modified β -tricalcium phosphate bioceramics stimulate in vitro and in vivo osteogenesis. <i>Carbon</i> , 2015 , 93, 116-129	10.4	101
201	Ultrathin Cu-TCPP MOF nanosheets: a new theragnostic nanoplatform with magnetic resonance/near-infrared thermal imaging for synergistic phototherapy of cancers. <i>Theranostics</i> , 2018 , 8, 4086-4096	12.1	100
200	Bioactive Injectable Hydrogels Containing Desferrioxamine and Bioglass for Diabetic Wound Healing. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 30103-30114	9.5	98
199	Europium-doped mesoporous silica nanosphere as an immune-modulating osteogenesis/angiogenesis agent. <i>Biomaterials</i> , 2017 , 144, 176-187	15.6	98
198	Effect of tricalcium silicate on the proliferation and odontogenic differentiation of human dental pulp cells. <i>Journal of Endodontics</i> , 2011 , 37, 1240-6	4.7	98
197	Self-setting properties and in vitro bioactivity of calcium sulfate hemihydrate-tricalcium silicate composite bone cements. <i>Acta Biomaterialia</i> , 2007 , 3, 952-60	10.8	98
196	Nanoporous microstructures mediate osteogenesis by modulating the osteo-immune response of macrophages. <i>Nanoscale</i> , 2017 , 9, 706-718	7.7	97
195	Mesoporous bioactive glass nanolayer-functionalized 3D-printed scaffolds for accelerating osteogenesis and angiogenesis. <i>Nanoscale</i> , 2015 , 7, 19207-21	7.7	96
194	Crystallography Facet-Dependent Antibacterial Activity: The Case of Cu ₂ O. <i>Industrial & Engineering Chemistry Research</i> , 2011 , 50, 10366-10369	3.9	96
193	Grape Seed-Inspired Smart Hydrogel Scaffolds for Melanoma Therapy and Wound Healing. <i>ACS Nano</i> , 2019 , 13, 4302-4311	16.7	95
192	A bifunctional scaffold with CuFeSe nanocrystals for tumor therapy and bone reconstruction. <i>Biomaterials</i> , 2018 , 160, 92-106	15.6	95
191	Hydrothermal microemulsion synthesis of stoichiometric single crystal hydroxyapatite nanorods with mono-dispersion and narrow-size distribution. <i>Materials Letters</i> , 2007 , 61, 1683-1687	3.3	93
190	3D printing of a lithium-calcium-silicate crystal bioscaffold with dual bioactivities for osteochondral interface reconstruction. <i>Biomaterials</i> , 2019 , 196, 138-150	15.6	93
189	Synergy effects of copper and silicon ions on stimulation of vascularization by copper-doped calcium silicate. <i>Journal of Materials Chemistry B</i> , 2014 , 2, 1100-1110	7.3	92
188	Facile synthesis of hydroxyapatite nanoparticles, nanowires and hollow nano-structured microspheres using similar structured hard-precursors. <i>Nanoscale</i> , 2011 , 3, 3052-5	7.7	92
187	A Facile One-Step Surfactant-Free and Low-Temperature Hydrothermal Method to Prepare Uniform 3D Structured Carbonated Apatite Flowers. <i>Crystal Growth and Design</i> , 2009 , 9, 177-181	3.5	92
186	A conductive bioceramic/polymer composite biomaterial for diabetic wound healing. <i>Acta Biomaterialia</i> , 2017 , 60, 128-143	10.8	91

- 185 3D printing of Haversian bone-mimicking scaffolds for multicellular delivery in bone regeneration. *Science Advances*, **2020**, 6, eaaz6725 14.3 90
- 184 Proliferation and osteogenic differentiation of human periodontal ligament cells on akermanite and β -TCP bioceramics. *European Cells and Materials*, **2011**, 22, 68-82; discussion 83 4.3 89
- 183 Sol-gel synthesis and in vitro bioactivity of tricalcium silicate powders. *Materials Letters*, **2004**, 58, 2350-2353 3.5 88
- 182 Synthesis and apatite-formation ability of akermanite. *Materials Letters*, **2004**, 58, 2415-2417 3.3 87
- 181 A 3D-printed scaffold with MoS₂ nanosheets for tumor therapy and tissue regeneration. *NPG Asia Materials*, **2017**, 9, e376-e376 10.3 84
- 180 Bioglass promotes wound healing by affecting gap junction connexin 43 mediated endothelial cell behavior. *Biomaterials*, **2016**, 84, 64-75 15.6 84
- 179 Bioceramics to regulate stem cells and their microenvironment for tissue regeneration. *Materials Today*, **2019**, 24, 41-56 21.8 82
- 178 Regulation of immune response by bioactive ions released from silicate bioceramics for bone regeneration. *Acta Biomaterialia*, **2018**, 66, 81-92 10.8 81
- 177 Hierarchically micro-patterned nanofibrous scaffolds with a nanosized bio-glass surface for accelerating wound healing. *Nanoscale*, **2015**, 7, 18446-52 7.7 80
- 176 Multifunctional Hydrogels Prepared by Dual Ion Cross-Linking for Chronic Wound Healing. *ACS Applied Materials & Interfaces*, **2017**, 9, 16054-16062 9.5 79
- 175 In vitro degradation, bioactivity, and cytocompatibility of calcium silicate, dimagnesium silicate, and tricalcium phosphate bioceramics. *Journal of Biomaterials Applications*, **2009**, 24, 139-58 2.9 79
- 174 Akermanite bioceramics promote osteogenesis, angiogenesis and suppress osteoclastogenesis for osteoporotic bone regeneration. *Scientific Reports*, **2016**, 6, 22005 4.9 78
- 173 Bioactive mesoporous calcium silicate nanoparticles with excellent mineralization ability, osteostimulation, drug-delivery and antibacterial properties for filling apex roots of teeth. *Journal of Materials Chemistry*, **2012**, 22, 16801 7.8 78
- 172 Novel tricalcium silicate/magnesium phosphate composite bone cement having high compressive strength, in vitro bioactivity and cytocompatibility. *Acta Biomaterialia*, **2015**, 21, 217-27 10.8 77
- 171 Bioactive inorganic/organic nanocomposites for wound healing. *Applied Materials Today*, **2018**, 11, 308-318 10.8 76
- 170 3D printing of high-strength bioscaffolds for the synergistic treatment of bone cancer. *NPG Asia Materials*, **2018**, 10, 31-44 10.3 76
- 169 Delivery of dimethyloxallyl glycine in mesoporous bioactive glass scaffolds to improve angiogenesis and osteogenesis of human bone marrow stromal cells. *Acta Biomaterialia*, **2013**, 9, 9159-68 10.8 76
- 168 Clinoenstatite coatings have high bonding strength, bioactive ion release, and osteoimmunomodulatory effects that enhance in vivo osseointegration. *Biomaterials*, **2015**, 71, 35-47 15.6 73

167	A novel dual-adhesive and bioactive hydrogel activated by bioglass for wound healing. <i>NPG Asia Materials</i> , 2019 , 11,	10.3	73
166	Three-Dimensional Printing of Hollow-Struts-Packed Bioceramic Scaffolds for Bone Regeneration. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 24377-83	9.5	72
165	The role of the micro-pattern and nano-topography of hydroxyapatite bioceramics on stimulating osteogenic differentiation of mesenchymal stem cells. <i>Acta Biomaterialia</i> , 2018 , 73, 509-521	10.8	72
164	3D Printed Fe Scaffolds with HA Nanocoating for Bone Regeneration. <i>ACS Biomaterials Science and Engineering</i> , 2018 , 4, 608-616	5.5	72
163	Preparation, in vitro bioactivity and drug release property of well-ordered mesoporous 58S bioactive glass. <i>Journal of Non-Crystalline Solids</i> , 2008 , 354, 1338-1341	3.9	71
162	Preparation of macroporous calcium silicate ceramics. <i>Materials Letters</i> , 2004 , 58, 2109-2113	3.3	71
161	Design of a thermosensitive bioglass/agarose-alginate composite hydrogel for chronic wound healing. <i>Journal of Materials Chemistry B</i> , 2015 , 3, 8856-8864	7.3	70
160	3D-printed scaffolds with bioactive elements-induced photothermal effect for bone tumor therapy. <i>Acta Biomaterialia</i> , 2018 , 73, 531-546	10.8	70
159	A simple method to synthesize single-crystalline βwollastonite nanowires. <i>Journal of Crystal Growth</i> , 2007 , 300, 267-271	1.6	70
158	Defective Black Nano-Titania Thermogels for Cutaneous Tumor-Induced Therapy and Healing. <i>Nano Letters</i> , 2019 , 19, 2138-2147	11.5	69
157	Characterization of Ca ₃ SiO ₅ /CaCl ₂ composite cement for dental application. <i>Dental Materials</i> , 2008 , 24, 74-82	5.7	68
156	A novel hardystonite bioceramic: preparation and characteristics. <i>Ceramics International</i> , 2005 , 31, 27-31	5.1	68
155	3D-Printed Bioactive CaSiO Bone Cement Scaffolds with Nano Surface Structure for Bone Regeneration. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 5757-5767	9.5	66
154	In vitro assessment of three-dimensionally plotted nagelschmidtite bioceramic scaffolds with varied macropore morphologies. <i>Acta Biomaterialia</i> , 2014 , 10, 463-76	10.8	66
153	Bioactive Scaffolds for Regeneration of Cartilage and Subchondral Bone Interface. <i>Theranostics</i> , 2018 , 8, 1940-1955	12.1	64
152	A Bi-Lineage Conductive Scaffold for Osteochondral Defect Regeneration. <i>Advanced Functional Materials</i> , 2014 , 24, 4473-4483	15.6	64
151	Multifunctional Zn doped hollow mesoporous silica/polycaprolactone electrospun membranes with enhanced hair follicle regeneration and antibacterial activity for wound healing. <i>Nanoscale</i> , 2019 , 11, 6315-6333	7.7	64
150	An injectable continuous stratified structurally and functionally biomimetic construct for enhancing osteochondral regeneration. <i>Biomaterials</i> , 2019 , 192, 149-158	15.6	63

149	Bioglass promotes wound healing through modulating the paracrine effects between macrophages and repairing cells. <i>Journal of Materials Chemistry B</i> , 2017 , 5, 5240-5250	7.3	62
148	An anisotropically and heterogeneously aligned patterned electrospun scaffold with tailored mechanical property and improved bioactivity for vascular tissue engineering. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 8706-18	9.5	62
147	Mesoporous bioactive glasses as drug delivery and bone tissue regeneration platforms. <i>Therapeutic Delivery</i> , 2011 , 2, 1189-98	3.8	61
146	Beta-CaSiO ₃ /beta-Ca ₃ (PO ₄) ₂ composite materials for hard tissue repair: in vitro studies. <i>Journal of Biomedical Materials Research - Part A</i> , 2008 , 85, 72-82	5.4	61
145	The effect of Zn contents on phase composition, chemical stability and cellular bioactivity in Zn-Ca-Si system ceramics. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2008 , 87, 346-53	3.5	61
144	A novel "hot spring"-mimetic hydrogel with excellent angiogenic properties for chronic wound healing. <i>Biomaterials</i> , 2021 , 264, 120414	15.6	58
143	Stimulation of osteogenesis and angiogenesis by micro/nano hierarchical hydroxyapatite via macrophage immunomodulation. <i>Nanoscale</i> , 2019 , 11, 17699-17708	7.7	57
142	Osteogenic differentiation of osteoblasts induced by calcium silicate and calcium silicate/tricalcium phosphate composite bioceramics. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2012 , 100, 1237-44	3.5	56
141	Injectable bioactive akermanite/alginate composite hydrogels for in situ skin tissue engineering. <i>Journal of Materials Chemistry B</i> , 2017 , 5, 3315-3326	7.3	54
140	Human urine-derived stem cells can be induced into osteogenic lineage by silicate bioceramics via activation of the Wnt/ β -catenin signaling pathway. <i>Biomaterials</i> , 2015 , 55, 1-11	15.6	53
139	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
138	Synthesis of element-substituted hydroxyapatite with controllable morphology and chemical composition using calcium silicate as precursor. <i>CrystEngComm</i> , 2011 , 13, 4850	3.3	52
137	Designing ordered micropatterned hydroxyapatite bioceramics to promote the growth and osteogenic differentiation of bone marrow stromal cells. <i>Journal of Materials Chemistry B</i> , 2015 , 3, 968-976	7.3	51
136	Synthesis and in vitro bioactivity of bredigite powders. <i>Journal of Biomaterials Applications</i> , 2007 , 21, 251-63	2.9	51
135	Micro/Nanometer-Structured Scaffolds for Regeneration of Both Cartilage and Subchondral Bone. <i>Advanced Functional Materials</i> , 2019 , 29, 1806068	15.6	51
134	Hierarchically porous nagelschmidite bioceramic-silk scaffolds for bone tissue engineering. <i>Journal of Materials Chemistry B</i> , 2015 , 3, 3799-3809	7.3	50
133	Fabrication of nano-structured calcium silicate coatings with enhanced stability, bioactivity and osteogenic and angiogenic activity. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015 , 126, 358-66	6	48
132	Bone tissue engineering strategy based on the synergistic effects of silicon and strontium ions. <i>Acta Biomaterialia</i> , 2018 , 72, 381-395	10.8	48

131	Bioglass Activated Albumin Hydrogels for Wound Healing. <i>Advanced Healthcare Materials</i> , 2018 , 7, e1800144	4.4	48
130	In vitro proliferation and osteogenic differentiation of human bone marrow-derived mesenchymal stem cells cultured with hardystonite (Ca ₂ ZnSi ₂ O ₇) and {beta}-TCP ceramics. <i>Journal of Biomaterials Applications</i> , 2010 , 25, 39-56	2.9	47
129	Multifunctional bioactive Nd-Ca-Si glasses for fluorescence thermometry, photothermal therapy, and burn tissue repair. <i>Science Advances</i> , 2020 , 6, eabb1311	14.3	47
128	Bioactive scaffolds for osteochondral regeneration. <i>Journal of Orthopaedic Translation</i> , 2019 , 17, 15-25	4.2	47
127	Biodegradable electrospun PLLA/chitosan membrane as guided tissue regeneration membrane for treating periodontitis. <i>Journal of Materials Science</i> , 2013 , 48, 6567-6577	4.3	45
126	Study on physicochemical properties and in vitro bioactivity of tricalcium silicate-calcium carbonate composite bone cement. <i>Journal of Materials Science: Materials in Medicine</i> , 2008 , 19, 2913-8	4.5	41
125	Chitosan/Calcium Silicate Cardiac Patch Stimulates Cardiomyocyte Activity and Myocardial Performance after Infarction by Synergistic Effect of Bioactive Ions and Aligned Nanostructure. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 1449-1468	9.5	41
124	Calcium-phosphate-silicate composite bone cement: self-setting properties and in vitro bioactivity. <i>Journal of Materials Science: Materials in Medicine</i> , 2009 , 20, 833-41	4.5	40
123	Self-Healing Elastin-Bioglass Hydrogels. <i>Biomacromolecules</i> , 2016 , 17, 2619-25	6.9	40
122	3D printing of metal-organic framework nanosheets-structured scaffolds with tumor therapy and bone construction. <i>Biofabrication</i> , 2020 , 12, 025005	10.5	39
121	Silicon-Enhanced Adipogenesis and Angiogenesis for Vascularized Adipose Tissue Engineering. <i>Advanced Science</i> , 2018 , 5, 1800776	13.6	39
120	Bioinspired multifunctional biomaterials with hierarchical microstructure for wound dressing. <i>Acta Biomaterialia</i> , 2019 , 100, 270-279	10.8	38
119	In vitro degradation behavior and bioactivity of magnesium-Bioglass(□) composites for orthopedic applications. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2012 , 100, 437-46	3.5	38
118	Preparation and in vitro osteogenic, angiogenic and antibacterial properties of cuprorivaite (CaCuSi ₄ O ₁₀ , Cup) bioceramics. <i>RSC Advances</i> , 2016 , 6, 45840-45849	3.7	38
117	Nanobiomaterials: from 0D to 3D for tumor therapy and tissue regeneration. <i>Nanoscale</i> , 2019 , 11, 13678-13708	7.1	37
116	Fabrication of Multiple-Layered Hydrogel Scaffolds with Elaborate Structure and Good Mechanical Properties via 3D Printing and Ionic Reinforcement. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 18338-18350	9.5	37
115	Effects of wollastonite on proliferation and differentiation of human bone marrow-derived stromal cells in PHBV/wollastonite composite scaffolds. <i>Journal of Biomaterials Applications</i> , 2009 , 24, 231-46	2.9	37
114	Bioactive Self-Pumping Composite Wound Dressings with Micropore Array Modified Janus Membrane for Enhanced Diabetic Wound Healing. <i>Advanced Functional Materials</i> , 2020 , 30, 2005422	15.6	37

113	3D plotting of highly uniform Sr(PO)SiO bioceramic scaffolds for bone tissue engineering. <i>Journal of Materials Chemistry B</i> , 2016 , 4, 6200-6212	7.3	36
112	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
111	Antibacterial activity of silicate bioceramics. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2011 , 26, 226-230	1	36
110	Preparation, mechanical property and cytocompatibility of poly(L-lactic acid)/calcium silicate nanocomposites with controllable distribution of calcium silicate nanowires. <i>Acta Biomaterialia</i> , 2012 , 8, 4139-50	10.8	35
109	Novel Co-akermanite (CaCoSiO) bioceramics with the activity to stimulate osteogenesis and angiogenesis. <i>Journal of Materials Chemistry B</i> , 2015 , 3, 6773-6782	7.3	34
108	Bioactive scaffolds with Li and Si ions-synergistic effects for osteochondral defects regeneration. <i>Applied Materials Today</i> , 2018 , 10, 203-216	6.6	34
107	Influence of HEPES buffer on the local pH and formation of surface layer during in vitro degradation tests of magnesium in DMEM. <i>Progress in Natural Science: Materials International</i> , 2014 , 24, 531-538	3.6	34
106	PDA/Cu Bioactive Hydrogel with "Hot Ions Effect" for Inhibition of Drug-Resistant Bacteria and Enhancement of Infectious Skin Wound Healing. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 31255-31269 ³³	9.5	33
105	Chinese sesame stick-inspired nano-fibrous scaffolds for tumor therapy and skin tissue reconstruction. <i>Biomaterials</i> , 2019 , 194, 25-35	15.6	33
104	Hierarchical bioceramic scaffolds with 3D-plotted macropores and mussel-inspired surface nanolayers for stimulating osteogenesis. <i>Nanoscale</i> , 2016 , 8, 13790-803	7.7	32
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