

Jiang Chang

List of Publications by Year in descending order

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259
papers

24,032
citations

2963

93
h-index

9553

142
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268
all docs

268
docs citations

268
times ranked

17185
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	Electrospun nanofibrous materials for tissue engineering and drug delivery. <i>Science and Technology of Advanced Materials</i> , 2010, 11, 014108.	2.8	410
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	Reconstruction of calvarial defect of rabbits using porous calcium silicate bioactive ceramics. <i>Biomaterials</i> , 2008, 29, 2588-2596.	5.7	388
6	3D-printed bioceramic scaffolds: From bone tissue engineering to tumor therapy. <i>Acta Biomaterialia</i> , 2018, 79, 37-59.	4.1	372
7	Advances in synthesis of calcium phosphate crystals with controlled size and shape. <i>Acta Biomaterialia</i> , 2014, 10, 4071-4102.	4.1	347
8	Enhanced osteoporotic bone regeneration by strontium-substituted calcium silicate bioactive ceramics. <i>Biomaterials</i> , 2013, 34, 10028-10042.	5.7	311
9	Multifunctional mesoporous bioactive glasses for effective delivery of therapeutic ions and drug/growth factors. <i>Journal of Controlled Release</i> , 2014, 193, 282-295.	4.8	306
10	Proliferation and osteoblastic differentiation of human bone marrow-derived stromal cells on akermanite-bioactive ceramics. <i>Biomaterials</i> , 2006, 27, 5651-5657.	5.7	293
11	In vitro and in vivo evaluation of akermanite bioceramics for bone regeneration. <i>Biomaterials</i> , 2009, 30, 5041-5048.	5.7	292
12	Mesoporous bioactive glasses: structure characteristics, drug/growth factor delivery and bone regeneration application. <i>Interface Focus</i> , 2012, 2, 292-306.	1.5	276
13	Degradation, bioactivity, and cytocompatibility of diopside, akermanite, and bredigite ceramics. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2007, 83B, 153-160.	1.6	254
14	Preparation of copper-containing bioactive glass/eggshell membrane nanocomposites for improving angiogenesis, antibacterial activity and wound healing. <i>Acta Biomaterialia</i> , 2016, 36, 254-266.	4.1	250
15	The self-setting properties and in vitro bioactivity of tricalcium silicate. <i>Biomaterials</i> , 2005, 26, 6113-6121.	5.7	249
16	A review of bioactive silicate ceramics. <i>Biomedical Materials (Bristol)</i> , 2013, 8, 032001.	1.7	248
17	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.	5.7	245
18	Silicate bioceramics induce angiogenesis during bone regeneration. <i>Acta Biomaterialia</i> , 2012, 8, 341-349.	4.1	240

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19	A Bifunctional Biomaterial with Photothermal Effect for Tumor Therapy and Bone Regeneration. <i>Advanced Functional Materials</i> , 2016, 26, 1197-1208.	7.8	238
20	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.	6.7	236
21	A comparative study of proliferation and osteogenic differentiation of adipose-derived stem cells on akermanite and β -TCP ceramics. <i>Biomaterials</i> , 2008, 29, 4792-4799.	5.7	230
22	Silicate bioceramics enhanced vascularization and osteogenesis through stimulating interactions between endothelia cells and bone marrow stromal cells. <i>Biomaterials</i> , 2014, 35, 3803-3818.	5.7	216
23	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.	4.1	216
24	Stimulation of proangiogenesis by calcium silicate bioactive ceramic. <i>Acta Biomaterialia</i> , 2013, 9, 5379-5389.	4.1	203
25	Tailoring the Nanostructured Surfaces of Hydroxyapatite Bioceramics to Promote Protein Adsorption, Osteoblast Growth, and Osteogenic Differentiation. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 8008-8017.	4.0	202
26	3D printing of Haversian bone-mimicking scaffolds for multicellular delivery in bone regeneration. <i>Science Advances</i> , 2020, 6, eaaz6725.	4.7	201
27	Preparation and characteristics of a calcium magnesium silicate (bredigite) bioactive ceramic. <i>Biomaterials</i> , 2005, 26, 2925-2931.	5.7	199
28	Stimulatory effects of the ionic products from Ca-Mg-Si bioceramics on both osteogenesis and angiogenesis in vitro. <i>Acta Biomaterialia</i> , 2013, 9, 8004-8014.	4.1	192
29	Electrospun Micropatterned Nanocomposites Incorporated with Cu ₂ S Nanoflowers for Skin Tumor Therapy and Wound Healing. <i>ACS Nano</i> , 2017, 11, 11337-11349.	7.3	191
30	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
31	A novel "hot spring"-mimetic hydrogel with excellent angiogenic properties for chronic wound healing. <i>Biomaterials</i> , 2021, 264, 120414.	5.7	186
32	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
33	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, 1901-1907.	4.1	180
34	Bioglass Activated Skin Tissue Engineering Constructs for Wound Healing. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 703-715.	4.0	180
35	A novel bioactive porous CaSiO ₃ scaffold for bone tissue engineering. <i>Journal of Biomedical Materials Research - Part A</i> , 2006, 76A, 196-205.	2.1	178
36	In vitro bioactivity of akermanite ceramics. <i>Journal of Biomedical Materials Research - Part A</i> , 2006, 76A, 73-80.	2.1	175

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37	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, 80B, 174-183.	1.6	174
38	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
39	3D-printed scaffolds with synergistic effect of hollow-pipe structure and bioactive ions for vascularized bone regeneration. <i>Biomaterials</i> , 2017, 135, 85-95.	5.7	171
40	3D printing of a lithium-calcium-silicate crystal bioscaffold with dual bioactivities for osteochondral interface reconstruction. <i>Biomaterials</i> , 2019, 196, 138-150.	5.7	170
41	Grape Seed-Inspired Smart Hydrogel Scaffolds for Melanoma Therapy and Wound Healing. <i>ACS Nano</i> , 2019, 13, 4302-4311.	7.3	169
42	Effect of nano-structured bioceramic surface on osteogenic differentiation of adipose derived stem cells. <i>Biomaterials</i> , 2014, 35, 8514-8527.	5.7	168
43	3D Printing of Lotus Root-Like Biomimetic Materials for Cell Delivery and Tissue Regeneration. <i>Advanced Science</i> , 2017, 4, 1700401.	5.6	168
44	Bioactive Injectable Hydrogels Containing Desferrioxamine and Bioglass for Diabetic Wound Healing. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 30103-30114.	4.0	165
45	The effect of osteoimmunomodulation on the osteogenic effects of cobalt incorporated β -tricalcium phosphate. <i>Biomaterials</i> , 2015, 61, 126-138.	5.7	163
46	Study of the mechanical property and in vitro biocompatibility of CaSiO ₃ ceramics. <i>Ceramics International</i> , 2005, 31, 323-326.	2.3	160
47	Fabrication and characterization of bioactive wollastonite/PHBV composite scaffolds. <i>Biomaterials</i> , 2004, 25, 5473-5480.	5.7	158
48	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
49	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.	4.6	154
50	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, 78B, 47-55.	1.6	151
51	3D printing of biomaterials with mussel-inspired nanostructures for tumor therapy and tissue regeneration. <i>Biomaterials</i> , 2016, 111, 138-148.	5.7	151
52	Europium-doped mesoporous silica nanosphere as an immune-modulating osteogenesis/angiogenesis agent. <i>Biomaterials</i> , 2017, 144, 176-187.	5.7	144
53	Bioceramics to regulate stem cells and their microenvironment for tissue regeneration. <i>Materials Today</i> , 2019, 24, 41-56.	8.3	144
54	Regulation of immune response by bioactive ions released from silicate bioceramics for bone regeneration. <i>Acta Biomaterialia</i> , 2018, 66, 81-92.	4.1	144

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55	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, 7023-7033.	5.7	140
56	A bifunctional scaffold with CuFeSe ₂ nanocrystals for tumor therapy and bone reconstruction. <i>Biomaterials</i> , 2018, 160, 92-106.	5.7	139
57	A Novel Akermanite Bioceramic: Preparation and Characteristics. <i>Journal of Biomaterials Applications</i> , 2006, 21, 119-129.	1.2	138
58	A conductive bioceramic/polymer composite biomaterial for diabetic wound healing. <i>Acta Biomaterialia</i> , 2017, 60, 128-143.	4.1	135
59	Nanoporous microstructures mediate osteogenesis by modulating the osteo-immune response of macrophages. <i>Nanoscale</i> , 2017, 9, 706-718.	2.8	134
60	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, 6541-6549.	4.0	133
61	The enhancement of bone regeneration by a combination of osteoconductivity and osteostimulation using β -CaSiO ₃ / β -Ca ₃ (PO ₄) ₂ composite bioceramics. <i>Acta Biomaterialia</i> , 2012, 8, 350-360.	4.1	131
62	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.	2.9	130
63	The calcium silicate/alginate composite: Preparation and evaluation of its behavior as bioactive injectable hydrogels. <i>Acta Biomaterialia</i> , 2013, 9, 9107-9117.	4.1	129
64	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, 857-864.	1.7	126
65	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
66	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.	2.9	124
67	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.	2.9	124
68	Mesoporous bioactive glass nanolayer-functionalized 3D-printed scaffolds for accelerating osteogenesis and angiogenesis. <i>Nanoscale</i> , 2015, 7, 19207-19221.	2.8	124
69	Crystallography Facet-Dependent Antibacterial Activity: The Case of Cu ₂ O. <i>Industrial & Engineering Chemistry Research</i> , 2011, 50, 10366-10369.	1.8	122
70	A 3D-printed scaffold with MoS ₂ nanosheets for tumor therapy and tissue regeneration. <i>NPG Asia Materials</i> , 2017, 9, e376-e376.	3.8	122
71	3D-printed scaffolds with bioactive elements-induced photothermal effect for bone tumor therapy. <i>Acta Biomaterialia</i> , 2018, 73, 531-546.	4.1	122
72	Graphene-oxide-modified β -tricalcium phosphate bioceramics stimulate in vitro and in vivo osteogenesis. <i>Carbon</i> , 2015, 93, 116-129.	5.4	116

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73	A novel dual-adhesive and bioactive hydrogel activated by bioglass for wound healing. <i>NPG Asia Materials</i> , 2019, 11, .	3.8	116
74	Defective Black Nano-Titania Thermogels for Cutaneous Tumor-Induced Therapy and Healing. <i>Nano Letters</i> , 2019, 19, 2138-2147.	4.5	116
75	Effect of Tricalcium Silicate on the Proliferation and Odontogenic Differentiation of Human Dental Pulp Cells. <i>Journal of Endodontics</i> , 2011, 37, 1240-1246.	1.4	115
76	3D printing of high-strength bioscaffolds for the synergistic treatment of bone cancer. <i>NPG Asia Materials</i> , 2018, 10, 31-44.	3.8	115
77	Bioglass promotes wound healing by affecting gap junction connexin 43 mediated endothelial cell behavior. <i>Biomaterials</i> , 2016, 84, 64-75.	5.7	114
78	Facile synthesis of hydroxyapatite nanoparticles, nanowires and hollow nano-structured microspheres using similar structured hard-precursors. <i>Nanoscale</i> , 2011, 3, 3052.	2.8	112
79	Self-setting properties and in vitro bioactivity of calcium sulfate hemihydrate-tricalcium silicate composite bone cements. <i>Acta Biomaterialia</i> , 2007, 3, 952-960.	4.1	111
80	Bioactive inorganic/organic nanocomposites for wound healing. <i>Applied Materials Today</i> , 2018, 11, 308-319.	2.3	110
81	Multifunctional Hydrogels Prepared by Dual Ion Cross-Linking for Chronic Wound Healing. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 16054-16062.	4.0	109
82	Sol-gel synthesis and in vitro bioactivity of tricalcium silicate powders. <i>Materials Letters</i> , 2004, 58, 2350-2353.	1.3	108
83	Synthesis and apatite-formation ability of akermanite. <i>Materials Letters</i> , 2004, 58, 2415-2417.	1.3	108
84	Hydrothermal microemulsion synthesis of stoichiometric single crystal hydroxyapatite nanorods with mono-dispersion and narrow-size distribution. <i>Materials Letters</i> , 2007, 61, 1683-1687.	1.3	107
85	An injectable continuous stratified structurally and functionally biomimetic construct for enhancing osteochondral regeneration. <i>Biomaterials</i> , 2019, 192, 149-158.	5.7	107
86	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.	1.4	106
87	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.	2.9	105
88	3D Printed Fe Scaffolds with HA Nanocoating for Bone Regeneration. <i>ACS Biomaterials Science and Engineering</i> , 2018, 4, 608-616.	2.6	105
89	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.	2.8	103
90	Multifunctional bioactive Nd-Ca-Si glasses for fluorescence thermometry, photothermal therapy, and burn tissue repair. <i>Science Advances</i> , 2020, 6, eabb1311.	4.7	103

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91	Three-Dimensional Printing of Hollow-Struts-Packed Bioceramic Scaffolds for Bone Regeneration. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 24377-24383.	4.0	101
92	Novel tricalcium silicate/magnesium phosphate composite bone cement having high compressive strength, in vitro bioactivity and cytocompatibility. <i>Acta Biomaterialia</i> , 2015, 21, 217-227.	4.1	99
93	Hierarchically micro-patterned nanofibrous scaffolds with a nanosized bio-glass surface for accelerating wound healing. <i>Nanoscale</i> , 2015, 7, 18446-18452.	2.8	99
94	Bioactive Scaffolds for Regeneration of Cartilage and Subchondral Bone Interface. <i>Theranostics</i> , 2018, 8, 1940-1955.	4.6	98
95	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.	4.1	97
96	Stimulation of osteogenesis and angiogenesis by micro/nano hierarchical hydroxyapatite <i>via</i> macrophage immunomodulation. <i>Nanoscale</i> , 2019, 11, 17699-17708.	2.8	97
97	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.	7.8	97
98	<i>In vitro</i> Degradation, Bioactivity, and Cytocompatibility of Calcium Silicate, Dimagnesium Silicate, and Tricalcium Phosphate Bioceramics. <i>Journal of Biomaterials Applications</i> , 2009, 24, 139-158.	1.2	96
99	Proliferation and osteogenic differentiation of human periodontal ligament cells on akermanite and β -TCP bioceramics. <i>Journal of Biomedical Materials Research Part B</i> , 2011, 22, 68-83.		95
100	Akermanite bioceramics promote osteogenesis, angiogenesis and suppress osteoclastogenesis for osteoporotic bone regeneration. <i>Scientific Reports</i> , 2016, 6, 22005.	1.6	93
101	3D-Printed Bioactive Ca_3SiO_5 Bone Cement Scaffolds with Nano Surface Structure for Bone Regeneration. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 5757-5767.	4.0	92
102	Bioactive mesoporous calcium silicate nanoparticles with excellent mineralization ability, osteostimulation, drug-delivery and antibacterial properties for filling apex roots of teeth. <i>Journal of Materials Chemistry</i> , 2012, 22, 16801.	6.7	91
103	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.	4.1	91
104	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
105	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.	4.0	88
106	Design of a thermosensitive bioglass/agarose-alginate composite hydrogel for chronic wound healing. <i>Journal of Materials Chemistry B</i> , 2015, 3, 8856-8864.	2.9	87
107	3D printing of metal-organic framework nanosheets-structured scaffolds with tumor therapy and bone construction. <i>Biofabrication</i> , 2020, 12, 025005.	3.7	87
108	Characterization of $\text{Ca}_3\text{SiO}_5/\text{CaCl}_2$ composite cement for dental application. <i>Dental Materials</i> , 2008, 24, 74-82.	1.6	83

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109	A novel hardystonite bioceramic: preparation and characteristics. <i>Ceramics International</i> , 2005, 31, 27-31.	2.3	81
110	Bioactive scaffolds for osteochondral regeneration. <i>Journal of Orthopaedic Translation</i> , 2019, 17, 15-25.	1.9	81
111	A Bioceramic Lineage Conductive Scaffold for Osteochondral Defect Regeneration. <i>Advanced Functional Materials</i> , 2014, 24, 4473-4483.	7.8	80
112	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.	1.5	79
113	Micro/Nanometer-Structured Scaffolds for Regeneration of Both Cartilage and Subchondral Bone. <i>Advanced Functional Materials</i> , 2019, 29, 1806068.	7.8	79
114	Preparation of macroporous calcium silicate ceramics. <i>Materials Letters</i> , 2004, 58, 2109-2113.	1.3	78
115	A simple method to synthesize single-crystalline β -wollastonite nanowires. <i>Journal of Crystal Growth</i> , 2007, 300, 267-271.	0.7	78
116	Mesoporous bioactive glasses as drug delivery and bone tissue regeneration platforms. <i>Therapeutic Delivery</i> , 2011, 2, 1189-1198.	1.2	78
117	Design of a biofluid-absorbing bioactive sandwich-structured Zn-Ca-Si bioceramic composite wound dressing for hair follicle regeneration and skin burn wound healing. <i>Bioactive Materials</i> , 2021, 6, 1910-1920.	8.6	78
118	Bioglass Activated Albumin Hydrogels for Wound Healing. <i>Advanced Healthcare Materials</i> , 2018, 7, e1800144.	3.9	77
119	In vitro assessment of three-dimensionally plotted nagelschmidite bioceramic scaffolds with varied macropore morphologies. <i>Acta Biomaterialia</i> , 2014, 10, 463-476.	4.1	76
120	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.	5.7	76
121	Injectable bioactive akermanite/alginate composite hydrogels for in situ skin tissue engineering. <i>Journal of Materials Chemistry B</i> , 2017, 5, 3315-3326.	2.9	73
122	Bone tissue engineering strategy based on the synergistic effects of silicon and strontium ions. <i>Acta Biomaterialia</i> , 2018, 72, 381-395.	4.1	72
123	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, 87B, 346-353.	1.6	70
124	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, 8706-8718.	4.0	70
125	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
126	Osteogenic differentiation of osteoblasts induced by calcium silicate and calcium silicate/ β -tricalcium phosphate composite bioceramics. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2012, 100B, 1237-1244.	1.6	67

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127	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, 358-366.	2.5	67
128	$\text{CaSiO}_3/\text{Ca}_3(\text{PO}_4)_2$ composite materials for hard tissue repair: <i>In vitro</i> studies. <i>Journal of Biomedical Materials Research - Part A</i> , 2008, 85A, 72-82.	2.1	66
129	Silicon-Enhanced Adipogenesis and Angiogenesis for Vascularized Adipose Tissue Engineering. <i>Advanced Science</i> , 2018, 5, 1800776.	5.6	64
130	Synthesis of element-substituted hydroxyapatite with controllable morphology and chemical composition using calcium silicate as precursor. <i>CrystEngComm</i> , 2011, 13, 4850.	1.3	62
131	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.	2.9	62
132	Synthesis and <i>In vitro</i> Bioactivity of Bredigite Powders. <i>Journal of Biomaterials Applications</i> , 2007, 21, 251-263.	1.2	60
133	Hierarchically porous nagelschmidite bioceramic-silk scaffolds for bone tissue engineering. <i>Journal of Materials Chemistry B</i> , 2015, 3, 3799-3809.	2.9	59
134	Bioinspired multifunctional biomaterials with hierarchical microstructure for wound dressing. <i>Acta Biomaterialia</i> , 2019, 100, 270-279.	4.1	57
135	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
136	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.	4.0	56
137	<i>In vitro</i> degradation behavior and bioactivity of magnesium-Bioglass [®] composites for orthopedic applications. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2012, 100B, 437-446.	1.6	55
138	Biodegradable electrospun PLLA/chitosan membrane as guided tissue regeneration membrane for treating periodontitis. <i>Journal of Materials Science</i> , 2013, 48, 6567-6577.	1.7	55
139	Preparation and <i>in vitro</i> osteogenic, angiogenic and antibacterial properties of cuprorivaite ($\text{CaCuSi}_4\text{O}_{10}$, Cup) bioceramics. <i>RSC Advances</i> , 2016, 6, 45840-45849.	1.7	55
140	Silicate bioceramics: from soft tissue regeneration to tumor therapy. <i>Journal of Materials Chemistry B</i> , 2019, 7, 5449-5460.	2.9	55
141	Strontium ions protect hearts against myocardial ischemia/reperfusion injury. <i>Science Advances</i> , 2021, 7, .	4.7	55
142	Influence of HEPES buffer on the local pH and formation of surface layer during <i>in vitro</i> degradation tests of magnesium in DMEM. <i>Progress in Natural Science: Materials International</i> , 2014, 24, 531-538.	1.8	54
143	3D Printing of Hot Dog-Like Biomaterials with Hierarchical Architecture and Distinct Bioactivity. <i>Advanced Science</i> , 2019, 6, 1901146.	5.6	54
144	Nanobiomaterials: from 0D to 3D for tumor therapy and tissue regeneration. <i>Nanoscale</i> , 2019, 11, 13678-13708.	2.8	54

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145	Black Bioceramics: Combining Regeneration with Therapy. <i>Advanced Materials</i> , 2020, 32, e2005140.	11.1	54
146	Self-Healing Elastin- β -Bioglass Hydrogels. <i>Biomacromolecules</i> , 2016, 17, 2619-2625.	2.6	53
147	Chinese sesame stick-inspired nano-fibrous scaffolds for tumor therapy and skin tissue reconstruction. <i>Biomaterials</i> , 2019, 194, 25-35.	5.7	53
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