Qingling Feng

List of Publications by Citations

166	6,100	42	68
papers	citations	h-index	g-index
170	6,808	5.4	5.84
ext. papers	ext. citations	avg, IF	L-index

#	Paper	IF	Citations
166	Nanostructured scaffolds for bone tissue engineering. *Journal of Biomedical Materials Research - Part A*, **2013**, 101, 2424-35	5.4	242
165	Porous nano-HA/collagen/PLLA scaffold containing chitosan microspheres for controlled delivery of synthetic peptide derived from BMP-2. *Journal of Controlled Release*, **2009**, 134, 111-7	11.7	240
164	The use of carbon nanotubes to induce osteogenic differentiation of human adipose-derived MSCs in vitro and ectopic bone formation in vivo. *Biomaterials*, **2012**, 33, 4818-27	15.6	222
163	The effect of calcium phosphate microstructure on bone-related cells in vitro. *Biomaterials*, **2008**, 29, 3306-16	15.6	214
162	Current investigations into magnetic nanoparticles for biomedical applications. *Journal of Biomedical Materials Research - Part A*, **2016**, 104, 1285-96	5.4	189
161	Collagen-based implants reinforced by chitin fibres in a goat shank bone defect model. *Biomaterials* , **2006**, 27, 1917-23	15.6	134
160	Engineering a morphogenetically active hydrogel for bioprinting of bioartificial tissue derived from human osteoblast-like SaOS-2 cells. *Biomaterials*, **2014**, 35, 8810-8819	15.6	130
159	Effect of carbon nanotubes on cellular functions in vitro. *Journal of Biomedical Materials Research - Part A*, **2009**, 91, 132-9	5.4	120
158	Preparation and in vitro degradation of porous three-dimensional silk fibroin/chitosan scaffold. *Polymer Degradation and Stability*, **2008**, 93, 1316-1322	4.7	113
157	Thermo-sensitive alginate-based injectable hydrogel for tissue engineering. *Carbohydrate Polymers*, **2012**, 87, 1515-1521	10.3	100
156	Effects of hierarchical micro/nano-topographies on the morphology, proliferation and differentiation of osteoblast-like cells. *Colloids and Surfaces B: Biointerfaces*, **2016**, 145, 37-45	6	100
155	Silk fibroin/chitosan scaffold: preparation, characterization, and culture with HepG2 cell. *Journal of Materials Science: Materials in Medicine*, **2008**, 19, 3545-53	4.5	98
154	Biocomposites reinforced by fibers or tubes as scaffolds for tissue engineering or regenerative medicine. *Journal of Biomedical Materials Research - Part A*, **2014**, 102, 1580-94	5.4	97
153	Biocompatibility and Toxicity of Nanoparticles and Nanotubes. *Journal of Nanomaterials*, **2012**, 2012, 1-19	3.2	89
152	Preparation of 3-D regenerated fibroin scaffolds with freeze drying method and freeze drying/foaming technique. *Journal of Materials Science: Materials in Medicine*, **2006**, 17, 1349-56	4.5	85
151	Cytocompatibility and blood compatibility of multifunctional fibroin/collagen/heparin scaffolds. *Biomaterials*, **2007**, 28, 2306-13	15.6	84
150	Osteogenic differentiation of human adipose-derived stem cells induced by osteoinductive calcium phosphate ceramics. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2011**, 97, 10-9	3.5	82

149	In vitro degradation of porous nano-hydroxyapatite/collagen/PLLA scaffold reinforced by chitin fibres. *Materials Science and Engineering C*, **2006**, 26, 716-720	8.3	77
148	Surface modification by allylamine plasma polymerization promotes osteogenic differentiation of human adipose-derived stem cells. *ACS Applied Materials & Interfaces*, **2014**, 6, 9733-41	9.5	76
147	In vitro degradation and release behavior of porous poly(lactic acid) scaffolds containing chitosan microspheres as a carrier for BMP-2-derived synthetic peptide. *Polymer Degradation and Stability*, **2009**, 94, 176-182	4.7	74
146	Fibroin/collagen hybrid hydrogels with crosslinking method: preparation, properties, and cytocompatibility. *Journal of Biomedical Materials Research - Part A*, **2008**, 84, 198-207	5.4	74
145	Maturation of osteoblast-like SaoS2 induced by carbon nanotubes. *Biomedical Materials (Bristol)*, **2009**, 4, 015005	3.5	72
144	3D-Printed Biopolymers for Tissue Engineering Application. *International Journal of Polymer Science* , **2014**, 2014, 1-13	2.4	71
143	Three-dimensional fibroin/collagen scaffolds derived from aqueous solution and the use for HepG2 culture. *Polymer*, **2005**, 46, 12662-12669	3.9	70
142	A novel thermo-sensitive hydrogel based on thiolated chitosan/hydroxyapatite/beta-glycerophosphate. *Carbohydrate Polymers*, **2014**, 110, 62-9	10.3	69
141	Effect of bioglass on growth and biomineralization of SaOS-2 cells in hydrogel after 3D cell bioprinting. *PLoS ONE*, **2014**, 9, e112497	3.7	64
140	Amorphous Ca□+ polyphosphate nanoparticles regulate the ATP level in bone-like SaOS-2 cells. *Journal of Cell Science*, **2015**, 128, 2202-7	5.3	63
139	Effects of additives and templates on calcium carbonate mineralization in vitro. *Micron*, **2011**, 42, 228-45	2.3	61
138	Biomimetic properties of an injectable chitosan/nano-hydroxyapatite/collagen composite. *Materials Science and Engineering C*, **2011**, 31, 683-687	8.3	61
137	Polyphosphate as a donor of high-energy phosphate for the synthesis of ADP and ATP. *Journal of Cell Science*, **2017**, 130, 2747-2756	5.3	60
136	A bone-like nano-hydroxyapatite/collagen loaded injectable scaffold. *Biomedical Materials (Bristol)*, **2009**, 4, 055005	3.5	56
135	Collagen-based scaffolds reinforced by chitosan fibres for bone tissue engineering. *Polymer International*, **2005**, 54, 1034-1040	3.3	55
134	Chemical characteristics and cytocompatibility of collagen-based scaffold reinforced by chitin fibers for bone tissue engineering. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2006**, 77, 219-26	3.5	53
133	Specific heat treatment of selective laser melted Ti□Al□V for biomedical applications. *Frontiers of Materials Science*, **2015**, 9, 373-381	2.5	51
132	In vitro evaluation of porous poly(L-lactic acid) scaffold reinforced by chitin fibers. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2009**, 90, 503-9	3.5	50

131	The stimulatory effect of silica nanoparticles on osteogenic differentiation of human mesenchymal stem cells. *Biomedical Materials (Bristol)*, **2016**, 12, 015001	3.5	44
130	Novel micro/nanostructured TiO2/ZnO coating with antibacterial capacity and cytocompatibility. *Ceramics International*, **2018**, 44, 9711-9719	5.1	44
129	Alginate/silica composite hydrogel as a potential morphogenetically active scaffold for three-dimensional tissue engineering. *RSC Advances*, **2013**, 3, 11185	3.7	44
128	Modulation of the initial mineralization process of SaOS-2 cells by carbonic anhydrase activators and polyphosphate. *Calcified Tissue International*, **2014**, 94, 495-509	3.9	43
127	Porous poly-L-lactic acid scaffold reinforced by chitin fibers. *Polymer Bulletin*, **2005**, 54, 47-55	2.4	43
126	Comparative synthesis and antimicrobial action of silver nanoparticles and silver nitrate. *Journal of Nanoparticle Research*, **2015**, 17, 1	2.3	42
125	Preparation and characterization of an injectable composite. *Journal of Materials Science: Materials in Medicine*, **2009**, 20, 1245-53	4.5	42
124	Surface Chemical Gradient Affects the Differentiation of Human Adipose-Derived Stem Cells via ERK1/2 Signaling Pathway. *ACS Applied Materials & Interfaces*, **2015**, 7, 18473-82	9.5	41
123	Skeletal repair in rabbits with calcium phosphate cements incorporated phosphorylated chitin. *Biomaterials*, **2002**, 23, 4591-600	15.6	41
122	Improved mechanical properties of hydroxyapatite whisker-reinforced poly(L-lactic acid) scaffold by surface modification of hydroxyapatite. *Materials Science and Engineering C*, **2014**, 35, 190-4	8.3	40
121	Repair of bone defect in femoral condyle using microencapsulated chitosan, nanohydroxyapatite/collagen and poly(L-lactide)-based microsphere-scaffold delivery system. *Artificial Organs*, **2011**, 35, E119-28	2.6	40
120	In situ-forming chitosan/nano-hydroxyapatite/collagen gel for the delivery of bone marrow mesenchymal stem cells. *Carbohydrate Polymers*, **2011**, 85, 261-267	10.3	40
119	Preparation and characterization of chitosan microspheres for controlled release of synthetic oligopeptide derived from BMP-2. *Journal of Microencapsulation*, **2009**, 26, 297-305	3.4	40
118	The co-effect of collagen and magnesium ions on calcium carbonate biomineralization. *Materials Science and Engineering C*, **2006**, 26, 648-652	8.3	39
117	In Vitro Uptake of Hydroxyapatite Nanoparticles and Their Effect on Osteogenic Differentiation of Human Mesenchymal Stem Cells. *Stem Cells International*, **2018**, 2018, 2036176	5	37
116	The Cu-containing TiO coatings with modulatory effects on macrophage polarization and bactericidal capacity prepared by micro-arc oxidation on titanium substrates. *Colloids and Surfaces B: Biointerfaces*, **2018**, 170, 242-250	6	36
115	Influence of silver nanoparticles on osteogenic differentiation of human mesenchymal stem cells. *Journal of Biomedical Nanotechnology*, **2014**, 10, 1277-85	4	36
114	In Vitro Growth of Nacre-like Tablet Forming: From Amorphous Calcium Carbonate, Nanostacks to Hexagonal Tablets. *Crystal Growth and Design*, **2008**, 8, 1509-1514	3.5	36

113	Silver nanoparticle based coatings enhance adipogenesis compared to osteogenesis in human mesenchymal stem cells through oxidative stress. *Journal of Materials Chemistry B*, **2016**, 4, 1466-1479	7.3	35
112	A novel titania/calcium silicate hydrate hierarchical coating on titanium. *Colloids and Surfaces B: Biointerfaces*, **2015**, 134, 169-77	6	34
111	Zero-order controlled release of BMP2-derived peptide P24 from the chitosan scaffold by chemical grafting modification technique for promotion of osteogenesis vitro and enhancement of bone repair. *Theranostics*, **2017**, 7, 1072-1087	12.1	34
110	Preparation of three-dimensional fibroin/collagen scaffolds in various pH conditions. *Journal of Materials Science: Materials in Medicine*, **2008**, 19, 629-34	4.5	34
109	Alginate hydrogel-mediated crystallization of calcium carbonate. *Journal of Solid State Chemistry*, **2011**, 184, 1008-1015	3.3	33
108	Preparation and characterization of PLA/fibroin composite and culture of HepG2 (human hepatocellular liver carcinoma cell line) cells. *Composites Science and Technology*, **2007**, 67, 3023-3030	8.6	33
107	The deep-sea natural products, biogenic polyphosphate (Bio-PolyP) and biogenic silica (Bio-Silica), as biomimetic scaffolds for bone tissue engineering: fabrication of a morphogenetically-active polymer. *Marine Drugs*, **2013**, 11, 718-46	6	32
106	Morphology and formation mechanism of vaterite particles grown in glycine-containing aqueous solutions. *Materials Science and Engineering C*, **2006**, 26, 644-647	8.3	32
105	Repairing goat tibia segmental bone defect using scaffold cultured with mesenchymal stem cells. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2010**, 94, 44-52	3.5	31
104	Isoquercitrin and polyphosphate co-enhance mineralization of human osteoblast-like SaOS-2 cells via separate activation of two RUNX2 cofactors AFT6 and Ets1. *Biochemical Pharmacology*, **2014**, 89, 413-21	6	30
103	Nonenzymatic Transformation of Amorphous CaCO3 into Calcium Phosphate Mineral after Exposure to Sodium Phosphate in Vitro: Implications for in Vivo Hydroxyapatite Bone Formation. *ChemBioChem*, **2015**, 16, 1323-32	3.8	30
102	Calcium concentration dependent collagen mineralization. *Materials Science and Engineering C*, **2017**, 73, 137-143	8.3	29
101	In vitro BMP-2 peptide release from thiolated chitosan based hydrogel. *International Journal of Biological Macromolecules*, **2016**, 93, 314-321	7.9	29
100	In Vitro Uptake of Silver Nanoparticles and Their Toxicity in Human Mesenchymal Stem Cells Derived from Bone Marrow. *Journal of Nanoscience and Nanotechnology*, **2016**, 16, 219-28	1.3	29
99	Surface chemical functionalities affect the behavior of human adipose-derived stem cells in vitro. *Applied Surface Science*, **2013**, 270, 473-479	6.7	29
98	A simple method to control the polymorphs of calcium carbonate in CO2-diffusion precipitation. *Journal of Crystal Growth*, **2005**, 282, 214-219	1.6	29
97	Hydroxyapatite/collagen coating on PLGA electrospun fibers for osteogenic differentiation of bone marrow mesenchymal stem cells. *Journal of Biomedical Materials Research - Part A*, **2018**, 106, 2863-2870	5.4	29
96	Preparation and characterization of TiO2/silicate hierarchical coating on titanium surface for biomedical applications. *Materials Science and Engineering C*, **2016**, 60, 308-316	8.3	28

95	Hierarchical structure and cytocompatibility of fish scales from Carassius auratus. *Materials Science and Engineering C*, **2014**, 43, 145-52	8.3	28
94	Amorphous polyphosphate/amorphous calcium carbonate implant material with enhanced bone healing efficacy in a critical-size defect in rats. *Biomedical Materials (Bristol)*, **2016**, 11, 035005	3.5	28
93	Inorganic polyphosphate induces accelerated tube formation of HUVEC endothelial cells. *Cellular and Molecular Life Sciences*, **2018**, 75, 21-32	10.3	28
92	Effects of titanium surface roughness on the mediation of osteogenesis via modulating the immune response of macrophages. *Biomedical Materials (Bristol)*, **2018**, 13, 045013	3.5	27
91	A novel growth process of calcium carbonate crystals in silk fibroin hydrogel system. *Materials Science and Engineering C*, **2013**, 33, 2413-20	8.3	27
90	A spheres-in-sphere structure for improving protein-loading poly (lactide-co-glycolide) microspheres. *Polymer Degradation and Stability*, **2010**, 95, 6-13	4.7	27
89	In Vitro Effect of 30 nm Silver Nanoparticles on Adipogenic Differentiation of Human Mesenchymal Stem Cells. *Journal of Biomedical Nanotechnology*, **2016**, 12, 525-35	4	26
88	In vitro and in vivo degradation of an injectable bone repair composite. *Polymer Degradation and Stability*, **2010**, 95, 1736-1742	4.7	26
87	Fabrication of amorphous strontium polyphosphate microparticles that induce mineralization of bone cells in vitro and in vivo. *Acta Biomaterialia*, **2017**, 50, 89-101	10.8	25
86	Reduced inflammatory response by incorporating magnesium into porous TiO coating on titanium substrate. *Colloids and Surfaces B: Biointerfaces*, **2018**, 171, 276-284	6	25
85	3D Printing of Conductive Tissue Engineering Scaffolds Containing Polypyrrole Nanoparticles with Different Morphologies and Concentrations. *Materials*, **2019**, 12,	3.5	25
84	Characterization of organic matrix extracted from fresh water pearls. *Materials Science and Engineering C*, **2011**, 31, 1338-1342	8.3	25
83	Self-assembly model, hepatocytes attachment and inflammatory response for silk fibroin/chitosan scaffolds. *Biomedical Materials (Bristol)*, **2009**, 4, 045014	3.5	25
82	Incorporation of silica nanoparticles to PLGA electrospun fibers for osteogenic differentiation of human osteoblast-like cells. *International Journal of Energy Production and Management*, **2018**, 5, 229-238	5.3	24
81	In-vitro study on calcium carbonate crystal growth mediated by organic matrix extracted from fresh water pearls. *Materials Science and Engineering C*, **2012**, 32, 1963-1970	8.3	24
80	In-situ grown hydroxyapatite whiskers reinforced porous HA bioceramic. *Ceramics International*, **2013**, 39, 8847-8852	5.1	24
79	Enhanced SaOS-2 cell adhesion, proliferation and differentiation on Mg-incorporated micro/nano-topographical TiO2 coatings. *Applied Surface Science*, **2018**, 447, 767-776	6.7	23
78	The negative effect of silica nanoparticles on adipogenic differentiation of human mesenchymal stem cells. *Materials Science and Engineering C*, **2017**, 81, 341-348	8.3	22

77	Resin composites reinforced by nanoscaled fibers or tubes for dental regeneration. *BioMed Research International*, **2014**, 2014, 542958	3	22
76	The Use of Nanoscaled Fibers or Tubes to Improve Biocompatibility and Bioactivity of Biomedical Materials. *Journal of Nanomaterials*, **2013**, 2013, 1-16	3.2	22
75	Growth of fibroblast and vascular smooth muscle cells in fibroin/collagen scaffold. *Materials Science and Engineering C*, **2009**, 29, 2239-2245	8.3	22
74	The influence of soft segment length on the properties of poly(butylene terephthalate-co-succinate)-b-poly(ethylene glycol) segmented random copolymers. *European Polymer Journal*, **2004**, 40, 1297-1308	5.2	22
73	Homogeneous chitosan/poly(L-lactide) composite scaffolds prepared by emulsion freeze-drying. *Journal of Biomaterials Science, Polymer Edition*, **2012**, 23, 391-404	3.5	21
72	Investigation on the mechanism of the osteoinduction for calcium phosphate. *Bone*, **2008**, 43, S111-S112	4.7	21
71	Development of a morphogenetically active scaffold for three-dimensional growth of bone cells: biosilica-alginate hydrogel for SaOS-2 cell cultivation. *Journal of Tissue Engineering and Regenerative Medicine*, **2015**, 9, E39-50	4.4	19
70	Uptake of polyphosphate microparticles in vitro (SaOS-2 and HUVEC cells) followed by an increase of the intracellular ATP pool size. *PLoS ONE*, **2017**, 12, e0188977	3.7	19
69	Silk fibroin/chitosan/heparin scaffold: preparation, antithrombogenicity and culture with hepatocytes. *Polymer International*, **2010**, 59, 55-61	3.3	19
68	Rebalancing β-Amyloid-Induced Decrease of ATP Level by Amorphous Nano/Micro Polyphosphate: Suppression of the Neurotoxic Effect of Amyloid β-Protein Fragment 25-35. *International Journal of Molecular Sciences*, **2017**, 18,	6.3	18
67	A dual microsphere based on PLGA and chitosan for delivering the oligopeptide derived from BMP-2. *Polymer Degradation and Stability*, **2011**, 96, 107-113	4.7	18
66	The immunomodulatory effects of Zn-incorporated micro/nanostructured coating in inducing osteogenesis. *Artificial Cells, Nanomedicine and Biotechnology*, **2018**, 46, 1123-1130	6.1	17
65	The osteogenic, inflammatory and osteo-immunomodulatory performances of biomedical Ti-Ta metal-metal composite with Ca- and Si-containing bioceramic coatings. *Colloids and Surfaces B: Biointerfaces*, **2018**, 169, 49-59	6	17
64	Repair of rat calvarial bone defects by controlled release of rhBMP-2 from an injectable bone regeneration composite. *Journal of Tissue Engineering and Regenerative Medicine*, **2012**, 6, 614-21	4.4	17
63	Repairing 25 mm bone defect using fibres reinforced scaffolds as well as autograft bone. *Bone*, **2008**, 43, S94	4.7	17
62	Preparation of insoluble fibroin/collagen films without methanol treatment and the increase of its flexibility and cytocompatibility. *Journal of Applied Polymer Science*, **2008**, 109, 1577-1584	2.9	17
61	Silica-gentamicin nanohybrids: combating antibiotic resistance, bacterial biofilms, and in vivo toxicity. *International Journal of Nanomedicine*, **2018**, 13, 7939-7957	7.3	17
60	Silver nanoparticles stimulate osteogenesis of human mesenchymal stem cells through activation of autophagy. *Nanomedicine*, **2020**, 15, 337-353	5.6	16

59	Chitosan/nHAC/PLGA microsphere vehicle for sustained release of rhBMP-2 and its derived synthetic oligopeptide for bone regeneration. *Journal of Biomedical Materials Research - Part A*, **2017**, 105, 1593-1606	5.4	16
58	3D scaffold of PLLA/pearl and PLLA/nacre powder for bone regeneration. *Biomedical Materials (Bristol)*, **2013**, 8, 065001	3.5	16
57	SaOS-2 cell response to macro-porous boron-incorporated TiO2 coating prepared by micro-arc oxidation on titanium. *Materials Science and Engineering C*, **2016**, 67, 195-204	8.3	16
56	The development of Cu-incorporated micro/nano-topographical bio-ceramic coatings for enhanced osteoblast response. *Applied Surface Science*, **2019**, 465, 575-583	6.7	16
55	Effects of silica-gentamicin nanohybrids on osteogenic differentiation of human osteoblast-like SaOS-2 cells. *International Journal of Nanomedicine*, **2018**, 13, 877-893	7.3	16
54	Amorphous, Smart, and Bioinspired Polyphosphate Nano/Microparticles: A Biomaterial for Regeneration and Repair of Osteo-Articular Impairments In-Situ. *International Journal of Molecular Sciences*, **2018**, 19,	6.3	15
53	A crucial process: organic matrix and magnesium ion control of amorphous calcium carbonate crystallization on β-chitin film. *CrystEngComm*, **2015**, 17, 32-39	3.3	14
52	Enhanced hydrophilicity and in vitro bioactivity of porous TiO2 film through the incorporation of boron. *Ceramics International*, **2015**, 41, 4452-4459	5.1	14
51	Effects of hydroxyapatite/collagen composite on osteogenic differentiation of rat bone marrow derived mesenchymal stem cells. *Journal of Composite Materials*, **2014**, 48, 1971-1980	2.7	14
50	Origin of growth defects in pearl. *Materials Characterization*, **2012**, 72, 94-103	3.9	14
49	Vascularized bone tissue formation induced by fiber-reinforced scaffolds cultured with osteoblasts and endothelial cells. *BioMed Research International*, **2013**, 2013, 854917	3	14
48	Alternate deposition of oriented calcite and amino acid layer on calcite substrates. *Journal of Physical Chemistry B*, **2008**, 112, 13635-40	3.4	14
47	Preparation and properties of poly(butylene terephthalate-co-cyclohexanedimethylene terephthalate)-b-poly(ethylene glycol) segmented random copolymers. *Polymer Degradation and Stability*, **2004**, 85, 559-570	4.7	14
46	Comparing the regeneration potential between PLLA/Aragonite and PLLA/Vaterite pearl composite scaffolds in rabbit radius segmental bone defects. *Bioactive Materials*, **2020**, 5, 980-989	16.7	14
45	A dual-layer macro/mesoporous structured TiO surface improves the initial adhesion of osteoblast-like cells. *Materials Science and Engineering C*, **2017**, 78, 443-451	8.3	13
44	Incorporation of strontium into hydroxyapatite via biomineralization of collagen fibrils. *Ceramics International*, **2015**, 41, 8773-8778	5.1	13
43	Silver nanoparticles: in vivo toxicity in zebrafish embryos and a comparison to silver nitrate. *Journal of Nanoparticle Research*, **2016**, 18, 1	2.3	13
42	Effects of the hierarchical macro/mesoporous structure on the osteoblast-like cell response. *Journal of Biomedical Materials Research - Part A*, **2018**, 106, 1896-1902	5.4	12

41	Calcium carbonate nanoparticles promote osteogenesis compared to adipogenesis in human bone-marrow mesenchymal stem cells. *Progress in Natural Science: Materials International*, **2018**, 28, 598-608	3.6	12
40	In vitro 30 nm silver nanoparticles promote chondrogenesis of human mesenchymal stem cells. *RSC Advances*, **2015**, 5, 49809-49818	3.7	11
39	Microstructure and inclusion of Ti₂Al₂V fabricated by selective laser melting. *Frontiers of Materials Science*, **2016**, 10, 428-431	2.5	11
38	Micro/nanostructured TiO/ZnO coating enhances osteogenic activity of SaOS-2 cells. *Artificial Cells, Nanomedicine and Biotechnology*, **2019**, 47, 2838-2845	6.1	11
37	What is the difference in organic matrix of aragonite vs. vaterite polymorph in natural shell and pearl? Study of the pearl-forming freshwater bivalve mollusc Hyriopsis cumingii. *Materials Science and Engineering C*, **2013**, 33, 1521-9	8.3	11
36	An approach to a biomimetic bone scaffold: increased expression of BMP-2 and of osteoprotegerin in SaOS-2 cells grown onto silica-biologized 3D printed scaffolds. *RSC Advances*, **2013**, 3, 11140-11147	3.7	11
35	Structure and biocompatibility of an injectable bone regeneration composite. *Journal of Biomaterials Science, Polymer Edition*, **2011**, 22, 1861-79	3.5	11
34	The co-effect of organic matrix from carp otolith and microenvironment on calcium carbonate mineralization. *Materials Science and Engineering C*, **2013**, 33, 3440-9	8.3	10
33	Restoration of Impaired Metabolic Energy Balance (ATP Pool) and Tube Formation Potential of Endothelial Cells under "high glucose", Diabetic Conditions by the Bioinorganic Polymer Polyphosphate. *Polymers*, **2017**, 9,	4.5	10
32	Emulsion Self-Assembly Synthesis of Chitosan/Poly(lactic-co-glycolic acid) Stimuli-Responsive Amphiphiles. *Macromolecular Chemistry and Physics*, **2013**, 214, 700-706	2.6	10
31	Effects of functional groups and soluble matrices in fish otolith on calcium carbonate mineralization. *Biomedical Materials (Bristol)*, **2010**, 5, 055009	3.5	10
30	Principles of calcium-based biomineralization. *Progress in Molecular and Subcellular Biology*, **2011**, 52, 141-97	3	10
29	A novel method to in vitro evaluate biocompatibility of nanoscaled scaffolds. *Journal of Biomedical Materials Research - Part A*, **2016**, 104, 2117-25	5.4	9
28	Preparation and in vitro study of hydrochloric norvancomycin encapsulated poly (d,l-lactide-co-glycolide, PLGA) microspheres for potential use in osteomyelitis. *Artificial Cells, Nanomedicine and Biotechnology*, **2017**, 45, 1326-1330	6.1	9
27	The co-effect of surface topography gradient fabricated via immobilization of gold nanoparticles and surface chemistry via deposition of plasma polymerized film of allylamine/acrylic acid on osteoblast-like cell behavior. *Applied Surface Science*, **2019**, 473, 838-847	6.7	9
26	Bifunctional dentifrice: Amorphous polyphosphate a regeneratively active sealant with potent anti-Streptococcus mutans activity. *Dental Materials*, **2017**, 33, 753-764	5.7	8
25	Hierarchical structure of the otolith of adult wild carp. *Materials Science and Engineering C*, **2009**, 29, 919-924	8.3	8
24	A Novel Biomimetic Approach to Repair Enamel Cracks/Carious Damages and to Reseal Dentinal Tubules by Amorphous Polyphosphate. *Polymers*, **2017**, 9,	4.5	7

23	Combined Effects of Mechanical Strain and Hydroxyapatite/Collagen Composite on Osteogenic Differentiation of Rat Bone Marrow Derived Mesenchymal Stem Cells. *Journal of Nanomaterials*, **2013**, 2013, 1-7	3.2	7
22	A biomimetic approach to ameliorate dental hypersensitivity by amorphous polyphosphate microparticles. *Dental Materials*, **2016**, 32, 775-83	5.7	7
21	The effect of hydroxyapatite nanoparticles on adipogenic differentiation of human mesenchymal stem cells. *Journal of Biomedical Materials Research - Part A*, **2018**, 106, 1822-1831	5.4	6
20	Primary Cell Culture of Fresh Water Hyriopsis cumingii Mantle/Pearl Sac Tissues and Its Effect on Calcium Carbonate Mineralization. *Crystal Growth and Design*, **2014**, 14, 1149-1157	3.5	6
19	Modification of an Injectable Chitosan Scaffold by Blending with NaHCO3 to Improve Cytocompatibility. *Polymers and Polymer Composites*, **2011**, 19, 781-788	0.8	6
18	Hierarchical structure of asteriscus and in vitro mineralization on asteriscus substrate. *Journal of Crystal Growth*, **2011**, 325, 46-51	1.6	6
17	Noninvasive Evaluation of Injectable Chitosan/Nano-Hydroxyapatite/Collagen Scaffold via Ultrasound. *Journal of Nanomaterials*, **2012**, 2012, 1-7	3.2	6
16	Noninvasive Continuous Monitoring of Adipocyte Differentiation: From Macro to Micro Scales. *Microscopy and Microanalysis*, **2019**, 25, 119-128	0.5	5
15	A facile way to prepare mesoporous spherical calcites controlled by chondroitin sulfate for shape and carboxymethyl chitosan for size. *CrystEngComm*, **2016**, 18, 8582-8586	3.3	5
14	Effect of in vitro collagen fibrillogenesis on Langmuir-Blodgett (LB) deposition for cellular behavior regulation. *Colloids and Surfaces B: Biointerfaces*, **2019**, 179, 48-55	6	4
13	A novel dual microsphere based on water-soluble thiolated chitosan/mesoporous calcium carbonate for controlled dual drug delivery. *Materials Letters*, **2021**, 285, 129142	3.3	4
12	Effect of stabilizers on bioactivity of peptide-24 in PLGA microspheres. *Medicinal Chemistry*, **2013**, 9, 1123-8	1.8	3
11	A cyclo-trimer of acetonitrile combining fluorescent property with ability to induce osteogenesis and its potential as multifunctional biomaterial. *Acta Biomaterialia*, **2018**, 65, 163-173	10.8	2
10	Recent Patents on Polymeric Scaffolds for Tissue Engineering. *Recent Patents on Biomedical Engineering*, **2009**, 2, 65-72		2
9	Dose-dependent enhancement of bioactivity by surface ZnO nanostructures on acid-etched pure titanium. *Advances in Applied Ceramics*, **2019**, 118, 121-125	2.3	2
8	ZnO nanostructures enhance the osteogenic capacity of SaOS-2 cells on acid-etched pure Ti. *Materials Letters*, **2018**, 215, 173-175	3.3	2
7	A Multidisciplined Teaching Reform of Biomaterials Course for Undergraduate Students. *Journal of Science Education and Technology*, **2015**, 24, 735-746	2.8	1
6	The Experimental Study on Promoting the Ilizarov Distraction Osteogenesis by the Injection of Liquid Alg/nHAC Biocomposites. *International Journal of Polymer Science*, **2014**, 2014, 1-9	2.4	1

5	Influence of mineralized collagen fibrils on the thermo-sensitivity of an injectable scaffold for bone regeneration. *International Journal of Materials Research*, **2011**, 102, 1384-1390	0.5	1
4	Synergistic Effect of Surface Chemistry and Surface Topography Gradient on Osteogenic/Adipogenic Differentiation of hMSCs. *ACS Applied Materials & Interfaces*, **2021**, 13, 30306-30316	0.5	1
3	Synergetic Enhancement of Mechanical Properties for Silk Fibers by a Green Feeding Approach with Nano-hydroxyapatite/collagen Composite Additive. *Journal of Natural Fibers*,1-11	1.8	1
2	The Preparation andIn VitroEvaluations of a Nanoscaled Injectable Bone Repair Material. *Journal of Nanomaterials*, **2015**, 2015, 1-8	3.2	
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