Byong-Taek Lee

List of Publications by Year
in descending order

256 papers	5,830 citations	81900 39 h-index	138484 58 g-index
257 all docs	257 docs citations	257 times ranked	7428 citing authors

#	Article	IF	Citations
1	Synthesis of high purity nano-sized hydroxyapatite powder by microwave-hydrothermal method. Materials Chemistry and Physics, 2006, 99, 235-239.	4.0	189
2	Electro-spinning of PLGA/PCL blends for tissue engineering and their biocompatibility. Journal of Materials Science: Materials in Medicine, 2010, 21, 1969-1978.	3.6	151
3	Chitosanâ€“hyaluronic acid polyelectrolyte complex scaffold crosslinked with genipin for immobilization and controlled release of BMP-2. Carbohydrate Polymers, 2015, 115, 160-169.	10.2	130
4	Preparation and characterization of PLGA microspheres by the electrospraying method for delivering simvastatin for bone regeneration. International Journal of Pharmaceutics, 2013, 443, 87-94.	5.2	122
5	Fabrication of polyvinyl alcohol/gelatin nanofiber composites and evaluation of their material properties. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2010, 95B, 184-191.	3.4	108
6	Curcumin incorporation into an oxidized cellulose nanofiber-polyvinyl alcohol hydrogel system promotes wound healing. Materials and Design, 2020, 186, 108313.	7.0	106
7	Electrospinning of polyvinyl alcohol/gelatin nanofiber composites and cross-linking for bone tissue engineering application. Journal of Biomaterials Applications, 2012, 27, 255-266.	2.4	102
8	In vitro and in vivo evaluation of effectiveness of a novel TEMPO-oxidized cellulose nanofiber-silk fibroin scaffold in wound healing. Carbohydrate Polymers, 2017, 177, 284-296.	10.2	96
9	A Combination of Biphasic Calcium Phosphate Scaffold with Hyaluronic Acid-Gelatin Hydrogel as a New Tool for Bone Regeneration. Tissue Engineering - Part A, 2014, 20, 1993-2004.	3.1	83
10	Fabrication of oxidized alginate-gelatin-BCP hydrogels and evaluation of the microstructure, material properties and biocompatibility for bone tissue regeneration. Journal of Biomaterials Applications, 2012, 27, 311-321.	2.4	80
11	<i>In vitro</i> and <i>in vivo</i> evaluation of electrospun PCL/PMMA fibrous scaffolds for bone regeneration. Science and Technology of Advanced Materials, 2013, 14, 015009.	6.1	75
12	Microstructure and mechanical properties of porous yttria stabilized zirconia ceramic using poly methyl methacrylate powder. Scripta Materialia, 2006, 54, 2081-2085.	5.2	74
13	Preparation and characterization of electrospun PCL/PLGA membranes and chitosan/gelatin hydrogels for skin bioengineering applications. Journal of Materials Science: Materials in Medicine, 2011, 22, 2207-2218.	3.6	73
14	In situ synthesis of spherical BCP nanopowders by microwave assisted process. Materials Chemistry and Physics, 2007, 104, 249-253.	4.0	71
15	Nano Ag loaded PVA nanoâ€fibrous mats for skin applications. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2011, 96B, 225-233.	3.4	67
16	Bone formation of a porous Gelatin-Pectin-biphasic calcium phosphate composite in presence of BMP-2 and VEGF. International Journal of Biological Macromolecules, 2015, 76, 10-24.	7.5	67
17	Effect of Local Sustainable Release of BMP2-VEGF from Nano-Cellulose Loaded in Sponge Biphasic Calcium Phosphate on Bone Regeneration. Tissue Engineering - Part A, 2015, 21, 1822-1836.	3.1	67
18	In vitro and in vivo acute response towards injectable thermosensitive chitosan/TEMPO-oxidized cellulose nanofiber hydrogel. Carbohydrate Polymers, 2018, 180, 246-255.	10.2	66

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19	<i>In Vitro</i> and <i>In Vivo</i> Studies of BMP-2-Loaded PCLâ€“Gelatinâ€“BCP Electrospun Scaffolds. Tissue Engineering - Part A, 2014, 20, 3279-3289.	3.1	62
20	Hard tissue regeneration using bone substitutes: an update on innovations in materials. Korean Journal of Internal Medicine, 2015, 30, 279.	1.7	61
21	Fabrication and biocompatibility of novel bilayer scaffold for skin tissue engineering applications. Journal of Biomaterials Applications, 2013, 27, 605-615.	2.4	59
22	Enhanced decellularization technique of porcine dermal ECM for tissue engineering applications. Materials Science and Engineering C, 2019, 104, 109841.	7.3	56
23	Multi-functional nanocellulose-chitosan dressing loaded with antibacterial lawsone for rapid hemostasis and cutaneous wound healing. Carbohydrate Polymers, 2021, 272, 118482.	10.2	56
24	Functional nanofiber mat of polyvinyl alcohol/gelatin containing nanoparticles of biphasic calcium phosphate for bone regeneration in rat calvaria defects. Journal of Biomedical Materials Research - Part A, 2013, 101A, 2412-2423.	4.0	54
25	Incorporation of chitosan-alginate complex into injectable calcium phosphate cement system as a bone graft material. Materials Science and Engineering C, 2019, 94, 385-392.	7.3	50
26	Bioactive glass incorporation in calcium phosphate cement-based injectable bone substitute for improved <i>inÂvitro</i> biocompatibility and <i>inÂvivo</i> bone regeneration. Journal of Biomaterials Applications, 2014, 28, 739-756.	2.4	49
27	The effect of cross-linking on the microstructure, mechanical properties and biocompatibility of electrospun polycaprolactoneâ€“gelatin/PLGAâ€“gelatin/PLGAâ€“chitosan hybrid composite. Science and Technology of Advanced Materials, 2012, 13, 035002.	6.1	48
28	Fabrication of photocatalytic PVAâ€“TiO2 nano-fibrous hybrid membrane using the electro-spinning method. Journal of Materials Science, 2011, 46, 5615-5620.	3.7	47
29	<i>In vitro</i> and <i>in vivo</i> assessment of biomedical Mgâ€“Ca alloys for bone implant applications. Journal of Applied Biomaterials and Functional Materials, 2018, 16, 126-136.	1.6	47
30	Fabrication of a Continuously Oriented Porous Al₂O₃ Body and Its <i>In Vitro</i> Study. Journal of the American Ceramic Society, 2005, 88, 2262-2266.	3.8	46
31	Fabrication of Ag nanoparticles dispersed in PVA nanowire mats by microwave irradiation and electro-spinning. Materials Science and Engineering C, 2010, 30, 944-950.	7.3	46
32	Evaluation of the potential antiâ€adhesion effect of the PVA/Gelatin membrane. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2014, 102, 840-849.	3.4	46
33	Hybrid hydroxyapatite nanoparticles-loaded PCL/GE blend fibers for bone tissue engineering. Journal of Biomaterials Science, Polymer Edition, 2013, 24, 520-538.	3.5	45
34	<i>In vitro</i>and<i>in vivo</i>evaluation of porous PCL-PLLA 3D polymer scaffolds fabricated via salt leaching method for bone tissue engineering applications. Journal of Biomaterials Science, Polymer Edition, 2014, 25, 150-167.	3.5	45
35	Cryptotanshinone promotes commitment to the brown adipocyte lineage and mitochondrial biogenesis in C3H10T1/2 mesenchymal stem cells via AMPK and p38-MAPK signaling. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2017, 1862, 1110-1120.	2.4	44
36	Enhancement of hemostatic property of plant derived oxidized nanocellulose-silk fibroin based scaffolds by thrombin loading. Carbohydrate Polymers, 2019, 208, 168-179.	10.2	44

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37	Anodizing Properties of High Dielectric Oxide Films Coated on Aluminum by Sol-Gel Method. Journal of Electroceramics, 2004, 13, 111-116.	2.0	43
38	HAp granules encapsulated oxidized alginateâ€“gelatinâ€“biphasic calcium phosphate hydrogel for bone regeneration. International Journal of Biological Macromolecules, 2015, 81, 898-911.	7.5	43
39	TEMPO oxidized nano-cellulose containing thermo-responsive injectable hydrogel for post-surgical peritoneal tissue adhesion prevention. Materials Science and Engineering C, 2019, 102, 12-21.	7.3	43
40	A hybrid electrospun PU/PCL scaffold satisfied the requirements of blood vessel prosthesis in terms of mechanical properties, pore size, and biocompatibility. Journal of Biomaterials Science, Polymer Edition, 2013, 24, 1692-1706.	3.5	41
41	Evaluation of the cytocompatibility hemocompatibility<i>in vivo</i>bone tissue regenerating capability of different PCL blends. Journal of Biomaterials Science, Polymer Edition, 2014, 25, 487-503.	3.5	39
42	Platelet-rich plasma encapsulation in hyaluronic acid/gelatin-BCP hydrogel for growth factor delivery in BCP sponge scaffold for bone regeneration. Journal of Biomaterials Applications, 2015, 29, 988-1002.	2.4	39
43	Incorporation of BMP-2 loaded collagen conjugated BCP granules in calcium phosphate cement based injectable bone substitutes for improved bone regeneration. Materials Science and Engineering C, 2017, 77, 713-724.	7.3	39
44	A hybrid composite system of biphasic calcium phosphate granules loaded with hyaluronic acidâ€“gelatin hydrogel for bone regeneration. Journal of Biomaterials Applications, 2017, 32, 433-445.	2.4	39
45	Investigation of efficiency of a novel, zinc oxide loaded TEMPO-oxidized cellulose nanofiber based hemostat for topical bleeding. International Journal of Biological Macromolecules, 2019, 126, 786-795.	7.5	38
46	Microstructural characterization of electroconductive Si3N4â€“TiN composites. Materials Letters, 2001, 47, 71-76.	2.6	37
47	Effect of sintering additives on the nitridation behavior of reaction-bonded silicon nitride. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2004, 364, 126-131.	5.6	37
48	Microstructures and bond strengths of plasma-sprayed hydroxyapatite coatings on porous titanium substrates. Journal of Materials Science: Materials in Medicine, 2005, 16, 635-640.	3.6	36
49	Fabrication of Porous Hydroxyapatite Scaffolds as Artificial Bone Preform and its Biocompatibility Evaluation. ASAIO Journal, 2014, 60, 216-223.	1.6	36
50	Preparation and characterization of polycaprolactoneâ€“polyethylene glycol methyl ether and polycaprolactoneâ€“chitosan electrospun mats potential for vascular tissue engineering. Journal of Biomaterials Applications, 2017, 32, 648-662.	2.4	36
51	Fabrication of calcium phosphate-calcium sulfate injectable bone substitute using chitosan and citric acid. Journal of Materials Science: Materials in Medicine, 2009, 20, 935-941.	3.6	35
52	Fabrication of calcium phosphateâ€“calcium sulfate injectable bone substitute using hydroxy-propyl-methyl-cellulose and citric acid. Journal of Materials Science: Materials in Medicine, 2010, 21, 1867-1874.	3.6	35
53	In vitro and in vivo evaluation of bioglass microspheres incorporated brushite cement for bone regeneration. Materials Science and Engineering C, 2019, 103, 109775.	7.3	35
54	Microstructures and material properties of fibrous Al2O3â€“(m-ZrO2)/t-ZrO2 composites fabricated by a fibrous monolithic process. Journal of Materials Research, 2004, 19, 3234-3241.	2.6	34

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55	Fabrication of continuously porous SiCâ€“Si3N4 composite using SiC powder by extrusion process. Journal of the European Ceramic Society, 2006, 26, 2467-2473.	5.7	34
56	On Stabilization of PVPA/PVA Electrospun Nanofiber Membrane and Its Effect on Material Properties and Biocompatibility. Journal of Nanomaterials, 2012, 2012, 1-9.	2.7	34
57	Characterization of nano-structured TiN thin films prepared by R.F. magnetron sputtering. Materials Letters, 2005, 59, 3929-3932.	2.6	33
58	Formation of AlN nanowires using Al powder. Materials Chemistry and Physics, 2008, 112, 562-565.	4.0	33
59	Nanoparticle Biphasic Calcium Phosphate Loading on Gelatin-Pectin Scaffold for Improved Bone Regeneration. Tissue Engineering - Part A, 2015, 21, 1376-1387.	3.1	33
60	Synthesis of functional gradient BCP/ZrO2 bone substitutes using ZrO2 and BCP nanopowders. Journal of the European Ceramic Society, 2011, 31, 1541-1548.	5.7	32
61	Functionalization of porous BCP scaffold by generating cellâ€derived extracellular matrix from rat bone marrow stem cells culture for bone tissue engineering. Journal of Tissue Engineering and Regenerative Medicine, 2018, 12, e1256-e1267.	2.7	32
62	Microstructure of rapidly solidified Alâ€“20Si alloy powders. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2001, 304-306, 617-620.	5.6	30
63	Electrospun PLGA/gelatin fibrous tubes for the application of biodegradable intestinal stent in rat model. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2013, 101B, 1095-1105.	3.4	30
64	Examination of In vitro and In vivo biocompatibility of alginate-hyaluronic acid microbeads As a promising method in cell delivery for kidney regeneration. International Journal of Biological Macromolecules, 2017, 105, 143-153.	7.5	30
65	Designing of Combined Nano and Microfiber Network by Immobilization of Oxidized Cellulose Nanofiber on Polycaprolactone Fibrous Scaffold. Journal of Biomedical Nanotechnology, 2016, 12, 1864-1875.	1.1	29
66	Relationship Between Microstructures and Material Properties of Novel Fibrous Al2O3-(m-ZrO2)/t-ZrO2 Composites. Journal of the American Ceramic Society, 2005, 88, 2874-2878.	3.8	28
67	Microstructure control of continuously porous t-ZrO2 bodies fabricated by multi-pass extrusion process. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2006, 419, 269-275.	5.6	28
68	Formation of rod-like Si3N4 grains in porous SRBSN bodies using 6Y2O3â€“2MgO sintering additives. Ceramics International, 2009, 35, 2305-2310.	4.8	28
69	Plant-derived oxidized nanofibrillar cellulose-chitosan composite as an absorbable hemostat. Materials Letters, 2017, 197, 150-155.	2.6	28
70	Pretreatment effect on the synthesis of Ag-coated Al2O3 powders by electroless deposition process. Surface and Coatings Technology, 2005, 195, 333-337.	4.8	27
71	A Novel Method to Fabricate Unidirectional Porous Hydroxyapatite Body Using Ethanol Bubbles in a Viscous Slurry. Journal of the American Ceramic Society, 2008, 91, 3125-3127.	3.8	27
72	Osteogenic potential of simvastatin loaded gelatin-nanofibrillar cellulose-Î² tricalcium phosphate hydrogel scaffold in critical-sized rat calvarial defect. European Polymer Journal, 2015, 73, 308-323.	5.4	27

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73	In vitro and in vivo evaluation of Ca/P-hyaluronic acid/gelatin based novel dental plugs for one-step socket preservation. Materials and Design, 2020, 194, 108891.	7.0	27
74	Fabrication of pore-gradient Al2O3â€“ZrO2 sintered bodies by fibrous monolithic process. Journal of the European Ceramic Society, 2006, 26, 3525-3530.	5.7	26
75	<i>In vitro</i> and <i>in vivo</i> studies of rhBMP2â€coated PS/PCL fibrous scaffolds for bone regeneration. Journal of Biomedical Materials Research - Part A, 2013, 101A, 797-808.	4.0	26
76	Controlled release of Mitomycin C from modified cellulose based thermo-gel prevents post-operative de novo peritoneal adhesion. Carbohydrate Polymers, 2020, 229, 115552.	10.2	26
77	Stress-Induced Phase Transformation of ZrO2 in ZrO2 (3mol%Y2O3)-25vol%Al2O3 Composite Studied by Transmission Electron Microscopy. Scripta Materialia, 1998, 38, 1101-1107.	5.2	25
78	Development and properties of duplex MgF2/PCL coatings on biodegradable magnesium alloy for biomedical applications. PLoS ONE, 2018, 13, e0193927.	2.5	25
79	Bone regeneration of multichannel biphasic calcium phosphate granules supplemented with hyaluronic acid. Materials Science and Engineering C, 2019, 99, 1058-1066.	7.3	25
80	Evaluation of bone regeneration potential of injectable extracellular matrix (ECM) from porcine dermis loaded with biphasic calcium phosphate (BCP) powder. Materials Science and Engineering C, 2020, 110, 110663.	7.3	25
81	Hardness behavior of the partially crystallized amorphous Al86Ni9Mm5 alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2003, 363, 81-85.	5.6	24
82	In vitro bioactivity and biocompatibility of calcium phosphate cements using Hydroxy-propyl-methyl-Cellulose (HPMC). Applied Surface Science, 2010, 257, 1533-1539.	6.1	24
83	Fabrication and characterization of ZrO2â€“CaOâ€“P2O5â€“Na2Oâ€“SiO2 bioactive glass ceramics. Journal of Materials Science, 2013, 48, 1863-1872.	3.7	24
84	<i>In vivo</i> evaluation of injectable calcium phosphate cement composed of Znâ€•and Siâ€incorporated Î²â€tricalcium phosphate and monocalcium phosphate monohydrate for a critical sized defect of the rabbit femoral condyle. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2017, 105, 260-271.	3.4	24
85	In vitro biocompatibility of vapour phase polymerised conductive scaffolds for cell lines. Polymer, 2017, 124, 95-100.	3.8	24
86	Thermal cycling effect on osteogenic differentiation of MC3T3-E1 cells loaded on 3D-porous Biphasic Calcium Phosphate (BCP) scaffolds for early osteogenesis. Materials Science and Engineering C, 2019, 105, 110027.	7.3	24
87	Fabrication and characterization of porous poly(lactic-co-glycolic acid) (PLGA) microspheres for use as a drug delivery system. Journal of Materials Science, 2011, 46, 2510-2517.	3.7	23
88	Preparation and characterization of a novel 3D scaffold from poly(É›-caprolactone)/biphasic calcium phosphate hybrid composite microspheres adhesion. Biochemical Engineering Journal, 2012, 64, 76-83.	3.6	23
89	Formation of TiO2 nano fibers on a micro-channeled Al2O3â€“ZrO2/TiO2 porous composite membrane for photocatalytic filtration. Journal of the European Ceramic Society, 2012, 32, 657-663.	5.7	23
90	Microstructure and biocompatibility of composite biomaterials fabricated from titanium and tricalcium phosphate by spark plasma sintering. Journal of Biomedical Materials Research - Part A, 2013, 101A, 1489-1501.	4.0	23

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91	A novel fibrous scaffold composed of electrospun porous poly(É›-caprolactone) fibers for bone tissue engineering. Journal of Biomaterials Applications, 2013, 28, 514-528.	2.4	23
92	Evaluation of egg white ovomucin-based porous scaffold as an implantable biomaterial for tissue engineering. , 2017, 105, 2107-2117.		23
93	Novel TOCNF reinforced injectable alginate / Î²-tricalcium phosphate microspheres for bone regeneration. Materials and Design, 2020, 194, 108892.	7.0	23
94	Thermal stimuli-responsive hyaluronic acid loaded cellulose based physical hydrogel for post-surgical de novo peritoneal adhesion prevention. Materials Science and Engineering C, 2020, 110, 110661.	7.3	23
95	Microstructures and fracture characteristics of spark plasma-sintered HApâ€“5vol.% Ag composites. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2006, 429, 348-352.	5.6	22
96	Comparative study on biodegradation and biocompatibility of multichannel calcium phosphate based bone substitutes. Materials Science and Engineering C, 2020, 110, 110694.	7.3	22
97	Initial biocompatibility and enhanced osteoblast response of Si doping in a porous BCP bone graft substitute. Journal of Materials Science: Materials in Medicine, 2010, 21, 1937-1947.	3.6	21
98	Microstructures of porous Al2O3â€“50 wt.% ZrO2 composites using in-situ synthesized Al2O3â€“ZrO2 composite powders. Materials Letters, 2004, 58, 2181-2185.	2.6	20
99	Microstructural characterization of Al2O3â€“Ni composites prepared by electroless deposition. Surface and Coatings Technology, 2005, 192, 39-42.	4.8	20
100	Microstructure of solâ€“gel synthesized Al2O3â€“ZrO2(Y2O3) nano-composites studied by transmission electron microscopy. Materials Letters, 2005, 59, 355-360.	2.6	20
101	TEM microstructure characterization of nano TiO2 coated on nano ZrO2 powders and their photocatalytic activity. Materials Letters, 2006, 60, 2101-2104.	2.6	20
102	Fabrication and evaluation of powder injection molded Feâ€“Ni sintered bodies using nano Feâ€“50%Ni powder. Journal of Alloys and Compounds, 2010, 491, 391-394.	5.5	20
103	Novel approach to the fabrication of an artificial small bone using a combination of sponge replica and electrospinning methods. Science and Technology of Advanced Materials, 2011, 12, 035002.	6.1	20
104	Poly(vinylphosphonic acid) immobilized on chitosan: A glycosaminoglycan-inspired matrix for bone regeneration. International Journal of Biological Macromolecules, 2014, 64, 294-301.	7.5	20
105	Enzymatic <i>in situ</i> formed hydrogel from gelatinâ€“tyramine and chitosan-4-hydroxylphenyl acetamide for the co-delivery of human adipose-derived stem cells and platelet-derived growth factor towards vascularization. Biomedical Materials (Bristol), 2017, 12, 015026.	3.3	20
106	Micro-Indentation Fracture Behavior of Al₂O₃-24 vol%ZrO₂(Y₂O₃) Composites Studied by Transmission Electron Microscopy. Materials Transactions, JIM, 1993, 34, 682-688.	0.9	19
107	Microstructural Characterization of GPSed-RBSN and GPSed-Si₃N₄ Ceramics. Materials Transactions, JIM, 2000, 41, 312-316.	0.9	19
108	Microstructure characterization and electrical conductivity of electroless nano Ni coated 8YSZ cermets. Surface and Coatings Technology, 2008, 202, 2182-2188.	4.8	19

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109	Fabrication and in vitro evaluations with osteoblast-like MG-63 cells of porous hyaluronic acid-gelatin blend scaffold for bone tissue engineering applications. Journal of Materials Science, 2013, 48, 4233-4242.	3.7	19
110	Preformed chitosan cryogel-biphasic calcium phosphate: a potential injectable biocomposite for pathologic fracture. Journal of Biomaterials Applications, 2015, 30, 182-192.	2.4	19
111	The effect of BMPâ€2 and VEGF loading of gelatinâ€pectinâ€BCP scaffolds to enhance osteoblast proliferation. Journal of Applied Polymer Science, 2015, 132, .	2.6	19
112	A novel hybrid multichannel biphasic calcium phosphate granule-based composite scaffold for cartilage tissue regeneration. Journal of Biomaterials Applications, 2018, 32, 775-787.	2.4	19
113	Effect of Addition of Silicon on the Microstructures and Bending Strength of Continuous Porous SiC-Si3N4 Composites. Journal of the American Ceramic Society, 2006, 89, 2057-2062.	3.8	18
114	Fabrication and microstructure characterization of continuously porous Si2N2Oâ€“Si3N4 ceramics. Materials Letters, 2007, 61, 2182-2186.	2.6	18
115	Microstructures and material properties of fibrous HAp/Al2O3â€“ZrO2 composites fabricated by multi-pass extrusion process. Journal of the European Ceramic Society, 2007, 27, 157-163.	5.7	18
116	<i>In vitro</i>and<i>in vivo</i>evaluation of a macro porous Î²-TCP granule-shaped bone substitute fabricated by the fibrous monolithic process. Biomedical Materials (Bristol), 2010, 5, 035007.	3.3	18
117	Bone Regeneration Using Hydroxyapatite Sponge Scaffolds with In Vivo Deposited Extracellular Matrix. Tissue Engineering - Part A, 2015, 21, 2649-2661.	3.1	18
118	Brushite-based calcium phosphate cement with multichannel hydroxyapatite granule loading for improved bone regeneration. Journal of Biomaterials Applications, 2016, 30, 823-837.	2.4	18
119	Bone morphogenetic proteinâ€2 immobilization on porous PCLâ€BCPâ€Col composite scaffolds for bone tissue engineering. Journal of Applied Polymer Science, 2017, 134, 45186.	2.6	18
120	Nitridation Mechanism of Si Compacts Studied by Transmission Electron Microscopy. Materials Transactions, JIM, 1996, 37, 1547-1553.	0.9	17
121	Phosphonate-chitosan functionalization of a multi-channel hydroxyapatite scaffold for interfacial implant-bone tissue integration. Journal of Materials Chemistry B, 2017, 5, 1293-1301.	5.8	17
122	Preparation and evaluation of BCPâ€CSDâ€agarose composite microsphere for bone tissue engineering. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2019, 107, 2263-2272.	3.4	17
123	Preliminary studies on the in vivo performance of various kinds of nanocellulose for biomedical applications. Journal of Biomaterials Applications, 2020, 34, 942-951.	2.4	17
124	Microstructure and material properties of double-network type fibrous (Al2O3â€“m-ZrO2)/t-ZrO2 composites. Journal of the European Ceramic Society, 2008, 28, 229-233.	5.7	16
125	Microwave sintering and<i>in vitro</i>study of defect-free stable porous multilayered HApâ€“ZrO₂artificial bone scaffold. Science and Technology of Advanced Materials, 2012, 13, 035009.	6.1	16
126	Fabrication of an electroconductive, flexible, and soft poly(3,4-ethylenedioxythiophene)â€“thermoplastic polyurethane hybrid scaffold by <i>in situ</i> vapor phase polymerization. Journal of Materials Chemistry B, 2018, 6, 4082-4088.	5.8	16

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127	Microstructure and fracture characteristic of Si3N4î—¸ZrO2(MgO) ceramic composite studied by transmission electron microscopy. Scripta Metallurgica Et Materialia, 1995, 32, 1073-1077.	1.0	15
128	Fabrication of biphasic calcium phosphates/polycaprolactone composites by melt infiltration process. Journal of Materials Science: Materials in Medicine, 2008, 19, 2223-2229.	3.6	15
129	Microstructure control of TCP/TCP-(t-ZrO2)/t-ZrO2 composites for artificial cortical bone. Materials Science and Engineering C, 2011, 31, 1660-1666.	7.3	15
130	Fabrication of multilayer ZrO₂â€"biphasic calcium phosphateâ€"poly-caprolactone unidirectional channeled scaffold for bone tissue formation. Journal of Biomaterials Applications, 2013, 28, 462-472.	2.4	15
131	Utilization of PVPA and its effect on the material properties and biocompatibility of PVA electrospun membrane. Polymers for Advanced Technologies, 2014, 25, 55-65.	3.2	15
132	In Vitro Study of CaTiO3â€"Hydroxyapatite Composites for Bone Tissue Engineering. ASAIO Journal, 2014, 60, 722-729.	1.6	15
133	Poly(lactide-co-glycolide acid)/biphasic calcium phosphate composite coating on a porous scaffold to deliver simvastatin for bone tissue engineering. Journal of Drug Targeting, 2013, 21, 719-729.	4.4	14
134	Collagen and bone morphogenetic proteinâ€2 functionalized hydroxyapatite scaffolds induce osteogenic differentiation in human adiposeâ€derived stem cells. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2020, 108, 1363-1371.	3.4	14
135	In vitro endothelial differentiation evaluation on polycaprolactone-methoxy polyethylene glycol electrospun membrane and fabrication of multilayered small-diameter hybrid vascular graft. Journal of Biomaterials Applications, 2020, 34, 1395-1408.	2.4	14
136	Evaluation and comparison of the microstructure and mechanical properties of fibrous Al2O3â€"(m-ZrO2)/t-ZrO2 composites after multiple extrusion steps. Ceramics International, 2010, 36, 1971-1976.	4.8	13
137	Preparation and characterization of novel poly(Îµâ€caprolactone)/biphasic calcium phosphate hybrid composite microspheres. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2011, 98B, 272-279.	3.4	13
138	Collagen-hydroxyapatite coated unprocessed cuttlefish bone as a bone substitute. Materials Letters, 2016, 181, 156-160.	2.6	13
139	In-vitro and in-vivo biocompatibility of dECM-alginate as a promising candidate in cell delivery for kidney regeneration. International Journal of Biological Macromolecules, 2022, 211, 616-625.	7.5	13
140	Microstructures and Fracture Characteristic of Si₃N₄-O’SiAlON Composites using Waste-Si-Sludge. Materials Transactions, 2002, 43, 19-23.	1.2	12
141	Fabrication of Continuously Porous Alumina Body by Fibrous Monolithic and Sintering Process. Materials Transactions, 2003, 44, 1851-1856.	1.2	12
142	Fabrication and material properties of powder injection molded Fe sintered bodies using nano Fe powder. Materials Letters, 2007, 61, 1218-1222.	2.6	12
143	Development of BMP-2 immobilized polydopamine mediated multichannelled biphasic calcium phosphate granules for improved bone regeneration. Materials Letters, 2017, 208, 122-125.	2.6	12
144	Bone regeneration strategy by different sized multichanneled biphasic calcium phosphate granules: In vivo evaluation in rabbit model. Journal of Biomaterials Applications, 2018, 32, 1406-1420.	2.4	12

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145	Synthesis of Bioactive Glass by Microwave Energy Irradiation and Its In-Vitro Biocompatibility. Bioceramics Development and Applications, 2011, 1, 1-3.	0.3	12
146	Autologous stromal vascular fraction-loaded hyaluronic acid/gelatin-biphasic calcium phosphate scaffold for bone tissue regeneration. Materials Science and Engineering C, 2022, 132, 112533.	7.3	12
147	Synthesis of Si2N2O nanowires in porous Si2N2Oâ€"Si3N4 substrate using Si powder. Journal of Materials Research, 2007, 22, 615-620.	2.6	11
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