## Synthetic bone graft substitutes

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Citation Report

#	Article	IF	CITATIONS
1	Fabrication of Hydroxyapatite Block from Gypsum Block Based on (NH4)2HPO4 Treatment. Dental Materials Journal, 2005, 24, 515-521.	1.8	32
2	Comparison Between Polyurethanes Containing Castor Oil (Soft Segment) and Cancellous Bone Autograft in the Treatment of Segmental Bone Defect Induced in Rabbits. Journal of Biomaterials Applications, 2007, 21, 283-297.	2.4	34
3	A comparison of different nanostructured biomaterials in subcutaneous tissue. Journal of Materials Science: Materials in Medicine, 2008, 19, 2629-2636.	3.6	21
4	Comparison of in vitro and in vivo Bioactivity of SrO—CaO—ZnO—SiO2 Glass Grafts. Journal of Biomaterials Applications, 2009, 23, 561-572.	2.4	23
5	Global burden of trauma: Need for effective fracture therapies. Indian Journal of Orthopaedics, 2009, 43, 111.	1.1	24
6	Use of platelet-rich plasma in periodontal surgery—a prospective randomised double blind clinical trial. Clinical Oral Investigations, 2009, 13, 179-187.	3.0	44
7	Bone graft substitutes in anterior cervical discectomy and fusion. European Spine Journal, 2009, 18, 449-464.	2.2	122
8	Preliminary investigation of novel bone graft substitutes based on strontium–calcium–zinc–silicate glasses. Journal of Materials Science: Materials in Medicine, 2009, 20, 413-420.	3.6	57
9	The effect of composition on ion release from Ca–Sr–Na–Zn–Si glass bone grafts. Journal of Materials Science: Materials in Medicine, 2009, 20, 2207-2214.	3.6	68
10	USE OF BIOCERAMICS IN FILLING BONE DEFECTS. Revista Brasileira De Ortopedia, 2010, 45, 433-438.	0.6	2
11	Reinforcement of carbonate apatite bone substitutes with carbonate apatite by Ca salt introduction. Journal of the Ceramic Society of Japan, 2010, 118, 521-524.	1.1	7
12	Fabrication of carbonate apatite block based on internal dissolution-precipitation reaction of dicalcium phosphate and calcium carbonate. Dental Materials Journal, 2010, 29, 303-308.	1.8	29
13	Vascular smooth muscle contraction/relaxation of rat carotid artery is not altered by bone grafting substitutes in vitro. Oral and Maxillofacial Surgery, 2010, 14, 97-104.	1.3	0
14	The effect of ionic dissolution products of Ca–Sr–Na–Zn–Si bioactive glass on in vitro cytocompatibility. Journal of Materials Science: Materials in Medicine, 2010, 21, 2827-2834.	3.6	81
15	A review of nanoparticle functionality and toxicity on the central nervous system. Journal of the Royal Society Interface, 2010, 7, S411-22.	3.4	202
16	Biomaterial Design Strategies for the Treatment of Spinal Cord Injuries. Journal of Neurotrauma, 2010, 27, 1-19.	3.4	319
17	Biomedical applications of nanostructured porous silicon: a review. Journal of Nanophotonics, 2010, 4, 042502.	1.0	69
18	Bio-inspired calcium silicate–gelatin bone grafts for load-bearing applications. Journal of Materials Chemistry. 2011. 21. 12793.	6.7	22

#	ARTICLE	IF	CITATIONS
19	ceramics using an indirect rapid prototyping technique. Journal of Materials Science: Materials in Medicine, 2011, 22, 97-105.	3.6	42
20	Influence of microstructure and chemical composition of sputter deposited TiO2 thin films on in vitro bioactivity. Journal of Materials Science: Materials in Medicine, 2011, 22, 2727-2734.	3.6	20
21	Recombinant human bone morphogenetic protein-2 (rhBMP-2) in the treatment of mandibular sequelae after tumor resection. Oral and Maxillofacial Surgery, 2011, 15, 169-174.	1.3	18
22	Adipose-Derived Stem Cells in Functional Bone Tissue Engineering: Lessons from Bone Mechanobiology. Tissue Engineering - Part B: Reviews, 2011, 17, 195-211.	4.8	61
23	The role of perfusion bioreactors in bone tissue engineering. Biomatter, 2012, 2, 167-175.	2.6	125
24	Biomaterials for periodontal regeneration. Biomatter, 2012, 2, 271-277.	2.6	128
25	Conditioned Media from Mesenchymal Stem Cells Enhanced Bone Regeneration in Rat Calvarial Bone Defects. Tissue Engineering - Part A, 2012, 18, 1479-1489.	3.1	304
26	Xenograft Enriched with Autologous Bone Marrow in Inlay Reconstructions: A Tomographic and Histomorphometric Study in Rabbit Calvaria. International Journal of Biomaterials, 2012, 2012, 1-7.	2.4	11
27	Preparation of Sr-containing carbonate apatite as a bone substitute and its properties. Dental Materials Journal, 2012, 31, 197-205.	1.8	6
28	In Vitro Elution Characteristics of Vancomycin in a Composite Calcium Phosphate/Calcium Sulfate Bone Substitute. HSS Journal, 2012, 8, 129-132.	1.7	9
29	Progress and challenges in biomaterials used for bone tissue engineering: bioactive glasses and elastomeric composites. Progress in Biomaterials, 2012, 1, 2.	4.5	175
30	Polycaprolactone scaffold as targeted drug delivery system and cell attachment scaffold for postsurgical care of limb salvage. Drug Delivery and Translational Research, 2012, 2, 272-283.	5.8	39
31	pHEMA-nHA Encapsulation and Delivery of Vancomycin and rhBMP-2 Enhances its Role as a Bone Graft Substitute. Clinical Orthopaedics and Related Research, 2013, 471, 2540-2547.	1.5	14
32	Role of amniotic fluid mesenchymal cells engineered on MgHA/collagen-based scaffold allotransplanted on an experimental animal study of sinus augmentation. Clinical Oral Investigations, 2013, 17, 1661-1675.	3.0	28
33	Autologous bone marrow derived mononuclear cells combined with β-tricalcium phosphate and absorbable atelocollagen for a treatment of aneurysmal bone cyst of the humerus in child. Journal of Biomaterials Applications, 2013, 28, 343-353.	2.4	10
34	Calcium phosphate-based cements: clinical needs and recent progress. Journal of Materials Chemistry B, 2013, 1, 1081-1089.	5.8	97
35	Hollow hydroxyapatite microspheres: A novel bioactive and osteoconductive carrier for controlled release of bone morphogenetic protein-2 in bone regeneration. Acta Biomaterialia, 2013, 9, 8374-8383.	8.3	94
36	In vivo biocompatibility evaluation of electrospun composite scaffolds by subcutaneous implantation in rat. Drug Delivery and Translational Research, 2013, 3, 504-517.	5.8	12

#	Article	IF	CITATIONS
37	A Novel Approach for Bone Scaffold from Oil Palm Empty Fruit Bunch-Cellulose Phosphate / Glass Material. Advanced Materials Research, 2013, 748, 180-183.	0.3	1
38	Changes in Bone Regeneration by Trehalose Coating and Basic Fibroblast Growth Factor after Implantation of Tailor-Made Bone Implants in Dogs. Journal of Veterinary Medical Science, 2013, 75, 721-726.	0.9	2
39	Recent Developments of Functional Scaffolds for Craniomaxillofacial Bone Tissue Engineering Applications. Scientific World Journal, The, 2013, 2013, 1-21.	2.1	76
40	Bone-Forming Capabilities of a Newly Developed NanoHA Composite Alloplast Infused with Collagen: A Pilot Study in the Sheep Mandible. International Journal of Dentistry, 2013, 2013, 1-7.	1.5	6
41	Analyzing the behavior of a porous nano-hydroxyapatite/polyamide 66 (n-HA/PA66) composite for healing of bone defects. International Journal of Nanomedicine, 2014, 9, 485.	6.7	75
42	Antibacterial property expressed by a novel calcium phosphate glass. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2014, 102, 423-429.	3.4	16
43	Comparison of the Osteogenic Potential of OsteoSelect Demineralized Bone Matrix Putty to NovaBone Calcium-Phosphosilicate Synthetic Putty in a Cranial Defect Model. Journal of Craniofacial Surgery, 2014, 25, 657-661.	0.7	24
44	Stem cell engineered bone with calcium-phosphate coated porous titanium scaffold or silicon hydroxyapatite granules for revision total joint arthroplasty. Journal of Materials Science: Materials in Medicine, 2014, 25, 1553-1562.	3.6	14
45	Tri-calcium phosphate (ß-TCP) can be artificially synthesized by recycling dihydrate gypsum hardened. Dental Materials Journal, 2014, 33, 845-851.	1.8	5
46	Novel nanocomposite biomaterial to differentiate bone marrow mesenchymal stem cells to the osteogenic lineage for boneÂrestoration. Journal of Orthopaedic Translation, 2015, 3, 105-113.	3.9	5
47	A Bone Sample Containing a Bone Graft Substitute Analyzed by Correlating Density Information Obtained by X-ray Micro Tomography with Compositional Information Obtained by Raman Microscopy. Materials, 2015, 8, 3831-3853.	2.9	3
48	Study of bone-like hydroxyapatite/polyamino acid composite materials for their biological properties and effects on the reconstruction of long bone defects. Drug Design, Development and Therapy, 2015, 9, 6497.	4.3	17
49	Histological Comparison in Rats between Carbonate Apatite Fabricated from Gypsum and Sintered Hydroxyapatite on Bone Remodeling. BioMed Research International, 2015, 2015, 1-7.	1.9	37
50	Geometry sensing through POR1 regulates Rac1 activity controlling early osteoblast differentiation in response to nanofiber diameter. Integrative Biology (United Kingdom), 2015, 7, 229-236.	1.3	22
51	Lithiumâ€endâ€eapped polylactide thin films influence osteoblast progenitor cell differentiation and mineralization. Journal of Biomedical Materials Research - Part A, 2015, 103, 500-510.	4.0	4
52	Autologously Generated Tissue-Engineered Bone Flaps for Reconstruction of Large Mandibular Defects in an Ovine Model. Tissue Engineering - Part A, 2015, 21, 1520-1528.	3.1	33
53	BMP2-loaded hollow hydroxyapatite microspheres exhibit enhanced osteoinduction and osteogenicity in large bone defects. International Journal of Nanomedicine, 2015, 10, 517.	6.7	41
54	Evaluation of the Osteoinductive Capacity of Polydopamine-Coated Poly(ε-caprolactone) Diacrylate Shape Memory Foams. ACS Biomaterials Science and Engineering, 2015, 1, 1220-1230.	5.2	44

		CITATION REPORT		
#	Article		IF	CITATIONS
55	Bone Tissue Engineering with Multilayered Scaffolds—Part I: An Approach for Vascula Engineered Constructs <i>In Vivo</i> . Tissue Engineering - Part A, 2015, 21, 2480-2494	rizing ł.	3.1	31
56	Antibiotic-Loaded Synthetic Calcium Sulfate Beads for Prevention of Bacterial Coloniza Biofilm Formation in Periprosthetic Infections. Antimicrobial Agents and Chemotherapy 111-120.	tion and , 2015, 59,	3.2	183
57	Drug release from calcium sulfate-based composites. , 2015, 103, 135-142.			22
58	Within Patient Radiological Comparative Analysis of the Performance of Two Bone Graf Utilized in Posterolateral Lumbar Fusion: A Retrospective Case Series. Frontiers in Surge	t Extenders pry, 2015, 2, 69.	1.4	2
59	Mesenchymal stem cell implantation in atrophic nonunion of the long bones. Bone and 2016, 5, 287-293.	Joint Research,	3.6	44
60	Three dimensional printed macroporous polylactic acid/hydroxyapatite composite scaff promoting bone formation in a critical-size rat calvarial defect model. Science and Tech Advanced Materials, 2016, 17, 136-148.	olds for nology of	6.1	153
61	The role of bone void fillers in medial opening wedge high tibial osteotomy: a systemati Surgery, Sports Traumatology, Arthroscopy, 2016, 24, 3584-3598.	c review. Knee	4.2	75
62	Micropore-induced capillarity enhances bone distribution in vivo in biphasic calcium pho scaffolds. Acta Biomaterialia, 2016, 44, 144-154.	bsphate	8.3	80
63	The usability of ark clam shell (Anadara granosa) as calcium precursor to produce hydro nanoparticle via wet chemical precipitate method in various sintering temperature. Spr 5, 1206.	ixyapatite IngerPlus, 2016,	1.2	46
64	Treatment of critically sized femoral defects with recombinant BMP-2 delivered by a mo mPEG-PLGA biodegradable thermosensitive hydrogel. BMC Musculoskeletal Disorders, 2	dified 2016, 17, 286.	1.9	33
65	Unmet needs and current and future approaches for osteoporotic patients at high risk fracture. Archives of Osteoporosis, 2016, 11, 37.	of hip	2.4	50
66	A Review of the Clinical Side Effects of Bone Morphogenetic Protein-2. Tissue Engineeri Reviews, 2016, 22, 284-297.	ng - Part B:	4.8	741
67	Micro-computed tomography analysis of early stage bone healing using micro-porous t for guided bone regeneration: preliminary experiment in a canine model. Odontology / the Nippon Dental University, 2017, 105, 408-417.	tanium mesh the Society of	1.9	16
68	Evaluation of carbonate apatite blocks fabricated from dicalcium phosphate dihydrate l reconstruction of rabbit femoral and tibial defects. Journal of Materials Science: Materia Medicine, 2017, 28, 85.	blocks for als in	3.6	37
69	Application of materials as medical devices with localized drug delivery capabilities for e wound repair. Progress in Materials Science, 2017, 89, 392-410.	Inhanced	32.8	83
70	Natural graft tissues and synthetic biomaterials for periodontal and alveolar bone recor applications: a review. Biomaterials Research, 2017, 21, 9.	Istructive	6.9	246
71	Microbial resistance related to antibiotic-loaded bone cement: a historical review. Knee Sports Traumatology, Arthroscopy, 2017, 25, 3808-3817.	Surgery,	4.2	22
72	Ceramic Biocomposites as Biodegradable Antibiotic Carriers in the Treatment of Bone I Journal of Bone and Joint Infection, 2017, 2, 38-51.	nfections.	1.5	112

#	Article	IF	Citations
73	The Effect of Reduced Graphene Oxide-Coated Biphasic Calcium Phosphate Bone Graft Material on Osteogenesis. International Journal of Molecular Sciences, 2017, 18, 1725.	4.1	42
74	Fabrication of Carbonate Apatite Block through a Dissolution–Precipitation Reaction Using Calcium Hydrogen Phosphate Dihydrate Block as a Precursor. Materials, 2017, 10, 374.	2.9	32
75	Chenopodium ambrosioides as a bone graft substitute in rabbits radius fracture. BMC Complementary and Alternative Medicine, 2017, 17, 350.	3.7	10
76	A novel technique to ensure accurate placement of synthetic bone graft. Annals of the Royal College of Surgeons of England, 2017, 99, 363-363.	0.6	0
77	The role of orthobiologics in foot and ankle surgery. EFORT Open Reviews, 2017, 2, 272-280.	4.1	25
78	Angulating-Distraction Ulnar Osteotomy and Interpositional Phosphocalcic Ceramic Wedge Graft for a Chronic Monteggia Lesion. The Open Orthopaedics Journal, 2017, 11, 263-267.	0.2	1
79	The biocompatibility of bone cements: progress in methodological approach. European Journal of Histochemistry, 2017, 61, 2673.	1.5	10
80	Effects of PCL, PEG and PLGA polymers on curcumin release from calcium phosphate matrix for inÂvitro and inÂvivo bone regeneration. Materials Today Chemistry, 2018, 8, 110-120.	3.5	90
81	Current Trends in the Management of Ballistic Fractures of the Hand and Wrist: Experiences of a High-Volume Level I Trauma Center. Hand, 2018, 13, 176-180.	1.2	15
82	Three dimensionally printed bioactive ceramic scaffold osseoconduction across critical-sized mandibular defects. Journal of Surgical Research, 2018, 223, 115-122.	1.6	67
83	Biomechanical Analysis Using FEA and Experiments of Metal Plate and Bone Strut Repair of a Femur Midshaft Segmental Defect. BioMed Research International, 2018, 2018, 1-11.	1.9	27
84	Regenerative Models for the Integration and Regeneration of Head Skeletal Tissues. International Journal of Molecular Sciences, 2018, 19, 3752.	4.1	8
85	Novel osteoconductive β-tricalcium phosphate/poly(L-lactide-co-e-caprolactone) scaffold for bone regeneration: a study in a rabbit calvarial defect. Journal of Materials Science: Materials in Medicine, 2018, 29, 156.	3.6	11
86	Feasibility of a Three-Dimensional Porous Uncalcined and Unsintered Hydroxyapatite/poly-d/l-lactide Composite as a Regenerative Biomaterial in Maxillofacial Surgery. Materials, 2018, 11, 2047.	2.9	13
87	Physical and Histological Comparison of Hydroxyapatite, Carbonate Apatite, and β-Tricalcium Phosphate Bone Substitutes. Materials, 2018, 11, 1993.	2.9	84
88	Synthetic and Marine-Derived Porous Scaffolds for Bone Tissue Engineering. Materials, 2018, 11, 1702.	2.9	55
89	In vivo Implantation of a Bovine-Derived Collagen Membrane Leads to Changes in the Physiological Cellular Pattern of Wound Healing by the Induction of Multinucleated Giant Cells: An Adverse Reaction?. Frontiers in Bioengineering and Biotechnology, 2018, 6, 104.	4.1	37
90	The role of 3D printing in treating craniomaxillofacial congenital anomalies. Birth Defects Research, 2018, 110, 1055-1064.	1.5	40

#	Article	IF	CITATIONS
91	Calcium silicate as a graft material for bone fractures: a systematic review. Journal of International Medical Research, 2018, 46, 2537-2548.	1.0	33
92	Antibody-Mediated Osseous Regeneration for Bone Tissue Engineering in Canine Segmental Defects. BioMed Research International, 2018, 2018, 1-10.	1.9	9
93	Effect of age on biomaterial-mediated in situ bone tissue regeneration. Acta Biomaterialia, 2018, 78, 329-340.	8.3	30
94	Compositional and histological comparison of carbonate apatite fabricated by dissolution–precipitation reaction and Bio-Oss®. Journal of Materials Science: Materials in Medicine, 2018, 29, 121.	3.6	36
95	Form and functional repair of long bone using 3Dâ€printed bioactive scaffolds. Journal of Tissue Engineering and Regenerative Medicine, 2018, 12, 1986-1999.	2.7	49
96	Bioactive Glasses: From Parent 45S5 Composition to Scaffold-Assisted Tissue-Healing Therapies. Journal of Functional Biomaterials, 2018, 9, 24.	4.4	202
97	3D Powder Printed Bioglass and $\hat{I}^2$ -Tricalcium Phosphate Bone Scaffolds. Materials, 2018, 11, 13.	2.9	71
98	Carbonate Apatite Containing Statin Enhances Bone Formation in Healing Incisal Extraction Sockets in Rats. Materials, 2018, 11, 1201.	2.9	10
99	Mesenchymal stem cells and porous β-tricalcium phosphate composites prepared through stem cell screen-enrich-combine(â^'biomaterials) circulating system for the repair of critical size bone defects in goat tibia. Stem Cell Research and Therapy, 2018, 9, 157.	5.5	28
100	RNA interfering molecule delivery from in situ forming biodegradable hydrogels for enhancement of bone formation in rat calvarial bone defects. Acta Biomaterialia, 2018, 75, 105-114.	8.3	81
101	Osteoconductive potential of a hydroxyapatite fiber material with magnesium: <i>In vitro</i> and <i>in vivo</i> studies. Dental Materials Journal, 2019, 38, 771-778.	1.8	10
102	Inversely 3D-Printed Î <sup>2</sup> -TCP Scaffolds for Bone Replacement. Materials, 2019, 12, 3417.	2.9	18
103	Applications of Carbon Nanotubes in Bone Tissue Regeneration and Engineering: Superiority, Concerns, Current Advancements, and Prospects. Nanomaterials, 2019, 9, 1501.	4.1	119
104	Synthetic Blocks for Bone Regeneration: A Systematic Review and Meta-Analysis. International Journal of Molecular Sciences, 2019, 20, 4221.	4.1	32
105	Biological Properties of Calcium Phosphate Bioactive Glass Composite Bone Substitutes: Current Experimental Evidence. International Journal of Molecular Sciences, 2019, 20, 305.	4.1	60
106	Complications and Risk Factors Using Structural Allograft Versus Synthetic Cage: Analysis 17 783 Anterior Cervical Discectomy and Fusions Using a National Registry. Global Spine Journal, 2019, 9, 388-392.	2.3	12
107	Robocasting of Bioactive SiO <sub>2</sub> -P <sub>2</sub> O <sub>5</sub> -CaO-MgO-Na <sub>2</sub> O-K <sub>2</sub> O Glass Scaffolds. Journal of Healthcare Engineering, 2019, 2019, 1-12.	1.9	32
108	Histomorphometric evaluation of a nano-sized eggshell-containing supplement as a natural alloplast: An animal study. Saudi Dental Journal, 2019, 31, 375-381.	1.6	11

#	Article	IF	CITATIONS
109	The Addition of High Doses of Hyaluronic Acid to a Biphasic Bone Substitute Decreases the Proinflammatory Tissue Response. International Journal of Molecular Sciences, 2019, 20, 1969.	4.1	28
110	Recent advances in 3D printing: vascular network for tissue and organ regeneration. Translational Research, 2019, 211, 46-63.	5.0	92
111	The mechanism research of non-Smad dependent TAK1 signaling pathway in the treatment of bone defects by recombination BMP-2-loaded hollow hydroxyapatite microspheres/chitosan composite. Journal of Materials Science: Materials in Medicine, 2019, 30, 130.	3.6	2
112	Fabrication and Histological Evaluation of Porous Carbonate Apatite Block from Gypsum Block Containing Spherical Phenol Resin as a Porogen. Materials, 2019, 12, 3997.	2.9	6
113	Dipyridamole Augments Three-Dimensionally Printed Bioactive Ceramic Scaffolds to Regenerate Craniofacial Bone. Plastic and Reconstructive Surgery, 2019, 143, 1408-1419.	1.4	22
114	Biomaterials, Current Strategies, and Novel Nano-Technological Approaches for Periodontal Regeneration. Journal of Functional Biomaterials, 2019, 10, 3.	4.4	114
115	Imaging of nano-hydroxyapatite/chitosan scaffolds using a cone beam computed tomography device on rat calvarial defects with histological verification. Clinical Oral Investigations, 2020, 24, 437-446.	3.0	6
116	Physical/Chemical Properties and Resorption Behavior of a Newly Developed Ca/P/S-Based Bone Substitute Material. Materials, 2020, 13, 3458.	2.9	7
117	A tailored polylactic acid/polycaprolactone biodegradable and bioactive 3D porous scaffold containing gelatin nanofibers and Taurine for bone regeneration. Scientific Reports, 2020, 10, 13366.	3.3	67
118	A Facile Synthesis Process and Evaluations of α-Calcium Sulfate Hemihydrate for Bone Substitute. Materials, 2020, 13, 3099.	2.9	9
119	Osteoporotic Goat Spine Implantation Study Using a Synthetic, Resorbable Ca/P/S-Based Bone Substitute. Frontiers in Bioengineering and Biotechnology, 2020, 8, 876.	4.1	4
120	Three-Dimensional Printing for Craniofacial Bone Tissue Engineering. Tissue Engineering - Part A, 2020, 26, 1303-1311.	3.1	28
121	Utilisation of calcium sulphate beads in one-stage aseptic revision total hip arthroplasty. HIP International, 2020, , 112070002097397.	1.7	0
122	In-situ analysis of the hydration ability of bone graft material using a synchrotron radiation X-ray micro-CT. Journal of Applied Biomaterials and Functional Materials, 2020, 18, 228080002096347.	1.6	4
123	Direct incorporation of mesenchymal stem cells into a Nanofiber scaffold – in vitro and in vivo analysis. Scientific Reports, 2020, 10, 9557.	3.3	9
124	Teriparatide (recombinant parathyroid hormone 1–34) enhances bone allograft integration in a clinically relevant pig model of segmental mandibulectomy. Journal of Tissue Engineering and Regenerative Medicine, 2020, 14, 1037-1049.	2.7	4
125	The Impact of Bioceramic Scaffolds on Bone Regeneration in Preclinical In Vivo Studies: A Systematic Review. Materials, 2020, 13, 1500.	2.9	27
126	Novel injectable and self-setting composite materials for bone defect repair. Science China Materials, 2020, 63, 876-887.	6.3	11

#	Article	IF	CITATIONS
127	Neutralized Dicalcium Phosphate and Hydroxyapatite Biphasic Bioceramics Promote Bone Regeneration in Critical Peri-Implant Bone Defects. Materials, 2020, 13, 823.	2.9	9
128	Osseous Healing in Surgically Prepared Bone Defects Using Different Grafting Materials: An Experimental Study in Pigs. Dentistry Journal, 2020, 8, 7.	2.3	6
129	Comparison between Bioactive Sol-Gel and Melt-Derived Glasses/Glass-Ceramics Based on the Multicomponent SiO2–P2O5–CaO–MgO–Na2O–K2O System. Materials, 2020, 13, 540.	2.9	57
130	Fibrin sealants in lumbar annuloplasty after endoscopic discectomy as a method to prevent recurrent lumbar disc herniation. European Journal of Translational Myology, 2020, 30, 8748.	1.7	3
131	Nanostructured Materials for Artificial Tissue Replacements. International Journal of Molecular Sciences, 2020, 21, 2521.	4.1	28
132	Comparison between allogenic and xenogenic bone blocks on the osteogenic potential of cultured human periodontal ligament stem cells: Confocal laser and scanning electron microscopy study. International Journal of Applied & Basic Medical Research, 2021, 11, 75.	0.5	2
133	In-Vivo Degradation Behavior and Osseointegration of 3D Powder-Printed Calcium Magnesium Phosphate Cement Scaffolds. Materials, 2021, 14, 946.	2.9	14
134	Alloplastic Bone Substitutes for Periodontal and Bone Regeneration in Dentistry: Current Status and Prospects. Materials, 2021, 14, 1096.	2.9	52
135	The State of the Art and Prospects for Osteoimmunomodulatory Biomaterials. Materials, 2021, 14, 1357.	2.9	18
136	Bioactive Siloxane-Containing Shape-Memory Polymer (SMP) Scaffolds with Tunable Degradation Rates. ACS Biomaterials Science and Engineering, 2021, 7, 1631-1639.	5.2	14
137	Silk fibroin and ceramic scaffolds: Comparative in vitro studies for bone regeneration. Bioengineering and Translational Medicine, 2021, 6, e10221.	7.1	13
138	Synthetic Bone Graft Materials in Spine Fusion: Current Evidence and Future Trends. International Journal of Spine Surgery, 2021, 15, 104-112.	1.5	12
139	Inverse 3D Printing with Variations of the Strand Width of the Resulting Scaffolds for Bone Replacement. Materials, 2021, 14, 1964.	2.9	8
140	Bioresorbable Magnesium-Based Alloys as Novel Biomaterials in Oral Bone Regeneration: General Review and Clinical Perspectives. Journal of Clinical Medicine, 2021, 10, 1842.	2.4	31
141	Bone Grafts and Substitutes in Dentistry: A Review of Current Trends and Developments. Molecules, 2021, 26, 3007.	3.8	231
142	In Vivo Analysis of the Biocompatibility and Bone Healing Capacity of a Novel Bone Grafting Material Combined with Hyaluronic Acid. International Journal of Molecular Sciences, 2021, 22, 4818.	4.1	17
143	Polymer-Based Honeycomb Films on Bioactive Glass: Toward a Biphasic Material for Bone Tissue Engineering Applications. ACS Applied Materials & Interfaces, 2021, 13, 29984-29995.	8.0	10
144	A novel hydroxyapatite fiber material for the regeneration of critical-sized rabbit calvaria defects. Dental Materials Journal, 2021, 40, 964-971.	1.8	2

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145	Bilayer Membrane Composed of Mineralized Collagen and Chitosan Cast Film Coated With Berberine-Loaded PCL/PVP Electrospun Nanofiber Promotes Bone Regeneration. Frontiers in Bioengineering and Biotechnology, 2021, 9, 684335.	4.1	18
146	The protective role of curcumin against toxic effect of nonylphenol on bone development. Human and Experimental Toxicology, 2021, 40, S63-S76.	2.2	2
147	Fabrication techniques involved in developing the composite scaffolds PCL/HA nanoparticles for bone tissue engineering applications. Journal of Materials Science: Materials in Medicine, 2021, 32, 93.	3.6	40
148	Integration of Umbilical Cord Mesenchymal Stem Cell Application in Hydroxyapatite-Based Scaffolds in the Treatment of Vertebral Bone Defect due to Spondylitis Tuberculosis: A Translational Study. Stem Cells International, 2021, 2021, 1-14.	2.5	2
149	Bone Fracture-Treatment Method: Fixing 3D-Printed Polycaprolactone Scaffolds with Hydrogel Type Bone-Derived Extracellular Matrix and Î <sup>2</sup> -Tricalcium Phosphate as an Osteogenic Promoter. International Journal of Molecular Sciences, 2021, 22, 9084.	4.1	15
150	Bone Grafts in Trauma and Orthopaedics. Cureus, 2021, 13, e17705.	0.5	9
151	FDA-approved bone grafts and bone graft substitute devices in bone regeneration. Materials Science and Engineering C, 2021, 130, 112466.	7.3	134
152	Surface-treated 3D printed Ti-6Al-4V scaffolds with enhanced bone regeneration performance: an in vivo study. Annals of Translational Medicine, 2021, 9, 39-39.	1.7	15
153	Biological Roles and Delivery Strategies for Ions to Promote Osteogenic Induction. Frontiers in Cell and Developmental Biology, 2020, 8, 614545.	3.7	39
154	Comparison of the effect of hemihydrate calcium sulfate granules and Cerabone on dental socket preservation: An animal experiment. Journal of Dental Research, Dental Clinics, Dental Prospects, 2018, 12, 238-244.	1.0	7
155	The comparative effectiveness of demineralized bone matrix, beta-tricalcium phosphate, and bovine-derived anorganic bone matrix on inflammation and bone formation using a paired calvarial defect model in rats. Clinical, Cosmetic and Investigational Dentistry, 2011, 3, 69.	1.6	9
156	Effect of Medical Polymer Filling on Tensile Properties of Biomedical Porous Pure Titanium. Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2008, 55, 312-317.	0.2	6
157	Electrospun PCL/PLA Scaffolds Are More Suitable Carriers of Placental Mesenchymal Stromal Cells Than Collagen/Elastin Scaffolds and Prevent Wound Contraction in a Mouse Model of Wound Healing. Frontiers in Bioengineering and Biotechnology, 2020, 8, 604123.	4.1	18
158	Additive Manufacturing of β-Tricalcium Phosphate Components via Fused Deposition of Ceramics (FDC). Materials, 2021, 14, 156.	2.9	13
159	Induction of multinucleated giant cells in response to small sized bovine bone substitute (Bio-Oss) Tj ETQq0 0 0 Maxillofacial Surgery, 2014, 4, 150.	rgBT /Over 0.7	lock 10 Tf 50 61
160	Biomimetic ceramics for periodontal regeneration in infrabony defects: A systematic review. Journal of International Society of Preventive and Community Dentistry, 2014, 4, 78.	1.0	7
161	Application of low-crystalline carbonate apatite granules in 2-stage sinus floor augmentation: a prospective clinical trial and histomorphometric evaluation. Journal of Periodontal and Implant Science, 2019, 49, 382.	2.0	30
162	A New Design of Porosity Gradient Ti-6Al-4V Encapsulated Hydroxyapatite Dual Materials Composite Scaffold for Bone Defects. Micromachines, 2021, 12, 1294.	2.9	3

#	Article	IF	CITATIONS
163	Transforming the Degradation Rate of β-tricalcium Phosphate Bone Replacement Using 3-Dimensional Printing. Annals of Plastic Surgery, 2021, 87, e153-e162.	0.9	12
164	Fabrication of 3D Printed Poly(lactic acid)/Polycaprolactone Scaffolds Using TGF-β1 for Promoting Bone Regeneration. Polymers, 2021, 13, 3731.	4.5	20
166	Physical Gold Nanoparticle-Decorated Polyethylene Glycol-Hydroxyapatite Composites Guide Osteogenesis and Angiogenesis of Mesenchymal Stem Cells. Biomedicines, 2021, 9, 1632.	3.2	9
167	Use of an osteoconductive compound as an aid in the management of a maxillary fracture in a boa constrictor. Canadian Veterinary Journal, 2011, 52, 300-2.	0.0	3
168	An overview on autologous fibrin glue in bone tissue engineering of maxillofacial surgery. Dental Research Journal, 2017, 14, 79-86.	0.6	24
169	Tissue Engineering in Maxillary Bone Defects. World Journal of Plastic Surgery, 2018, 7, 3-11.	0.6	16
170	Various Dosages of BMP-2 for Management of Massive Bone Defect in Sprague Dawley Rat. Archives of Bone and Joint Surgery, 2019, 7, 498-505.	0.2	7
172	Transformation from calcium sulfate to calcium phosphate in biological environment. Journal of Materials Science: Materials in Medicine, 2021, 32, 146.	3.6	2
174	Tissue Engineering Strategies for Craniomaxillofacial Surgery: Current Trends in 3D-Printed Bioactive Ceramic Scaffolds. Springer Series in Biomaterials Science and Engineering, 2022, , 55-74.	1.0	2
176	Exosome-functionalized magnesium-organic framework-based scaffolds with osteogenic, angiogenic and anti-inflammatory properties for accelerated bone regeneration. Bioactive Materials, 2022, 18, 26-41.	15.6	66
177	Top 50 Cited Bone Graft Orthopedic Papers. Cureus, 2022, 14, e23419.	0.5	1
178	Bio-piezoelectricity: fundamentals and applications in tissue engineering and regenerative medicine. Biophysical Reviews, 2022, 14, 717-733.	3.2	24
179	Materiais Sintéticos e Impressão 3D na Regeneração Óssea Alveolar. Archives of Health Investigation, 2022, 11, 304-317.	0.1	0
180	High Capability of the Buffering Agent in Providing Constant pH to Improve the Behaviour of Synthesized HA/b-TCP Ceramic. Glass and Ceramics (English Translation of Steklo I Keramika), 2022, 79, 239-245.	0.6	Ο