

Synthetic bone graft substitutes

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Fabrication of Hydroxyapatite Block from Gypsum Block Based on (NH ₄) ₂ HPO ₄ Treatment. Dental Materials Journal, 2005, 24, 515-521.	0.8	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.	1.2	34
3	A comparison of different nanostructured biomaterials in subcutaneous tissue. Journal of Materials Science: Materials in Medicine, 2008, 19, 2629-2636.	1.7	21
4	Comparison of in vitro and in vivo Bioactivity of SrOâ€”CaOâ€”ZnOâ€”SiO ₂ Glass Grafts. Journal of Biomaterials Applications, 2009, 23, 561-572.	1.2	23
5	Global burden of trauma: Need for effective fracture therapies. Indian Journal of Orthopaedics, 2009, 43, 111.	0.5	24
6	Use of platelet-rich plasma in periodontal surgeryâ€”a prospective randomised double blind clinical trial. Clinical Oral Investigations, 2009, 13, 179-187.	1.4	44
7	Bone graft substitutes in anterior cervical discectomy and fusion. European Spine Journal, 2009, 18, 449-464.	1.0	122
8	Preliminary investigation of novel bone graft substitutes based on strontiumâ€”calciumâ€”zincâ€”silicate glasses. Journal of Materials Science: Materials in Medicine, 2009, 20, 413-420.	1.7	57
9	The effect of composition on ion release from Caâ€”Srâ€”Naâ€”Znâ€”Si glass bone grafts. Journal of Materials Science: Materials in Medicine, 2009, 20, 2207-2214.	1.7	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.	0.5	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.	0.8	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.	0.6	0
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15	A review of nanoparticle functionality and toxicity on the central nervous system. Journal of the Royal Society Interface, 2010, 7, S411-22.	1.5	202
16	Biomaterial Design Strategies for the Treatment of Spinal Cord Injuries. Journal of Neurotrauma, 2010, 27, 1-19.	1.7	319
17	Biomedical applications of nanostructured porous silicon: a review. Journal of Nanophotonics, 2010, 4, 042502.	0.4	69
18	Bio-inspired calcium silicateâ€”gelatin bone grafts for load-bearing applications. Journal of Materials Chemistry, 2011, 21, 12793.	6.7	22

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19	Scaffolds with a standardized macro-architecture fabricated from several calcium phosphate ceramics using an indirect rapid prototyping technique. <i>Journal of Materials Science: Materials in Medicine</i> , 2011, 22, 97-105.	1.7	42
20	Influence of microstructure and chemical composition of sputter deposited TiO ₂ thin films on in vitro bioactivity. <i>Journal of Materials Science: Materials in Medicine</i> , 2011, 22, 2727-2734.	1.7	20
21	Recombinant human bone morphogenetic protein-2 (rhBMP-2) in the treatment of mandibular sequelae after tumor resection. <i>Oral and Maxillofacial Surgery</i> , 2011, 15, 169-174.	0.6	18
22	Adipose-Derived Stem Cells in Functional Bone Tissue Engineering: Lessons from Bone Mechanobiology. <i>Tissue Engineering - Part B: Reviews</i> , 2011, 17, 195-211.	2.5	61
23	The role of perfusion bioreactors in bone tissue engineering. <i>Biomatter</i> , 2012, 2, 167-175.	2.6	125
24	Biomaterials for periodontal regeneration. <i>Biomatter</i> , 2012, 2, 271-277.	2.6	128
25	Conditioned Media from Mesenchymal Stem Cells Enhanced Bone Regeneration in Rat Calvarial Bone Defects. <i>Tissue Engineering - Part A</i> , 2012, 18, 1479-1489.	1.6	304
26	Xenograft Enriched with Autologous Bone Marrow in Inlay Reconstructions: A Tomographic and Histomorphometric Study in Rabbit Calvaria. <i>International Journal of Biomaterials</i> , 2012, 2012, 1-7.	1.1	11
27	Preparation of Sr-containing carbonate apatite as a bone substitute and its properties. <i>Dental Materials Journal</i> , 2012, 31, 197-205.	0.8	6
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30	Polycaprolactone scaffold as targeted drug delivery system and cell attachment scaffold for postsurgical care of limb salvage. <i>Drug Delivery and Translational Research</i> , 2012, 2, 272-283.	3.0	39
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32	Role of amniotic fluid mesenchymal cells engineered on MgHA/collagen-based scaffold allotransplanted on an experimental animal study of sinus augmentation. <i>Clinical Oral Investigations</i> , 2013, 17, 1661-1675.	1.4	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. <i>Journal of Biomaterials Applications</i> , 2013, 28, 343-353.	1.2	10
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35	Hollow hydroxyapatite microspheres: A novel bioactive and osteoconductive carrier for controlled release of bone morphogenetic protein-2 in bone regeneration. <i>Acta Biomaterialia</i> , 2013, 9, 8374-8383.	4.1	94
36	In vivo biocompatibility evaluation of electrospun composite scaffolds by subcutaneous implantation in rat. <i>Drug Delivery and Translational Research</i> , 2013, 3, 504-517.	3.0	12

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38	Changes in Bone Regeneration by Trehalose Coating and Basic Fibroblast Growth Factor after Implantation of Tailor-Made Bone Implants in Dogs. <i>Journal of Veterinary Medical Science</i> , 2013, 75, 721-726.	0.3	2
39	Recent Developments of Functional Scaffolds for Craniomaxillofacial Bone Tissue Engineering Applications. <i>Scientific World Journal</i> , The, 2013, 2013, 1-21.	0.8	76
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43	Comparison of the Osteogenic Potential of OsteoSelect Demineralized Bone Matrix Putty to NovaBone Calcium-Phosphosilicate Synthetic Putty in a Cranial Defect Model. <i>Journal of Craniofacial Surgery</i> , 2014, 25, 657-661.	0.3	24
44	Stem cell engineered bone with calcium-phosphate coated porous titanium scaffold or silicon hydroxyapatite granules for revision total joint arthroplasty. <i>Journal of Materials Science: Materials in Medicine</i> , 2014, 25, 1553-1562.	1.7	14
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48	Study of bone-like hydroxyapatite/polyamino acid composite materials for their biological properties and effects on the reconstruction of long bone defects. <i>Drug Design, Development and Therapy</i> , 2015, 9, 6497.	2.0	17
49	Histological Comparison in Rats between Carbonate Apatite Fabricated from Gypsum and Sintered Hydroxyapatite on Bone Remodeling. <i>BioMed Research International</i> , 2015, 2015, 1-7.	0.9	37
50	Geometry sensing through POR1 regulates Rac1 activity controlling early osteoblast differentiation in response to nanofiber diameter. <i>Integrative Biology (United Kingdom)</i> , 2015, 7, 229-236.	0.6	22
51	LithiumÅendÅcapped polylactide thin films influence osteoblast progenitor cell differentiation and mineralization. <i>Journal of Biomedical Materials Research - Part A</i> , 2015, 103, 500-510.	2.1	4
52	Autologously Generated Tissue-Engineered Bone Flaps for Reconstruction of Large Mandibular Defects in an Ovine Model. <i>Tissue Engineering - Part A</i> , 2015, 21, 1520-1528.	1.6	33
53	BMP2-loaded hollow hydroxyapatite microspheres exhibit enhanced osteoinduction and osteogenicity in large bone defects. <i>International Journal of Nanomedicine</i> , 2015, 10, 517.	3.3	41
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56	Antibiotic-Loaded Synthetic Calcium Sulfate Beads for Prevention of Bacterial Colonization and Biofilm Formation in Periprosthetic Infections. <i>Antimicrobial Agents and Chemotherapy</i> , 2015, 59, 111-120.	1.4	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 Graft Extenders Utilized in Posterolateral Lumbar Fusion: A Retrospective Case Series. <i>Frontiers in Surgery</i> , 2015, 2, 69.	0.6	2
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60	Three dimensional printed macroporous polylactic acid/hydroxyapatite composite scaffolds for promoting bone formation in a critical-size rat calvarial defect model. <i>Science and Technology of Advanced Materials</i> , 2016, 17, 136-148.	2.8	153
61	The role of bone void fillers in medial opening wedge high tibial osteotomy: a systematic review. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2016, 24, 3584-3598.	2.3	75
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64	Treatment of critically sized femoral defects with recombinant BMP-2 delivered by a modified mPEG-PLGA biodegradable thermosensitive hydrogel. <i>BMC Musculoskeletal Disorders</i> , 2016, 17, 286.	0.8	33
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66	A Review of the Clinical Side Effects of Bone Morphogenetic Protein-2. <i>Tissue Engineering - Part B: Reviews</i> , 2016, 22, 284-297.	2.5	741
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68	Evaluation of carbonate apatite blocks fabricated from dicalcium phosphate dihydrate blocks for reconstruction of rabbit femoral and tibial defects. <i>Journal of Materials Science: Materials in Medicine</i> , 2017, 28, 85.	1.7	37
69	Application of materials as medical devices with localized drug delivery capabilities for enhanced wound repair. <i>Progress in Materials Science</i> , 2017, 89, 392-410.	16.0	83
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71	Microbial resistance related to antibiotic-loaded bone cement: a historical review. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2017, 25, 3808-3817.	2.3	22
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77	The role of orthobiologics in foot and ankle surgery. <i>EFORT Open Reviews</i> , 2017, 2, 272-280.	1.8	25
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92	Antibody-Mediated Osseous Regeneration for Bone Tissue Engineering in Canine Segmental Defects. <i>BioMed Research International</i> , 2018, 2018, 1-10.	0.9	9
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94	Compositional and histological comparison of carbonate apatite fabricated by dissolution-precipitation reaction and Bio-Oss®. <i>Journal of Materials Science: Materials in Medicine</i> , 2018, 29, 121.	1.7	36
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96	Bioactive Glasses: From Parent 45S5 Composition to Scaffold-Assisted Tissue-Healing Therapies. <i>Journal of Functional Biomaterials</i> , 2018, 9, 24.	1.8	202
97	3D Powder Printed Bioglass and β -Tricalcium Phosphate Bone Scaffolds. <i>Materials</i> , 2018, 11, 13.	1.3	71
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101	Osteoconductive potential of a hydroxyapatite fiber material with magnesium: <i>In vitro</i> and <i>in vivo</i> studies. <i>Dental Materials Journal</i> , 2019, 38, 771-778.	0.8	10
102	Inversely 3D-Printed β -TCP Scaffolds for Bone Replacement. <i>Materials</i> , 2019, 12, 3417.	1.3	18
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105	Biological Properties of Calcium Phosphate Bioactive Glass Composite Bone Substitutes: Current Experimental Evidence. <i>International Journal of Molecular Sciences</i> , 2019, 20, 305.	1.8	60
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107	Robocasting of Bioactive $\text{SiO}_2\text{-P}_2\text{O}_5\text{-CaO-MgO-Na}_2\text{O-K}_2\text{O}$ Glass Scaffolds. <i>Journal of Healthcare Engineering</i> , 2019, 2019, 1-12.	1.1	32
108	Histomorphometric evaluation of a nano-sized eggshell-containing supplement as a natural alloplast: An animal study. <i>Saudi Dental Journal</i> , 2019, 31, 375-381.	0.5	11

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110	Recent advances in 3D printing: vascular network for tissue and organ regeneration. <i>Translational Research</i> , 2019, 211, 46-63.	2.2	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. <i>Journal of Materials Science: Materials in Medicine</i> , 2019, 30, 130.	1.7	2
112	Fabrication and Histological Evaluation of Porous Carbonate Apatite Block from Gypsum Block Containing Spherical Phenol Resin as a Porogen. <i>Materials</i> , 2019, 12, 3997.	1.3	6
113	Dipyridamole Augments Three-Dimensionally Printed Bioactive Ceramic Scaffolds to Regenerate Craniofacial Bone. <i>Plastic and Reconstructive Surgery</i> , 2019, 143, 1408-1419.	0.7	22
114	Biomaterials, Current Strategies, and Novel Nano-Technological Approaches for Periodontal Regeneration. <i>Journal of Functional Biomaterials</i> , 2019, 10, 3.	1.8	114
115	Imaging of nano-hydroxyapatite/chitosan scaffolds using a cone beam computed tomography device on rat calvarial defects with histological verification. <i>Clinical Oral Investigations</i> , 2020, 24, 437-446.	1.4	6
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117	A tailored polylactic acid/polycaprolactone biodegradable and bioactive 3D porous scaffold containing gelatin nanofibers and Taurine for bone regeneration. <i>Scientific Reports</i> , 2020, 10, 13366.	1.6	67
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120	Three-Dimensional Printing for Craniofacial Bone Tissue Engineering. <i>Tissue Engineering - Part A</i> , 2020, 26, 1303-1311.	1.6	28
121	Utilisation of calcium sulphate beads in one-stage aseptic revision total hip arthroplasty. <i>HIP International</i> , 2020, , 112070002097397.	0.9	0
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124	Teriparatide (recombinant parathyroid hormone 1 α) enhances bone allograft integration in a clinically relevant pig model of segmental mandibulectomy. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2020, 14, 1037-1049.	1.3	4
125	The Impact of Bioceramic Scaffolds on Bone Regeneration in Preclinical In Vivo Studies: A Systematic Review. <i>Materials</i> , 2020, 13, 1500.	1.3	27
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128	Osseous Healing in Surgically Prepared Bone Defects Using Different Grafting Materials: An Experimental Study in Pigs. <i>Dentistry Journal</i> , 2020, 8, 7.	0.9	6
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131	Nanostructured Materials for Artificial Tissue Replacements. <i>International Journal of Molecular Sciences</i> , 2020, 21, 2521.	1.8	28
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133	In-Vivo Degradation Behavior and Osseointegration of 3D Powder-Printed Calcium Magnesium Phosphate Cement Scaffolds. <i>Materials</i> , 2021, 14, 946.	1.3	14
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137	Silk fibroin and ceramic scaffolds: Comparative in vitro studies for bone regeneration. <i>Bioengineering and Translational Medicine</i> , 2021, 6, e10221.	3.9	13
138	Synthetic Bone Graft Materials in Spine Fusion: Current Evidence and Future Trends. <i>International Journal of Spine Surgery</i> , 2021, 15, 104-112.	0.7	12
139	Inverse 3D Printing with Variations of the Strand Width of the Resulting Scaffolds for Bone Replacement. <i>Materials</i> , 2021, 14, 1964.	1.3	8
140	Bioresorbable Magnesium-Based Alloys as Novel Biomaterials in Oral Bone Regeneration: General Review and Clinical Perspectives. <i>Journal of Clinical Medicine</i> , 2021, 10, 1842.	1.0	31
141	Bone Grafts and Substitutes in Dentistry: A Review of Current Trends and Developments. <i>Molecules</i> , 2021, 26, 3007.	1.7	231
142	In Vivo Analysis of the Biocompatibility and Bone Healing Capacity of a Novel Bone Grafting Material Combined with Hyaluronic Acid. <i>International Journal of Molecular Sciences</i> , 2021, 22, 4818.	1.8	17
143	Polymer-Based Honeycomb Films on Bioactive Glass: Toward a Biphasic Material for Bone Tissue Engineering Applications. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 29984-29995.	4.0	10
144	A novel hydroxyapatite fiber material for the regeneration of critical-sized rabbit calvaria defects. <i>Dental Materials Journal</i> , 2021, 40, 964-971.	0.8	2

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