Citation Report
List of articles citing

Fabrication of Scaffolds for Bone-Tissue Regeneration

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#	Paper	IF	Citations
308	Impact of Four Protein Additives in Cryogels on Osteogenic Differentiation of Adipose-Derived Mesenchymal Stem Cells. **2019**, 6,		8
307	In vitro bioactivity and cytocompatablity of an injectable calcium phosphate cement/silanated gelatin microsphere composite bone cement. **2019**, 175, 107146		15
306	Electrospun Polyvinylidene Fluoride-Based Fibrous Scaffolds with Piezoelectric Characteristics for Bone and Neural Tissue Engineering. **2019**, 9,		54
305	Recent advances in biomaterials for 3D scaffolds: A review. **2019**, 4, 271-292		289
304	Physical and Mechanical Properties of Composite Scaffolds with or without Collagen Impregnation. **2019**, 9, 4296		3
303	Investigating the Osteoinductive Potential of a Decellularized Xenograft Bone Substitute. **2019**, 207, 97-113		9
302	Comparative evaluation of morphology and osteogenic behavior of human Wharton's jelly mesenchymal stem cells on 2D culture plate and 3D biomimetic scaffold. **2019**, 234, 23123-23134		5
301	Effects of Gradient and Offset Architectures on the Mechanical and Biological Properties of 3-D Melt Electrowritten (MEW) Scaffolds. **2019**, 5, 3448-3461		29
300	Current Biomedical Applications of 3D Printing and Additive Manufacturing. **2019**, 9, 1713		120
299	Effect of two crosslinking methods on the physicochemical and biological properties of the collagen-chitosan scaffolds. **2019**, 117, 424-433		27
298	Strategies towards Orthopaedic Tissue Engineered Graft Generation: Current Scenario and Application. **2019**, 24, 854-869		11
297	Polysaccharide-Based Systems for Targeted Stem Cell Differentiation and Bone Regeneration. **2019**, 9,		22
296	Ionizing Radiation for Preparation and Functionalization of Membranes and Their Biomedical and Environmental Applications. **2019**, 9,		7
295	Cross-linked gelatin microsphere-based scaffolds as a delivery vehicle of MC3T3-E1 cells: in vitro and in vivo evaluation. **2020**, 108, 110399		9
294	Swelling and rheological study of calcium phosphate filled bacterial cellulose-based hydrogel scaffold. **2020**, 137, 48522		10
293	Improved vascularisation but inefficient in vivo bone regeneration of adipose stem cells and poly-3-hydroxybutyrate-co-3-hydroxyvalerate scaffolds in xeno-free conditions. **2020**, 107, 110301		5
292	Polyurethane fibrous membranes tailored by rotary jet spinning for tissue engineering applications. **2020**, 137, 48455		3

291	Role of offset and gradient architectures of 3-D melt electrowritten scaffold on differentiation and mineralization of osteoblasts. **2020**, 24, 2		21
290	Development of Optimized Strategies for Growth Factor Incorporation onto Electrospun Fibrous Scaffolds To Promote Prolonged Release. **2020**, 12, 5578-5592		25
289	Chitosan as a potential alternative to collagen for the development of genipin-crosslinked scaffolds. **2020**, 146, 104414		4
288	Applications of chitin and chitosan nanofibers in bone regenerative engineering. **2020**, 230, 115658		106
287	Enhanced osteogenesis using poly (l-lactide-co-d, l-lactide)/poly (acrylic acid) nanofibrous scaffolds in presence of dexamethasone-loaded molecularly imprinted polymer nanoparticles. **2020**, 165, 2363-2377		10
286	In vivo bone regeneration assessment of offset and gradient melt electrowritten (MEW) PCL scaffolds. **2020**, 24, 17		18
285	Development of an oxygen-releasing electroconductive in-situ crosslinkable hydrogel based on oxidized pectin and grafted gelatin for tissue engineering applications. **2020**, 196, 111347		18
284	Fabrication and characterization of silver nanorods incorporated calcium silicate scaffold using polymeric sponge replica technique. **2020**, 195, 109026		9
283	The influence of alveolar bone healing degree on its potential as a source of human alveolar bone-derived cells. **2020**, 232, 151578		1
282	3D printed Sr-containing composite scaffolds: Effect of structural design and material formulation towards new strategies for bone tissue engineering. **2020**, 191, 108069		38
281	Biomimetic Aspects of Restorative Dentistry Biomaterials. **2020**, 5,		27
280	Low magnitude high frequency vibrations expedite the osteogenesis of bone marrow stem cells on paper based 3D scaffolds. **2020**, 10, 431-441		3
279	Utility of Air Bladder-Derived Nanostructured ECM for Tissue Regeneration. **2020**, 8, 553529		0
278	Advances in Biodegradable 3D Printed Scaffolds with Carbon-Based Nanomaterials for Bone Regeneration. *Materials*, **2020**, 13,	3.5	11
277	Advanced Biomaterials and Techniques for Oral Tissue Engineering and Regeneration-A Review. *Materials*, **2020**, 13,	3.5	16
276	FDM 3D Printed Composites for Bone Tissue Engineering Based on Plasticized Poly(3-hydroxybutyrate)/poly(d,l-lactide) Blends. **2020**, 12,		2
275	Polyetheretherketone and Its Composites for Bone Replacement and Regeneration. **2020**, 12,		18
274	Hydrogel as a Biomaterial for Bone Tissue Engineering: A Review. **2020**, 10,		52

273	Human Mesenchymal Stem Cell Derived Exosomes Enhance Cell-Free Bone Regeneration by Altering Their miRNAs Profiles. **2020**, 7, 2001334		45
272	XRD and IR revelation of a unique g-C3N4 phase with effects on collagen/hydroxyapatite bone scaffold pore geometry and stiffness. **2020**, 2, 1		0
271	Effect of sintering holding time on the properties of Hydroxyapatite granules fabrication using dripping technique of HA-Alginate sintered at 1000 ℃. **2020**, 857, 012023		0
270	Biological Evaluation of Polyvinyl Alcohol Hydrogels Enriched by Hyaluronic Acid and Hydroxyapatite. **2020**, 21,		11
269	An overview of extrusion-based bioprinting with a focus on induced shear stress and its effect on cell viability. **2020**, 20, e00093		29
268	Centrifugal spun osteoconductive ultrafine fibrous mat as a scaffold for bone regeneration. **2020**, 60, 101978		2
267	Tooth-Supporting Hard Tissue Regeneration Using Biopolymeric Material Fabrication Strategies. **2020**, 25,		5
266	Current biocompatible materials in oral regeneration: a comprehensive overview of composite materials. **2020**, 9, 11731-11755		8
265	An insight into cell-laden 3D-printed constructs for bone tissue engineering. **2020**, 8, 9836-9862		10
264	Recent advances and future perspectives of sol-gel derived porous bioactive glasses: a review.. **2020**, 10, 33782-33835		40
263	Nanomaterial-based scaffolds for bone tissue engineering and regeneration. **2020**, 15, 1995-2017		15
262	A GelMA-PEGDA-nHA Composite Hydrogel for Bone Tissue Engineering. *Materials*, **2020**, 13,	3.5	13
261	Preparation and Characterization of TPP-Chitosan Crosslinked Scaffolds for Tissue Engineering. *Materials*, **2020**, 13,	3.5	21
260	PCL/HA Hybrid Microspheres for Effective Osteogenic Differentiation and Bone Regeneration. **2020**, 6, 5172-5180		12
259	Immobilization of BMP-2 and VEGF within Multilayered Polydopamine-Coated Scaffolds and the Resulting Osteogenic and Angiogenic Synergy of Co-Cultured Human Mesenchymal Stem Cells and Human Endothelial Progenitor Cells. **2020**, 21,		13
258	Manipulating Air-Gap Electrospinning to Create Aligned Polymer Nanofiber-Wrapped Glass Microfibers for Cortical Bone Tissue Engineering. **2020**, 7,		2
257	Tissue Engineering and Three-Dimensional Printing in Periodontal Regeneration: A Literature Review. **2020**, 9,		6
256	The Influence of Eggshell on Bone Regeneration in Preclinical In Vivo Studies. **2020**, 9,		4

255	Creating Three-Dimensional Tumor Models: A Guide for the Biofabrication of a Primary Osteosarcoma Model. **2021**, 27, 514-529		5
254	Bone Tissue Disorders: Healing Through Coordination Chemistry. **2020**, 26, 15416-15437		3
253	Predictive Modeling of the In Vitro Responses of Preosteoblastic MC3T3-E1 Cells on Polymeric Surfaces Using Fourier Transform Infrared Spectroscopy. **2020**, 12, 24466-24478		3
252	Ultrafast bone-like apatite formation on highly porous poly(l-lactic acid)-hydroxyapatite fibres. **2020**, 116, 111168		10
251	Fabrication and characterization of ZrO incorporated SiO-CaO-PO bioactive glass scaffolds. **2020**, 109, 103854		17
250	Bone Substitutes Scaffold in Human Bone: Comparative Evaluation by 3D Micro-CT Technique. **2020** , 10, 3451		3
249	Effects of macropore size in carbonate apatite honeycomb scaffolds on bone regeneration. **2020**, 111, 110848		28
248	The Impact of Bioceramic Scaffolds on Bone Regeneration in Preclinical Studies: A Systematic Review. *Materials*, **2020**, 13,	3.5	10
247	Material-Dependent Formation and Degradation of Bone Matrix-Comparison of Two Cryogels. **2020** , 7,		5
246	Effect of Different Concentration of Cellulose Nanocrystals Comprising Hydroxyethyl Cellulose / Poly(Vinyl Alcohol) as a Bone Tissue Engineering Scaffold. **2020**, 981, 285-290		
245	Multi-layered polydopamine coatings for the immobilization of growth factors onto highly-interconnected and bimodal PCL/HA-based scaffolds. **2020**, 117, 111245		16
244	Porous scaffolds for bone regeneration. **2020**, 5, 1-9		110
243	Dental Stem Cell-Derived Secretome/Conditioned Medium: The Future for Regenerative Therapeutic Applications. **2020**, 2020, 7593402		40
242	3D Chitin Scaffolds of Marine Demosponge Origin for Biomimetic Mollusk Hemolymph-Associated Biomineralization. **2020**, 18,		30
241	Optimization of the electrospinning process variables for gelatin/silver nanoparticles/bioactive glass nanocomposites for bone tissue engineering. **2020**, 41, 2411-2425		11
240	Effects of miR-26a on Osteogenic Differentiation of Bone Marrow Mesenchymal Stem Cells by a Mesoporous Silica Nanoparticle - PEI - Peptide System. **2020**, 15, 497-511		13
239	Calcium phosphate stability on melt electrowritten PCL scaffolds. **2020**, 5, 30-39		5
238	Processing of (Co)Poly(2-oxazoline)s by Electrospinning and Extrusion from Melt and the Postprocessing Properties of the (Co)Polymers. **2020**, 12,		8

237	Natural and Synthetic Polymers for Bone Scaffolds Optimization. **2020**, 12,	84
236	Three-Dimensional Extrusion Printing of Porous Scaffolds Using Storable Ceramic Inks. **2020**, 26, 292-305	4
235	Fabrication and characterization of Spinacia oleracea extract incorporated alginate/carboxymethyl cellulose microporous scaffold for bone tissue engineering. **2020**, 156, 430-437	19
234	Cotransplantation of mesenchymal stromal cells and endothelial cells on calcium carbonate and hydroxylapatite scaffolds in vivo. **2021**, 49, 238-245	0
233	Electrospinning for tissue engineering applications. **2021**, 117, 100721	120
232	Evaluating the inherent osteogenic and angiogenic potential of mesoporous silica nanoparticles to augment vascularized bone tissue formation. **2021**, 311, 110687	4
231	Incorporation of graphene oxide and calcium phosphate in the PCL/PHBV core-shell nanofibers as bone tissue scaffold. **2021**, 138, 49797	11
230	Biomimetic mineralization of chitosan/gelatin cryogels and in vivo biocompatibility assessments for bone tissue engineering. **2021**, 138, 50337	3
229	3D-printed platform multi-loaded with bioactive, magnetic nanoparticles and an antibiotic for re-growing bone tissue. **2021**, 593, 120097	5
228	Nanoscience and nanotechnology in fabrication of scaffolds for tissue regeneration. **2021**, 11, 1-23	
227	Collagen maturity and mineralization in mesenchymal stem cells cultured on the hydroxyapatite-based bone scaffold analyzed by ATR-FTIR spectroscopic imaging. **2021**, 119, 111634	9
226	Functionalization strategies of electrospun nanofibrous scaffolds for nerve tissue engineering. **2021**, 2, 260-279	6
225	Biocompatible composite films and fibers based on Poly(Vinyl alcohol) and powders of calcium salts. **2021**, 2, 292-301	1
224	Chitosan and Its Potential Use for the Delivery of Bioactive Molecules in Bone Tissue Engineering. **2021**, 117-162	
223	Application of Raman Spectroscopic Imaging to Assess the Structural Changes at Cell-Scaffold Interface. **2021**, 22,	0
222	and effectiveness of a novel injectable calcitonin-loaded collagen/ceramic bone substitute. **2021**, 35, 1355-1365	1
221	Advances in Growth Factor Delivery for Bone Tissue Engineering. **2021**, 22,	24
220	Polymeric nanoparticles used in tissue engineering. **2021**, 191-224	

219	Highly porous and elastic aerogel based on ultralong hydroxyapatite nanowires for high-performance bone regeneration and neovascularization. **2021**, 9, 1277-1287		5
218	Biomaterials for Hard Tissue Engineering: Concepts, Methods, and Applications. **2021**, 347-380		
217	Additive manufacturing of biomorphic scaffolds for bone tissue engineering. **2021**, 113, 2909-2923		6
216	Physically cross-linked chitosan-based hydrogels for tissue engineering applications: A state-of-the-art review. **2021**, 145, 110176		34
215	Advances in Bone tissue engineering: A fundamental review. **2021**, 46, 1		11
214	Bioink Formulations for Bone Tissue Regeneration. **2021**, 9, 630488		9
213	Advances in Bacterial Cellulose/Strontium Apatite Composites for Bone Applications. 1-29		3
212	Electrospinning of in situ synthesized silica-based and calcium phosphate bioceramics for applications in bone tissue engineering: A review. **2021**, 123, 123-153		13
211	Recent Advances in Regenerative Tissue Fabrication: Tools, Materials, and Microenvironment in Hierarchical Aspects. **2021**, 1, 2000088		1
210	Applications of Bacterial Cellulose as a Natural Polymer in Tissue Engineering. **2021**, 67, 709-720		3
209	3D-Bioprinting Strategies Based on In Situ Bone-Healing Mechanism for Vascularized Bone Tissue Engineering. **2021**, 12,		3
208	The Marine Polysaccharide Ulvan Confers Potent Osteoinductive Capacity to PCL-Based Scaffolds for Bone Tissue Engineering Applications. **2021**, 22,		3
207	Bone substitutes and photobiomodulation in bone regeneration: A systematic review in animal experimental studies. **2021**, 109, 1765-1775		2
206	Scaffold Fabrication Technologies and Structure/Function Properties in Bone Tissue Engineering. **2021**, 31, 2010609		82
205	Advances in the Fabrication of Scaffold and 3D Printing of Biomimetic Bone Graft. **2021**, 49, 1128-1150		13
204	Review of the Applications of Biomedical Compositions Containing Hydroxyapatite and Collagen Modified by Bioactive Components. *Materials*, **2021**, 14,	3.5	10
203	Antibacterial Composite Materials Based on the Combination of Polyhydroxyalkanoates With Selenium and Strontium Co-substituted Hydroxyapatite for Bone Regeneration. **2021**, 9, 647007		5
202	Nanohydroxyapatite as a Biomaterial for Peripheral Nerve Regeneration after Mechanical Damage-In Vitro Study. **2021**, 22,		1

201	Physicochemical changes of the chitosan/β-1,3-glucan/hydroxyapatite biocomposite caused by mesenchymal stem cells cultured on its surface in vitro. **2021**, 251, 119439	1
200	Idealization through interactive modeling and experimental assessment of 3D-printed gyroid for trabecular bone scaffold. **2021**, 235, 1025-1034	1
199	In vivo investigation of PCL/PHBV/Hydroxyapatite Nanocomposite Scaffold in Regeneration of Critical-sized Bone Defects. **2021**, 22, 2507-2516	3
198	Physicochemical properties of 3D bovine natural scaffolds as a function of the anterior-posterior, lateral and superior-inferior directions. **2021**, 16, 101100	0
197	Oral Bone Tissue Regeneration: Mesenchymal Stem Cells, Secretome, and Biomaterials. **2021**, 22,	17
196	Novel nanosystems to enhance biological activity of hydroxyapatite against dental caries. **2021**, 124, 112062	1
195	Porous Polymers from High Internal Phase Emulsions as Scaffolds for Biological Applications. **2021**, 13,	12
194	Curcumin-loaded PHB/PLLA nanofibrous scaffold supports osteogenesis in adipose-derived stem cells in vitro. **2021**, 32, 3563-3571	2
193	Characterization of bending behavior of hydroxyapatite/biopolymer porous composite beams. **2021**, 25, 100747	3
192	Review of Low-Cost 3D Bioprinters: State of the Market and Observed Future Trends. **2021**, 26, 333-366	7
191	Cisplatin loaded polycaprolactone □zeolite nanocomposite scaffolds for bone cancer treatment. **2021**, 7, 100377-100377	1
190	An Overview of RNA-Based Scaffolds for Osteogenesis. **2021**, 8, 682581	3
189	Sinking Our Teeth in Getting Dental Stem Cells to Clinics for Bone Regeneration. **2021**, 22,	2
188	Aids of Machine Learning for Additively Manufactured Bone Scaffold. **2021**, 359-380	
187	Additively manufactured BaTiO composite scaffolds: A novel strategy for load bearing bone tissue engineering applications. **2021**, 126, 112192	13
186	Porous aligned ZnSr-doped β-TCP/silk fibroin scaffolds using ice-templating method for bone tissue engineering applications. **2021**, 32, 1966-1982	4
185	The Effect of Mesenchymal Stem Cell-Enriched Scaffolds on MMP-8 and TGF-□Levels of Vertebrae Postlaminoplasty in Rabbit Model. **2021**, 14, 27-37	1
184	Copper and manganese substituted hydroxyapatite/chitosan□olyvinyl pyrrolidone biocomposite for biomedical applications. **2021**, 44, 1	

183	Meniscal Regenerative Scaffolds Based on Biopolymers and Polymers: Recent Status and Applications. **2021**, 9, 661802	7
182	Biomimetic Strontium Substituted Calcium Phosphate Coating for Bone Regeneration. **2021**, 11, 908	0
181	Electrospun nano-fibrous bilayer scaffold prepared from polycaprolactone/gelatin and bioactive glass for bone tissue engineering. **2021**, 32, 111	3
180	Additive Manufacturing of Bone Scaffolds Using PolyJet and Stereolithography Techniques. **2021**, 11, 7336	3
179	In Situ Hydroxyapatite Synthesis Enhances Biocompatibility of PVA/HA Hydrogels. **2021**, 22,	3
178	Generation of bone grafts using cryopreserved mesenchymal stromal cells and macroporous collagen-nanohydroxyapatite cryogels. **2021**,	1
177	Biocompatibility of Alginate -Graphene Oxide Film for Tissue Engineering Applications. 900, 26-33	0
176	Antibacterial and Cellular Behaviors of Novel Zinc-Doped Hydroxyapatite/Graphene Nanocomposite for Bone Tissue Engineering. **2021**, 22,	11
175	Improvement of mechanical properties of zein porous scaffold by quenching/electrospun fiber reinforcement. **2021**, 16,	1
174	Current Biomaterial-Based Bone Tissue Engineering and Translational Medicine. **2021**, 22,	8
173	Structural optimization of 3D-printed patient-specific ceramic scaffolds for in vivo bone regeneration in load-bearing defects. **2021**, 121, 104613	4
172	Chitosan-Based Scaffold for Mineralized Tissues Regeneration. **2021**, 19,	7
171	Fabrication and in vitro evaluation of PCL/gelatin hierarchical scaffolds based on melt electrospinning writing and solution electrospinning for bone regeneration. **2021**, 128, 112287	11
170	Biomimetic gelatin/chitosan/polyvinyl alcohol/nano-hydroxyapatite scaffolds for bone tissue engineering. **2021**, 207, 109865	19
169	Platelet-rich fibrin-loaded PCL/chitosan core-shell fibers scaffold for enhanced osteogenic differentiation of mesenchymal stem cells. **2021**, 269, 118351	7
168	Decellularized and biological scaffolds in dental and craniofacial tissue engineering: a comprehensive overview. **2021**, 15, 1217-1251	4
167	Phytotoxicological effects of engineered nanoparticles: An emerging nanotoxicology. **2021**, 801, 149809	10
166	Oral tissue regeneration: Current status and future perspectives. **2021**, 169-187	

165	Bone Regeneration With Ceramics Scaffold. **2021**, 646-661		
164	Biological Roles and Delivery Strategies for Ions to Promote Osteogenic Induction. **2020**, 8, 614545		11
163	Osteoinductive and Osteoconductive Biomaterials. **2020**, 355-395		5
162	BMP gene delivery for skeletal tissue regeneration. **2020**, 137, 115449		5
161	Three-dimensional bio-printing and bone tissue engineering: technical innovations and potential applications in maxillofacial reconstructive surgery. **2020**, 42, 18		35
160	Numerical Analysis of the Influence of Porosity and Pore Geometry on Functionality of Scaffolds Designated for Orthopedic Regenerative Medicine. *Materials*, **2020**, 14,	3.5	5
159	PLGA/TiO nanocomposite scaffolds for biomedical applications: fabrication, photocatalytic, and antibacterial properties. **2021**, 11, 45-52		3
158	Dental stem cells: The role of biomaterials and scaffolds in developing novel therapeutic strategies. **2020**, 12, 897-921		13
157	Study of Icaritin Films by Low-Energy Electron Beam Deposition. **2021**, 23, 77		0
156	Delivery of synthetic mRNAs for tissue regeneration. **2021**, 179, 114007		6
155	Aspects of In Vitro Biodegradation of Hybrid Fibrin-Collagen Scaffolds. **2021**, 13,		1
154	Identification osteogenic signaling pathways following mechanical stimulation: A systematic review. **2021**,		1
153	Clinical Applications of Cell-Scaffold Constructs for Bone Regeneration Therapy. **2021**, 10,		3
152	Multiple channels with interconnected pores in a bioceramic scaffold promote bone tissue formation. **2021**, 11, 20447		4
151	Collagen and nano-hydroxyapatite interactions in alginate-based microcapsule provide an appropriate osteogenic microenvironment for modular bone tissue formation. **2022**, 277, 118807		7
150	Mimicked Periosteum Layer Based on Deposited Particle Silk Fibroin Membrane for Osteogenesis and Guided Bone Regeneration in Alveolar Cleft Surgery: Formation and in Vitro Testing. **2021**, 1-17		0
149	Biomedical Applications of Additive Manufacturing. **2021**, 553-566		0
148	Multifunctional 3D-Printed Magnetic Polycaprolactone/Hydroxyapatite Scaffolds for Bone Tissue Engineering. **2021**, 13,		2

147	Investigation the mechanical properties of a novel 3D multicomponent scaffold coated with a new bio-nanocomposite for bone tissue engineering: Fabrication, simulation and characterization. **2021**,		6
146	Non-invasive monitoring of bone scaffold activity by speckle pattern analysis. **2020**, 11, 6324-6336		1
145	Adipose stem cell secretion combined with biomaterials facilitates large-area wound healing. **2020**, 15, 2311-2323		
144	Bone tissue engineering. **2022**, 587-644		0
143	Engineering of Extracellular Matrix-Like Biomaterials at Nano- and Macroscale toward Fabrication of Hierarchical Scaffolds for Bone Tissue Engineering. 2100116		0
142	Biomimetic Approaches for the Design and Fabrication of Bone-to-Soft Tissue Interfaces. **2021**,		5
141	Deformation mechanism of porous composite sandwich beam for orthopaedical application under three-point bending. **2021**, 281, 114983		1
140	A review on mechanical and In-vitro studies of polymer reinforced bioactive glass-scaffolds and their fabrication techniques. **2021**,		2
139	Bone Scaffolds: An Incorporation of Biomaterials, Cells, and Biofactors. **2021**,		4
138	Bioprinting of Stem Cells in Multimaterial Scaffolds and Their Applications in Bone Tissue Engineering. **2021**, 21,		3
137	A deep insight into the preparation of ceramic bone scaffolds utilizing robocasting technique. **2021**, 48, 5939-5939		2
136	Effect of Chitosan Deacetylation on Its Affinity to Type III Collagen: A Molecular Dynamics Study.. *Materials*, **2022**, 15,	3.5	1
135	The Role of Long Non-Coding RNAs and Circular RNAs in Bone Regeneration: Modulating MiRNAs Function.. **2021**,		1
134	LZS bioactive glass-ceramic scaffolds: Colloidal processing, foam replication technique and mechanical properties to bone tissue engineering. **2022**, 9, 100219		
133	Bacterial nanocellulose and fibroin: natural products to produce a structure membranes. **2021**, 26,		
132	Design and development of novel 3D bone scaffold for implant application. **2022**,		0
131	Dual-Drug Delivery via Zein In Situ Forming Implants Augmented with Titanium-Doped Bioactive Glass for Bone Regeneration: Preparation, In Vitro Characterization, and In Vivo Evaluation.. **2022**, 14,		5
130	Bone tissue engineering. **2022**, 1-40		

129	Emerging strategies in bone tissue engineering. **2022**, 469-492		1
128	Biphasic scaffolds of polyvinyl alcohol with silk fibroin for oral and maxillofacial surgery based on mimicking materials design: fabrication, characterization, properties. **2022**, 57, 2131-2148		2
127	(Bio)manufactured Solutions for Treatment of Bone Defects with an Emphasis on US-FDA Regulatory Science Perspective. 2100073		1
126	Recent Advances in Synthetic and Natural Biomaterials-Based Therapy for Bone Defects.. **2022**, e2100383		3
125	Application of decellularized bone matrix as a bioscaffold in bone tissue engineering.. **2022**, 16, 1		7
124	Using Scaffolds as Drug Delivery Systems to Treat Bone Tumor.. **2022**,		1
123	Conventional and Recent Trends of Scaffolds Fabrication: A Superior Mode for Tissue Engineering.. **2022**, 14,		5
122	Engineering of Immune Microenvironment for Enhanced Tissue Remodeling.. **2022**, 19, 221		2
121	General Characteristics, Biomedical and Dental Application, and Usage of Chitosan in the Treatment of Temporomandibular Joint Disorders: A Narrative Review.. **2022**, 14,		3
120	Progress in Montmorillonite Functionalized Artificial Bone Scaffolds: Intercalation and Interlocking, Nanoenhancement, and Controlled Drug Release. **2022**, 2022, 1-20		1
119	Advances in 3D printing of composite scaffolds for the repairment of bone tissue associated defects.. **2022**, e3234		2
118	Toughening robocast chitosan/biphasic calcium phosphate composite scaffolds with silk fibroin: Tuning printable inks and scaffold structure for bone regeneration.. **2022**, 112690		1
117	Recent Applications of Electrospun Nanofibrous Scaffold in Tissue Engineering.. **2022**, 2022, 1953861		2
116	Bone Morphogenetic Protein-, Antimicrobial Agent-, and Analgesic-Incorporated Nanofibrous Scaffolds for the Therapy of Alveolar Clefts.. **2022**, 14,		0
115	Poly(L-co-D,L lactic acid-co-Trimethylene Carbonate) 3D printed scaffold cultivated with mesenchymal stem cells directed to bone reconstruction: and studies.. **2022**, 8853282211066246		0
114	3D biocompatible bone engineering foams with tunable mechanical properties and porous structures. 52228		
113	Microstructure and Mechanical Properties of Inverse Nanocomposite Made from Polylactide and Hydroxyapatite Nanoparticles.. *Materials*, **2021**, 15,	3.5	0
112	Advancing bone tissue engineering one layer at a time: a layer-by-layer assembly approach to 3D bone scaffold materials.. **2022**,		0

111	Bone Using Stem Cells for Maxillofacial Bone Disorders: A Systematic Review and Meta-analysis.. **2022**, 1		
110	Influence of Fish Scale-Based Hydroxyapatite on Forcespun Polycaprolactone Fiber Scaffolds.. **2022**, 7, 8323-8335		1
109	Characterization of Biological Properties of Dental Pulp Stem Cells Grown on an Electrospun Poly(l-lactide--caprolactone) Scaffold.. *Materials*, **2022**, 15,	3.5	3
108	Asymmetric resorbable-based dental barrier membrane for periodontal guided tissue regeneration and guided bone regeneration: A review.. **2022**,		1
107	A Review of 3D Printed Bone Implants.. **2022**, 13,		2
106	In Vitro Hydrolytic Degradation of Polyester-Based Scaffolds under Static and Dynamic Conditions in a Customized Perfusion Bioreactor.. *Materials*, **2022**, 15,	3.5	0
105	Tough, Flexible, and Bioactive Amphoteric Copolymer-Based Hydrogel for Bone Regeneration without Encapsulation of Seed Cells/Simulating Cues.. **2022**,		0
104	In-vitro viability of bone scaffolds fabricated using the adaptive foam reticulation technique. **2022**, 212766		
103	Piezoelectric Electrospun Fibrous Scaffolds for Bone, Articular Cartilage and Osteochondral Tissue Engineering.. **2022**, 23,		2
102	In vitro characterization of a biocompatible composite based on poly(3-hydroxybutyrate)/hydroxyapatite nanoparticles as a potential scaffold for tissue engineering.. **2022**, 128, 105138		0
101	Evaluation of in vitro biocompatibility of scaffolds for the repair of bone defects. **2021**, 9,		
100	Biopolymer-Based Scaffolds for Bone and Tissue Engineering. **2022**, 33-61		
99	Surface Decoration of Redox-Modulating Nanoceria on 3D-Printed Tissue Scaffolds Promotes Stem Cell Osteogenesis and Attenuates Bacterial Colonization.. **2021**,		1
98	Conductive Scaffolds for Bone Tissue Engineering: Current State and Future Outlook.. **2021**, 13,		4
97	Characterization of Porous Scaffolds Fabricated by Joining Stacking Based Laser Micro-Spot Welding (JS-LMSW) for Tissue Engineering Applications.. *Materials*, **2021**, 15,	3.5	
96	Gelatin-based Electrospun and Lyophilized Scaffolds with Nano Scale Feature for Bone Tissue Engineering Application: Review.. **2022**, 1-58		1
95	Image_1.TIF. **2020**,		
94	Image_2.TIF. **2020**,		

93	Optimization of Topography and Surface Properties of Polyacrylonitrile-Based Electrospun Scaffolds via Nonoclay Concentrations and its Effect on Osteogenic Differentiation of Human Mesenchymal Stem Cells.. **2021**, 20, 385-504	
92	Current Trends and Future Outlooks of Dental Stem-Cell-Derived Secretome/Conditioned Medium in Regenerative Medicine. **2022**, 1-37	
91	Carbon Footprint of 3D-Printed Bone Tissue Engineering Scaffolds: An Life Cycle Assessment Study. **2022**, 13, 63-69	
90	Preparation and characterization of Pullulan-based nanocomposite scaffold incorporating Ag-Silica Janus particles for bone tissue engineering. **2022**, 212733	1
89	Natural Polymers in Heart Valve Tissue Engineering: Strategies, Advances and Challenges. **2022**, 10, 1095	3
88	Electrospun Silk Fibroin/kappa-Carrageenan Hybrid Nanofibers with Enhanced Osteogenic Properties for Bone Regeneration Applications. **2022**, 11, 751	4
87	Bionanomaterials for wound healing applications. **2022**, 259-304	1
86	Review on 3D Printed Bone Scaffold and Biocompatible Material. **2018**, 1, 12-22	
85	PREPARATION AND PROPERTIES OF NOVEL BIOCOMPATIBLE PECTIN/SILICA CALCIUM PHOSPHATE HYBRIDS. **2022**, 56, 371-378	
84	Comparative review of piezoelectric biomaterials approach for bone tissue engineering. 1-40	0
83	3D-Printed composite scaffolds based on poly(Ɛcaprolactone) filled with poly(glutamic acid)-modified cellulose nanocrystals for improved bone tissue regeneration.	2
82	Impact of oxygen-calcium-generating and bone morphogenetic protein-2 nanoparticles on survival and differentiation of bone marrow-derived mesenchymal stem cells in the 3D bio-printed scaffold. **2022**, 216, 112581	0
81	Finite element analysis of the influence of porosity and pore geometry on mechanical properties of orthopaedic scaffolds. **2022**, 132, 105275	0
80	Cerium-Containing Mesoporous Bioactive Glasses (MBGs)-Derived Scaffolds with Drug Delivery Capability for Potential Tissue Engineering Applications. **2022**, 14, 1169	2
79	3D printing of graphene-based composites and their applications in medicine and health care. **2022**, 463-485	
78	Stem cells and common biomaterials in dentistry: a review study. **2022**, 33,	0
77	Development of 3D Thermoplastic Polyurethane (TPU)/Maghemite (?-Fe2O3) Using Ultra-Hard and Tough (UHT) Bio-Resin for Soft Tissue Engineering. **2022**, 14, 2561	
76	Application Progress of Modified Chitosan and Its Composite Biomaterials for Bone Tissue Engineering. **2022**, 23, 6574	1

75	Critical Review on 3D Scaffolds Materials. 1065, 129-143	
74	Management of bone diseases: looking at scaffold-based strategies for drug delivery.	0
73	Cellulose-based composite scaffolds for bone tissue engineering and localized drug delivery. **2023**, 20, 137-163	2
72	Fabrication and characterization of bioinspired nanohydroxyapatite scaffolds with different porosities. **2022**,	0
71	Delivery of bioactive albumin from multi-functional polyampholyte hydrogels. **2022**, 139,	0
70	Recent Advances in Cellulose-Based Hydrogels for Tissue Engineering Applications. **2022**, 14, 3335	2
69	Synthesis of Biocompatible Composite Material Based on Cryogels of Polyvinyl Alcohol and Calcium Phosphates. **2022**, 14, 3420	0
68	Production and Characterization of PLA/HA/GO Nanocomposite Scaffold. **2022**, 7,	0
67	High resolution DLP stereolithography to fabricate biocompatible hydroxyapatite structures that support osteogenesis. **2022**, 17, e0272283	1
66	Hydroxyapatite: A Versatile Bioceramic for Tissue Engineering Application.	1
65	Recent advances in 3D-printed polylactide and polycaprolactone-based biomaterials for tissue engineering applications. **2022**, 218, 930-968	13
64	A study on in vitro and in vivo bioactivity of silk fibroin / nano-hydroxyapatite / graphene oxide composite scaffolds with directional channels. **2022**, 652, 129886	2
63	The effect of hydroxyapatite nanoparticles on wettability and brine-oil interfacial tension as enhance oil recovery mechanisms. **2022**, 218, 110941	0
62	Recent advances in one-dimensional nanowire-incorporated bone tissue engineering scaffolds. **2022**, 33, 104229	0
61	Synthesis, surface modifications, and biomedical applications of carbon nanofibers: Electrospun vs vapor-grown carbon nanofibers. **2022**, 472, 214770	1
60	Biodegradable Biomaterials in Bone Tissue Engineering. **2022**, 299-334	0
59	Biomaterials for Tissue Engineering Applications and Current Updates in the Field: A Comprehensive Review. **2022**, 23,	3
58	Osteocyte Spheroids as a Live-Cell Additive Proposed as a Component in the Compounding of Biofabricated Materials for Engineered Bone Tissue: Formation and Biological Performance.	0

57	Dicalcium Phosphate Dihydrate Mineral Loaded Freeze-Dried Scaffolds for Potential Synthetic Bone Applications. **2022**, 15, 6245	1
56	3D Printed Composite Scaffolds of GelMA and Hydroxyapatite Nanopowders Doped with Mg/Zn Ions to Evaluate the Expression of Genes and Proteins of Osteogenic Markers. **2022**, 12, 3420	0
55	A Review on the Effect of Zein in Scaffold for Bone Tissue Engineering. **2022**, 30, 2805-2829	0
54	Preparation, Characterization, and Properties of Chitosan-Based Semi-Interpenetrating Polymer Networks and Poly(2-hydroxyethyl methacrylate) Structure. 2200282	1
53	Three-dimensional (3D) printing of hydroxyapatite-based scaffolds: A review. **2022**, 28, e00244	0
52	Metal functionally graded gyroids: additive manufacturing, mechanical properties, and simulation.	0
51	Scaffold-based bone tissue engineering in microgravity: potential, concerns and implications. **2022**, 8,	1
50	Novel Approaches and Biomaterials for Bone Tissue Engineering: A Focus on Silk Fibroin. **2022**, 15, 6952	0
49	Stem cell-derived exosomes in bone healing: focusing on their role in angiogenesis. **2022**,	0
48	Could Curdlan/Whey Protein Isolate/Hydroxyapatite Biomaterials Be Considered as Promising Bone Scaffolds?Fabrication, Characterization, and Evaluation of Cytocompatibility towards Osteoblast Cells In Vitro. **2022**, 11, 3251	0
47	Recent Advances in the Application of Natural and Synthetic Polymer-Based Scaffolds in Musculoskeletal Regeneration. **2022**, 14, 4566	4
46	Additive Manufacturing of Bioactive Glass Biomaterials. **2022**,	0
45	Current Trends and Future Outlooks of Dental Stem-Cell-Derived Secretome/Conditioned Medium in Regenerative Medicine. **2022**, 1035-1070	0
44	Biomimetic tissue regeneration using electrospun nanofibrous scaffolds. **2022**, 14, 169-186	0
43	Bone Tissue Engineering Scaffolds: Materials and Methods.	0
42	Synthetic materials in craniofacial regenerative medicine: A comprehensive overview. 10,	1
41	Effect of Piezoelectric BaTiO3 Filler on Mechanical and Magnetoelectric Properties of Zn0.25Co0.75Fe2O4/PVDF-TrFE Composites. **2022**, 14, 4807	0
40	Silk Sericin: A Promising Sustainable Biomaterial for Biomedical and Pharmaceutical Applications. **2022**, 14, 4931	3

39	Blending strategy to modify PEEK-based orthopedic implants. **2022**, 110427	0
38	Additive manufacturing in biomedical field: a critical review on fabrication method, materials used, applications, challenges, and future prospects.	1
37	Sugarcane bagasse cellulose-based scaffolds incorporated hydroxyapatite for promoting proliferation, adhesion and differentiation of osteoblasts. **2023**, 192, 115979	1
36	Biodegradable Polymers in Biomedical Applications: A Focus on Skin and Bone Regeneration. **2022**, 1-29	0
35	Design strategies for composite matrix and multifunctional polymeric scaffolds with enhanced bioactivity for bone tissue engineering. 10,	0
34	Small Extracellular Vesicles Released from Bioglass/Hydrogel Scaffold Promote Vascularized Bone Regeneration by Transferring miR-23a-3p. Volume 17, 6201-6220	0
33	Chronic wounds: pathological characteristics and their stem cell-based therapies. **2022**,	0
32	Fabrication and characterization of polycaprolactone/cellulose acetate blended nanofiber mats containing sericin and fibroin for biomedical application. **2022**, 12,	0
31	Mimicked 2D Scaffolds for Maxillofacial Surgery. **2023**, 135-147	0
30	Biomaterials and Futures for Bone Regeneration. **2022**, 57, 447	0
29	An Overview of Collagen-Based Composite Scaffold for Bone Tissue Engineering.	0
28	Type-A Gelatin-Based Hydrogel Infiltration and Degradation in Titanium Foams as a Potential Method for Localised Drug Delivery. **2023**, 15, 275	0
27	Biodegradable synthetic polymer in orthopaedic application: A review. **2023**,	1
26	Lumped-Element Circuit Modeling for Composite Scaffold with Nano-Hydroxyapatite and Wangi Rice Starch. **2023**, 15, 354	0
25	Computed Post-analyses on the Morphology of Hydroxyapatite Coated Poly(lactic acid) Scaffolds. **2022**,	0
24	Scaffold Guided Bone Regeneration for the Treatment of Large Segmental Defects in Long Bones. **2023**, 11, 325	0
23	A Composite of Hydrogel Alginate/PVA/r-GO for Scaffold Applications with Enhanced Degradation and Biocompatibility Properties. **2023**, 15, 534	0
22	Polymeric Biodegradable Biomaterials for Tissue Bioengineering and Bone Rejuvenation. **2023**, 267-277	0

21	Design and development of biodegradable POSS-PCL-Zeolite (Ⅱ)nano-scaffold for potential applications in bone regeneration. 1-20	0
20	Materials-based nanotherapeutics for injured and diseased bone. **2023**, 135, 101087	1
19	Scaffold degradation in bone tissue engineering: An overview. **2023**, 180, 105599	0
18	Lignin-enriched tricalcium phosphate/sodium alginate 3D scaffolds for application in bone tissue regeneration. **2023**, 239, 124258	0
17	Surface nanocrystallization and biomedical performance of Ti-Ta laminated composite processed by surface mechanical grinding treatment. **2023**, 623, 157051	0
16	Hard tissue repairing potency of mesoporous borosilicate bioactive glass: An in vitro assessment. **2023**, 609, 122289	0
15	Development of Scaffolds from Bio-Based Natural Materials for Tissue Regeneration Applications: A Review. **2023**, 9, 100	2
14	Hollow channels scaffold in bone regenerative: a review. 1-14	0
13	Polymeric Scaffolds Used in Dental Pulp Regeneration by Tissue Engineering Approach. **2023**, 15, 1082	0
12	Geopolymer Materials for Bone Tissue Applications: Recent Advances and Future Perspectives. **2023**, 15, 1087	0
11	Biodegradable Polymers in Biomedical Applications: A Focus on Skin and Bone Regeneration. **2023**, 1015-1043	0
10	Mechanical analysis and additive manufacturing of 3D-printed lattice materials for bone scaffolds. **2023**,	0
9	Eggshell Membrane as a Biomaterial for Bone Regeneration. **2023**, 15, 1342	0
8	Analysis of Tissue Engineering for the Scaffolds in Dentistry. **2022**,	0
7	FDM-based 3D printing of PLA/PHA composite polymers.	0
6	The Delivery and Activation of Growth Factors Using Nanomaterials for Bone Repair. **2023**, 15, 1017	0
5	Enhancement of Biocompatibility of Fish Scale-Based Hydroxyapatite-Infused Fibrous Scaffolds by Low-Temperature Plasma.	0
4	Human cells with osteogenic potential in bone tissue research. **2023**, 22,	0

3	Fabrication of duplex-layer coating on metallic implants: Advanced surface modification of metallic implants for orthopedic applications. **2023**, 397-426	0
2	Synthetic polymers as bone engineering scaffold.	0
1	Osteochondral Tissue Engineering Dilemma: Scaffolding Trends in Regenerative Medicine.	0