

Functional Biomaterials for Bone Regeneration: A Lesson

Advanced Functional Materials

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Stable Reference Genes for qPCR Analysis in BM-MSCs Undergoing Osteogenic Differentiation within 3D Hyaluronan-Based Hydrogels. <i>International Journal of Molecular Sciences</i> , 2020, 21, 9195.	1.8	6
2	Spiral Honeycomb Microstructured Bacterial Cellulose for Increased Strength and Toughness. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 50748-50755.	4.0	13
3	Topographical regulation of stem cell differentiation by plant-derived micro/nanostructures. <i>Nanoscale</i> , 2020, 12, 18305-18312.	2.8	7
4	Kill two birds with one stone: A novel dual-functional nanobiomaterial platform with a clear translational potential for bone regeneration. <i>Nano Research</i> , 2020, 13, 2311-2312.	5.8	0
5	Simultaneous incorporation of PTH(1-34) and nano-hydroxyapatite into Chitosan/Alginate Hydrogels for efficient bone regeneration. <i>Bioactive Materials</i> , 2021, 6, 1839-1851.	8.6	63
6	A Novel Approach to Enhance Bone Regeneration by Controlling the Polarity of GaN/AlGaN Heterostructures. <i>Advanced Functional Materials</i> , 2021, 31, 2007487.	7.8	17
9	The Therapeutic Potential of Hematopoietic Stem Cells in Bone Regeneration. <i>Tissue Engineering - Part B: Reviews</i> , 2021, , .	2.5	4
10	Large fuzzy biodegradable polyester microspheres with dopamine deposition enhance cell adhesion and bone regeneration in vivo. <i>Biomaterials</i> , 2021, 272, 120783.	5.7	28
11	Recent advances in PLGA-based biomaterials for bone tissue regeneration. <i>Acta Biomaterialia</i> , 2021, 127, 56-79.	4.1	131
12	Bioink homogeneity control during 3D bioprinting of multicomponent micro/nanocomposite hydrogel for even tissue regeneration using novel twin screw extrusion system. <i>Chemical Engineering Journal</i> , 2021, 415, 128971.	6.6	42
13	4D Printing of Multi-Responsive Membrane for Accelerated In Vivo Bone Healing Via Remote Regulation of Stem Cell Fate. <i>Advanced Functional Materials</i> , 2021, 31, 2103920.	7.8	48
14	The optimization of pepsin processing time to balance the mechanical and biological properties of xenogeneic bone. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2022, 110, 403-411.	1.6	0
15	Metabolomics in Bone Research. <i>Metabolites</i> , 2021, 11, 434.	1.3	15
16	Microfluidic 3D Printing Responsive Scaffolds with Biomimetic Enrichment Channels for Bone Regeneration. <i>Advanced Functional Materials</i> , 2021, 31, 2105190.	7.8	59
17	Bioactive Calcium Phosphate-Based Composites for Bone Regeneration. <i>Journal of Composites Science</i> , 2021, 5, 227.	1.4	46
18	Glycosaminoglycan content of a mineralized collagen scaffold promotes mesenchymal stem cell secretion of factors to modulate angiogenesis and monocyte differentiation. <i>Materialia</i> , 2021, 18, 101149.	1.3	11
19	OD/1D Heterojunction Implant with Electro-Mechanobiological Coupling Cues Promotes Osteogenesis. <i>Advanced Functional Materials</i> , 2021, 31, 2106249.	7.8	26
20	A novel photocrosslinked phosphate functionalized Chitosan-Sr5(PO4)2SiO4 composite hydrogels and in vitro biomineralization, osteogenesis, angiogenesis for bone regeneration application. <i>Composites Part B: Engineering</i> , 2021, 222, 109057.	5.9	31

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21	Minimally invasive co-injection of modular micro-muscular and micro-vascular tissues improves in situ skeletal muscle regeneration. <i>Biomaterials</i> , 2021, 277, 121072.	5.7	12
22	A baicalin-loaded coaxial nanofiber scaffold regulated inflammation and osteoclast differentiation for vascularized bone regeneration. <i>Bioactive Materials</i> , 2022, 8, 559-572.	8.6	28
23	Binding enhancements of antibody functionalized natural and synthetic fibers. <i>RSC Advances</i> , 2021, 11, 30353-30360.	1.7	0
24	A Hierarchical Structured Mineralized Nanofiber Scaffold with Osteoimmunomodulatory and Osteoinductive Functions for Enhanced Alveolar Bone Regeneration. <i>Advanced Healthcare Materials</i> , 2022, 11, e2102236.	3.9	29
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28	Titanium alloy composited with dual-cytokine releasing polysaccharide hydrogel to enhance osseointegration via osteogenic and macrophage polarization signaling pathways. <i>International Journal of Energy Production and Management</i> , 2022, 9, .	1.9	20
29	Transcriptome Analysis Revealed the Symbiosis Niche of 3D Scaffolds to Accelerate Bone Defect Healing. <i>Advanced Science</i> , 2022, 9, e2105194.	5.6	31
30	Marine Collagen: A Promising Biomaterial for Wound Healing, Skin Anti-Aging, and Bone Regeneration. <i>Marine Drugs</i> , 2022, 20, 61.	2.2	71
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35	Experimental Characterization and Mathematical Modeling of the Adsorption of Proteins and Cells on Biomimetic Hydroxyapatite. <i>ACS Omega</i> , 2022, 7, 908-920.	1.6	3
36	Personalized 3D printed bone scaffolds: A review. <i>Acta Biomaterialia</i> , 2023, 156, 110-124.	4.1	57
37	In Situ-Forming Collagen/poly- β -glutamic Acid Hydrogel System with Mesenchymal Stem Cells and Bone Morphogenetic Protein-2 for Bone Tissue Regeneration in a Mouse Calvarial Bone Defect Model. <i>Tissue Engineering and Regenerative Medicine</i> , 2022, 19, 1099-1111.	1.6	5
38	Heterostructured Metal-Organic Frameworks/Polydopamine Coating Endows Polyetheretherketone Implants with Multimodal Osteogenicity and Photoswitchable Disinfection. <i>Advanced Healthcare Materials</i> , 2022, 11, e2200641.	3.9	15

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39	The construction of a self-assembled coating with chitosan-grafted reduced graphene oxide on porous calcium polyphosphate scaffolds for bone tissue engineering. <i>Biomedical Materials (Bristol)</i> , 2022, 17, 045016.	1.7	2
40	Bone formation and bone repair: The roles and crosstalk of osteoinductive signaling pathways. <i>Process Biochemistry</i> , 2022, 118, 252-262.	1.8	5
41	Interactions Between Immunomodulatory Biomaterials and Immune Microenvironment: Cues for Immunomodulation Strategies in Tissue Repair. <i>Frontiers in Bioengineering and Biotechnology</i> , 2022, 10, .	2.0	5
43	Degradation of 3D-printed magnesium phosphate ceramics in vitro and a prognosis on their bone regeneration potential. <i>Bioactive Materials</i> , 2023, 19, 376-391.	8.6	13
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52	Electrospun nanofibers for bone regeneration: from biomimetic composition, structure to function. <i>Journal of Materials Chemistry B</i> , 2022, 10, 6078-6106.	2.9	12
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59	Positive space acquiring asymmetric membranes for guiding alveolar bone regeneration under infectious conditions. , 2023, 145, 213252.		3
60	Nanohydroxyapatite/Titanate Nanotube Composites for Bone Tissue Regeneration. <i>Journal of Functional Biomaterials</i> , 2022, 13, 306.	1.8	2
61	Calcium peroxide-mediated bioactive hydrogels for enhanced angiogenic paracrine effect and osteoblast proliferation. <i>Journal of Industrial and Engineering Chemistry</i> , 2023, 120, 121-130.	2.9	3
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65	Extrafibrillarly Demineralized Dentin Matrix for Bone Regeneration. <i>Advanced Healthcare Materials</i> , 2023, 12, .	3.9	2
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105	A responsive cascade drug delivery scaffold adapted to the therapeutic time window for peripheral nerve injury repair. Materials Horizons, 2024, 11, 1032-1045.	6.4	1