Aldo R Boccaccini

List of Publications by Year
in descending order

934	50,169	1409 102	2726 181
papers	citations	h-index	g-index

953	953	953	37384
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Electrospun poly(Îµâ€caprolactone)/poly(glycerol sebacate) aligned fibers fabricated with benign solvents for tendon tissue engineering. Journal of Biomedical Materials Research - Part A, 2025, 113, .	4.3	0
2	Enhancing alginate dialdehyde-gelatin (ADA-GEL) based hydrogels for biofabrication by addition of phytotherapeutics and mesoporous bioactive glass nanoparticles (MBGNs). Journal of Biomaterials Applications, 2025, 39, 524-556.	2.5	0
3	Metal-organic framework (MOF)-bioactive glass (BG) systems for biomedical applications - A review. Materials Today Bio, 2025, 30, 101413.	7.3	1
4	Physical properties of zinc, silver, or cerium ion doped borate glass incorporated PCL/gelatin electrospun fibers and their interaction with NG108-15 neural cells. Journal of Materials Science: Materials in Medicine, 2025, 36, .	3.7	0
5	Amorphous calcium phosphate reinforced alginate-dialdehyde-gelatin (ADA-GEL) bioink for biofabrication of bone tissue scaffolds. Carbohydrate Polymer Technologies and Applications, 2025, 9, 100710.	3.0	0
6	Mucin Coatings Establish Multifunctional Properties on Commercial Sutures. ACS Applied Bio Materials, 2025, 8, 2263-2274.	4.9	0
7	Reinforcing Tissueâ€Engineered Cartilage: Nanofibrillated Cellulose Enhances Mechanical Properties of Alginate Dialdehydeâ€“Gelatin Hydrogel. Advanced Engineering Materials, 2024, 26, .	3.0	6
8	Development of Superâ€Paramagnetic Iron Oxide Nanoparticleâ€Coated Melt Electrowritten Scaffolds for Biomedical Applications. Macromolecular Bioscience, 2024, 24, .	4.0	2
9	3D bioprinting of multifunctional alginate dialdehyde (ADA)â€“gelatin (GEL) (ADA-GEL) hydrogels incorporating ferulic acid. International Journal of Biological Macromolecules, 2024, 257, 128449.	8.1	11
10	Solâ€“gel derived B2O3â€“CaO borate bioactive glasses with hemostatic, antibacterial and pro-angiogenic activities. Regenerative Biomaterials, 2024, 11, .	7.3	5
11	Tuning the properties of all natural polymeric scaffolds for tendon repair with cellulose microfibers. Carbohydrate Polymer Technologies and Applications, 2024, 7, 100447.	3.0	1
12	Perfusable Tissue Bioprinted into a 3D-Printed Tailored Bioreactor System. Bioengineering, 2024, 11, 68.	3.7	1
13	The Addition of Zinc to the ICIE16-Bioactive Glass Composition Enhances Osteogenic Differentiation and Matrix Formation of Human Bone Marrow-Derived Mesenchymal Stromal Cells. Biomimetics, 2024, 9, 53.	3.9	1
14	Amorphous, Carbonated Calcium Phosphate and Biopolymer-Composite-Coated Si3N4/MWCNTs as Potential Novel Implant Materials. Nanomaterials, 2024, 14, 279.	4.2	2
15	When Mechanical Stress Matters: Generation of Polyploid Giant Cancer Cells in Tumorâ€Like Microcapsules. Advanced Functional Materials, 2024, 34, .	17.1	2
16	3D bioprinting of mouse pre-osteoblasts and human MSCs using bioinks consisting of gelatin and decellularized bone particles. Biofabrication, 2024, 16, 025027.	7.3	4
17	Oxidized alginate-gelatin (ADA-GEL)/silk fibroin/Cu-Ag doped mesoporous bioactive glass nanoparticle-based hydrogels for potential wound care treatments. Biomedical Materials (Bristol), 2024, 19, 035016.	3.4	1
18	Genipin-Cross-Linked Silk Fibroin/Alginate Dialdehyde Hydrogel with Tunable Gelation Kinetics, Degradability, and Mechanical Properties: A Potential Candidate for Tissue Regeneration. Biomacromolecules, 2024, 25, 2323-2337.	5.4	3

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19	pH-Triggered Controlled Release of Chlorhexidine Using Chitosan-Coated Titanium Silica Composite for Dental Infection Prevention. Pharmaceutics, 2024, 16, 377.	5.2	1
20	Strontium and Zinc Co-Doped Mesoporous Bioactive Glass Nanoparticles for Potential Use in Bone Tissue Engineering Applications. Nanomaterials, 2024, 14, 575.	4.2	7
21	Electrophoretic deposition of tea tree oil containing chitosan/gelatin/whitlockite composite coatings for biofilm protection and bone tissue regeneration. Ceramics International, 2024, 50, 22405-22420.	5.4	2
22	Why geopolymers and alkaliâ€activated materials are key components of a sustainable world: A perspective contribution. Journal of the American Ceramic Society, 2024, 107, 5159-5177.	3.8	13
23	Investigating the Effect of Processing and Material Parameters of Alginate Dialdehyde-Gelatin (ADA-GEL)-Based Hydrogels on Stiffness by XGB Machine Learning Model. Bioengineering, 2024, 11, 415.	3.7	2
24	Wearable approaches for non-invasive monitoring of tendons: A scoping review. Internet of Things (Netherlands), 2024, 26, 101199.	9.6	1
25	Engineering peptide-modified alginate-based bioinks with cell-adhesive properties for biofabrication. RSC Advances, 2024, 14, 13769-13786.	4.5	2
26	Polyethylenimine Inclusion to Develop Aqueous Alginate-Based Coreâ€“Shell Capsules for Biomedical Applications. ACS Applied Materials & Interfaces, 2024, 16, 25652-25664.	8.1	1
27	Gelatin Methacryloyl (GelMA) - 45S5 Bioactive Glass (BG) Composites for Bone Tissue Engineering: 3D Extrusion Printability and Cytocompatibility Assessment Using Human Osteoblasts. ACS Biomaterials Science and Engineering, 2024, 10, 5122-5135.	5.5	2
28	Ferulic acid and human platelet lysate incorporated alginate dialdehydeâ€gelatin <scp>3D</scp> (bio)printable hydrogels with biological activity. Journal of Applied Polymer Science, 2024, 141, .	2.7	0
29	The effect of mesoporous bioactive glass nanoparticles incorporating various metallic ions (Cu, Zn,) Tj ETQq1 1 0.784314 rgBT /Overl	4.8	2
30	Enhancing the Antibacterial Properties of Chitosan Coatings: Ag@Chitosan and Chitosan from Insects. Coatings, 2024, 14, 925.	2.6	1
31	Impact of morphological features and chemical composition of tendon biomimetic scaffolds on immune recognition via Toll-like receptors. Biomaterials Science, 2024, 12, 4695-4712.	5.8	0
32	3D Melt-Extrusion Printing of Medium Chain Length Polyhydroxyalkanoates and Their Application as Antibiotic-Free Antibacterial Scaffolds for Bone Regeneration. ACS Biomaterials Science and Engineering, 2024, 10, 5136-5153.	5.5	1
33	Biological effects of a zinc-substituted borosilicate bioactive glass on human bone marrow derived stromal cells in vitro and in a critical-size femoral defect model in rats in vivo. Biomaterials Science, 2024, 12, 4770-4789.	5.8	1
34	Cotton wool-like ion-doped bioactive glass nanofibers: investigation of Zn and Cu combined effect. Biomedical Materials (Bristol), 2024, 19, 065001.	3.4	2
35	Fabrication and characterization of multifunctional, asymmetric bilayer films based on chitosan/gelatin/mesoporous bioactive glass nanoparticles for guided bone regeneration. Journal of Materials Research, 2024, 39, 2654-2673.	2.6	0
36	Composite Alginate Dialdehyde-Gelatin (ADA-GEL) Hydrogel Containing Short Ribbon-Shaped Fillers for Skeletal Muscle Tissue Biofabrication. ACS Applied Materials & Interfaces, 2024, 16, 44605-44622.	8.1	2

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37	Enzymatic Insitu Crosslinking Can Improve Hydrogel Stability While Maintaining Matrix Stiffness. ChemistrySelect, 2024, 9, .	1.7	0
38	New Insights Into Application Relevant Properties of Cu²⁺â€Doped Brushite Cements. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2024, 112, .	3.6	0
39	Phytotherapeutic Hierarchical PCLâ€Based Scaffolds as a Multifunctional Wound Dressing: Combining 3D Printing and Electrospinning. Macromolecular Bioscience, 2024, 24, .	4.0	1
40	Zinc and gallium doped borate bioactive glasses influence in-vitro angiogenesis: New evidence in cell co-culture studies. Materials Letters, 2024, 377, 137529.	2.6	0
41	Targeting Bone Tumours with 45S5 Bioactive Glass. International Journal of Molecular Sciences, 2024, 25, 10830.	4.5	0
42	Combining Mesoporous Bioactive Glass Nanoparticles (MBGNs) with Essential Oils to Tackle Bacterial Infection and Oxidative Stress for Bone Regeneration Applications. ACS Biomaterials Science and Engineering, 2024, 10, 6860-6873.	5.5	1
43	Quantitative Macromolecular Modeling Assay of Biopolymer-Based Hydrogels. Gels, 2024, 10, 676.	4.9	0
44	Ionic medicine: Exploiting metallic ions to stimulate skeletal muscle tissue regeneration. Acta Biomaterialia, 2024, 190, 1-23.	9.3	2
45	Incorporating silica nanoparticles with silver patches into alginate-based bioinks for 3D bioprinting. MRS Communications, 2024, 14, 1460-1466.	1.9	0
46	Plasticity of 3D Hydrogels Predicts Cell Biological Behavior. Biomacromolecules, 2024, 25, 7608-7618.	5.4	0
47	Injectable bone cements: What benefits the combination of calcium phosphates and bioactive glasses could bring?. Bioactive Materials, 2023, 19, 217-236.	8.9	41
48	In vitro cytocompatibility and antibacterial studies on biodegradable Zn alloys supplemented by a critical assessment of direct contact cytotoxicity assay. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2023, 111, 241-260.	3.6	29
49	4D Biofabrication of Tâ€Shaped Vascular Bifurcation. Advanced Materials Technologies, 2023, 8, .	6.1	24
50	Time-dependent hyper-viscoelastic parameter identification of human articular cartilage and substitute materials. Journal of the Mechanical Behavior of Biomedical Materials, 2023, 138, 105618.	3.4	5
51	<scp>3D</scp>â€printed <scp>Î²â€TCP</scp>/<scp>S53P4</scp> bioactive glass scaffolds coated with tea tree oil: Coating optimization, in vitro bioactivity and antibacterial properties. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2023, 111, 881-894.	3.6	4
52	Melaleuca armillaris Essential Oil as an Antibacterial Agent: The Use of Mesoporous Bioactive Glass Nanoparticles as Drug Carrier. Nanomaterials, 2023, 13, 34.	4.2	9
53	The Impact of the Cellular Environment and Aging on Modeling Alzheimer's Disease in 3D Cell Culture Models. Advanced Science, 2023, 10, .	12.8	14
54	Fish scale containing alginate dialdehyde-gelatin bioink for bone tissue engineering. Biofabrication, 2023, 15, 025012.	7.3	13

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55	IVM Advances for Early Antral Follicle-Enclosed Oocytes Coupling Reproductive Tissue Engineering to Inductive Influences of Human Chorionic Gonadotropin and Ovarian Surface Epithelium Coculture. International Journal of Molecular Sciences, 2023, 24, 6626.	4.5	4
56	Progress on Electrospun Composite Fibers Incorporating Bioactive Glass: An Overview. Advanced Engineering Materials, 2023, 25, .	3.0	5
57	Cold hydrostatic sintering of 45S5 bioactive glass. European Journal of Materials, 2023, 3, 1-10.	3.7	2
58	Bioactive Glass Inhibits Tumor Development from Giant Cell Tumor of Bone-Derived Neoplastic Stromal Cells in a Chicken Chorioallantoic Membrane Assay. Cancers, 2023, 15, 1868.	4.0	1
59	Fabrication of Hydrogel-Based Composite Fibers and Computer Simulation of the Filler Dynamics in the Composite Flow. Bioengineering, 2023, 10, 448.	3.7	3
60	Aligned Ice Templated Biomaterial Strategies for the Musculoskeletal System. Advanced Healthcare Materials, 2023, 12, .	8.9	7
61	Biomaterial strategies to combat implant infections: new perspectives to old challenges. International Materials Reviews, 2023, 68, 1011-1049.	18.1	6
62	A 3D-Printed Wound-Healing Material Composed of Alginate Dialdehydeâ€“Gelatin Incorporating Astaxanthin and Borate Bioactive Glass Microparticles. ACS Applied Materials & Interfaces, 2023, 15, 50626-50637.	8.1	21
63	Growth of hydroxyapatite plate-like nanoparticles by additive free precipitation for the deposition of aligned coatings. Ceramics International, 2023, 49, 25396-25404.	5.4	4
64	Comparison between the Astaxanthin Release Profile of Mesoporous Bioactive Glass Nanoparticles (MBGNs) and Poly(3-hydroxybutyrate-co-3-hydroxyvalerate) (PHBV)/MBGN Composite Microspheres. Polymers, 2023, 15, 2432.	4.7	3
65	Polymers and Bioactive Compounds with a Macrophage Modulation Effect for the Rational Design of Hydrogels for Skin Regeneration. Pharmaceutics, 2023, 15, 1655.	5.2	7
66	Mussel-Inspired Polydopamine Composite Mesoporous Bioactive Glass Nanoparticles: An Exploration of Potential Metal-Ion Loading Platform and In Vitro Bioactivity. ACS Applied Materials & Interfaces, 2023, 15, 29550-29560.	8.1	2
67	3D-Printed Multifunctional Hydrogels with Phytotherapeutic Properties: Development of Essential Oil-Incorporated ALG-XAN Hydrogels for Wound Healing Applications. ACS Biomaterials Science and Engineering, 2023, 9, 4149-4167.	5.5	16
68	Mussel-inspired polydopamine decorated silane modified-electroconductive gelatin-PEDOT:PSS scaffolds for bone regeneration. RSC Advances, 2023, 13, 15960-15974.	4.5	7
69	Comparison of the Behavior of 3D-Printed Endothelial Cells in Different Bioinks. Bioengineering, 2023, 10, 751.	3.7	4
70	Quaternary and pentanary mesoporous bioactive glass nanoparticles as novel nanocarriers for gallic acid: Characterisation, drug release and antibacterial activity. Ceramics International, 2023, 49, 29923-29932.	5.4	4
71	Iron oxide nanoparticle-based nanocomposites in biomedical application. Trends in Biotechnology, 2023, 41, 1471-1487.	11.2	28
72	Comparison of microstructure, sintering behavior, and biological response of sol-gel and melt-derived 13â€“93 bioactive glass scaffolds. Open Ceramics, 2023, 15, 100407.	1.8	2

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73	Amorphous Calcium Phosphate and Amorphous Calcium Phosphate Carboxylate: Synthesis and Characterization. ACS Omega, 2023, 8, 26782-26792.	4.4	14
74	Influence of Mesoporous Bioactive Glass Particles Doped with Cu and Mg on the Microstructure and Properties of Zein-Based Coatings Obtained by Electrophoretic Deposition. Journal of the Electrochemical Society, 2023, 170, 082501.	3.1	3
75	Cotton-wool-like borosilicate glass fibers for tissue regeneration: Preparation, characterization and in vitro bioactivity. Open Ceramics, 2023, 15, 100419.	1.8	1
76	A review of glycosaminoglycan-modified electrically conductive polymers for biomedical applications. Acta Biomaterialia, 2023, 169, 45-65.	9.3	18
77	Preâ€Crosslinking with Hydrogel Microparticles Enhances the Printability of Alginateâ€Based Inks. Macromolecular Materials and Engineering, 2023, 308, .	4.2	7
78	Processing and characterization of aligned electrospun gelatin/polycaprolactone nanofiber mats incorporating borate glass (13-93B3) microparticles. Biomedical Materials (Bristol), 2023, 18, 055030.	3.4	3
79	Biosynthesis of Zinc Oxide Nanoparticles on <scp>l</scp>-Carnosine Biofunctionalized Polyacrylonitrile Nanofibers; a Biomimetic Wound Healing Material. ACS Applied Bio Materials, 2023, 6, 4290-4303.	4.9	11
80	Endotenon-Derived Type II Tendon Stem Cells Have Enhanced Proliferative and Tenogenic Potential. International Journal of Molecular Sciences, 2023, 24, 15107.	4.5	0
81	Developing a bioactive glass coated dental floss: antibacterial and mechanical evaluations. Journal of Materials Science: Materials in Medicine, 2023, 34, .	3.7	2
82	Multifunctional Chitosan Scaffold Platforms Loaded with Natural Polyphenolic Extracts for Wound Dressing Applications. Biomacromolecules, 2023, 24, 5183-5193.	5.4	4
83	The Impact of 45S5-Bioactive Glass on Synovial Cells in Knee Osteoarthritisâ€"An In Vitro Study. Materials, 2023, 16, 7594.	2.9	1
84	In vitro study of bioactive glass coatings obtained by atmospheric plasma spraying. Boletin De La Sociedad Espanola De Ceramica Y Vidrio, 2022, 61, 42-53.	2.1	2
85	Bioactive Glass Flakes as Innovative Fillers in Chitosan Membranes for Guided Bone Regeneration. Advanced Engineering Materials, 2022, 24, .	3.0	6
86	Nanocomposite electrospun fibers of poly(Îµ-caprolactone)/bioactive glass with shape memory properties. Bioactive Materials, 2022, 11, 230-239.	8.9	19
87	Electrophoretic deposition, microstructure and properties of multicomponent sodium alginate-based coatings incorporated with graphite oxide and hydroxyapatite on titanium biomaterial substrates. Applied Surface Science, 2022, 575, 151688.	6.6	29
88	Effect of glycerol and H3PO4 on the bioactivity and degradability of rod-like SBA-15 particles with active surface for bone tissue engineering applications. Microporous and Mesoporous Materials, 2022, 329, 111543.	4.7	8
89	Myocardial tissue engineering. , 2022, , 409-457.		0
90	Bioactive glasses and ceramics for tissue engineering. , 2022, , 111-178.		4

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91	Mesoporous Bioactive Glasses in Cancer Diagnosis and Therapy: Stimuliâ€Responsive, Toxicity, Immunogenicity, and Clinical Translation. Advanced Science, 2022, 9, .	12.8	96
92	Mapping the elemental and crystalline phase distribution in Cu²⁺ doped 45S5 bioactive glass upon crystallization. CrystEngComm, 2022, 24, 284-293.	2.5	3
93	Nature-Derived and Synthetic Additives to poly(É›-Caprolactone) Nanofibrous Systems for Biomedicine; an Updated Overview. Frontiers in Chemistry, 2022, 9, .	3.6	48
94	Boswellia sacra Extract-Loaded Mesoporous Bioactive Glass Nano Particles: Synthesis and Biological Effects. Pharmaceutics, 2022, 14, 126.	5.2	12
95	Gallium containing bioactive materials: A review of anticancer, antibacterial, and osteogenic properties. Bioactive Materials, 2022, 17, 125-146.	8.9	62
96	Scaffold-Mediated Immunoengineering as Innovative Strategy for Tendon Regeneration. Cells, 2022, 11, 266.	4.8	25
97	Scavenging of bacteria or bacterial products by magnetic particles functionalized with a broad-spectrum pathogen recognition receptor motif offers diagnostic and therapeutic applications. Acta Biomaterialia, 2022, 141, 418-428.	9.3	15
98	Cerium-Containing Bioactive Glasses Promote In Vitro Lymphangiogenesis. Pharmaceutics, 2022, 14, 225.	5.2	10
99	Editorial: Multifunctional Bioactive Nanomaterials for Tissue Regeneration, Volume 2. Frontiers in Chemistry, 2022, 10, .	3.6	1
100	3D Bioprinting of Multifunctional Dynamic Nanocomposite Bioinks Incorporating Cuâ€Doped Mesoporous Bioactive Glass Nanoparticles for Bone Tissue Engineering. Small, 2022, 18, .	11.6	72
101	Recent developments in electrophoretic deposition (EPD) of antibacterial coatings for biomedical applications - A review. Current Opinion in Biomedical Engineering, 2022, 21, 100367.	3.2	28
102	A Selfâ€Assembled Matrix System for Cellâ€Bioengineering Applications in Different Dimensions, Scales, and Geometries. Small, 2022, 18, .	11.6	4
103	3D hydrogel-based microcapsules as an in vitro model to study tumorigenicity, cell migration and drug resistance. Acta Biomaterialia, 2022, 142, 208-220.	9.3	19
104	Alginate Coreâ€“Shell Capsules for 3D Cultivation of Adipose-Derived Mesenchymal Stem Cells. Bioengineering, 2022, 9, 66.	3.7	16
105	Synthesis and characterization of a collagen-based composite material containing selenium nanoparticles. Journal of Biomaterials Applications, 2022, 36, 1800-1811.	2.5	5
106	Effect of Zn and Ga doping on bioactivity, degradation, and antibacterial properties of borate 1393-B3 bioactive glass. Ceramics International, 2022, 48, 16404-16417.	5.4	40
107	Oxidized Hyaluronic Acid-Gelatin-Based Hydrogels for Tissue Engineering and Soft Tissue Mimicking. Tissue Engineering - Part C: Methods, 2022, 28, 301-313.	2.6	8
108	3D Printing of Mechanically Resistant Poly (Glycerol Sebacate) (PGS)â€Zein Scaffolds for Potential Cardiac Tissue Engineering Applications. Advanced Engineering Materials, 2022, 24, .	3.0	7

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109	Advantages of nanoscale bioactive glass as inorganic filler in alginate hydrogels for drug delivery and biofabrication. European Journal of Materials, 2022, 2, 33-53.	3.7	9
110	Targeted Printing of Cells: Evaluation of ADA-PEG Bioinks for Drop on Demand Approaches. Gels, 2022, 8, 206.	4.9	9
111	Fabrication and Characterization of Bioactive Gelatinâ€“Alginateâ€“Bioactive Glass Composite Coatings on Porous Titanium Substrates. ACS Applied Materials & Interfaces, 2022, 14, 15008-15020.	8.1	17
112	Sol-gel bioactive glass containing biomaterials for restorative dentistry: A review. Dental Materials, 2022, 38, 725-747.	3.6	45
113	Relation between chemical composition, morphology, and microstructure of poly(ether ether) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T Journal of Materials Science, 2022, 57, 5839-5854.	3.5	8
114	Bioprinting with bioactive alginate dialdehyde-gelatin (ADA-GEL) composite bioinks: Time-dependent in-situ crosslinking via addition of calcium-silicate particles tunes in vitro stability of 3D bioprinted constructs. Bioprinting, 2022, 26, e00200.	6.0	26
115	Bioactive glass selectively promotes cytotoxicity towards giant cell tumor of bone derived neoplastic stromal cells and induces MAPK signalling dependent autophagy. Bioactive Materials, 2022, 15, 456-468.	8.9	8
116	Custom-Made Poly(urethane) Coatings Improve the Mechanical Properties of Bioactive Glass Scaffolds Designed for Bone Tissue Engineering. Polymers, 2022, 14, 151.	4.7	2
117	Coâ€doping of iron and copper ions in nanosized bioactive glass by reactive laser fragmentation in liquids. Journal of Biomedical Materials Research - Part A, 2022, 110, 1537-1550.	4.3	6
118	Improved 3D Printing and Cell Biology Characterization of Inorganic-Filler Containing Alginate-Based Composites for Bone Regeneration: Particle Shape and Effective Surface Area Are the Dominant Factors for Printing Performance. International Journal of Molecular Sciences, 2022, 23, 4750.	4.5	13
119	Environmentally friendly fabrication of electrospun nanofibers made of polycaprolactone, chitosan and Î²-carrageenan (PCL/CS/Î²-C). Biomedical Materials (Bristol), 2022, 17, 045019.	3.4	20
120	Electrospun fibers of poly (lactic acid) containing bioactive glass and magnesium oxide nanoparticles for bone tissue regeneration. International Journal of Biological Macromolecules, 2022, 210, 324-336.	8.1	35
121	Organic solvent-free synthesis of dendritic mesoporous bioactive glass nanoparticles with remineralization capability. Materials Letters, 2022, 320, 132366.	2.6	3
122	In vitro and in ovo impact of the ionic dissolution products of boron-doped bioactive silicate glasses on cell viability, osteogenesis and angiogenesis. Scientific Reports, 2022, 12, .	3.7	26
123	3D printed gelatin/decellularized bone composite scaffolds for bone tissue engineering: Fabrication, characterization and cytocompatibility study. Materials Today Bio, 2022, 15, 100309.	7.3	29
124	Zinc improves antibacterial, anti-inflammatory and cell motility activity of chitosan for wound healing applications. International Journal of Biological Macromolecules, 2022, 213, 845-857.	8.1	45
125	Fabrication of Biocompatible Electrospun Poly(Îµ-caprolactone)/Gelatin Nanofibers Loaded with Pinus radiata Bark Extracts for Wound Healing Applications. Polymers, 2022, 14, 2331.	4.7	16
126	When Electrospun Fiber Support Matters: In Vitro Ovine Long-Term Folliculogenesis on Poly (Epsilon) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	4.8	8

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127	Enhancing the Biological Performance of Bioactive Glasses by Combination with Phytotherapeutic Compounds. , 2022, , 263-292.		1
128	An Innovative Arteriovenous (AV) Loop Breast Cancer Model Tailored for Cancer Research. Bioengineering, 2022, 9, 280.	3.7	4
129	Quaternary bioactive glass-derived powders presenting submicrometric particles and antimicrobial activity. Ceramics International, 2022, 48, 29982-29990.	5.4	6
130	A 3D Printed Bone Tissue Engineering Scaffold Composed of Alginate Dialdehydeâ€Gelatine Reinforced by Lysozyme Loaded Cerium Doped Mesoporous Silicaâ€Calcia Nanoparticles. Macromolecular Bioscience, 2022, 22, .	4.0	18
131	Biodegradable Polylactide Supraparticle Powders with Functional Additives for Biomedical Additive Manufacturing. Advanced Functional Materials, 2022, 32, .	17.1	7
132	Borate Bioactive Glasses (BBG): Bone Regeneration, Wound Healing Applications, and Future Directions. ACS Applied Bio Materials, 2022, 5, 3608-3622.	4.9	91
133	The interplay of collagen/bioactive glass nanoparticle coatings and electrical stimulation regimes distinctly enhanced osteogenic differentiation of human mesenchymal stem cells. Acta Biomaterialia, 2022, 149, 373-386.	9.3	17
134	Impact of Copper-Doped Mesoporous Bioactive Glass Nanospheres on the Polymerisation Kinetics and Shrinkage Stress of Dental Resin Composites. International Journal of Molecular Sciences, 2022, 23, 8195.	4.5	8
135	Zn-Loaded and Calcium Phosphate-Coated Degradable Silica Nanoparticles Can Effectively Promote Osteogenesis in Human Mesenchymal Stem Cells. Nanomaterials, 2022, 12, 2918.	4.2	11
136	Bioactive glass-based fibrous wound dressings. Burns and Trauma, 2022, 10, .	7.9	28
137	Polyaniline based polymers in tissue engineering applications: a review. Progress in Biomedical Engineering, 2022, 4, 042004.	7.2	29
138	Influence of Si₃N₄ and CuO Nanoparticles on the Microstructure and Properties of Multiphase Graphite Oxide/Hydroxyapatite/Sodium Alginate Coatings Obtained By Electrophoretic Deposition on Titanium Alloy. Journal of the Electrochemical Society, 2022, 169, 092524.	3.1	5
139	Using Copper-Doped Mesoporous Bioactive Glass Nanospheres to Impart Anti-Bacterial Properties to Dental Composites. Pharmaceutics, 2022, 14, 2241.	5.2	8
140	Effect of Boron-Doped Mesoporous Bioactive Glass Nanoparticles on C2C12 Cell Viability and Differentiation: Potential for Muscle Tissue Application. ACS Biomaterials Science and Engineering, 2022, 8, 5273-5283.	5.5	25
141	Influence of Copper-Strontium Co-Doping on Bioactivity, Cytotoxicity and Antibacterial Activity of Mesoporous Bioactive Glass. Gels, 2022, 8, 743.	4.9	19
142	Surface Modification of 3D-Printed PCL/BG Composite Scaffolds via Mussel-Inspired Polydopamine and Effective Antibacterial Coatings for Biomedical Applications. Materials, 2022, 15, 8289.	2.9	8
143	Poly(Glycerol Succinate) as Coating Material for 1393 Bioactive Glass Porous Scaffolds for Tissue Engineering Applications. Polymers, 2022, 14, 5028.	4.7	9
144	The Mechanical, Thermal, and Chemical Properties of PLA-Mg Filaments Produced via a Colloidal Route for Fused-Filament Fabrication. Polymers, 2022, 14, 5414.	4.7	7

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145	Fabrication and characterization of Agâ€•and Gaâ€•doped mesoporous glassâ€•coated scaffolds based on natural marine sponges with improved mechanical properties. Journal of Biomedical Materials Research - Part A, 2021, 109, 1309-1327.	4.3	10
146	Electrophoretic deposition of carbon nanotubes: recent progress and remaining challenges. International Materials Reviews, 2021, 66, 533-562.	18.1	68
147	Effect of manganese, zinc, and copper on the biological and osteogenic properties of mesoporous bioactive glass nanoparticles. Journal of Biomedical Materials Research - Part A, 2021, 109, 1457-1467.	4.3	50
148	In-vitro mechanical and biological evaluation of novel zirconia reinforced bioglass scaffolds for bone repair. Journal of the Mechanical Behavior of Biomedical Materials, 2021, 114, 104164.	3.4	25
149	Bioactive and Biodegradable Polymer-Based Composites. , 2021, , 674-700.		3
150	Sponge-derived natural bioactive glass microspheres with self-assembled surface channel arrays opening into a hollow core for bone tissue and controlled drug release applications. Chemical Engineering Journal, 2021, 407, 126667.	11.9	20
151	Production of a novel poly(É›â€•caprolactone)â€•methylcellulose electrospun wound dressing by incorporating bioactive glass and Manuka honey. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2021, 109, 180-192.	3.6	47
152	Crystallization study of solâ€“gel derived 13-93 bioactive glass powder. Journal of the European Ceramic Society, 2021, 41, 1695-1706.	6.2	22
153	Preparation and characterization of sintered bioactive borate glass tape. Materials Letters, 2021, 282, 128843.	2.6	14
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