

# Aldo R Boccaccini

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

1,235  
papers

53,073  
citations

101  
h-index

181  
g-index

1,309  
ext. papers

60,587  
ext. citations

5.3  
avg, IF

8.29  
L-index

#	Paper	IF	Citations
1235	Injectable bone cements: What benefits the combination of calcium phosphates and bioactive glasses could bring?. <i>Bioactive Materials</i> , <b>2023</b> , 19, 217-236	16.7	2
1234	Gallium containing bioactive materials: A review of anticancer, antibacterial, and osteogenic properties.. <i>Bioactive Materials</i> , <b>2022</b> , 17, 125-146	16.7	2
1233	Scaffold-Mediated Immunoengineering as Innovative Strategy for Tendon Regeneration.. <i>Cells</i> , <b>2022</b> , 11,	7.9	2
1232	Cerium-Containing Bioactive Glasses Promote In Vitro Lymphangiogenesis.. <i>Pharmaceutics</i> , <b>2022</b> , 14,	6.4	1
1231	3D Bioprinting of Multifunctional Dynamic Nanocomposite Bioinks Incorporating Cu-Doped Mesoporous Bioactive Glass Nanoparticles for Bone Tissue Engineering.. <i>Small</i> , <b>2022</b> , e2104996	11	5
1230	Recent developments in electrophoretic deposition (EPD) of antibacterial coatings for biomedical applications - A review. <i>Current Opinion in Biomedical Engineering</i> , <b>2022</b> , 21, 100367	4.4	2
1229	A Self-Assembled Matrix System for Cell-Bioengineering Applications in Different Dimensions, Scales, and Geometries.. <i>Small</i> , <b>2022</b> , e2104758	11	1
1228	3D Hydrogel-based microcapsules as an in vitro model to study tumorigenicity, cell migration and drug resistance.. <i>Acta Biomaterialia</i> , <b>2022</b> ,	10.8	2
1227	Myocardial tissue engineering <b>2022</b> , 409-457		
1226	Bioactive glasses and ceramics for tissue engineering <b>2022</b> , 111-178		1
1225	Mapping the elemental and crystalline phase distribution in Cu <sup>2+</sup> doped 45S5 bioactive glass upon crystallization. <i>CrystEngComm</i> , <b>2022</b> , 24, 284-293	3.3	
1224	Nanocomposite electrospun fibers of poly( $\epsilon$ -caprolactone)/bioactive glass with shape memory properties.. <i>Bioactive Materials</i> , <b>2022</b> , 11, 230-239	16.7	2
1223	Synthesis and characterization of a collagen-based composite material containing selenium nanoparticles.. <i>Journal of Biomaterials Applications</i> , <b>2022</b> , 8853282211073731	2.9	
1222	Sol-gel bioactive glass containing biomaterials for restorative dentistry: A review.. <i>Dental Materials</i> , <b>2022</b> ,	5.7	4
1221	Relation between chemical composition, morphology, and microstructure of poly(ether ether ketone)/reduced graphene oxide nanocomposite coatings obtained by electrophoretic deposition. <i>Journal of Materials Science</i> , <b>2022</b> , 57, 5839-5854	4.3	0
1220	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. <i>Bioprinting</i> , <b>2022</b> , 26, e00200	7	1
1219	Bioactive glass selectively promotes cytotoxicity towards giant cell tumor of bone derived neoplastic stromal cells and induces MAPK signalling dependent autophagy.. <i>Bioactive Materials</i> , <b>2022</b> , 15, 456-468	16.7	1

1218	Electrospun fibers of poly (lactic acid) containing bioactive glass and magnesium oxide nanoparticles for bone tissue regeneration.. <i>International Journal of Biological Macromolecules</i> , <b>2022</b> , 210, 324-336	7.9	2
1217	Organic solvent-free synthesis of dendritic mesoporous bioactive glass nanoparticles with remineralization capability. <i>Materials Letters</i> , <b>2022</b> , 320, 132366	3.3	0
1216	Hyperelastic parameter identification of human articular cartilage and substitute materials. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , <b>2022</b> , 105292	4.1	0
1215	3D printed gelatin/decellularized bone composite scaffolds for bone tissue engineering: Fabrication, characterization and cytocompatibility study. <i>Materials Today Bio</i> , <b>2022</b> , 100309	9.9	1
1214	Nature-Derived and Synthetic Additives to poly( $\epsilon$ -Caprolactone) Nanofibrous Systems for Biomedicine; an Updated Overview.. <i>Frontiers in Chemistry</i> , <b>2021</b> , 9, 809676	5	3
1213	Preliminary Studies for One-Step Fabrication of Metallic Iron-Based Coatings on Magnesium as Temporary Protection in Biodegradable Medical Application. <i>Frontiers in Materials</i> , <b>2021</b> , 8,	4	1
1212	Effect of glycerol and H <sub>3</sub> PO <sub>4</sub> on the bioactivity and degradability of rod-like SBA-15 particles with active surface for bone tissue engineering applications. <i>Microporous and Mesoporous Materials</i> , <b>2021</b> , 329, 111543	5.3	1
1211	An In Vitro Evaluation of the Biological and Osteogenic Properties of Magnesium-Doped Bioactive Glasses for Application in Bone Tissue Engineering. <i>International Journal of Molecular Sciences</i> , <b>2021</b> , 22,	6.3	3
1210	Co-culture of BMSCs and HUVECs with simvastatin-loaded gelatin nanosphere/chitosan coating on Mg alloy for osteogenic differentiation and vasculogenesis. <i>International Journal of Biological Macromolecules</i> , <b>2021</b> ,	7.9	1
1209	Mesoporous Bioactive Glasses in Cancer Diagnosis and Therapy: Stimuli-Responsive, Toxicity, Immunogenicity, and Clinical Translation. <i>Advanced Science</i> , <b>2021</b> , e2102678	13.6	12
1208	Electrophoretic deposition, microstructure and properties of multicomponent sodium alginate-based coatings incorporated with graphite oxide and hydroxyapatite on titanium biomaterial substrates. <i>Applied Surface Science</i> , <b>2021</b> , 575, 151688	6.7	0
1207	Anti-inflammatory and antibacterial activities of cerium-containing mesoporous bioactive glass nanoparticles for drug-free biomedical applications. <i>Materials Today Bio</i> , <b>2021</b> , 12, 100150	9.9	4
1206	3D printing of biomedical materials and devices. <i>Journal of Materials Research</i> , <b>2021</b> , 36, 3713	2.5	2
1205	Facile Synthesis of Gallium (III)-Chitosan Complexes as Antibacterial Biomaterial. <i>Pharmaceutics</i> , <b>2021</b> , 13,	6.4	1
1204	3D printing of alginate dialdehyde-gelatin (ADA-GEL) hydrogels incorporating phytotherapeutic icariin loaded mesoporous SiO-CaO nanoparticles for bone tissue engineering. <i>Materials Science and Engineering C</i> , <b>2021</b> , 131, 112470	8.3	14
1203	Fabrication and characterization of Ag- and Ga-doped mesoporous glass-coated scaffolds based on natural marine sponges with improved mechanical properties. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2021</b> , 109, 1309-1327	5.4	2
1202	Effect of manganese, zinc, and copper on the biological and osteogenic properties of mesoporous bioactive glass nanoparticles. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2021</b> , 109, 1457-1467	5.4	12
1201	Combining bioresorbable polyesters and bioactive glasses: Orthopedic applications of composite implants and bone tissue engineering scaffolds. <i>Applied Materials Today</i> , <b>2021</b> , 22, 100923	6.6	7

1200	Electrically Conductive and 3D-Printable Oxidized Alginate-Gelatin Polypyrrole:PSS Hydrogels for Tissue Engineering. <i>Advanced Healthcare Materials</i> , <b>2021</b> , 10, e2001876	10.1	24
1199	Recent advances on spinel-based protective coatings for solid oxide cell metallic interconnects produced by electrophoretic deposition. <i>Materials Letters</i> , <b>2021</b> , 286, 129229	3.3	5
1198	Influence of the replacement of silica by boron trioxide on the properties of bioactive glass scaffolds. <i>International Journal of Applied Glass Science</i> , <b>2021</b> , 12, 293-312	1.8	2
1197	Essential oils in biomedical applications: Recent progress and future opportunities. <i>Current Opinion in Biomedical Engineering</i> , <b>2021</b> , 17, 100261	4.4	5
1196	Neuronal Differentiation from Induced Pluripotent Stem Cell-Derived Neurospheres by the Application of Oxidized Alginate-Gelatin-Laminin Hydrogels. <i>Biomedicines</i> , <b>2021</b> , 9,	4.8	6
1195	Poly(Glycerol Sebacate) in Biomedical Applications-A Review of the Recent Literature. <i>Advanced Healthcare Materials</i> , <b>2021</b> , 10, e2002026	10.1	27
1194	Biomimetic biohybrid nanofibers containing bovine serum albumin as a bioactive moiety for wound dressing. <i>Materials Science and Engineering C</i> , <b>2021</b> , 123, 111965	8.3	6
1193	Influence of random and designed porosities on 3D printed tricalcium phosphate-bioactive glass scaffolds. <i>Additive Manufacturing</i> , <b>2021</b> , 40, 101895-101895	6.1	6
1192	Antibacterial Composite Materials Based on the Combination of Polyhydroxyalkanoates With Selenium and Strontium Co-substituted Hydroxyapatite for Bone Regeneration. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2021</b> , 9, 647007	5.8	5
1191	Impact of Zinc- or Copper-Doped Mesoporous Bioactive Glass Nanoparticles on the Osteogenic Differentiation and Matrix Formation of Mesenchymal Stromal Cells. <i>Materials</i> , <b>2021</b> , 14,	3.5	2
1190	Corrosion behavior of biodegradable metals in two different simulated physiological solutions: Comparison of Mg, Zn and Fe. <i>Corrosion Science</i> , <b>2021</b> , 182, 109278	6.8	25
1189	Synthesis, Characterization, Antibacterial Properties, and In Vitro Studies of Selenium and Strontium Co-Substituted Hydroxyapatite. <i>International Journal of Molecular Sciences</i> , <b>2021</b> , 22,	6.3	4
1188	Glass-Ceramic Materials Obtained by Sintering of Vitreous Powders from Industrial Waste: Production and Properties. <i>Construction Materials</i> , <b>2021</b> , 1, 63-79		1
1187	Integration of Mesoporous Bioactive Glass Nanoparticles and Curcumin into PHBV Microspheres as Biocompatible Composite for Drug Delivery Applications. <i>Molecules</i> , <b>2021</b> , 26,	4.8	4
1186	An organic-inorganic hybrid scaffold with honeycomb-like structures enabled by one-step self-assembly-driven electrospinning. <i>Materials Science and Engineering C</i> , <b>2021</b> , 124, 112079	8.3	3
1185	Propagation-Based Phase Contrast Computed Tomography as a Suitable Tool for the Characterization of Spatial 3D Cell Distribution in Biomaterials. <i>Advanced Engineering Materials</i> , <b>2021</b> , 23, 2001188	3.5	0
1184	Alkali-free processing of advanced open-celled sinter-crystallized glass-ceramics. <i>International Journal of Applied Glass Science</i> , <b>2021</b> , 12, 531-540	1.8	0
1183	Incorporation of Copper-Doped Mesoporous Bioactive Glass Nanospheres in Experimental Dental Composites: Chemical and Mechanical Characterization. <i>Materials</i> , <b>2021</b> , 14,	3.5	6

1182	Cerium and gallium containing mesoporous bioactive glass nanoparticles for bone regeneration: Bioactivity, biocompatibility and antibacterial activity. <i>Materials Science and Engineering C</i> , <b>2021</b> , 124, 112050	8.3	23
1181	International Journal of Applied Glass Science: Special Issue Editorial. <i>International Journal of Applied Glass Science</i> , <b>2021</b> , 12, 459-461	1.8	
1180	3D Spheroids Versus 3D Tumor-Like Microcapsules: Confinement and Mechanical Stress May Lead to the Expression of Malignant Responses in Cancer Cells. <i>Advanced Biology</i> , <b>2021</b> , 5, e2000349		1
1179	Adipogenic, chondrogenic, osteogenic, and antimicrobial features of glass ceramic material supplemented with manganese. <i>Journal of Non-Crystalline Solids</i> , <b>2021</b> , 559, 120709	3.9	3
1178	Fabrication and Characterization of Cinnamaldehyde-Loaded Mesoporous Bioactive Glass Nanoparticles/PHBV-Based Microspheres for Preventing Bacterial Infection and Promoting Bone Tissue Regeneration. <i>Polymers</i> , <b>2021</b> , 13,	4.5	8
1177	Pressure assisted flash sintering of Mn-Co based spinel coatings for solid oxide electrolysis cells (SOECs). <i>Ceramics International</i> , <b>2021</b> , 47, 17804-17808	5.1	2
1176	3D printed poly(hydroxybutyrate-co-hydroxyvalerate)/5S5 bioactive glass composite resorbable scaffolds suitable for bone regeneration. <i>Journal of Materials Research</i> , <b>2021</b> , 36, 4000	2.5	3
1175	Polymer (PCL) fibers with Zn-doped mesoporous bioactive glass nanoparticles for tissue regeneration. <i>International Journal of Applied Glass Science</i> , <b>2021</b> , 12, 588-600	1.8	1
1174	Mn-Co spinel coatings on Crofer 22 APU by electrophoretic deposition: Up scaling, performance in SOFC stack at 850 °C and compositional modifications. <i>Journal of the European Ceramic Society</i> , <b>2021</b> , 41, 4496-4504	6	8
1173	Human Induced Pluripotent Stem Cell-Derived Neural Progenitor Cells Produce Distinct Neural 3D In Vitro Models Depending on Alginate/Gellan Gum/Laminin Hydrogel Blend Properties. <i>Advanced Healthcare Materials</i> , <b>2021</b> , 10, e2100131	10.1	7
1172	Electrophoretically deposited high molecular weight chitosan/bioactive glass composite coatings on WE43 magnesium alloy. <i>Surface and Coatings Technology</i> , <b>2021</b> , 418, 127232	4.4	6
1171	Development of liquid-phase fabrication of nanotube array-based multiferroic nanocomposite film. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 869, 159219	5.7	0
1170	In-vitro mechanical and biological evaluation of novel zirconia reinforced bioglass scaffolds for bone repair. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , <b>2021</b> , 114, 104164	4.1	12
1169	Bioactive and Biodegradable Polymer-Based Composites <b>2021</b> , 674-700		1
1168	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. <i>Chemical Engineering Journal</i> , <b>2021</b> , 407, 126667	14.7	4
1167	Production of a novel poly( $\epsilon$ -caprolactone)-methylcellulose electrospun wound dressing by incorporating bioactive glass and Manuka honey. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , <b>2021</b> , 109, 180-192	3.5	20
1166	Crystallization study of sol-gel derived 13-93 bioactive glass powder. <i>Journal of the European Ceramic Society</i> , <b>2021</b> , 41, 1695-1706	6	4
1165	Preparation and characterization of sintered bioactive borate glass tape. <i>Materials Letters</i> , <b>2021</b> , 282, 128843	3.3	1

1164	Hybrid gelatin/oxidized chondroitin sulfate hydrogels incorporating bioactive glass nanoparticles with enhanced mechanical properties, mineralization, and osteogenic differentiation. <i>Bioactive Materials</i> , <b>2021</b> , 6, 890-904	16.7	31
1163	Bioactive glass variants for tissue engineering: From the macro- to the nanoscale <b>2021</b> , 353-373		
1162	Porous bioactive glass micro- and nanospheres with controlled morphology: developments, properties and emerging biomedical applications. <i>Materials Horizons</i> , <b>2021</b> , 8, 300-335	14.4	21
1161	Antibacterial, pro-angiogenic and pro-osteointegrative zein-bioactive glass/copper based coatings for implantable stainless steel aimed at bone healing. <i>Bioactive Materials</i> , <b>2021</b> , 6, 1479-1490	16.7	22
1160	Hydroxyapatite/sodium alginate coatings electrophoretically deposited on titanium substrates: microstructure and properties. <i>Applied Surface Science</i> , <b>2021</b> , 540, 148353	6.7	13
1159	Potential of Laponite $\square$ incorporated oxidized alginate-gelatin (ADA-GEL) composite hydrogels for extrusion-based 3D printing. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , <b>2021</b> , 109, 1090-1104	3.5	9
1158	Electrophoretic deposition of ferulic acid loaded bioactive glass/chitosan as antibacterial and bioactive composite coatings. <i>Surface and Coatings Technology</i> , <b>2021</b> , 405, 126657	4.4	10
1157	Cellular Response to Sol-Gel Hybrid Materials Releasing Boron and Calcium Ions. <i>ACS Biomaterials Science and Engineering</i> , <b>2021</b> , 7, 491-506	5.5	3
1156	The Effect of Electrophoretic Deposition Parameters on the Microstructure and Adhesion of Zein Coatings to Titanium Substrates. <i>Materials</i> , <b>2021</b> , 14,	3.5	5
1155	Glass and Glass-Ceramic Matrix Composites for Advanced Applications: Part I: Properties and Manufacturing Technologies <b>2021</b> , 277-287		
1154	Degradable magnesium implants: improving bioactive and antibacterial performance by designed hybrid coatings. <i>Journal of Materials Research</i> , <b>2021</b> , 36, 443-458	2.5	2
1153	Manuka Honey and Zein Coatings Impart Bioactive Glass Bone Tissue Scaffolds Antibacterial Properties and Superior Mechanical Properties. <i>Frontiers in Materials</i> , <b>2021</b> , 7,	4	6
1152	Hemp Fiber Reinforced Red Mud/Fly Ash Geopolymer Composite Materials: Effect of Fiber Content on Mechanical Strength. <i>Materials</i> , <b>2021</b> , 14,	3.5	7
1151	Mechanical properties of cell- and microgel bead-laden oxidized alginate-gelatin hydrogels. <i>Biomaterials Science</i> , <b>2021</b> , 9, 3051-3068	7.4	7
1150	Glass and Glass-Ceramic Matrix Composites for Advanced Applications: Part II: Applications <b>2021</b> , 288-303		
1149	Multifunctional stratified composite coatings by electrophoretic deposition and RF co-sputtering for orthopaedic implants. <i>Journal of Materials Science</i> , <b>2021</b> , 56, 7920-7935	4.3	7
1148	Protein Adsorption on SiO-CaO Bioactive Glass Nanoparticles with Controllable Ca Content. <i>Nanomaterials</i> , <b>2021</b> , 11,	5.4	2
1147	Differential Responses to Bioink-Induced Oxidative Stress in Endothelial Cells and Fibroblasts. <i>International Journal of Molecular Sciences</i> , <b>2021</b> , 22,	6.3	4

1146	Fabrication of Quasi-2D Shape-Tailored Microparticles using Wettability Contrast-Based Platforms. <i>Advanced Materials</i> , <b>2021</b> , 33, e2007695	24	5
1145	Manganese-Cobalt Based Spinel Coatings Processed by Electrophoretic Deposition Method: The Influence of Sintering on Degradation Issues of Solid Oxide Cell Oxygen Electrodes at 750 °C. <i>Materials</i> , <b>2021</b> , 14,	3.5	4
1144	Electrophoretic deposition of composite coatings based on alginate matrix/45S5 bioactive glass particles doped with B, Zn or Sr. <i>Surface and Coatings Technology</i> , <b>2021</b> , 418, 127183	4.4	2
1143	Multi-functional silica-based mesoporous materials for simultaneous delivery of biologically active ions and therapeutic biomolecules. <i>Acta Biomaterialia</i> , <b>2021</b> , 129, 1-17	10.8	26
1142	Advanced ADA-GEL bioink for bioprinted artificial cancer models. <i>Bioprinting</i> , <b>2021</b> , 23, e00145	7	6
1141	Immunomodulatory bioactive glasses for tissue regeneration. <i>Acta Biomaterialia</i> , <b>2021</b> , 133, 168-186	10.8	8
1140	Morphological and mechanical characterization of chitosan/gelatin/silica-gentamicin/bioactive glass coatings on orthopaedic metallic implant materials. <i>Thin Solid Films</i> , <b>2021</b> , 732, 138780	2.2	8
1139	Selective and caspase-independent cytotoxicity of bioactive glasses towards giant cell tumor of bone derived neoplastic stromal cells but not to bone marrow derived stromal cells. <i>Biomaterials</i> , <b>2021</b> , 275, 120977	15.6	3
1138	Accelerated bioactive behavior of Nagelschmidite bioceramics: Mimicking the nano and microstructural aspects of biological mineralization. <i>Journal of the European Ceramic Society</i> , <b>2021</b> , 41, 7921-7921	6	
1137	Effect of buffer in simulated body fluid on morphology and crystallinity of hydroxyapatite precipitated on 45S5 bioactive glass-derived glass/ceramic scaffolds: comparison of Good's buffer systems and TRIS. <i>Materials Today Chemistry</i> , <b>2021</b> , 21, 100527	6.2	0
1136	Deepening our understanding of bioactive glass crystallization using TEM and 3D nano-CT. <i>Journal of the European Ceramic Society</i> , <b>2021</b> , 41, 4958-4969	6	2
1135	Molecular Changes Induced in Melanoma by Cell Culturing in 3D Alginate Hydrogels. <i>Cancers</i> , <b>2021</b> , 13,	6.6	2
1134	Antibacterial and antioxidant activity of cinnamon essential oil-laden 45S5 bioactive glass/soy protein composite scaffolds for the treatment of bone infections and oxidative stress. <i>Materials Science and Engineering C</i> , <b>2021</b> , 128, 112320	8.3	1
1133	Deposition of bioactive gelatin coatings on porous titanium: Influence of processing parameters, size and pore morphology. <i>Surface and Coatings Technology</i> , <b>2021</b> , 421, 127366	4.4	4
1132	Polymer-Derived Biosilicate-like Glass-Ceramics: Engineering of Formulations and Additive Manufacturing of Three-Dimensional Scaffolds. <i>Materials</i> , <b>2021</b> , 14,	3.5	1
1131	A shelf-life study of silica- and carbon-based mesoporous materials. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2021</b> , 101, 205-213	6.3	2
1130	Development of alginate dialdehyde-gelatin based bioink with methylcellulose for improving printability. <i>Materials Science and Engineering C</i> , <b>2021</b> , 128, 112336	8.3	1
1129	Physico-chemical modification of gelatine for the improvement of 3D printability of oxidized alginate-gelatin hydrogels towards cartilage tissue engineering. <i>Materials and Design</i> , <b>2021</b> , 208, 109877	8.1	13

1128	Random and aligned electrospun poly( $\epsilon$ -caprolactone) (PCL)/poly(1,8-octanediol-co-citrate) (POC) fiber mats for cardiac tissue engineering using benign solvents. <i>European Polymer Journal</i> , <b>2021</b> , 160, 110772	5.2	2
1127	Synthesis and Characterization of Mesoporous Mg- and Sr-Doped Nanoparticles for Moxifloxacin Drug Delivery in Promising Tissue Engineering Applications. <i>International Journal of Molecular Sciences</i> , <b>2021</b> , 22,	6.3	11
1126	Bioactive glasses incorporating less-common ions to improve biological and physical properties.. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2021</b> , 33, 3	4.5	6
1125	A New Generation of Electrospun Fibers Containing Bioactive Glass Particles for Wound Healing. <i>Materials</i> , <b>2020</b> , 13,	3.5	8
1124	14-3-3 $\beta$ -protein-loaded 3D hydrogels favor osteogenesis. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2020</b> , 31, 105	4.5	4
1123	Up-Cycling of Iron-Rich Inorganic Waste in Functional Glass-Ceramics. <i>Minerals (Basel, Switzerland)</i> , <b>2020</b> , 10, 959	2.4	1
1122	Functional behavior of chitosan/gelatin/silica-gentamicin coatings by electrophoretic deposition on surgical grade stainless steel. <i>Materials Science and Engineering C</i> , <b>2020</b> , 115, 111062	8.3	13
1121	Shape Matters: Crystal Morphology and Surface Topography Alter Bioactivity of Bioceramics in Simulated Body Fluid. <i>Advanced Engineering Materials</i> , <b>2020</b> , 22, 2000044	3.5	2
1120	Polymer-Bioactive Glass Composite Filaments for 3D Scaffold Manufacturing by Fused Deposition Modeling: Fabrication and Characterization. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2020</b> , 8, 552	5.8	27
1119	Nanocomposite coatings obtained by electrophoretic co-deposition of poly(etheretherketone)/graphene oxide suspensions. <i>Journal of Materials Science</i> , <b>2020</b> , 55, 8881-8899	4.3	9
1118	Incorporation of Boron in Mesoporous Bioactive Glass Nanoparticles Reduces Inflammatory Response and Delays Osteogenic Differentiation. <i>Particle and Particle Systems Characterization</i> , <b>2020</b> , 37, 2000054	3.1	14
1117	3D printed oxidized alginate-gelatin bioink provides guidance for C2C12 muscle precursor cell orientation and differentiation via shear stress during bioprinting. <i>Biofabrication</i> , <b>2020</b> , 12, 045005	10.5	35
1116	Preconditioning of Bioactive Glasses before Introduction to Static Cell Culture: What Is Really Necessary?. <i>Methods and Protocols</i> , <b>2020</b> , 3,	2.5	13
1115	Zein-Based Electrospun Fibers Containing Bioactive Glass with Antibacterial Capabilities. <i>Macromolecular Bioscience</i> , <b>2020</b> , 20, e2000059	5.5	9
1114	4D Biofabrication of fibrous artificial nerve graft for neuron regeneration. <i>Biofabrication</i> , <b>2020</b> , 12, 035027.5	7.5	18
1113	Optimization of cell seeding on electrospun PCL-silk fibroin scaffolds. <i>European Polymer Journal</i> , <b>2020</b> , 134, 109838	5.2	9
1112	3D printing and characterization of human nasoseptal chondrocytes laden dual crosslinked oxidized alginate-gelatin hydrogels for cartilage repair approaches. <i>Materials Science and Engineering C</i> , <b>2020</b> , 116, 111189	8.3	24
1111	Comparison of the Influence of 45S5 and Cu-Containing 45S5 Bioactive Glass (BG) on the Biological Properties of Novel Polyhydroxyalkanoate (PHA)/BG Composites. <i>Materials</i> , <b>2020</b> , 13,	3.5	5



1110	Effects of Medium pH and Preconditioning Treatment on Protein Adsorption on 45S5 Bioactive Glass Surfaces. <i>Advanced Materials Interfaces</i> , <b>2020</b> , 7, 2000420	4.6	6
1109	Improving alginate printability for biofabrication: establishment of a universal and homogeneous pre-crosslinking technique. <i>Biofabrication</i> , <b>2020</b> , 12, 045004	10.5	38
1108	Electrophoretic Deposition and Characterization of Functional Coatings Based on an Antibacterial Gallium (III)-Chitosan Complex. <i>Coatings</i> , <b>2020</b> , 10, 483	2.9	9
1107	Cell-laden alginate dialdehyde-gelatin hydrogels formed in 3D printed sacrificial gel. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2020</b> , 31, 31	4.5	19
1106	Modulation of neuronal cell affinity of composite scaffolds based on polyhydroxyalkanoates and bioactive glasses. <i>Biomedical Materials (Bristol)</i> , <b>2020</b> , 15, 045024	3.5	9
1105	Bioactive Glass (BG) ICIE16 Shows Promising Osteogenic Properties Compared to Crystallized 45S5-BG. <i>International Journal of Molecular Sciences</i> , <b>2020</b> , 21,	6.3	16
1104	Optimization of Porcine Ovarian Follicle Isolation Methods for Better Developmental Potential. <i>Tissue Engineering - Part A</i> , <b>2020</b> , 26, 712-719	3.9	2
1103	Bovine Serum Albumin (BSA)/polyacrylonitrile (PAN) biohybrid nanofibers coated with a biom mineralized calcium deficient hydroxyapatite (HA) shell for wound dressing. <i>Materials Science and Engineering C</i> , <b>2020</b> , 116, 111248	8.3	14
1102	Effect of Cu- and Zn-Doped Bioactive Glasses on the In Vitro Bioactivity, Mechanical and Degradation Behavior of Biodegradable PDLA Scaffolds. <i>Materials</i> , <b>2020</b> , 13,	3.5	7
1101	Advancing bioinks for 3D bioprinting using reactive fillers: A review. <i>Acta Biomaterialia</i> , <b>2020</b> , 113, 1-22	10.8	75
1100	Polycaprolactone Electrospun Fiber Mats Prepared Using Benign Solvents: Blending with Copper(II)-Chitosan Increases the Secretion of Vascular Endothelial Growth Factor in a Bone Marrow Stromal Cell Line. <i>Macromolecular Bioscience</i> , <b>2020</b> , 20, e1900355	5.5	9
1099	A Structural Comparison of Ordered and Non-Ordered Ion Doped Silicate Bioactive Glasses. <i>Materials</i> , <b>2020</b> , 13,	3.5	3
1098	Gallium- and Cerium-Doped Phosphate Glasses with Antibacterial Properties for Medical Applications. <i>Advanced Engineering Materials</i> , <b>2020</b> , 22, 1901577	3.5	13
1097	Antibacterial biohybrid nanofibers for wound dressings. <i>Acta Biomaterialia</i> , <b>2020</b> , 107, 25-49	10.8	203
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1095	Antioxidant mesoporous Ce-doped bioactive glass nanoparticles with anti-inflammatory and pro-osteogenic activities. <i>Materials Today Bio</i> , <b>2020</b> , 5, 100041	9.9	25
1094	Cell Interactions with Size-Controlled Colloidal Monolayers: Toward Improved Coatings in Bone Tissue Engineering. <i>Langmuir</i> , <b>2020</b> , 36, 1793-1803	4	5
1093	Electrophoretic processing of chitosan based composite scaffolds with Nb-doped bioactive glass for bone tissue regeneration. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2020</b> , 31, 43	4.5	10

1092	Osteogenic properties of manganese-doped mesoporous bioactive glass nanoparticles. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2020</b> , 108, 1806-1815	5.4	20
1091	Cu, Zn doped borate bioactive glasses: antibacterial efficacy and dose-dependent in vitro modulation of murine dendritic cells. <i>Biomaterials Science</i> , <b>2020</b> , 8, 2143-2155	7.4	28
1090	Manuka honey and bioactive glass impart methylcellulose foams with antibacterial effects for wound-healing applications. <i>Biomedical Materials (Bristol)</i> , <b>2020</b> , 15, 065002	3.5	13
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1088	Electrophoretic Deposition of Copper(II)-Chitosan Complexes for Antibacterial Coatings. <i>International Journal of Molecular Sciences</i> , <b>2020</b> , 21,	6.3	17
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1085	Rational Design of a Triple-Layered Coaxial Extruder System: and Evaluations Directed Toward Optimizing Cell Viability. <i>International Journal of Bioprinting</i> , <b>2020</b> , 6, 282	6.2	3
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1083	Synthesis and characterization of rubidium-containing bioactive glass nanoparticles. <i>Materials Letters</i> , <b>2020</b> , 273, 127920	3.3	6
1082	Ionically and Enzymatically Dual Cross-Linked Oxidized Alginate Gelatin Hydrogels with Tunable Stiffness and Degradation Behavior for Tissue Engineering. <i>ACS Biomaterials Science and Engineering</i> , <b>2020</b> , 6, 3899-3914	5.5	28
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1080	Silicate-based nanoceramics in regenerative medicine <b>2020</b> , 255-273		5
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1053	Review: Silicon oxycarbide based materials for biomedical applications. <i>Applied Materials Today</i> , <b>2020</b> , 18, 100482	6.6	11
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969	Modification of in vitro degradation behavior of pure iron with ultrasonication treatment: Comparison of two different pseudo-physiological solutions. <i>Materials Science and Engineering C</i> , <b>2019</b> , 95, 275-285	8.3	9
968	Numerical simulation of electrospinning process in commercial and in-house software PAK. <i>Materials Research Express</i> , <b>2019</b> , 6, 025305	1.7	4
967	Electrophoretic deposition of chitosan/gelatin/bioactive glass composite coatings on 316L stainless steel: A design of experiment study. <i>Surface and Coatings Technology</i> , <b>2019</b> , 358, 976-986	4.4	35



966	A new strategy for developing chitosan conversion coating on magnesium substrates for orthopedic implants. <i>Applied Surface Science</i> , <b>2019</b> , 466, 854-862	6.7	29
965	Bioactive Glass Containing Coatings by Electrophoretic Deposition: Development and Applications <b>2019</b> , 3-33		3
964	Gelatin coating increases in vivo bone formation capacity of three-dimensional 45S5 bioactive glass-based crystalline scaffolds. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , <b>2019</b> , 13, 179-190	4.6	5
963	Electric Field-Assisted Orientation of Short Phosphate Glass Fibers on Stainless Steel for Biomedical Applications. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 11529-11538	9.5	22
962	Novel injectable gellan gum hydrogel composites incorporating Zn- and Sr-enriched bioactive glass microparticles: High-resolution X-ray microcomputed tomography, antibacterial and in vitro testing. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , <b>2018</b> , 12, 1313-1326	4.4	22
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959	Solution Precursor Plasma Spraying (SPPS): A novel and simple process to obtain bioactive glass coatings. <i>Materials Letters</i> , <b>2018</b> , 223, 198-202	3.3	12
958	Electrospun Polyhydroxybutyrate/Poly( $\epsilon$ -caprolactone)/Sol-Gel-Derived Silica Hybrid Scaffolds with Drug Releasing Function for Bone Tissue Engineering Applications. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 14540-14548	9.5	43
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956	Formation of Zein/Bioactive Glass Layers Using Electrophoretic Deposition Technique. <i>ECS Transactions</i> , <b>2018</b> , 82, 73-80	1	8
955	Novel geopolymers incorporating red mud and waste glass cullet. <i>Materials Letters</i> , <b>2018</b> , 219, 152-154	3.3	20
954	Electrophoretic Deposition of Lawsonite Loaded Nanoscale Silicate Glass /Chitosan Composite on PEEK/BG Layers. <i>ECS Transactions</i> , <b>2018</b> , 82, 45-50	1	6
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952	PEEK Based Biocompatible Coatings Incorporating h-BN and Bioactive Glass by Electrophoretic Deposition. <i>ECS Transactions</i> , <b>2018</b> , 82, 89-95	1	11
951	Preparation and characterization of mesoporous calcium-doped silica-coated TiO <sub>2</sub> scaffolds and their drug releasing behavior. <i>International Journal of Applied Ceramic Technology</i> , <b>2018</b> , 15, 892-902	2	6
950	Microporous Organic-Inorganic Nanocomposite Coatings on Stainless Steel via Electrophoretic Deposition for Biomedical Applications. <i>ECS Transactions</i> , <b>2018</b> , 82, 25-31	1	5
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943	Cellular behaviour of bone marrow stromal cells on modified Ti-Nb surfaces. <i>Materials and Design</i> , <b>2018</b> , 140, 452-459	8.1	15
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829	Novel ion-doped mesoporous glasses for bone tissue engineering: Study of their structural characteristics influenced by the presence of phosphorous oxide. <i>Journal of Non-Crystalline Solids</i> , <b>2017</b> , 455, 90-97	3.9	33
828	Synthesis of copper-containing bioactive glass nanoparticles using a modified Stober method for biomedical applications. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2017</b> , 150, 159-167	6	47
827	Angiogenic potential of boron-containing bioactive glasses: in vitro study. <i>Journal of Materials Science</i> , <b>2017</b> , 52, 8785-8792	4.3	49
826	Processing and strengthening of 58S bioactive glass-infiltrated titania scaffolds. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2017</b> , 105, 590-600	5.4	16
825	Anti-biofilm properties of bioactive glasses embedding organic active compounds. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2017</b> , 105, 672-679	5.4	26
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819	Influence of dissolution products of a novel Ca-enriched silicate bioactive glass-ceramic on VEGF release from bone marrow stromal cells. <i>Biomedical Glasses</i> , <b>2017</b> , 3,	2.7	6
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811	Biomaterials Produced via Green Electrospinning <b>2017</b> , 149-168		7
810	Nanofiber composites in bone tissue engineering <b>2017</b> , 301-323		4
809	Macro-mesoporous composites containing PEEK and mesoporous diopside as bone implants: characterization, in vitro mineralization, cytocompatibility, and vascularization potential and osteogenesis in vivo. <i>Journal of Materials Chemistry B</i> , <b>2017</b> , 5, 8337-8352	7.3	18
808	A review of hydrogel-based composites for biomedical applications: enhancement of hydrogel properties by addition of rigid inorganic fillers. <i>Journal of Materials Science</i> , <b>2016</b> , 51, 271-310	4.3	173
807	Mesoporous Bioactive Glass-Based Controlled Release Systems <b>2016</b> , 139-159		1
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691	Bioactive Glass-Biopolymer Multilayer Coatings Fabricated by Electrophoretic Deposition Combined with Layer-by-Layer Assembly. <i>Key Engineering Materials</i> , <b>2015</b> , 654, 170-175	0.4	4
690	Fabrication and characterization of zeinBioactive glass scaffolds. <i>Bioinspired, Biomimetic and Nanobiomaterials</i> , <b>2015</b> , 4, 73-78	1.3	7
689	Osteogenic differentiation of umbilical cord and adipose derived stem cells onto highly porous 45S5 Bioglass <sup>®</sup> -based scaffolds. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2015</b> , 103, 1029-37	5.4	28
688	Bioactive electrospun fibers of poly(glycerol sebacate) and poly( $\epsilon$ -caprolactone) for cardiac patch application. <i>Advanced Healthcare Materials</i> , <b>2015</b> , 4, 2012-25	10.1	54
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686	Electrophoretic Deposition of Chitosan/45S5 Bioactive Glass Composite Coatings Doped with Zn and Sr. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2015</b> , 3, 159	5.8	42
685	Engineering of Metabolic Pathways by Artificial Enzyme Channels. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2015</b> , 3, 168	5.8	53
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681	Influence of functionalized halloysite clays (HNT) on selected properties of multiblock (e)PBS-EG copolymer obtained by enzymatic catalysis. <i>Designed Monomers and Polymers</i> , <b>2015</b> , 18, 501-511	3.1	5
680	Designing dental composites with bioactive and bactericidal properties. <i>Materials Science and Engineering C</i> , <b>2015</b> , 52, 267-72	8.3	50
679	45S5Bioglass <sup>®</sup> -based scaffolds coated with selenium nanoparticles or with poly(lactide-co-glycolide)/selenium particles: Processing, evaluation and antibacterial activity. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2015</b> , 132, 208-15	6	65



678	Electrophoretic deposition of ZnO/alginate and ZnO-bioactive glass/alginate composite coatings for antimicrobial applications. <i>Materials Science and Engineering C</i> , <b>2015</b> , 55, 137-44	8.3	48
677	Structure optimisation and biological evaluation of bone scaffolds prepared by co-sintering of silicate and phosphate glasses. <i>Advances in Applied Ceramics</i> , <b>2015</b> , 114, S48-S55	2.3	11
676	GlaCERCo: Glass and Ceramic Composites for High Technology Applications [Marie Curie Initial Training Network. <i>Advances in Applied Ceramics</i> , <b>2015</b> , 114, S1-S2	2.3	1
675	Effect of hybrid polymer coating of Bioglass® foams on mechanical response during tensile loading. <i>Advances in Applied Ceramics</i> , <b>2015</b> , 114, S63-S69	2.3	6
674	Advanced alginate-based hydrogels. <i>Materials Today</i> , <b>2015</b> , 18, 590-591	21.8	17
673	Characterisation of Bioglass based foams developed via replication of natural marine sponges. <i>Advances in Applied Ceramics</i> , <b>2015</b> , 114, S56-S62	2.3	34
672	Waste derived glass ceramic composites prepared by low temperature sintering/sinter-crystallisation. <i>Advances in Applied Ceramics</i> , <b>2015</b> , 114, S17-S25	2.3	13
671	Processing of porous glass ceramics from highly crystallisable industrial wastes. <i>Advances in Applied Ceramics</i> , <b>2015</b> , 114, S11-S16	2.3	12
670	Electrophoretic Deposition of Fe <sub>2</sub> O <sub>3</sub> /Chitosan Nanocomposite Coatings for Functional and Biomedical Applications. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2015</b> , 15, 10149-55	1.3	9
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665	A unified in vitro evaluation for apatite-forming ability of bioactive glasses and their variants. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2015</b> , 26, 115	4.5	203
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