Aldo R Boccaccini

List of Publications by Citations

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	Biodegradable and bioactive porous polymer/inorganic composite scaffolds for bone tissue engineering. *Biomaterials*, **2006**, 27, 3413-31	15.6	2998
1234	A review of the biological response to ionic dissolution products from bioactive glasses and glass-ceramics. *Biomaterials*, **2011**, 32, 2757-74	15.6	1732
1233	45S5 Bioglass-derived glass-ceramic scaffolds for bone tissue engineering. *Biomaterials*, **2006**, 27, 2414-25	15.6	971
1232	Biomedical coatings on magnesium alloys - a review. *Acta Biomaterialia*, **2012**, 8, 2442-55	10.8	876
1231	Bioactive Glass and Glass-Ceramic Scaffolds for Bone Tissue Engineering. *Materials*, **2010**, 3, 3867-3910	3.5	669
1230	Electrophoretic deposition of carbon nanotubes. *Carbon*, **2006**, 44, 3149-3160	10.4	544
1229	Electrophoretic deposition: From traditional ceramics to nanotechnology. *Journal of the European Ceramic Society*, **2008**, 28, 1353-1367	6	533
1228	Electrophoretic deposition of biomaterials. *Journal of the Royal Society Interface*, **2010**, 7 Suppl 5, S581-613	4.1	463
1227	Effect of bioactive glasses on angiogenesis: a review of in vitro and in vivo evidences. *Tissue Engineering - Part B: Reviews*, **2010**, 16, 199-207	7.9	455
1226	Application of electrophoretic and electrolytic deposition techniques in ceramics processing. *Current Opinion in Solid State and Materials Science*, **2002**, 6, 251-260	12	417
1225	Bone tissue engineering therapeutics: controlled drug delivery in three-dimensional scaffolds. *Journal of the Royal Society Interface*, **2010**, 7, 209-27	4.1	395
1224	Characterisation of a soft elastomer poly(glycerol sebacate) designed to match the mechanical properties of myocardial tissue. *Biomaterials*, **2008**, 29, 47-57	15.6	385
1223	Polymer/bioactive glass nanocomposites for biomedical applications: A review. *Composites Science and Technology*, **2010**, 70, 1764-1776	8.6	384
1222	Thermal plasma technology for the treatment of wastes: a critical review. *Journal of Hazardous Materials*, **2009**, 161, 614-26	12.8	342
1221	Bioactive glasses beyond bone and teeth: emerging applications in contact with soft tissues. *Acta Biomaterialia*, **2015**, 13, 1-15	10.8	332
1220	Synthesis, properties and biomedical applications of poly(glycerol sebacate) (PGS): A review. *Progress in Polymer Science*, **2012**, 37, 1051-1078	29.6	324
1219	Recent progress in inorganic and composite coatings with bactericidal capability for orthopaedic applications. *Nanomedicine: Nanotechnology, Biology, and Medicine*, **2011**, 7, 22-39	6	324

1218	Glass-ceramics: Their production from wastes□A Review. *Journal of Materials Science*, **2006**, 41, 733-761	4.3	324
1217	Development and in vitro characterisation of novel bioresorbable and bioactive composite materials based on polylactide foams and Bioglass for tissue engineering applications. *Biomaterials*, **2002**, 23, 3871-8	15.6	314
1216	Polyhydroxyalkanoate (PHA)/inorganic phase composites for tissue engineering applications. *Biomacromolecules*, **2006**, 7, 2249-58	6.9	309
1215	Ceramic matrix composites containing carbon nanotubes. *Journal of Materials Science*, **2009**, 44, 1934-1951	4.3	297
1214	Tissue engineering of electrically responsive tissues using polyaniline based polymers: a review. *Biomaterials*, **2014**, 35, 9068-86	15.6	289
1213	Porous poly(alpha-hydroxyacid)/Bioglass composite scaffolds for bone tissue engineering. I: Preparation and in vitro characterisation. *Biomaterials*, **2004**, 25, 4185-94	15.6	287
1212	Comparison of nanoscale and microscale bioactive glass on the properties of P(3HB)/Bioglass composites. *Biomaterials*, **2008**, 29, 1750-61	15.6	280
1211	Biomaterials in cardiac tissue engineering: Ten years of research survey. *Materials Science and Engineering Reports*, **2008**, 59, 1-37	30.9	275
1210	Polymer-bioceramic composites for tissue engineering scaffolds. *Journal of Materials Science*, **2008**, 43, 4433-4442	4.3	266
1209	Metallic ions as therapeutic agents in tissue engineering scaffolds: an overview of their biological applications and strategies for new developments. *Journal of the Royal Society Interface*, **2012**, 9, 401-19	4.1	265
1208	Development and characterisation of silver-doped bioactive glass-coated sutures for tissue engineering and wound healing applications. *Biomaterials*, **2004**, 25, 1319-29	15.6	258
1207	Assessment of polyglycolic acid mesh and bioactive glass for soft-tissue engineering scaffolds. *Biomaterials*, **2004**, 25, 5857-66	15.6	255
1206	Fabrication of alginate-gelatin crosslinked hydrogel microcapsules and evaluation of the microstructure and physico-chemical properties. *Journal of Materials Chemistry B*, **2014**, 2, 1470-1482	7.3	250
1205	Regenerating bone with bioactive glass scaffolds: A review of in vivo studies in bone defect models. *Acta Biomaterialia*, **2017**, 62, 1-28	10.8	250
1204	Bioresorbable and bioactive polymer/Bioglass□ composites with tailored pore structure for tissue engineering applications. *Composites Science and Technology*, **2003**, 63, 2417-2429	8.6	248
1203	PDLLA/Bioglass composites for soft-tissue and hard-tissue engineering: an in vitro cell biology assessment. *Biomaterials*, **2004**, 25, 3013-21	15.6	246
1202	Medium chain length polyhydroxyalkanoates, promising new biomedical materials for the future. *Materials Science and Engineering Reports*, **2011**, 72, 29-47	30.9	242
1201	Bioactive composite materials for tissue engineering scaffolds. *Expert Review of Medical Devices*, **2005**, 2, 303-17	3.5	228

1200	In vitro differentiation and in vivo mineralization of osteogenic cells derived from human embryonic stem cells. *Tissue Engineering*, **2004**, 10, 1518-25		223
1199	Osteochondral tissue engineering: scaffolds, stem cells and applications. *Journal of Cellular and Molecular Medicine*, **2012**, 16, 2247-70	5.6	211
1198	Strategies for the chemical and biological functionalization of scaffolds for cardiac tissue engineering: a review. *Journal of the Royal Society Interface*, **2015**, 12, 20150254	4.1	204
1197	Structural analysis of bioactive glasses. *Journal of Non-Crystalline Solids*, **2005**, 351, 173-183	3.9	204
1196	Antibacterial biohybrid nanofibers for wound dressings. *Acta Biomaterialia*, **2020**, 107, 25-49	10.8	203
1195	A unified in vitro evaluation for apatite-forming ability of bioactive glasses and their variants. *Journal of Materials Science: Materials in Medicine*, **2015**, 26, 115	4.5	203
1194	Biomedical applications of polyhydroxyalkanoates: an overview of animal testing and in vivo responses. *Expert Review of Medical Devices*, **2006**, 3, 853-68	3.5	199
1193	Applications of graphene electrophoretic deposition. A review. *Journal of Physical Chemistry B*, **2013**, 117, 1502-15	3.4	198
1192	Sintering, crystallisation and biodegradation behaviour of Bioglass-derived glass-ceramics. *Faraday Discussions*, **2007**, 136, 27-44; discussion 107-23	3.6	196
1191	Myocardial tissue engineering: a review. *Journal of Tissue Engineering and Regenerative Medicine*, **2007**, 1, 327-42	4.4	193
1190	Mechanical properties of highly porous PDLLA/Bioglass composite foams as scaffolds for bone tissue engineering. *Acta Biomaterialia*, **2005**, 1, 643-52	10.8	191
1189	Sintering and crystallisation of 45S5 Bioglass® powder. *Journal of the European Ceramic Society*, **2009**, 29, 3299-3306	6	183
1188	Bioactive glasses: Special applications outside the skeletal system. *Journal of Non-Crystalline Solids*, **2016**, 432, 15-30	3.9	178
1187	A review of hydrogel-based composites for biomedical applications: enhancement of hydrogel properties by addition of rigid inorganic fillers. *Journal of Materials Science*, **2016**, 51, 271-310	4.3	173
1186	In vitro evaluation of novel bioactive composites based on Bioglass-filled polylactide foams for bone tissue engineering scaffolds. *Journal of Biomedical Materials Research - Part A*, **2003**, 67, 1401-11	5.4	168
1185	Oxidized Alginate-Based Hydrogels for Tissue Engineering Applications: A Review. *Biomacromolecules*, **2018**, 19, 3-21	6.9	167
1184	Polyhydroxyalkanoates in Gram-positive bacteria: insights from the genera Bacillus and Streptomyces. *Antonie Van Leeuwenhoek*, **2007**, 91, 1-17	2.1	164
1183	Sol-gel processing of bioactive glass nanoparticles: A review. *Advances in Colloid and Interface Science*, **2017**, 249, 363-373	14.3	162

1182	Single-step electrochemical deposition of antimicrobial orthopaedic coatings based on a bioactive glass/chitosan/nano-silver composite system. *Acta Biomaterialia*, **2013**, 9, 7469-79	10.8	162
1181	The use of murine embryonic stem cells, alginate encapsulation, and rotary microgravity bioreactor in bone tissue engineering. *Biomaterials*, **2009**, 30, 499-507	15.6	161
1180	Ambient Temperature Drying Shrinkage and Cracking in Metakaolin-Based Geopolymers. *Journal of the American Ceramic Society*, **2012**, 95, 3270-3277	3.8	159
1179	Electrophoretic deposition of graphene-related materials: A review of the fundamentals. *Progress in Materials Science*, **2016**, 82, 83-117	42.2	158
1178	Accelerated mineralization of dense collagen-nano bioactive glass hybrid gels increases scaffold stiffness and regulates osteoblastic function. *Biomaterials*, **2011**, 32, 8915-26	15.6	157
1177	Development and characterization of novel electrically conductive PANI-PGS composites for cardiac tissue engineering applications. *Acta Biomaterialia*, **2014**, 10, 2434-45	10.8	156
1176	The pro-angiogenic properties of multi-functional bioactive glass composite scaffolds. *Biomaterials*, **2011**, 32, 4096-108	15.6	154
1175	Electrophoretic deposition of chitosan-based composite coatings for biomedical applications: A review. *Progress in Materials Science*, **2019**, 103, 69-108	42.2	154
1174	Fly ash-based geopolymers containing added silicate waste. A review. *Ceramics International*, **2017**, 43, 14545-14551	5.1	152
1173	Porous magnesium-based scaffolds for tissue engineering. *Materials Science and Engineering C*, **2017**, 71, 1253-1266	8.3	145
1172	An elastomeric patch derived from poly(glycerol sebacate) for delivery of embryonic stem cells to the heart. *Biomaterials*, **2010**, 31, 3885-93	15.6	145
1171	Evaluation of fibroblasts adhesion and proliferation on alginate-gelatin crosslinked hydrogel. *PLoS ONE*, **2014**, 9, e107952	3.7	144
1170	Preparation, characterization, and in vitro degradation of bioresorbable and bioactive composites based on Bioglass-filled polylactide foams. *Journal of Biomedical Materials Research - Part A*, **2003**, 66, 335-46	5.4	142
1169	Multi-Walled Carbon Nanotube Coatings Using Electrophoretic Deposition (EPD). *Journal of the American Ceramic Society*, **2005**, 88, 980-982	3.8	142
1168	Poly(3-hydroxybutyrate) multifunctional composite scaffolds for tissue engineering applications. *Biomaterials*, **2010**, 31, 2806-15	15.6	141
1167	Large-scale production and efficient recovery of PHB with desirable material properties, from the newly characterised Bacillus cereus SPV. *Journal of Biotechnology*, **2007**, 132, 251-8	3.7	139
1166	Chondrogenic differentiation of human embryonic stem cells: the effect of the micro-environment. *Tissue Engineering*, **2006**, 12, 1687-97		139
1165	Electrophoretic deposition of carbon nanotube□eramic nanocomposites. *Journal of the European Ceramic Society*, **2010**, 30, 1115-1129	6	137

1164	Magnesium-containing bioactive polycrystalline silicate-based ceramics and glass-ceramics for biomedical applications. *Current Opinion in Solid State and Materials Science*, **2014**, 18, 147-167	12	136
1163	Electrophoretic deposition of chitosan/45S5 Bioglass composite coatings for orthopaedic applications. *Surface and Coatings Technology*, **2011**, 205, 5260-5268	4.4	135
1162	Magnesium-Containing Bioactive Glasses for Biomedical Applications. *International Journal of Applied Glass Science*, **2012**, 3, 221-253	1.8	134
1161	Poly(D,L-lactic acid) coated 45S5 Bioglass-based scaffolds: processing and characterization. *Journal of Biomedical Materials Research - Part A*, **2006**, 77, 445-57	5.4	133
1160	Electrophoretic deposition of bioactive glass/polymer composite coatings with and without HA nanoparticle inclusions for biomedical applications. *Journal of Materials Processing Technology*, **2009**, 209, 1853-1860	5.3	132
1159	Lithography-Based Additive Manufacturing of Cellular Ceramic Structures. *Advanced Engineering Materials*, **2012**, 14, 1052-1058	3.5	128
1158	Myocardial tissue engineering. *British Medical Bulletin*, **2008**, 87, 31-47	5.4	128
1157	Therapeutic inorganic ions in bioactive glasses to enhance bone formation and beyond. *Biomaterials Science*, **2013**, 1, 254-256	7.4	127
1156	Three-dimensional mineralization of dense nanofibrillar collagen-bioglass hybrid scaffolds. *Biomacromolecules*, **2010**, 11, 1470-9	6.9	127
1155	3D printing of electrically conductive hydrogels for tissue engineering and biosensors - A review. *Acta Biomaterialia*, **2020**, 101, 1-13	10.8	126
1154	Electrophoretic deposition of gentamicin-loaded bioactive glass/chitosan composite coatings for orthopaedic implants. *ACS Applied Materials & Interfaces*, **2014**, 6, 8796-806	9.5	125
1153	Electrophoretic deposition of polyetheretherketone (PEEK) and PEEK/Bioglass coatings on NiTi shape memory alloy wires. *Journal of Materials Science*, **2006**, 41, 8152-8159	4.3	120
1152	Glass ceramic seal to join Crofer 22 APU alloy to YSZ ceramic in planar SOFCs. *Journal of the European Ceramic Society*, **2008**, 28, 61-68	6	119
1151	The Electrophoretic Deposition of Inorganic Nanoscaled Materials-A Review-. *Journal of the Ceramic Society of Japan*, **2006**, 114, 1-14		116
1150	Effect of nanoparticulate bioactive glass particles on bioactivity and cytocompatibility of poly(3-hydroxybutyrate) composites. *Journal of the Royal Society Interface*, **2010**, 7, 453-65	4.1	115
1149	Electrophoretic deposition of chitosan. *Materials Letters*, **2009**, 63, 2253-2256	3.3	115
1148	Carbon Nanotube Coatings on Bioglass-Based Tissue Engineering Scaffolds. *Advanced Functional Materials*, **2007**, 17, 2815-2822	15.6	115
1147	Preparation and characterisation of poly(lactide-co-glycolide) (PLGA) and PLGA/Bioglass composite tubular foam scaffolds for tissue engineering applications. *Materials Science and Engineering C*, **2005**, 25, 23-31	8.3	115

1146	Evaluation of an alginate-gelatine crosslinked hydrogel for bioplotting. *Biofabrication*, **2015**, 7, 025001	10.5	113
1145	Characterisation of carbon nanotube films deposited by electrophoretic deposition. *Carbon*, **2009**, 47, 58-67	10.4	111
1144	Effect of iron on the surface, degradation and ion release properties of phosphate-based glass fibres. *Acta Biomaterialia*, **2005**, 1, 553-63	10.8	110
1143	Processing of 45S5 Bioglass by lithography-based additive manufacturing. *Materials Letters*, **2012**, 74, 81-84	3.3	108
1142	Processing and characterization of porous structures from chitosan and starch for tissue engineering scaffolds. *Biomacromolecules*, **2006**, 7, 3345-55	6.9	107
1141	Boron-containing bioactive glasses in bone and soft tissue engineering. *Journal of the European Ceramic Society*, **2018**, 38, 855-869	6	106
1140	Characterization of electrophoretic chitosan coatings on stainless steel. *Materials Letters*, **2012**, 66, 302-304	3.3	105
1139	The relevance of biomaterials to the prevention and treatment of osteoporosis. *Acta Biomaterialia*, **2014**, 10, 1793-805	10.8	103
1138	Fibrous protein-based hydrogels for cell encapsulation. *Biomaterials*, **2014**, 35, 6727-38	15.6	103
1137	Copper-releasing, boron-containing bioactive glass-based scaffolds coated with alginate for bone tissue engineering. *Acta Biomaterialia*, **2012**, 8, 792-801	10.8	103
1136	Biodegradable polyurethane composite scaffolds containing Bioglass for bone tissue engineering. *Composites Science and Technology*, **2010**, 70, 1894-1908	8.6	102
1135	Mechanical properties and bioactivity of porous PLGA/TiO2 nanoparticle-filled composites for tissue engineering scaffolds. *Composites Science and Technology*, **2007**, 67, 1139-1147	8.6	102
1134	Machinability and brittleness of glass-ceramics. *Journal of Materials Processing Technology*, **1997**, 65, 302-304	5.3	99
1133	Bioactive glasses as carriers for bioactive molecules and therapeutic drugs: a review. *Journal of Materials Science: Materials in Medicine*, **2012**, 23, 2317-33	4.5	98
1132	Permeability evaluation of 45S5 Bioglass-based scaffolds for bone tissue engineering. *Journal of Biomechanics*, **2009**, 42, 257-60	2.9	98
1131	Iron and iron-based alloys for temporary cardiovascular applications. *Journal of Materials Science: Materials in Medicine*, **2015**, 26, 138	4.5	97
1130	Titanium dioxide (TiO(2)) nanoparticles filled poly(D,L lactid acid) (PDLLA) matrix composites for bone tissue engineering. *Journal of Materials Science: Materials in Medicine*, **2007**, 18, 1287-98	4.5	97
1129	Bioglass-derived glass-ceramic scaffolds: study of cell proliferation and scaffold degradation in vitro. *Journal of Biomedical Materials Research - Part A*, **2008**, 84, 1049-60	5.4	97

1128	Innovations in electrophoretic deposition: Alternating current and pulsed direct current methods. *Electrochimica Acta*, **2012**, 65, 70-89	6.7	95
1127	In vitro reactivity of Cu doped 45S5 Bioglass® derived scaffolds for bone tissue engineering. *Journal of Materials Chemistry B*, **2013**, 1, 5659-5674	7.3	95
1126	Bioactive glass (type 45S5) nanoparticles: in vitro reactivity on nanoscale and biocompatibility. *Journal of Nanoparticle Research*, **2012**, 14, 1	2.3	95
1125	Production of nepheline/quartz ceramics from geopolymer mortars. *Journal of the European Ceramic Society*, **2013**, 33, 251-258	6	90
1124	Novel bioresorbable and bioactive composites based on bioactive glass and polylactide foams for bone tissue engineering. *Journal of Materials Science: Materials in Medicine*, **2002**, 13, 1207-14	4.5	89
1123	Glass matrix composites from coal flyash and waste glass. *Waste Management*, **1997**, 17, 39-45	8.6	88
1122	Polyhydroxyalkanoate (PHA) biosynthesis from structurally unrelated carbon sources by a newly characterized Bacillus spp. *Journal of Biotechnology*, **2007**, 127, 475-87	3.7	88
1121	Bioresorbable and bioactive composite materials based on polylactide foams filled with and coated by Bioglass particles for tissue engineering applications. *Journal of Materials Science: Materials in Medicine*, **2003**, 14, 443-50	4.5	88
1120	Collagen scaffolds functionalised with copper-eluting bioactive glass reduce infection and enhance osteogenesis and angiogenesis both in vitro and in vivo. *Biomaterials*, **2019**, 197, 405-416	15.6	87
1119	Alginate-based hydrogels with improved adhesive properties for cell encapsulation. *International Journal of Biological Macromolecules*, **2015**, 78, 72-8	7.9	87
1118	Tackling bioactive glass excessive in vitro bioreactivity: Preconditioning approaches for cell culture tests. *Acta Biomaterialia*, **2018**, 75, 3-10	10.8	87
1117	Fabrication and characterization of porous bioceramic composites based on hydroxyapatite and titania. *Materials Chemistry and Physics*, **2007**, 103, 95-100	4.4	87
1116	In vitro and in vivo analysis of macroporous biodegradable poly(D,L-lactide-co-glycolide) scaffolds containing bioactive glass. *Journal of Biomedical Materials Research - Part A*, **2005**, 75, 778-87	5.4	87
1115	Combining collagen and bioactive glasses for bone tissue engineering: a review. *Advanced Healthcare Materials*, **2015**, 4, 176-94	10.1	86
1114	Aging Time and Temperature Effects on the Structure and Bioactivity of Gel-Derived 45S5 Glass-Ceramics. *Journal of the American Ceramic Society*, **2015**, 98, 30-38	3.8	86
1113	Mesoporous silica-based bioactive glasses for antibiotic-free antibacterial applications. *Materials Science and Engineering C*, **2018**, 83, 99-107	8.3	86
1112	Chitosan membranes containing micro or nano-size bioactive glass particles: evolution of biomineralization followed by in situ dynamic mechanical analysis. *Journal of the Mechanical Behavior of Biomedical Materials*, **2013**, 20, 173-83	4.1	85
1111	Nanostructured carbon nanotube/TiO2 composite coatings using electrophoretic deposition (EPD). *Journal of Nanoparticle Research*, **2008**, 10, 99-105	2.3	85

1110	Use of electrophoretic deposition in the processing of fibre reinforced ceramic and glass matrix composites: a review. *Composites Part A: Applied Science and Manufacturing*, **2001**, 32, 997-1006	8.4	85
1109	Behavior of encapsulated MG-63 cells in RGD and gelatine-modified alginate hydrogels. *Tissue Engineering - Part A*, **2014**, 20, 2140-50	3.9	84
1108	Preparation and characterization of vancomycin releasing PHBV coated 45S5 Bioglass -based glass ceramic scaffolds for bone tissue engineering. *Journal of the European Ceramic Society*, **2014**, 34, 505-514	6	83
1107	Composite polymer-bioceramic scaffolds with drug delivery capability for bone tissue engineering. *Expert Opinion on Drug Delivery*, **2013**, 10, 1353-65	8	83
1106	In vitro attachment of Staphylococcus epidermidis to surgical sutures with and without Ag-containing bioactive glass coating. *Journal of Biomaterials Applications*, **2004**, 19, 47-57	2.9	83
1105	Thermally triggered injectable chitosan/silk fibroin/bioactive glass nanoparticle hydrogels for in-situ bone formation in rat calvarial bone defects. *Acta Biomaterialia*, **2019**, 91, 60-71	10.8	81
1104	The role of osteoclasts in bone tissue engineering. *Journal of Tissue Engineering and Regenerative Medicine*, **2015**, 9, 1133-49	4.4	81
1103	Isotopically modified nanoparticles for enhanced detection in bioaccumulation studies. *Environmental Science & Technology*, **2012**, 46, 1216-22	10.3	81
1102	and Biocompatibility of Alginate Dialdehyde/Gelatin Hydrogels with and without Nanoscaled Bioactive Glass for Bone Tissue Engineering Applications. *Materials*, **2014**, 7, 1957-1974	3.5	80
1101	Poly-3-hydroxyoctanoate P(3HO), a medium chain length polyhydroxyalkanoate homopolymer from Pseudomonas mendocina. *Biomacromolecules*, **2011**, 12, 2126-36	6.9	80
1100	Preparation of low melting temperature glass ceramics from municipal waste incineration fly ash. *Fuel*, **2009**, 88, 1275-1280	7.1	80
1099	Fabrication and characterization of bioactive and antibacterial composites for dental applications. *Acta Biomaterialia*, **2014**, 10, 3723-32	10.8	79
1098	Mullite (Nextel 720) fibre-reinforced mullite matrix composites exhibiting favourable thermomechanical properties. *Journal of the European Ceramic Society*, **2002**, 22, 2333-2342	6	79
1097	Electrospun Polyhydroxybutyrate/Poly(caprolactone)/58S Sol-Gel Bioactive Glass Hybrid Scaffolds with Highly Improved Osteogenic Potential for Bone Tissue Engineering. *ACS Applied Materials & Interfaces*, **2016**, 8, 17098-108	9.5	78
1096	Surface functionalization of Bioglass-derived porous scaffolds. *Acta Biomaterialia*, **2007**, 3, 551-62	10.8	78
1095	Versatile Production of Poly(Epsilon-Caprolactone) Fibers by Electrospinning Using Benign Solvents. *Nanomaterials*, **2016**, 6,	5.4	78
1094	Biomimetic poly(glycerol sebacate) (PGS) membranes for cardiac patch application. *Materials Science and Engineering C*, **2013**, 33, 3677-87	8.3	77
1093	Structural and functional thick ceramic coatings by electrophoretic deposition. *Surface and Coatings Technology*, **2005**, 191, 303-310	4.4	77

1092	Cobalt-releasing 1393 bioactive glass-derived scaffolds for bone tissue engineering applications. *ACS Applied Materials & Interfaces*, **2014**, 6, 2865-77	9.5	76
1091	Bioglass -based scaffolds incorporating polycaprolactone and chitosan coatings for controlled vancomycin delivery. *Ceramics International*, **2013**, 39, 7517-7522	5.1	76
1090	Multi-functional P(3HB) microsphere/45S5 Bioglass-based composite scaffolds for bone tissue engineering. *Acta Biomaterialia*, **2010**, 6, 2773-86	10.8	76
1089	Ceramic processing of incinerator bottom ash. *Waste Management*, **2003**, 23, 907-16	8.6	76
1088	Crystallization kinetic of glass particles prepared from a mixture of coal ash and soda-lime cullet glass. *Journal of Non-Crystalline Solids*, **2004**, 333, 187-193	3.9	76
1087	Advancing bioinks for 3D bioprinting using reactive fillers: A review. *Acta Biomaterialia*, **2020**, 113, 1-22	10.8	75
1086	Development and characterization of magnetic iron oxide nanoparticles with a cisplatin-bearing polymer coating for targeted drug delivery. *International Journal of Nanomedicine*, **2014**, 9, 3659-76	7.3	75
1085	A new approach for the Young's modulus-porosity correlation of ceramic materials. *Ceramics International*, **1997**, 23, 239-245	5.1	75
1084	Glass-ceramics from filter dusts from waste incinerators. *Ceramics International*, **1995**, 21, 231-235	5.1	75
1083	Designing Porous Bone Tissue Engineering Scaffolds with Enhanced Mechanical Properties from Composite Hydrogels Composed of Modified Alginate, Gelatin, and Bioactive Glass. *ACS Biomaterials Science and Engineering*, **2016**, 2, 2240-2254	5.5	75
1082	Electroconductive Biohybrid Hydrogel for Enhanced Maturation and Beating Properties of Engineered Cardiac Tissues. *Advanced Functional Materials*, **2018**, 28, 1803951	15.6	75
1081	Toughening and functionalization of bioactive ceramic and glass bone scaffolds by biopolymer coatings and infiltration: a review of the last 5 years. *Expert Review of Medical Devices*, **2015**, 12, 93-111	3.5	74
1080	Multifunctional zinc ion doped sol - gel derived mesoporous bioactive glass nanoparticles for biomedical applications. *Bioactive Materials*, **2019**, 4, 312-321	16.7	74
1079	Multiple drug delivery hydrogel system for spinal cord injury repair strategies. *Journal of Controlled Release*, **2012**, 159, 271-80	11.7	74
1078	Nanoscale Bioactive Glasses in Medical Applications. *International Journal of Applied Glass Science*, **2013**, 4, 136-148	1.8	74
1077	Review. Functional glasses and glass-ceramics derived from iron rich waste and combination of industrial residues. *Journal of Non-Crystalline Solids*, **2013**, 365, 63-74	3.9	74
1076	Enhanced differentiation and mineralization of human fetal osteoblasts on PDLLA containing Bioglass composite films in the absence of osteogenic supplements. *Journal of Biomedical Materials Research - Part A*, **2007**, 80, 837-51	5.4	74
1075	Recycling of pre-stabilized municipal waste incinerator fly ash and soda-lime glass into sintered glass-ceramics. *Journal of Cleaner Production*, **2015**, 89, 224-230	10.3	73

1074	Fabrication and characterization of copper(II)-chitosan complexes as antibiotic-free antibacterial biomaterial. *Carbohydrate Polymers*, **2018**, 179, 370-378	10.3	73
1073	Incorporation of bioactive glass nanoparticles in electrospun PCL/chitosan fibers by using benign solvents. *Bioactive Materials*, **2018**, 3, 55-63	16.7	72
1072	Evaluation of angiogenesis of bioactive glass in the arteriovenous loop model. *Tissue Engineering - Part C: Methods*, **2013**, 19, 479-86	2.9	72
1071	Alternating current electrophoretic deposition of antibacterial bioactive glass-chitosan composite coatings. *International Journal of Molecular Sciences*, **2014**, 15, 12231-42	6.3	72
1070	Characterization of carbon nanotube (MWCNT) containing P(3HB)/bioactive glass composites for tissue engineering applications. *Acta Biomaterialia*, **2010**, 6, 735-42	10.8	72
1069	Effect of particle size on hydroxyapatite crystal-induced tumor necrosis factor alpha secretion by macrophages. *Atherosclerosis*, **2008**, 196, 98-105	3.1	72
1068	Air pollution control residues from waste incineration: current UK situation and assessment of alternative technologies. *Waste Management*, **2008**, 28, 2279-92	8.6	72
1067	The electrophoretic deposition of Bioglass□ particles on stainless steel and Nitinol substrates. *Surface and Coatings Technology*, **2006**, 200, 4835-4845	4.4	72
1066	Mechanical properties of biodegradable polymer sutures coated with bioactive glass. *Journal of Materials Science: Materials in Medicine*, **2002**, 13, 843-8	4.5	72
1065	A Composites Approach to Tissue Engineering. *Ceramic Engineering and Science Proceedings*,805-816	0.1	72
1064	Graphene Oxide/Polymer-Based Biomaterials. *Advanced Engineering Materials*, **2017**, 19, 1700627	3.5	71
1063	Surface functionalization of bioactive glasses. *Journal of Biomedical Materials Research - Part A*, **2009**, 90, 981-92	5.4	71
1062	Glass matrix/pyrochlore phase composites for nuclear wastes encapsulation. *Journal of Materials Science*, **2003**, 38, 1597-1604	4.3	71
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