Julian Jones

List of Publications by Citations

224 papers	12,033 citations	58 h-index	106 g-index
235 ext. papers	13,448 ext. citations	5.9 avg, IF	7.07 L-index

#	Paper	IF	Citations
224	Review of bioactive glass: from Hench to hybrids. *Acta Biomaterialia*, **2013**, 9, 4457-86	10.8	1445
223	Optimising bioactive glass scaffolds for bone tissue engineering. *Biomaterials*, **2006**, 27, 964-73	15.6	543
222	Nodule formation and mineralisation of human primary osteoblasts cultured on a porous bioactive glass scaffold. *Biomaterials*, **2004**, 25, 2039-46	15.6	362
221	Bioactive sol-gel foams for tissue repair. *Journal of Biomedical Materials Research Part B*, **2002**, 59, 340-8		340
220	Reprint of: Review of bioactive glass: From Hench to hybrids. *Acta Biomaterialia*, **2015**, 23 Suppl, S53-82	10.8	335
219	In vitro dissolution of melt-derived 45S5 and sol-gel derived 58S bioactive glasses. *Journal of Biomedical Materials Research Part B*, **2002**, 61, 301-11		335
218	Characterization of melt-derived 45S5 and sol-gel-derived 58S bioactive glasses. *Journal of Biomedical Materials Research Part B*, **2001**, 58, 734-40		292
217	Regeneration of trabecular bone using porous ceramics. *Current Opinion in Solid State and Materials Science*, **2003**, 7, 301-307	12	247
216	Extracellular matrix formation and mineralization on a phosphate-free porous bioactive glass scaffold using primary human osteoblast (HOB) cells. *Biomaterials*, **2007**, 28, 1653-63	15.6	234
215	Nanostructure evolution and calcium distribution in sol□gel derived bioactive glass. *Journal of Materials Chemistry*, **2009**, 19, 1276		204
214	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
213	Bioactivity of gel-glass powders in the CaO-SiO2 system: a comparison with ternary (CaO-P2O5-SiO2) and quaternary glasses (SiO2-CaO-P2O5-Na2O). *Journal of Biomedical Materials Research Part B*, **2003**, 66, 110-9		201
212	Differentiation of fetal osteoblasts and formation of mineralized bone nodules by 45S5 Bioglass conditioned medium in the absence of osteogenic supplements. *Biomaterials*, **2009**, 30, 3542-50	15.6	195
211	Silica-Gelatin Hybrids with Tailorable Degradation and Mechanical Properties for Tissue Regeneration. *Advanced Functional Materials*, **2010**, 20, 3835-3845	15.6	179
210	Dose-dependent behavior of bioactive glass dissolution. *Journal of Biomedical Materials Research Part B*, **2001**, 58, 720-6		168
209	Bioactive Glasses: Frontiers and Challenges. *Frontiers in Bioengineering and Biotechnology*, **2015**, 3, 194	5.8	166
208	Non-destructive quantitative 3D analysis for the optimisation of tissue scaffolds. *Biomaterials*, **2007**, 28, 1404-13	15.6	165

207	Spherical bioactive glass particles and their interaction with human mesenchymal stem cells in vitro. *Biomaterials*, **2011**, 32, 1010-8	15.6	156
206	Bioglass and Bioactive Glasses and Their Impact on Healthcare. *International Journal of Applied Glass Science*, **2016**, 7, 423-434	1.8	146
205	Theranostic mesoporous silica nanoparticles biodegrade after pro-survival drug delivery and ultrasound/magnetic resonance imaging of stem cells. *Theranostics*, **2015**, 5, 631-42	12.1	146
204	New trends in bioactive scaffolds: The importance of nanostructure. *Journal of the European Ceramic Society*, **2009**, 29, 1275-1281	6	146
203	Transforming audit technologies: Business risk audit methodologies and the audit field. *Accounting, Organizations and Society*, **2007**, 32, 409-438	3.2	140
202	Factors affecting the structure and properties of bioactive foam scaffolds for tissue engineering. *Journal of Biomedical Materials Research Part B*, **2004**, 68, 36-44		137
201	Hierarchical porous materials for tissue engineering. *Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences*, **2006**, 364, 263-81	3	130
200	Melt-derived bioactive glass scaffolds produced by a gel-cast foaming technique. *Acta Biomaterialia* , **2011**, 7, 1807-16	10.8	123
199	Softening bioactive glass for bone regeneration: sol–gel hybrid materials. *Soft Matter*, **2011**, 7, 5083	3.6	117
198	Analysis of pore interconnectivity in bioactive glass foams using X-ray microtomography. *Scripta Materialia*, **2004**, 51, 1029-1033	5.6	116
197	Influence of strontium for calcium substitution in bioactive glasses on degradation, ion release and apatite formation. *Journal of the Royal Society Interface*, **2012**, 9, 880-9	4.1	114
196	Isothermal grain coarsening of spray formed alloys in the semi-solid state. *Acta Materialia*, **2002**, 50, 2517-2535	8.4	114
195	Rare earth oxides as nanoadditives in 3-D nanocomposite scaffolds for bone regeneration. *Journal of Materials Chemistry*, **2010**, 20, 8912		109
194	Controlling ion release from bioactive glass foam scaffolds with antibacterial properties. *Journal of Materials Science: Materials in Medicine*, **2006**, 17, 989-96	4.5	107
193	Bioactive glass and hybrid scaffolds prepared by sol–gel method for bone tissue engineering. *Advances in Applied Ceramics*, **2005**, 104, 35-42	2.3	105
192	Bioactive Glass Scaffolds for Bone Regeneration. *Elements*, **2007**, 3, 393-399	3.8	103
191	Effect of surfactant concentration and composition on the structure and properties of sol-gel-derived bioactive glass foam scaffolds for tissue engineering. *Journal of Materials Science*, **2003**, 38, 3783-3790	4.3	102
190	Characterizing the hierarchical structures of bioactive sol-gel silicate glass and hybrid scaffolds for bone regeneration. *Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences*, **2012**, 370, 1422-43	3	99

189	Additive manufactured porous titanium structures: Through-process quantification of pore and strut networks. *Journal of Materials Processing Technology*, **2014**, 214, 2706-2715	5.3	95
188	Preconditioned 70S30C bioactive glass foams promote osteogenesis in vivo. *Acta Biomaterialia*, **2013**, 9, 9169-82	10.8	95
187	Chemical characterisation and fabrication of chitosan-silica hybrid scaffolds with 3-glycidoxypropyl trimethoxysilane. *Journal of Materials Chemistry B*, **2014**, 2, 668-680	7.3	89
186	3D Printing of Biocompatible Supramolecular Polymers and their Composites. *ACS Applied Materials & Interfaces*, **2016**, 8, 3115-22	9.5	88
185	Controlling particle size in the Stber process and incorporation of calcium. *Journal of Colloid and Interface Science*, **2016**, 469, 213-223	9.3	87
184	Bioactive glass scaffolds for bone regeneration and their hierarchical characterisation. *Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine*, **2010**, 224, 1373-87	1.7	87
183	Monodispersed bioactive glass submicron particles and their effect on bone marrow and adipose tissue-derived stem cells. *Advanced Healthcare Materials*, **2014**, 3, 115-25	10.1	86
182	Preparation of bioactive glass-polyvinyl alcohol hybrid foams by the sol-gel method. *Journal of Materials Science: Materials in Medicine*, **2005**, 16, 1045-50	4.5	83
181	Supercritical Carbon Dioxide in Water Emulsion-Templated Synthesis of Porous Calcium Alginate Hydrogels. *Advanced Materials*, **2006**, 18, 501-504	24	81
180	Cotton-wool-like bioactive glasses for bone regeneration. *Acta Biomaterialia*, **2014**, 10, 3733-46	10.8	78
179	Biomedical materials for new millennium: perspective on the future. *Materials Science and Technology*, **2001**, 17, 891-900	1.5	76
178	Effect of calcium source on structure and properties of sol-gel derived bioactive glasses. *Langmuir*, **2012**, 28, 17465-76	4	71
177	Hierarchical tailoring of strut architecture to control permeability of additive manufactured titanium implants. *Materials Science and Engineering C*, **2013**, 33, 4055-62	8.3	70
176	A Neutron and X-Ray Diffraction Study of Bioglass with Reverse Monte Carlo Modelling. *Advanced Functional Materials*, **2007**, 17, 3746-3753	15.6	70
175	Synthesis of bioactive class II poly(glutamic acid)/silica hybrids for bone regeneration. *Journal of Materials Chemistry*, **2010**, 20, 8952		67
174	Highly flexible silica/chitosan hybrid scaffolds with oriented pores for tissue regeneration. *Journal of Materials Chemistry B*, **2015**, 3, 7560-7576	7.3	66
173	Application of FTIR and Raman Spectroscopy to Characterisation of Bioactive Materials and Living Cells. *Spectroscopy*, **2003**, 17, 275-288		64
172	In vitro osteogenesis by intracellular uptake of strontium containing bioactive glass nanoparticles. *Acta Biomaterialia*, **2018**, 66, 67-80	10.8	64

171	Quantifying the 3D macrostructure of tissue scaffolds. *Journal of Materials Science: Materials in Medicine*, **2009**, 20, 463-71	4.5	63
170	Highly degradable porous melt-derived bioactive glass foam scaffolds for bone regeneration. *Acta Biomaterialia*, **2017**, 57, 449-461	10.8	62
169	Bioactive silica–poly(γ-glutamic acid) hybrids for bone regeneration: effect of covalent coupling on dissolution and mechanical properties and fabrication of porous scaffolds. *Soft Matter*, **2012**, 8, 4822	3.6	61
168	Laser Spinning of Bioactive Glass Nanofibers. *Advanced Functional Materials*, **2009**, 19, 3084-3090	15.6	61
167	Electrospun silica/PLLA hybrid materials for skeletal regeneration. *Soft Matter*, **2011**, 7, 10241	3.6	58
166	Direct ink writing of highly bioactive glasses. *Journal of the European Ceramic Society*, **2018**, 38, 837-844	6	58
165	Silica–gelatin hybrids for tissue regeneration: inter-relationships between the process variables. *Journal of Sol-Gel Science and Technology*, **2014**, 69, 288-298	2.3	51
164	Bioactivity in silica/poly(γ-glutamic acid) sol-gel hybrids through calcium chelation. *Acta Biomaterialia*, **2013**, 9, 7662-71	10.8	51
163	Hierarchically structured titanium foams for tissue scaffold applications. *Acta Biomaterialia*, **2010**, 6, 4596-604	10.8	51
162	Role of pH and temperature on silica network formation and calcium incorporation into sol–gel derived bioactive glasses. *Journal of Materials Chemistry*, **2012**, 22, 1613-1619		49
161	Evaluation of 3-D bioactive glass scaffolds dissolution in a perfusion flow system with X-ray microtomography. *Acta Biomaterialia*, **2011**, 7, 2637-43	10.8	49
160	Epoxide opening versus silica condensation during sol-gel hybrid biomaterial synthesis. *Chemistry - A European Journal*, **2013**, 19, 7856-64	4.8	48
159	Development and characterization of lithium-releasing silicate bioactive glasses and their scaffolds for bone repair. *Journal of Non-Crystalline Solids*, **2016**, 432, 65-72	3.9	47
158	Human mesenchymal stem cells differentiate into an osteogenic lineage in presence of strontium containing bioactive glass nanoparticles. *Acta Biomaterialia*, **2019**, 90, 373-392	10.8	47
157	Bioactive glass foam scaffolds are remodelled by osteoclasts and support the formation of mineralized matrix and vascular networks in vitro. *Advanced Healthcare Materials*, **2013**, 2, 490-9	10.1	47
156	**2012**,		43
155	Hypoxia inducible factor-stabilizing bioactive glasses for directing mesenchymal stem cell behavior. *Tissue Engineering - Part A*, **2015**, 21, 382-9	3.9	42
154	Poly(γ-glutamic acid)/silica hybrids with calcium incorporated in the silica network by use of a calcium alkoxide precursor. *Chemistry - A European Journal*, **2014**, 20, 8149-60	4.8	41

153	Three-dimensional bioactive glass implants fabricated by rapid prototyping based on CO(2) laser cladding. *Acta Biomaterialia*, **2011**, 7, 3476-87	10.8	40
152	Laser-matter interactions in additive manufacturing of stainless steel SS316L and 13-93 bioactive glass revealed by in situ X-ray imaging. *Additive Manufacturing*, **2018**, 24, 647-657	6.1	40
151	Large-Scale Production of 3D Bioactive Glass Macroporous Scaffolds for Tissue Engineering. *Journal of Sol-Gel Science and Technology*, **2004**, 29, 179-188	2.3	39
150	Binary CaO-SiO(2) gel-glasses for biomedical applications. *Bio-Medical Materials and Engineering*, **2004**, 14, 467-86	1	39
149	Exploring GPTMS reactivity against simple nucleophiles: chemistry beyond hybrid materials fabrication. *RSC Advances*, **2014**, 4, 1841-1848	3.7	38
148	Application of Raman microspectroscopy to the characterisation of bioactive materials. *Materials Characterization*, **2002**, 49, 255-260	3.9	36
147	Tailoring Mechanical Properties of Sol□Gel Hybrids for Bone Regeneration through Polymer Structure. *Chemistry of Materials*, **2016**, 28, 6127-6135	9.6	36
146	Bioactive glass sol-gel foam scaffolds: Evolution of nanoporosity during processing and in situ monitoring of apatite layer formation using small- and wide-angle X-ray scattering. *Journal of Biomedical Materials Research - Part A*, **2009**, 91, 76-83	5.4	35
145	Synchrotron X-ray microtomography for assessment of bone tissue scaffolds. *Journal of Materials Science: Materials in Medicine*, **2010**, 21, 847-53	4.5	34
144	Biocompatibility and bioactivity of porous polymer-derived Ca-Mg silicate ceramics. *Acta Biomaterialia*, **2017**, 50, 56-67	10.8	33
143	Observing cell response to biomaterials. *Materials Today*, **2006**, 9, 34-43	21.8	33
142	Functionalizing natural polymers with alkoxysilane coupling agents: reacting 3-glycidoxypropyl trimethoxysilane with poly(□glutamic acid) and gelatin. *Polymer Chemistry*, **2017**, 8, 1095-1103	4.9	32
141	Tracking the formation of vaterite particles containing aminopropyl-functionalized silsesquioxane and their structure for bone regenerative medicine. *Journal of Materials Chemistry B*, **2013**, 1, 4446-4454	7.3	32
140	Toward smart implant synthesis: bonding bioceramics of different resorbability to match bone growth rates. *Scientific Reports*, **2015**, 5, 10677	4.9	32
139	Surface-modified 3D scaffolds for tissue engineering. *Journal of Materials Science: Materials in Medicine*, **2002**, 13, 837-42	4.5	32
138	Ion Release, Hydroxyapatite Conversion, and Cytotoxicity of Boron-Containing Bioactive Glass Scaffolds. *International Journal of Applied Glass Science*, **2016**, 7, 206-215	1.8	30
137	Multiscale analyses reveal native-like lamellar bone repair and near perfect bone-contact with porous strontium-loaded bioactive glass. *Biomaterials*, **2019**, 209, 152-162	15.6	29
136	In vitro release kinetics of proteins from bioactive foams. *Journal of Biomedical Materials Research Part B*, **2003**, 67, 121-9		29

135	Strategies to direct vascularisation using mesoporous bioactive glass-based biomaterials for bone regeneration. *International Materials Reviews*, **2017**, 62, 392-414	16.1	28
134	Rheological Characterization of Biomaterials Directs Additive Manufacturing of Strontium-Substituted Bioactive Glass/Polycaprolactone Microfibers. *Macromolecular Rapid Communications*, **2019**, 40, e1900019	4.8	28
133	Bouncing and 3D printable hybrids with self-healing properties. *Materials Horizons*, **2018**, 5, 849-860	14.4	28
132	Porous bioactive nanostructured scaffolds for bone regeneration: a sol-gel solution. *Nanomedicine*, **2008**, 3, 233-45	5.6	28
131	Silk fibroin-bioactive glass based advanced biomaterials: towards patient-specific bone grafts. *Biomedical Materials (Bristol)*, **2018**, 13, 055012	3.5	27
130	Characterisation of the inhomogeneity of sol□gel-derived SiO2□CaO bioactive glass and a strategy for its improvement. *Journal of Sol-Gel Science and Technology*, **2010**, 53, 255-262	2.3	27
129	Scaffold channel size influences stem cell differentiation pathway in 3-D printed silica hybrid scaffolds for cartilage regeneration. *Biomaterials Science*, **2020**, 8, 4458-4466	7.4	26
128	Silica/alginate hybrid biomaterials and assessment of their covalent coupling. *Applied Materials Today*, **2018**, 11, 1-12	6.6	24
127	Lithium-silicate sol-gel bioactive glass and the effect of lithium precursor on structure-property relationships. *Journal of Sol-Gel Science and Technology*, **2017**, 81, 84-94	2.3	24
126	Feasibility of Spatially Offset Raman Spectroscopy for in Vitro and in Vivo Monitoring Mineralization of Bone Tissue Engineering Scaffolds. *Analytical Chemistry*, **2017**, 89, 847-853	7.8	23
125	Effects of manganese incorporation on the morphology, structure and cytotoxicity of spherical bioactive glass nanoparticles. *Journal of Colloid and Interface Science*, **2019**, 547, 382-392	9.3	23
124	Protein interactions with nanoporous sol-gel derived bioactive glasses. *Acta Biomaterialia*, **2011**, 7, 3606-15	7.8	23
123	Influence of calcium and phosphorus release from bioactive glasses on viability and differentiation of dental pulp stem cells. *Journal of Materials Science*, **2017**, 52, 8928-8941	4.3	22
122	A multinuclear solid state NMR spectroscopic study of the structural evolution of disordered calcium silicate sol-gel biomaterials. *Physical Chemistry Chemical Physics*, **2015**, 17, 2540-9	3.6	22
121	Compressive Strength of Bioactive Sol□Gel Glass Foam Scaffolds. *International Journal of Applied Glass Science*, **2016**, 7, 229-237	1.8	21
120	Cotton wool-like poly(lactic acid)/vaterite composite scaffolds releasing soluble silica for bone tissue engineering. *Journal of Materials Science: Materials in Medicine*, **2013**, 24, 1649-58	4.5	21
119	A structural and physical study of sol-gel methacrylate-silica hybrids: intermolecular spacing dictates the mechanical properties. *Physical Chemistry Chemical Physics*, **2015**, 17, 29124-33	3.6	21
118	Template synthesis of ordered macroporous hydroxyapatite bioceramics. *Chemical Communications*, **2011**, 47, 9048-50	5.8	21

117	Biomaterials, artificial organs and tissue engineering **2005**,		21
116	Biodegradable inorganic-organic hybrids of methacrylate star polymers for bone regeneration. *Acta Biomaterialia*, **2017**, 54, 411-418	10.8	20
115	Antimicrobial Macroporous Gel-Glasses: Dissolution and Cytotoxicity. *Key Engineering Materials*, **2003**, 254-256, 1087-1090	0.4	20
114	Fabrication and in vitro characterization of electrospun poly (□glutamic acid)-silica hybrid scaffolds for bone regeneration. *Polymer*, **2016**, 91, 106-117	3.9	20
113	Osteogenic potential of sol-gel bioactive glasses containing manganese. *Journal of Materials Science: Materials in Medicine*, **2019**, 30, 86	4.5	19
112	Cobalt-containing bioactive glasses reduce human mesenchymal stem cell chondrogenic differentiation despite HIF-1□stabilisation. *Journal of the European Ceramic Society*, **2018**, 38, 877-886	6	19
111	Phosphate content affects structure and bioactivity of sol-gel silicate bioactive glasses. *International Journal of Applied Glass Science*, **2017**, 8, 372-382	1.8	17
110	A comparative study of oxygen diffusion in tissue engineering scaffolds. *Journal of Materials Science: Materials in Medicine*, **2014**, 25, 2573-8	4.5	17
109	Nanoceria provides antioxidant and osteogenic properties to mesoporous silica nanoparticles for osteoporosis treatment. *Acta Biomaterialia*, **2021**, 122, 365-376	10.8	17
108	Modeling of time dependent localized flow shear stress and its impact on cellular growth within additive manufactured titanium implants. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2014**, 102, 1689-99	3.5	16
107	Preparation of electrospun siloxane-poly(lactic acid)-vaterite hybrid fibrous membranes for guided bone regeneration. *Composites Science and Technology*, **2010**, 70, 1889-1893	8.6	16
106	Bioactive glasses and electrospun composites that release cobalt to stimulate the HIF pathway for wound healing applications. *Biomaterials Research*, **2021**, 25, 1	16.8	16
105	Ductile silica/methacrylate hybrids for bone regeneration. *Journal of Materials Chemistry B*, **2016**, 4, 6032-6042	7.9	15
104	Novel silica/bis(3-aminopropyl) polyethylene glycol inorganic/organic hybrids by sol□gel chemistry. *Materials Chemistry and Physics*, **2013**, 140, 168-175	4.4	15
103	Electrospinning 3D bioactive glasses for wound healing. *Biomedical Materials (Bristol)*, **2020**, 15, 015014	3.5	14
102	Biodegradable zinc-containing mesoporous silica nanoparticles for cancer therapy. *Materials Today Advances*, **2020**, 6, 100066	7.4	14
101	Long term effects of bioactive glass particulates on dental pulp stem cells in vitro. *Biomedical Glasses*, **2017**, 3,	2.7	14
100	Bioceramic 3D Implants Produced by Laser Assisted Additive Manufacturing. *Physics Procedia*, **2014**, 56, 309-316		14

99	Monodispersed strontium containing bioactive glass nanoparticles and MC3T3-E1 cellular response. *Biomedical Glasses*, **2016**, 2,	2.7	14
98	Strategies for the chemical analysis of highly porous bone scaffolds using secondary ion mass spectrometry. *Biomedical Materials (Bristol)*, **2014**, 9, 015013	3.5	13
97	Toward Hybrid Materials: Group Transfer Polymerization of 3-(Trimethoxysilyl)propyl Methacrylate. *Macromolecular Rapid Communications*, **2015**, 36, 1806-9	4.8	13
96	The Effect of 58S Bioactive Sol-Gel Derived Foams on the Growth of Murine Lung Epithelial Cells. *Key Engineering Materials*, **2003**, 240-242, 719-724	0.4	13
95	Sol-gel derived lithium-releasing glass for cartilage regeneration. *Journal of Biomaterials Applications*, **2017**, 32, 104-113	2.9	12
94	Effect of OH Content on the Bioactivity of Sol-Gel Derived Glass Foam Scaffolds. *Key Engineering Materials*, **2006**, 309-311, 1031-1034	0.4	12
93	Hybrids of Silica/Poly(caprolactone coglycidoxypropyl trimethoxysilane) as Biomaterials. *Chemistry of Materials*, **2018**, 30, 3743-3751	9.6	12
92	Four-dimensional imaging and quantification of viscous flow sintering within a 3D printed bioactive glass scaffold using synchrotron X-ray tomography. *Materials Today Advances*, **2019**, 2, 100011	7.4	11
91	A correlative imaging based methodology for accurate quantitative assessment of bone formation in additive manufactured implants. *Journal of Materials Science: Materials in Medicine*, **2016**, 27, 112	4.5	11
90	Structure optimisation and biological evaluation of bone scaffolds prepared by co-sintering of silicate and phosphate glasses. *Advances in Applied Ceramics*, **2015**, 114, S48-S55	2.3	11
89	Fabricating sol-gel glass monoliths with controlled nanoporosity. *Biomedical Materials (Bristol)*, **2007**, 2, 6-10	3.5	11
88	Synthesis and dissolution behaviour of CaO/SrO-containing sol–gel-derived 58S glasses. *Journal of Materials Science*, **2017**, 52, 8858-8870	4.3	10
87	Poly(γ-glutamic acid)/silica hybrids with fibrous structure: effect of cation and silica concentration on molecular structure, degradation rate and tensile properties. *RSC Advances*, **2014**, 4, 52491-52499	3.7	10
86	In situ high-energy X-ray diffraction study of a bioactive calcium silicate foam immersed in simulated body fluid. *Journal of Synchrotron Radiation*, **2007**, 14, 492-9	2.4	10
85	Particle release from implantoplasty of dental implants and impact on cells. *International Journal of Implant Dentistry*, **2020**, 6, 50	2.8	10
84	A New Calcium Source for Bioactive Sol-Gel Hybrids. *Bioceramics Development and Applications*, **2011**, 1, 1-3		10
83	Hydroxyapatite Coatings Incorporating Silicon Ion Releasing System on Titanium Prepared Using Water Glass and Vaterite. *Journal of the American Ceramic Society*, **2011**, 94, 2074-2079	3.8	9
82	Tailoring the nanoporosity of sol–gel derived bioactive glass using trimethylethoxysilane. *Journal of Materials Chemistry*, **2010**, 20, 1489		9

81	Reversible aggregation of responsive polymer-stabilized colloids and the pH-dependent formation of porous scaffolds. *Soft Matter*, **2011**, 7, 7560	3.6	9
80	In vitro changes in the structure of a bioactive calcia□silica sol□gel glass explored using isotopic substitution in neutron diffraction. *Journal of Non-Crystalline Solids*, **2007**, 353, 1854-1859	3.9	9
79	Indirect Cytotoxicity Evaluation of Silver Doped Bioglass Ag-S70C30 on Human Primary Keratinocytes. *Key Engineering Materials*, **2005**, 284-286, 431-434	0.4	9
78	The influence of cobalt incorporation and cobalt precursor selection on the structure and bioactivity of sol□gel-derived bioactive glass. *Journal of Sol-Gel Science and Technology*, **2018**, 88, 309-321	2.3	9
77	In Situ Monitoring of Chondrocyte Response to Bioactive Scaffolds Using Raman Spectroscopy. *Key Engineering Materials*, **2005**, 284-286, 623-626	0.4	8
76	Scaffolds for tissue engineering **2005**, 201-214		8
75	The Effect of Temperature on the Processing and Properties of Macroporous Bioactive Glass Foams. *Key Engineering Materials*, **2001**, 218-220, 299-302	0.4	8
74	Bioactive glass scaffold architectures regulate patterning of bone regeneration in vivo. *Applied Materials Today*, **2020**, 20, 100770	6.6	8
73	3D printed silica-gelatin hybrid scaffolds of specific channel sizes promote collagen Type II, Sox9 and Aggrecan production from chondrocytes. *Materials Science and Engineering C*, **2021**, 123, 111964	8.3	8
72	Preparation of electrospun poly(lactic acid)-based hybrids containing siloxane-doped vaterite particles for bone regeneration. *Journal of Biomaterials Science, Polymer Edition*, **2012**, 23, 1369-80	3.5	7
71	Transesterification of functional methacrylate monomers during alcoholic copper-catalyzed atom transfer radical polymerization: formation of compositional and architectural side products. *Polymer Chemistry*, **2012**, 3, 2735	4.9	7
70	Bioactive ceramics and glasses **2007**, 52-71		7
69	Highly porous polymer-derived wollastonite-hydroxycarbonate apatite ceramics for bone regeneration. *Biomedical Materials (Bristol)*, **2016**, 11, 025016	3.5	7
68	Tribological evaluation of a novel hybrid for repair of articular cartilage defects. *Materials Science and Engineering C*, **2021**, 119, 111495	8.3	7
67	Tailoring the delivery of therapeutic ions from bioactive scaffolds while inhibiting their apatite nucleation: a coaxial electrospinning strategy for soft tissue regeneration. *RSC Advances*, **2017**, 7, 3992-3999	3.7	6
66	Silica/methacrylate class II hybrid: telomerisation vs. RAFT polymerisation. *Polymer Chemistry*, **2017**, 8, 3603-3611	4.9	6
65	Effect of Comonomers on Physical Properties and Cell Attachment to Silica-Methacrylate/Acrylate Hybrids for Bone Substitution. *Macromolecular Rapid Communications*, **2017**, 38, 1700168	4.8	6
64	ToF-SIMS evaluation of calcium-containing silica/□PGA hybrid systems for bone regeneration. *Applied Surface Science*, **2014**, 309, 231-239	6.7	6

63	RAFT Polymerization of N-[3-(Trimethoxysilyl)-propyl]acrylamide and Its Versatile Use in Silica Hybrid Materials. *Macromolecular Rapid Communications*, **2015**, 36, 2060-4	4.8	6
62	Optimising the Strength of Macroporous Bioactive Glass Scaffolds. *Key Engineering Materials*, **2003**, 254-256, 981-984	0.4	6
61	Bioglass/carbonate apatite/collagen composite scaffold dissolution products promote human osteoblast differentiation. *Materials Science and Engineering C*, **2021**, 118, 111393	8.3	6
60	Bioactive glass-polycaprolactone fiber membrane and response of dental pulp stem cells in vitro. *Biomedical Glasses*, **2018**, 4, 123-130	2.7	6
59	Aerogel-like polysiloxane-polyurethane hybrid foams with enhanced mechanical and thermal-insulating properties. *Composites Science and Technology*, **2021**, 213, 108917	8.6	6
58	Construction of DNAzyme-Encapsulated Fibermats Using the Precursor Network Polymer of Poly(glutamate) and 4-Glycidyloxypropyltrimethoxysilane. *Langmuir*, **2017**, 33, 4028-4035	4	5
57	Auto-catalytic redox polymerisation using nanoceria and glucose oxidase for double network hydrogels. *Journal of Materials Chemistry B*, **2020**, 8, 2834-2844	7.3	5
56	The effect of serum proteins on apatite growth for 45S5 Bioglass and common sol-gel derived glass in SBF. *Biomedical Glasses*, **2018**, 4, 13-20	2.7	5
55	Critical Competencies in Virtual Service Webs. *European Management Journal*, **2003**, 21, 48-61	4.8	5
54	New Materials and Technologies for Healthcare **2011**,		5
53	Composites Containing Bioactive Glass121-138		5
52	Enzyme degradable star polymethacrylate/silica hybrid inks for 3D printing of tissue scaffolds. *Materials Advances*, **2020**, 1, 3189-3199	3.3	4
51	Sintering and Crystallization of Phosphate Glasses by CO2-Laser Irradiation on Hydroxyapatite Ceramics. *International Journal of Applied Ceramic Technology*, **2012**, 9, 541-549	2	4
50	Neutron diffraction study of antibacterial bioactive calcium silicate sol-gel glasses containing silver. *International Journal of Applied Glass Science*, **2017**, 8, 364-371	1.8	4
49	Tailoring of Bone Scaffold Properties Using Silicate/Phosphate Glass Mixtures. *Key Engineering Materials*, **2014**, 631, 283-288	0.4	4
48	Sol-Gel Derived Glasses for Medicine **2012**, 29-44		4
47	Bioactive glass **2008**, 266-283		4
46	Effect of Porosity on the Mechanical Properties of Bioactive Foam Scaffolds. *Key Engineering Materials*, **2003**, 240-242, 209-212	0.4	4

45	Effect of Particle Size on Bioglass Dissolution. *Key Engineering Materials*, **2000**, 192-195, 629-634	0.4	4
44	Quantifying 3D Strain in Scaffold Implants for Regenerative Medicine. *Materials*, **2020**, 13,	3.5	4
43	3D Printed Porous Methacrylate/Silica Hybrid Scaffold for Bone Substitution. *Advanced Healthcare Materials*, **2021**, 10, e2100117	10.1	4
42	Open vessel free radical photopolymerization of double network gels for biomaterial applications using glucose oxidase. *Journal of Materials Chemistry B*, **2019**, 7, 4030-4039	7.3	3
41	Preparation of Cotton-Wool-Like Poly(lactic acid)-Based Composites Consisting of Core-Shell-Type Fibers. *Materials*, **2015**, 8, 7979-7987	3.5	3
40	Biomedical Applications: Tissue Engineering **2006**, 547-570		3
39	A forecast of the future for biomaterials. *Journal of Materials Science: Materials in Medicine*, **2006**, 17, 963-4	4.5	3
38	Osteoblast Nodule Formation and Mineralisation on Foamed 58S Bioactive Glass. *Key Engineering Materials*, **2003**, 254-256, 985-988	0.4	3
37	Exploratory Full-Field Mechanical Analysis across the Osteochondral Tissue-Biomaterial Interface in an Ovine Model. *Materials*, **2020**, 13,	3.5	3
36	Acoustic Streaming in a Soft Tissue Microenvironment. *Ultrasound in Medicine and Biology*, **2019**, 45, 208-217	3.1	3
35	Hyaluronic acid hydrogels reinforced with laser spun bioactive glass micro- and nanofibres doped with lithium. *Materials Science and Engineering C*, **2021**, 126, 112124	8.3	3
34	Bioactivity of toothpaste containing bioactive glass in remineralizing media: effect of fluoride release from the enzymatic cleavage of monofluorophosphate.. *Biomedical Glasses*, **2015**, 1,	2.7	2
33	Bioactive Glass as Synthetic Bone Grafts and Scaffolds for Tissue Engineering **2012**, 177-201		2
32	Induction of hydroxycarbonate apatite formation on polyethylene or alumina substrates by spherical vaterite particles deposition. *Materials Science and Engineering C*, **2012**, 32, 1976-1981	8.3	2
31	Bioactive Glass Scaffolds with Hierarchical Structure and their 3D Characterization. *Key Engineering Materials*, **2010**, 441, 123-137	0.4	2
30	Mechanical Behavior of Bioactive Glass-Polyvinyl Alcohol Hybrid Foams Obtained by the Sol-Gel Process. *Key Engineering Materials*, **2005**, 284-286, 757-760	0.4	2
29	Silver-doped calcium silicate sol-gel glasses with a cotton-wool-like structure for wound healing.. *Materials Science and Engineering C*, **2021**, 112561	8.3	2
28	Laser-Guided Corrosion Control: A New Approach to Tailor the Degradation of Mg-Alloys. *Small*, **2021**, 17, e2100924	11	2

27	Cobalt-containing spherical glass nanoparticles for therapeutic ion release. *Journal of the American Ceramic Society*,	3.8	2
26	Electrospun cotton□wool-like silica/gelatin hybrids with covalent coupling. *Journal of Sol-Gel Science and Technology*, **2021**, 97, 11-26	2.3	2
25	Interaction of monodispersed strontium containing bioactive glass nanoparticles with macrophages.. *Materials Science and Engineering C*, **2021**, 112610	8.3	2
24	Zinc-Containing Sol□Gel Glass Nanoparticles to Deliver Therapeutic Ions. *Nanomaterials*, **2022**, 12, 1691	5.4	2
23	Ceramics, Glasses, and Glass-Ceramics **2020**, 289-305		1
22	Sol□Gel Materials for Biomedical Applications **2015**, 1345-1370		1
21	Preliminary Surface Study of Short Term Dissolution of UK High Level Waste Glass **2014**, 7, 230-236		1
20	Inorganic-Organic Sol-Gel Hybrids **2012**, 139-158		1
19	A comparison of three different micro-tomography systems for accurate determination of microvascular parameters **2008**,		1
18	Scaffolds for Cell and Tissue Engineering **2006**,		1
17	Biomaterials: Bioceramics **2006**,		1
16	Bioactive 3D scaffolds in regenerative medicine: the role of interface interactions **2005**, 545-572		1
15	Using X-Ray Micro-CT Imaging to Monitor Dissolution of Macroporous Bioactive Glass Scaffolds. *Key Engineering Materials*, **2005**, 284-286, 493-496	0.4	1
14	Artificial organs **2005**, 142-152		1
13	In situ 4D tomography image analysis framework to follow sintering within 3D-printed glass scaffolds. *Journal of the American Ceramic Society*, **2022**, 105, 1671	3.8	1
12	Developing Atom Probe Tomography to Characterize Sr-Loaded Bioactive Glass for Bone Scaffolding. *Microscopy and Microanalysis*,1-11	0.5	1
11	Corrosion Control: Laser-Guided Corrosion Control: A New Approach to Tailor the Degradation of Mg-Alloys (Small 18/2021). *Small*, **2021**, 17, 2170080	11	1
10	Durability studies of simulated UK high level waste glass. *Materials Research Society Symposia Proceedings*, **2014**, 1665, 291-296		

9	Hierarchical Porous Scaffolds for Bone Regeneration **2011**, 107-130	
8	Preparation of Fibrous Scaffolds Containing Calcium and Silicon Species. *Key Engineering Materials*, **2011**, 493-494, 840-843	0.4
7	Silicate and Calcium Ions Releasing Biomaterials for Bone Reconstruction. *Key Engineering Materials* , **2011**, 493-494, 561-565	0.4
6	Clinical applications of tissue engineering **2005**, 241-248	
5	Microporous Materials **2008**, 1885-1893	
4	Characterisation of Tissue Engineering Constructs by Raman Spectroscopy and X-ray Micro-Computed Tomography (CT) **2008**, 421-441	
3	Bioactive Glasses **2021**, 991-1003	
2	Detection and Tracking Volumes of Interest in 3D Printed Tissue Engineering Scaffolds using 4D Imaging Modalities. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2021**, 2021, 1230-1233	0.9
1	Effect of Polymer Molecular Mass and Structure on the Mechanical Properties of Polymer-Glass Hybrids.. *ACS Omega*, **2022**, 7, 786-792	3.9