Julian Jones

List of Publications by Year in Descending Order

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	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
223	Effect of Polymer Molecular Mass and Structure on the Mechanical Properties of Polymer-Glass Hybrids.. *ACS Omega*, **2022**, 7, 786-792	3.9	
222	Zinc-Containing Sol□el Glass Nanoparticles to Deliver Therapeutic Ions. *Nanomaterials*, **2022**, 12, 1691	5.4	2
221	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
220	Laser-Guided Corrosion Control: A New Approach to Tailor the Degradation of Mg-Alloys. *Small*, **2021**, 17, e2100924	11	2
219	Nanoceria provides antioxidant and osteogenic properties to mesoporous silica nanoparticles for osteoporosis treatment. *Acta Biomaterialia*, **2021**, 122, 365-376	10.8	17
218	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
217	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
216	3D Printed Porous Methacrylate/Silica Hybrid Scaffold for Bone Substitution. *Advanced Healthcare Materials*, **2021**, 10, e2100117	10.1	4
215	Bioglass/carbonate apatite/collagen composite scaffold dissolution products promote human osteoblast differentiation. *Materials Science and Engineering C*, **2021**, 118, 111393	8.3	6
214	Tribological evaluation of a novel hybrid for repair of articular cartilage defects. *Materials Science and Engineering C*, **2021**, 119, 111495	8.3	7
213	Electrospun cotton□wool-like silica/gelatin hybrids with covalent coupling. *Journal of Sol-Gel Science and Technology*, **2021**, 97, 11-26	2.3	2
212	Bioactive Glasses **2021**, 991-1003		
211	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
210	□Aerogel-like□polysiloxane-polyurethane hybrid foams with enhanced mechanical and thermal-insulating properties. *Composites Science and Technology*, **2021**, 213, 108917	8.6	6
209	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
208	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	

207	Interaction of monodispersed strontium containing bioactive glass nanoparticles with macrophages.. *Materials Science and Engineering C*, **2021**, 112610	8.3	2
206	Enzyme degradable star polymethacrylate/silica hybrid inks for 3D printing of tissue scaffolds. *Materials Advances*, **2020**, 1, 3189-3199	3.3	4
205	Ceramics, Glasses, and Glass-Ceramics **2020**, 289-305		1
204	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
203	Electrospinning 3D bioactive glasses for wound healing. *Biomedical Materials (Bristol)*, **2020**, 15, 015014	3.5	14
202	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
201	Biodegradable zinc-containing mesoporous silica nanoparticles for cancer therapy. *Materials Today Advances*, **2020**, 6, 100066	7.4	14
200	Particle release from implantoplasty of dental implants and impact on cells. *International Journal of Implant Dentistry*, **2020**, 6, 50	2.8	10
199	Bioactive glass scaffold architectures regulate patterning of bone regeneration in vivo. *Applied Materials Today*, **2020**, 20, 100770	6.6	8
198	Quantifying 3D Strain in Scaffold Implants for Regenerative Medicine. *Materials*, **2020**, 13,	3.5	4
197	Exploratory Full-Field Mechanical Analysis across the Osteochondral Tissue-Biomaterial Interface in an Ovine Model. *Materials*, **2020**, 13,	3.5	3
196	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
195	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
194	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
193	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
192	Rheological Characterization of Biomaterials Directs Additive Manufacturing of Strontium-Substituted Bioactive Glass/Polycaprolactone Microfibers. *Macromolecular Rapid Communications*, **2019**, 40, e1900019	4.8	28
191	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
190	Osteogenic potential of sol-gel bioactive glasses containing manganese. *Journal of Materials Science: Materials in Medicine*, **2019**, 30, 86	4.5	19

189	Acoustic Streaming in a Soft Tissue Microenvironment. *Ultrasound in Medicine and Biology*, **2019**, 45, 208-217	3.5	3
188	Silica/alginate hybrid biomaterials and assessment of their covalent coupling. *Applied Materials Today*, **2018**, 11, 1-12	6.6	24
187	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
186	Silk fibroin-bioactive glass based advanced biomaterials: towards patient-specific bone grafts. *Biomedical Materials (Bristol)*, **2018**, 13, 055012	3.5	27
185	Bouncing and 3D printable hybrids with self-healing properties. *Materials Horizons*, **2018**, 5, 849-860	14.4	28
184	In vitro osteogenesis by intracellular uptake of strontium containing bioactive glass nanoparticles. *Acta Biomaterialia*, **2018**, 66, 67-80	10.8	64
183	Direct ink writing of highly bioactive glasses. *Journal of the European Ceramic Society*, **2018**, 38, 837-844	6	58
182	Cobalt-containing bioactive glasses reduce human mesenchymal stem cell chondrogenic differentiation despite HIF-1α stabilisation. *Journal of the European Ceramic Society*, **2018**, 38, 877-886	6	19
181	Bioactive glass-polycaprolactone fiber membrane and response of dental pulp stem cells in vitro. *Biomedical Glasses*, **2018**, 4, 123-130	2.7	6
180	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
179	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
178	Hybrids of Silica/Poly(caprolactone coglycidoxypropyl trimethoxysilane) as Biomaterials. *Chemistry of Materials*, **2018**, 30, 3743-3751	9.6	12
177	Strategies to direct vascularisation using mesoporous bioactive glass-based biomaterials for bone regeneration. *International Materials Reviews*, **2017**, 62, 392-414	16.1	28
176	Functionalizing natural polymers with alkoxysilane coupling agents: reacting 3-glycidoxypropyl trimethoxysilane with poly(γ-glutamic acid) and gelatin. *Polymer Chemistry*, **2017**, 8, 1095-1103	4.9	32
175	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
174	Biodegradable inorganic-organic hybrids of methacrylate star polymers for bone regeneration. *Acta Biomaterialia*, **2017**, 54, 411-418	10.8	20
173	Synthesis and dissolution behaviour of CaO/SrO-containing sol–gel-derived 58S glasses. *Journal of Materials Science*, **2017**, 52, 8858-8870	4.3	10
172	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

171	Construction of DNAzyme-Encapsulated Fibermats Using the Precursor Network Polymer of Poly(Eglutamate) and 4-Glycidyloxypropyltrimethoxysilane. *Langmuir*, **2017**, 33, 4028-4035	4	5
170	Silica/methacrylate class II hybrid: telomerisation vs. RAFT polymerisation. *Polymer Chemistry*, **2017**, 8, 3603-3611	4.9	6
169	Highly degradable porous melt-derived bioactive glass foam scaffolds for bone regeneration. *Acta Biomaterialia*, **2017**, 57, 449-461	10.8	62
168	Sol-gel derived lithium-releasing glass for cartilage regeneration. *Journal of Biomaterials Applications*, **2017**, 32, 104-113	2.9	12
167	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
166	Biocompatibility and bioactivity of porous polymer-derived Ca-Mg silicate ceramics. *Acta Biomaterialia*, **2017**, 50, 56-67	10.8	33
165	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
164	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
163	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
162	Long term effects of bioactive glass particulates on dental pulp stem cells in vitro. *Biomedical Glasses*, **2017**, 3,	2.7	14
161	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
160	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
159	Ductile silica/methacrylate hybrids for bone regeneration. *Journal of Materials Chemistry B*, **2016**, 4, 6032-6042	7.9	15
158	Bioglass and Bioactive Glasses and Their Impact on Healthcare. *International Journal of Applied Glass Science*, **2016**, 7, 423-434	1.8	146
157	Compressive Strength of Bioactive Sol-Gel Glass Foam Scaffolds. *International Journal of Applied Glass Science*, **2016**, 7, 229-237	1.8	21
156	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
155	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
154	3D Printing of Biocompatible Supramolecular Polymers and their Composites. *ACS Applied Materials & Interfaces*, **2016**, 8, 3115-22	9.5	88

153	Controlling particle size in the St□ber process and incorporation of calcium. *Journal of Colloid and Interface Science*, **2016**, 469, 213-223	9.3	87
152	Monodispersed strontium containing bioactive glass nanoparticles and MC3T3-E1 cellular response. *Biomedical Glasses*, **2016**, 2,	2.7	14
151	Fabrication and in vitro characterization of electrospun poly (□-glutamic acid)-silica hybrid scaffolds for bone regeneration. *Polymer*, **2016**, 91, 106-117	3.9	20
150	Highly porous polymer-derived wollastonite-hydroxycarbonate apatite ceramics for bone regeneration. *Biomedical Materials (Bristol)*, **2016**, 11, 025016	3.5	7
149	Tailoring Mechanical Properties of Sol□Gel Hybrids for Bone Regeneration through Polymer Structure. *Chemistry of Materials*, **2016**, 28, 6127-6135	9.6	36
148	Reprint of: Review of bioactive glass: From Hench to hybrids. *Acta Biomaterialia*, **2015**, 23 Suppl, S53-82	10.8	335
147	Highly flexible silica/chitosan hybrid scaffolds with oriented pores for tissue regeneration. *Journal of Materials Chemistry B*, **2015**, 3, 7560-7576	7.3	66
146	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
145	Hypoxia inducible factor-stabilizing bioactive glasses for directing mesenchymal stem cell behavior. *Tissue Engineering - Part A*, **2015**, 21, 382-9	3.9	42
144	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
143	Toward Hybrid Materials: Group Transfer Polymerization of 3-(Trimethoxysilyl)propyl Methacrylate. *Macromolecular Rapid Communications*, **2015**, 36, 1806-9	4.8	13
142	Sol□Gel Materials for Biomedical Applications **2015**, 1345-1370		1
141	Toward smart implant synthesis: bonding bioceramics of different resorbability to match bone growth rates. *Scientific Reports*, **2015**, 5, 10677	4.9	32
140	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
139	Bioactive Glasses: Frontiers and Challenges. *Frontiers in Bioengineering and Biotechnology*, **2015**, 3, 194	5.8	166
138	Preparation of Cotton-Wool-Like Poly(lactic acid)-Based Composites Consisting of Core-Shell-Type Fibers. *Materials*, **2015**, 8, 7979-7987	3.5	3
137	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
136	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

135	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
134	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
133	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
132	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
131	Exploring GPTMS reactivity against simple nucleophiles: chemistry beyond hybrid materials fabrication. *RSC Advances*, **2014**, 4, 1841-1848	3.7	38
130	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
129	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
128	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
127	ToF-SIMS evaluation of calcium-containing silica/γ-PGA hybrid systems for bone regeneration. *Applied Surface Science*, **2014**, 309, 231-239	6.7	6
126	Cotton-wool-like bioactive glasses for bone regeneration. *Acta Biomaterialia*, **2014**, 10, 3733-46	10.8	78
125	Strategies for the chemical analysis of highly porous bone scaffolds using secondary ion mass spectrometry. *Biomedical Materials (Bristol)*, **2014**, 9, 015013	3.5	13
124	Preliminary Surface Study of Short Term Dissolution of UK High Level Waste Glass **2014**, 7, 230-236		1
123	Bioceramic 3D Implants Produced by Laser Assisted Additive Manufacturing. *Physics Procedia*, **2014**, 56, 309-316		14
122	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
121	A comparative study of oxygen diffusion in tissue engineering scaffolds. *Journal of Materials Science: Materials in Medicine*, **2014**, 25, 2573-8	4.5	17
120	Tailoring of Bone Scaffold Properties Using Silicate/Phosphate Glass Mixtures. *Key Engineering Materials*, **2014**, 631, 283-288	0.4	4
119	Durability studies of simulated UK high level waste glass. *Materials Research Society Symposia Proceedings*, **2014**, 1665, 291-296		
118	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

117	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
116	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
115	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
114	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
113	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
112	Preconditioned 70S30C bioactive glass foams promote osteogenesis in vivo. *Acta Biomaterialia*, **2013**, 9, 9169-82	10.8	95
111	Bioactivity in silica/poly(γ-glutamic acid) sol-gel hybrids through calcium chelation. *Acta Biomaterialia*, **2013**, 9, 7662-71	10.8	51
110	Epoxide opening versus silica condensation during sol-gel hybrid biomaterial synthesis. *Chemistry - A European Journal*, **2013**, 19, 7856-64	4.8	48
109	Review of bioactive glass: from Hench to hybrids. *Acta Biomaterialia*, **2013**, 9, 4457-86	10.8	1445
108	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
107	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
106	Bioactive Glass as Synthetic Bone Grafts and Scaffolds for Tissue Engineering **2012**, 177-201		2
105	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
104	Effect of calcium source on structure and properties of sol-gel derived bioactive glasses. *Langmuir*, **2012**, 28, 17465-76	4	71
103	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
102	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
101	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
100	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

99	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
98	Sol-Gel Derived Glasses for Medicine **2012**, 29-44		4
97	Inorganic-Organic Sol-Gel Hybrids **2012**, 139-158		1
96	**2012**,		43
95	Template synthesis of ordered macroporous hydroxyapatite bioceramics. *Chemical Communications* , **2011**, 47, 9048-50	5.8	21
94	Softening bioactive glass for bone regeneration: sol–gel hybrid materials. *Soft Matter*, **2011**, 7, 5083	3.6	117
93	Hierarchical Porous Scaffolds for Bone Regeneration **2011**, 107-130		
92	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
91	Protein interactions with nanoporous sol-gel derived bioactive glasses. *Acta Biomaterialia*, **2011**, 7, 3606-15	10.8	23
90	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
89	Three-dimensional bioactive glass implants fabricated by rapid prototyping based on CO(2) laser cladding. *Acta Biomaterialia*, **2011**, 7, 3476-87	10.8	40
88	Reversible aggregation of responsive polymer-stabilized colloids and the pH-dependent formation of porous scaffolds. *Soft Matter*, **2011**, 7, 7560	3.6	9
87	Electrospun silica/PLLA hybrid materials for skeletal regeneration. *Soft Matter*, **2011**, 7, 10241	3.6	58
86	Melt-derived bioactive glass scaffolds produced by a gel-cast foaming technique. *Acta Biomaterialia* , **2011**, 7, 1807-16	10.8	123
85	Spherical bioactive glass particles and their interaction with human mesenchymal stem cells in vitro. *Biomaterials*, **2011**, 32, 1010-8	15.6	156
84	Preparation of Fibrous Scaffolds Containing Calcium and Silicon Species. *Key Engineering Materials*, **2011**, 493-494, 840-843	0.4	
83	Silicate and Calcium Ions Releasing Biomaterials for Bone Reconstruction. *Key Engineering Materials* , **2011**, 493-494, 561-565	0.4	
82	New Materials and Technologies for Healthcare **2011**,		5

81	A New Calcium Source for Bioactive Sol-Gel Hybrids. *Bioceramics Development and Applications*, **2011**, 1, 1-3		10
80	Bioactive Glass Scaffolds with Hierarchical Structure and their 3D Characterization. *Key Engineering Materials*, **2010**, 441, 123-137	0.4	2
79	Rare earth oxides as nanoadditives in 3-D nanocomposite scaffolds for bone regeneration. *Journal of Materials Chemistry*, **2010**, 20, 8912		109
78	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
77	Synthesis of bioactive class II poly(γ-glutamic acid)/silica hybrids for bone regeneration. *Journal of Materials Chemistry*, **2010**, 20, 8952		67
76	Tailoring the nanoporosity of sol–gel derived bioactive glass using trimethylethoxysilane. *Journal of Materials Chemistry*, **2010**, 20, 1489		9
75	Synchrotron X-ray microtomography for assessment of bone tissue scaffolds. *Journal of Materials Science: Materials in Medicine*, **2010**, 21, 847-53	4.5	34
74	Characterisation of the inhomogeneity of sol–gel-derived SiO_2–CaO bioactive glass and a strategy for its improvement. *Journal of Sol-Gel Science and Technology*, **2010**, 53, 255-262	2.3	27
73	Silica-Gelatin Hybrids with Tailorable Degradation and Mechanical Properties for Tissue Regeneration. *Advanced Functional Materials*, **2010**, 20, 3835-3845	15.6	179
72	Hierarchically structured titanium foams for tissue scaffold applications. *Acta Biomaterialia*, **2010**, 6, 4596-604	10.8	51
71	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
70	Laser Spinning of Bioactive Glass Nanofibers. *Advanced Functional Materials*, **2009**, 19, 3084-3090	15.6	61
69	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
68	Quantifying the 3D macrostructure of tissue scaffolds. *Journal of Materials Science: Materials in Medicine*, **2009**, 20, 463-71	4.5	63
67	New trends in bioactive scaffolds: The importance of nanostructure. *Journal of the European Ceramic Society*, **2009**, 29, 1275-1281	6	146
66	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
65	Nanostructure evolution and calcium distribution in sol–gel derived bioactive glass. *Journal of Materials Chemistry*, **2009**, 19, 1276		204
64	A comparison of three different micro-tomography systems for accurate determination of microvascular parameters **2008**,		1

63	Porous bioactive nanostructured scaffolds for bone regeneration: a sol-gel solution. *Nanomedicine*, **2008**, 3, 233-45	5.6	28
62	Bioactive glass **2008**, 266-283		4
61	Microporous Materials **2008**, 1885-1893		
60	Characterisation of Tissue Engineering Constructs by Raman Spectroscopy and X-ray Micro-Computed Tomography (CT) **2008**, 421-441		
59	Fabricating sol-gel glass monoliths with controlled nanoporosity. *Biomedical Materials (Bristol)*, **2007**, 2, 6-10	3.5	11
58	A Neutron and X-Ray Diffraction Study of Bioglass with Reverse Monte Carlo Modelling. *Advanced Functional Materials*, **2007**, 17, 3746-3753	15.6	70
57	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
56	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
55	Non-destructive quantitative 3D analysis for the optimisation of tissue scaffolds. *Biomaterials*, **2007**, 28, 1404-13	15.6	165
54	Bioactive ceramics and glasses **2007**, 52-71		7
53	Transforming audit technologies: Business risk audit methodologies and the audit field. *Accounting, Organizations and Society*, **2007**, 32, 409-438	3.2	140
52	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
51	Bioactive Glass Scaffolds for Bone Regeneration. *Elements*, **2007**, 3, 393-399	3.8	103
50	Supercritical Carbon Dioxide in Water Emulsion-Templated Synthesis of Porous Calcium Alginate Hydrogels. *Advanced Materials*, **2006**, 18, 501-504	24	81
49	Biomedical Applications: Tissue Engineering **2006**, 547-570		3
48	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
47	Hierarchical porous materials for tissue engineering. *Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences*, **2006**, 364, 263-81	3	130
46	Scaffolds for Cell and Tissue Engineering **2006**,		1

45	Biomaterials: Bioceramics **2006**,		1
44	Observing cell response to biomaterials. *Materials Today*, **2006**, 9, 34-43	21.8	33
43	Optimising bioactive glass scaffolds for bone tissue engineering. *Biomaterials*, **2006**, 27, 964-73	15.6	543
42	A forecast of the future for biomaterials. *Journal of Materials Science: Materials in Medicine*, **2006**, 17, 963-4	4.5	3
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