Julian Jones

List of Publications by Year
in descending order

222 papers	14,904 citations	22548 61 h-index	23173 116 g-index
235 all docs	235 docs citations	235 times ranked	11999 citing authors

#	Article	IF	Citations
1	Review of bioactive glass: From Hench to hybrids. Acta Biomaterialia, 2013, 9, 4457-4486.	4.1	1,839
2	Optimising bioactive glass scaffolds for bone tissue engineering. Biomaterials, 2006, 27, 964-973.	5.7	612
3	Reprint of: Review of bioactive glass: From Hench to hybrids. Acta Biomaterialia, 2015, 23, S53-S82.	4.1	442
4	In vitro dissolution of melt-derived 45S5 and sol-gel derived 58S bioactive glasses. Journal of Biomedical Materials Research Part B, 2002, 61, 301-311.	3.0	398
5	Nodule formation and mineralisation of human primary osteoblasts cultured on a porous bioactive glass scaffold. Biomaterials, 2004, 25, 2039-2046.	5.7	391
6	Bioactive sol-gel foams for tissue repair. Journal of Biomedical Materials Research Part B, 2002, 59, 340-348.	3.0	381
7	Characterization of melt-derived 45S5 and sol-gel-derived 58S bioactive glasses. Journal of Biomedical Materials Research Part B, 2001, 58, 734-740.	3.0	349
8	Regeneration of trabecular bone using porous ceramics. Current Opinion in Solid State and Materials Science, 2003, 7, 301-307.	5.6	278
9	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.	1.7	275
10	Extracellular matrix formation and mineralization on a phosphate-free porous bioactive glass scaffold using primary human osteoblast (HOB) cells. Biomaterials, 2007, 28, 1653-1663.	5.7	256
11	Bioactive Glasses: Frontiers and Challenges. Frontiers in Bioengineering and Biotechnology, 2015, 3, 194.	2.0	250
12	Bioactivity of gel-glass powders in the CaO-SiO2 system: A comparison with ternary (CaO-P2P5-SiO2) and quaternary glasses (SiO2-CaO-P2O5-Na2O). Journal of Biomedical Materials Research Part B, 2003, 66A, 110-119.	3.0	227
13	Bioglass and Bioactive Glasses and Their Impact on Healthcare. International Journal of Applied Glass Science, 2016, 7, 423-434.	1.0	226
14	Nanostructure evolution and calcium distribution in solâ€“gel derived bioactive glass. Journal of Materials Chemistry, 2009, 19, 1276.	6.7	224
15	Differentiation of fetal osteoblasts and formation of mineralized bone nodules by 45S5 BioglassÂ® conditioned medium in the absence of osteogenic supplements. Biomaterials, 2009, 30, 3542-3550.	5.7	219
16	Silicaâ€Gelatin Hybrids with Tailorable Degradation and Mechanical Properties for Tissue Regeneration. Advanced Functional Materials, 2010, 20, 3835-3845.	7.8	213
17	Dose-dependent behavior of bioactive glass dissolution. Journal of Biomedical Materials Research Part B, 2001, 58, 720-726.	3.0	193
18	Non-destructive quantitative 3D analysis for the optimisation of tissue scaffolds. Biomaterials, 2007, 28, 1404-1413.	5.7	178

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19	Spherical bioactive glass particles and their interaction with human mesenchymal stem cells in vitro. Biomaterials, 2011, 32, 1010-1018.	5.7	176
20	Theranostic Mesoporous Silica Nanoparticles Biodegrade after Pro-Survival Drug Delivery and Ultrasound/Magnetic Resonance Imaging of Stem Cells. Theranostics, 2015, 5, 631-642.	4.6	172
21	Transforming audit technologies: Business risk audit methodologies and the audit field. Accounting, Organizations and Society, 2007, 32, 409-438.	1.4	170
22	New trends in bioactive scaffolds: The importance of nanostructure. Journal of the European Ceramic Society, 2009, 29, 1275-1281.	2.8	162
23	Hierarchical porous materials for tissue engineering. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2006, 364, 263-281.	1.6	150
24	Influence of strontium for calcium substitution in bioactive glasses on degradation, ion release and apatite formation. Journal of the Royal Society Interface, 2012, 9, 880-889.	1.5	150
25	Factors affecting the structure and properties of bioactive foam scaffolds for tissue engineering. Journal of Biomedical Materials Research Part B, 2004, 68B, 36-44.	3.0	146
26	Melt-derived bioactive glass scaffolds produced by a gel-cast foaming technique. Acta Biomaterialia, 2011, 7, 1807-1816.	4.1	140
27	Isothermal grain coarsening of spray formed alloys in the semi-solid state. Acta Materialia, 2002, 50, 2517-2535.	3.8	135
28	Controlling particle size in the StÃ¶ber process and incorporation of calcium. Journal of Colloid and Interface Science, 2016, 469, 213-223.	5.0	133
29	Controlling ion release from bioactive glass foam scaffolds with antibacterial properties. Journal of Materials Science: Materials in Medicine, 2006, 17, 989-996.	1.7	130
30	Softening bioactive glass for bone regeneration: solâ€“gel hybrid materials. Soft Matter, 2011, 7, 5083.	1.2	128
31	Rare earth oxides as nanoadditives in 3-D nanocomposite scaffolds for bone regeneration. Journal of Materials Chemistry, 2010, 20, 8912.	6.7	126
32	Analysis of pore interconnectivity in bioactive glass foams using X-ray microtomography. Scripta Materialia, 2004, 51, 1029-1033.	2.6	121
33	Bioactive Glass Scaffolds for Bone Regeneration. Elements, 2007, 3, 393-399.	0.5	117
34	Preconditioned 70S30C bioactive glass foams promote osteogenesis in vivo. Acta Biomaterialia, 2013, 9, 9169-9182.	4.1	116
35	Bioactive glass and hybrid scaffolds prepared by solâ€“gel method for bone tissue engineering. Advances in Applied Ceramics, 2005, 104, 35-42.	0.6	115
36	Characterizing the hierarchical structures of bioactive solâ€“gel silicate glass and hybrid scaffolds for bone regeneration. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2012, 370, 1422-1443.	1.6	115

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37	Title is missing!. Journal of Materials Science, 2003, 38, 3783-3790.	1.7	110
38	Monodispersed Bioactive Glass Submicron Particles and Their Effect on Bone Marrow and Adipose Tissueâ€Derived Stem Cells. Advanced Healthcare Materials, 2014, 3, 115-125.	3.9	109
39	Chemical characterisation and fabrication of chitosanâ€"silica hybrid scaffolds with 3-glycidoxypropyl trimethoxysilane. Journal of Materials Chemistry B, 2014, 2, 668-680.	2.9	109
40	Additive manufactured porous titanium structures: Through-process quantification of pore and strut networks. Journal of Materials Processing Technology, 2014, 214, 2706-2715.	3.1	109
41	3D Printing of Biocompatible Supramolecular Polymers and their Composites. ACS Applied Materials & Interfaces, 2016, 8, 3115-3122.	4.0	105
42	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, 1373-1387.	1.0	102
43	In vitro osteogenesis by intracellular uptake of strontium containing bioactive glass nanoparticles. Acta Biomaterialia, 2018, 66, 67-80.	4.1	99
44	Cotton-wool-like bioactive glasses for bone regeneration. Acta Biomaterialia, 2014, 10, 3733-3746.	4.1	95
45	Preparation of bioactive glass-polyvinyl alcohol hybrid foams by the sol-gel method. Journal of Materials Science: Materials in Medicine, 2005, 16, 1045-1050.	1.7	93
46	â€œSupercritical Carbon Dioxide in Waterâ€• Emulsion-Templated Synthesis of Porous Calcium Alginate Hydrogels. Advanced Materials, 2006, 18, 501-504.	11.1	90
47	Biomedical materials for new millennium: perspective on the future. Materials Science and Technology, 2001, 17, 891-900.	0.8	89
48	Effect of Calcium Source on Structure and Properties of Solâ€"Gel Derived Bioactive Glasses. Langmuir, 2012, 28, 17465-17476.	1.6	87
49	Direct ink writing of highly bioactive glasses. Journal of the European Ceramic Society, 2018, 38, 837-844.	2.8	87
50	Highly degradable porous melt-derived bioactive glass foam scaffolds for bone regeneration. Acta Biomaterialia, 2017, 57, 449-461.	4.1	84
51	Hierarchical tailoring of strut architecture to control permeability of additive manufactured titanium implants. Materials Science and Engineering C, 2013, 33, 4055-4062.	3.8	83
52	Synthesis of bioactive class II poly(Î³-glutamic acid)/silica hybrids for bone regeneration. Journal of Materials Chemistry, 2010, 20, 8952.	6.7	79
53	Application of FTIR and Raman Spectroscopy to Characterisation of Bioactive Materials and Living Cells. Spectroscopy, 2003, 17, 275-288.	0.8	78
54	Highly flexible silica/chitosan hybrid scaffolds with oriented pores for tissue regeneration. Journal of Materials Chemistry B, 2015, 3, 7560-7576.	2.9	78

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55	Human mesenchymal stem cells differentiate into an osteogenic lineage in presence of strontium containing bioactive glass nanoparticles. Acta Biomaterialia, 2019, 90, 373-392.	4.1	76
56	Quantifying the 3D macrostructure of tissue scaffolds. Journal of Materials Science: Materials in Medicine, 2009, 20, 463-471.	1.7	75
57	A Neutron and Xâ€Ray Diffraction Study of Bioglass^{Â®} with Reverse Monte Carlo Modelling. Advanced Functional Materials, 2007, 17, 3746-3753.	7.8	74
58	Laser Spinning of Bioactive Glass Nanofibers. Advanced Functional Materials, 2009, 19, 3084-3090.	7.8	73
59	Bioactive silicaâ€“poly(Î³-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.	1.2	68
60	Bioactive glasses and electrospun composites that release cobalt to stimulate the HIF pathway for wound healing applications. Biomaterials Research, 2021, 25, 1.	3.2	65
61	Electrospun silica/PLLA hybrid materials for skeletal regeneration. Soft Matter, 2011, 7, 10241.	1.2	64
62	Development and characterization of lithium-releasing silicate bioactive glasses and their scaffolds for bone repair. Journal of Non-Crystalline Solids, 2016, 432, 65-72.	1.5	63
63	Silicaâ€“gelatin hybrids for tissue regeneration: inter-relationships between the process variables. Journal of Sol-Gel Science and Technology, 2014, 69, 288-298.	1.1	61
64	Role of pH and temperature on silica network formation and calcium incorporation into solâ€“gel derived bioactive glasses. Journal of Materials Chemistry, 2012, 22, 1613-1619.	6.7	59
65	Epoxide Opening versus Silica Condensation during Solâ€“Gel Hybrid Biomaterial Synthesis. Chemistry - A European Journal, 2013, 19, 7856-7864.	1.7	59
66	Bioactivity in silica/poly(Î³-glutamic acid) solâ€“gel hybrids through calcium chelation. Acta Biomaterialia, 2013, 9, 7662-7671.	4.1	58
67	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.	1.7	57
68	Hypoxia Inducible Factor-Stabilizing Bioactive Glasses for Directing Mesenchymal Stem Cell Behavior. Tissue Engineering - Part A, 2015, 21, 382-389.	1.6	56
69	Biocompatibility and bioactivity of porous polymer-derived Ca-Mg silicate ceramics. Acta Biomaterialia, 2017, 50, 56-67.	4.1	56
70	Evaluation of 3-D bioactive glass scaffolds dissolution in a perfusion flow system with X-ray microtomography. Acta Biomaterialia, 2011, 7, 2637-2643.	4.1	55
71	Functionalizing natural polymers with alkoxysilane coupling agents: reacting 3-glycidoxypropyl trimethoxysilane with poly(Î³-glutamic acid) and gelatin. Polymer Chemistry, 2017, 8, 1095-1103.	1.9	55
72	Multiscale analyses reveal native-like lamellar bone repair and near perfect bone-contact with porous strontium-loaded bioactive glass. Biomaterials, 2019, 209, 152-162.	5.7	54

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73	Hierarchically structured titanium foams for tissue scaffold applications. Acta Biomaterialia, 2010, 6, 4596-4604.	4.1	53
74	Three-dimensional bioactive glass implants fabricated by rapid prototyping based on CO2 laser cladding. Acta Biomaterialia, 2011, 7, 3476-3487.	4.1	50
75	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, 490-499.	3.9	50
76	Nanoceria provides antioxidant and osteogenic properties to mesoporous silica nanoparticles for osteoporosis treatment. Acta Biomaterialia, 2021, 122, 365-376.	4.1	49
77	Ion Release, Hydroxyapatite Conversion, and Cytotoxicity of Boronâ€Containing Bioactive Glass Scaffolds. International Journal of Applied Glass Science, 2016, 7, 206-215.	1.0	48
78	Poly(Î³â€glutamic acid)/Silica Hybrids with Calcium Incorporated in the Silica Network by Use of a Calcium Alkoxide Precursor. Chemistry - A European Journal, 2014, 20, 8149-8160.	1.7	47
79	Large-Scale Production of 3D Bioactive Glass Macroporous Scaffolds for Tissue Engineering. Journal of Sol-Gel Science and Technology, 2004, 29, 179-188.	1.1	46
80	Exploring GPTMS reactivity against simple nucleophiles: chemistry beyond hybrid materials fabrication. RSC Advances, 2014, 4, 1841-1848.	1.7	46
81	Tailoring Mechanical Properties of Solâ€“Gel Hybrids for Bone Regeneration through Polymer Structure. Chemistry of Materials, 2016, 28, 6127-6135.	3.2	46
82	Application of Raman microspectroscopy to the characterisation of bioactive materials. Materials Characterization, 2002, 49, 255-260.	1.9	45
83	Strategies to direct vascularisation using mesoporous bioactive glass-based biomaterials for bone regeneration. International Materials Reviews, 2017, 62, 392-414.	9.4	44
84	Bouncing and 3D printable hybrids with self-healing properties. Materials Horizons, 2018, 5, 849-860.	6.4	44
85	Osteogenic potential of solâ€“gel bioactive glasses containing manganese. Journal of Materials Science: Materials in Medicine, 2019, 30, 86.	1.7	44
86	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.	5.0	43
87	Toward Smart Implant Synthesis: Bonding Bioceramics of Different Resorbability to Match Bone Growth Rates. Scientific Reports, 2015, 5, 10677.	1.6	42
88	Bioactive glass solâ€gel foam scaffolds: Evolution of nanoporosity during processing and <i>in situ</i> monitoring of apatite layer formation using smallâ€•and wideâ€angle Xâ€ray scattering. Journal of Biomedical Materials Research - Part A, 2009, 91A, 76-83.	2.1	40
89	Binary CaO-SiO(2) gel-glasses for biomedical applications. Bio-Medical Materials and Engineering, 2004, 14, 467-86.	0.4	40
90	Observing cell response to biomaterials. Materials Today, 2006, 9, 34-43.	8.3	39

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91	Synchrotron X-ray microtomography for assessment of bone tissue scaffolds. Journal of Materials Science: Materials in Medicine, 2010, 21, 847-853.	1.7	39
92	Silk fibroin-bioactive glass based advanced biomaterials: towards patient-specific bone grafts. Biomedical Materials (Bristol), 2018, 13, 055012.	1.7	39
93	Surface-modified 3D scaffolds for tissue engineering. Journal of Materials Science: Materials in Medicine, 2002, 13, 837-842.	1.7	38
94	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.	2.9	38
95	Rheological Characterization of Biomaterials Directs Additive Manufacturing of Strontiumâ€Substituted Bioactive Glass/Polycaprolactone Microfibers. Macromolecular Rapid Communications, 2019, 40, e1900019.	2.0	38
96	Particle release from implantoplasty of dental implants and impact on cells. International Journal of Implant Dentistry, 2020, 6, 50.	1.1	38
97	Scaffold channel size influences stem cell differentiation pathway in 3-D printed silica hybrid scaffolds for cartilage regeneration. Biomaterials Science, 2020, 8, 4458-4466.	2.6	37
98	In vitro release kinetics of proteins from bioactive foams. Journal of Biomedical Materials Research Part B, 2003, 67A, 121-129.	3.0	35
99	Lithium-silicate solâ€"gel bioactive glass and the effect of lithium precursor on structureâ€"property relationships. Journal of Sol-Gel Science and Technology, 2017, 81, 84-94.	1.1	35
100	Silica/alginate hybrid biomaterials and assessment of their covalent coupling. Applied Materials Today, 2018, 11, 1-12.	2.3	33
101	Porous bioactive nanostructured scaffolds for bone regeneration: a sol-gel solution. Nanomedicine, 2008, 3, 233-245.	1.7	32
102	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.	1.7	30
103	Electrospinning 3D bioactive glasses for wound healing. Biomedical Materials (Bristol), 2020, 15, 015014.	1.7	30
104	Biodegradable zinc-containing mesoporous silica nanoparticles for cancer therapy. Materials Today Advances, 2020, 6, 100066.	2.5	30
105	Characterisation of the inhomogeneity of solâ€"gel-derived SiO2â€"CaO bioactive glass and a strategy for its improvement. Journal of Sol-Gel Science and Technology, 2010, 53, 255-262.	1.1	29
106	Cobalt-containing bioactive glasses reduce human mesenchymal stem cell chondrogenic differentiation despite HIF-1Î± stabilisation. Journal of the European Ceramic Society, 2018, 38, 877-886.	2.8	29
107	Fabrication and inÂ vitro characterization of electrospun poly (Î³-glutamic acid)-silica hybrid scaffolds for bone regeneration. Polymer, 2016, 91, 106-117.	1.8	28
108	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.	3.2	28

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109	Protein interactions with nanoporous solâ€“gel derived bioactive glasses. Acta Biomaterialia, 2011, 7, 3606-3615.	4.1	27
110	A structural and physical study of solâ€“gel methacrylateâ€“silica hybrids: intermolecular spacing dictates the mechanical properties. Physical Chemistry Chemical Physics, 2015, 17, 29124-29133.	1.3	27
111	Biomaterials, artificial organs and tissue engineering. , 2005, , .		27
112	Antimicrobial Macroporous Gel-Glasses: Dissolution and Cytotoxicity. Key Engineering Materials, 2004, 254-256, 1087-1090.	0.4	26
113	Compressive Strength of Bioactive Solâ€“Gel Glass Foam Scaffolds. International Journal of Applied Glass Science, 2016, 7, 229-237.	1.0	26
114	A multinuclear solid state NMR spectroscopic study of the structural evolution of disordered calcium silicate solâ€“gel biomaterials. Physical Chemistry Chemical Physics, 2015, 17, 2540-2549.	1.3	25
115	Template synthesis of ordered macroporous hydroxyapatite bioceramics. Chemical Communications, 2011, 47, 9048.	2.2	24
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, 1649-1658.	1.7	24
117	A comparative study of oxygen diffusion in tissue engineering scaffolds. Journal of Materials Science: Materials in Medicine, 2014, 25, 2573-2578.	1.7	24
118	Biodegradable inorganic-organic hybrids of methacrylate star polymers for bone regeneration. Acta Biomaterialia, 2017, 54, 411-418.	4.1	24
119	Phosphate content affects structure and bioactivity of solâ€gel silicate bioactive glasses. International Journal of Applied Glass Science, 2017, 8, 372-382.	1.0	23
120	The influence of cobalt incorporation and cobalt precursor selection on the structure and bioactivity of solâ€“gel-derived bioactive glass. Journal of Sol-Gel Science and Technology, 2018, 88, 309-321.	1.1	23
121	Ductile silica/methacrylate hybrids for bone regeneration. Journal of Materials Chemistry B, 2016, 4, 6032-6042.	2.9	22
122	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.	3.8	22
123	Hybrids of Silica/Poly(caprolactone coglycidoxypropyl trimethoxysilane) as Biomaterials. Chemistry of Materials, 2018, 30, 3743-3751.	3.2	21
124	â€œAerogel-likeâ€• polysiloxane-polyurethane hybrid foams with enhanced mechanical and thermal-insulating properties. Composites Science and Technology, 2021, 213, 108917.	3.8	21
125	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	19
126	Bioceramic 3D Implants Produced by Laser Assisted Additive Manufacturing. Physics Procedia, 2014, 56, 309-316.	1.2	19

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127	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, 1689-1699.	1.6	19
128	Monodispersed strontium containing bioactive glass nanoparticles and MC3T3-E1 cellular response. Biomedical Glasses, 2016, 2, .	2.4	18
129	Preparation of electrospun siloxane-poly(lactic acid)-vaterite hybrid fibrous membranes for guided bone regeneration. Composites Science and Technology, 2010, 70, 1889-1893.	3.8	17
130	Novel silica/bis(3-aminopropyl) polyethylene glycol inorganic/organic hybrids byÂsolâ€“gel chemistry. Materials Chemistry and Physics, 2013, 140, 168-175.	2.0	17
131	Synthesis and dissolution behaviour of CaO/SrO-containing solâ€“gel-derived 58S glasses. Journal of Materials Science, 2017, 52, 8858-8870.	1.7	17
132	Long term effects of bioactive glass particulates on dental pulp stem cells in vitro. Biomedical Glasses, 2017, 3, .	2.4	17
133	Bioactive glass scaffold architectures regulate patterning of bone regeneration in vivo. Applied Materials Today, 2020, 20, 100770.	2.3	16
134	Bioglass/carbonate apatite/collagen composite scaffold dissolution products promote human osteoblast differentiation. Materials Science and Engineering C, 2021, 118, 111393.	3.8	16
135	3D Printed Porous Methacrylate/Silica Hybrid Scaffold for Bone Substitution. Advanced Healthcare Materials, 2021, 10, e2100117.	3.9	16
136	Particle release from dental implants immediately after placement â€“ An ex vivo comparison of different implant systems. Dental Materials, 2022, 38, 1004-1014.	1.6	16
137	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.	1.7	15
138	Solâ€“gel derived lithium-releasing glass for cartilage regeneration. Journal of Biomaterials Applications, 2017, 32, 104-113.	1.2	15
139	Interaction of monodispersed strontium containing bioactive glass nanoparticles with macrophages. Materials Science and Engineering C, 2022, 133, 112610.	3.8	15
140	Poly(Î³-glutamic acid)â€“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.	1.7	13
141	Strategies for the chemical analysis of highly porous bone scaffolds using secondary ion mass spectrometry. Biomedical Materials (Bristol), 2014, 9, 015013.	1.7	13
142	Toward Hybrid Materials: Group Transfer Polymerization of 3â€(Trimethoxysilyl)propyl Methacrylate. Macromolecular Rapid Communications, 2015, 36, 1806-1809.	2.0	13
143	Four-dimensional imaging and quantification of viscous flow sintering within a 3D printed bioactive glass scaffold using synchrotron X-rayÂtomography. Materials Today Advances, 2019, 2, 100011.	2.5	13
144	Tribological evaluation of a novel hybrid for repair of articular cartilage defects. Materials Science and Engineering C, 2021, 119, 111495.	3.8	13

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145	Scaffolds for tissue engineering. , 2005, , 201-214.		12
146	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
147	Fabricating solâ€"gel glass monoliths with controlled nanoporosity. Biomedical Materials (Bristol), 2007, 2, 6-10.	1.7	12
148	Acoustic Streaming in a Soft Tissue Microenvironment. Ultrasound in Medicine and Biology, 2019, 45, 208-217.	0.7	12
149	Zinc-Containing Solâ€"Gel Glass Nanoparticles to Deliver Therapeutic Ions. Nanomaterials, 2022, 12, 1691.	1.9	12
150	Indirect Cytotoxicity Evaluation of Silver Doped Bioglass Ag-S70C30 on Human Primary Keratinocytes. Key Engineering Materials, 2005, 284-286, 431-434.	0.4	11
151	Bioactive ceramics and glasses. , 2007, , 52-71.		11
152	Reversible aggregation of responsive polymer-stabilized colloids and the pH-dependent formation of porous scaffolds. Soft Matter, 2011, 7, 7560.	1.2	11
153	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.	1.9	11
154	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.	0.6	11
155	A New Calcium Source for Bioactive Sol-Gel Hybrids. Bioceramics Development and Applications, 2011, 1, 1-3.	0.3	11
156	<i>In situ</i>high-energy X-ray diffraction study of a bioactive calcium silicate foam immersed in simulated body fluid. Journal of Synchrotron Radiation, 2007, 14, 492-499.	1.0	10
157	Auto-catalytic redox polymerisation using nanoceria and glucose oxidase for double network hydrogels. Journal of Materials Chemistry B, 2020, 8, 2834-2844.	2.9	10
158	In vitro changes in the structure of a bioactive calciaâ€"silica solâ€"gel glass explored using isotopic substitution in neutron diffraction. Journal of Non-Crystalline Solids, 2007, 353, 1854-1859.	1.5	9
159	Tailoring the nanoporosity of solâ€"gel derived bioactive glass using trimethylethoxysilane. Journal of Materials Chemistry, 2010, 20, 1489.	6.7	9
160	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.	1.9	9
161	Effect of Comonomers on Physical Properties and Cell Attachment to Silicaâ€Methacrylate/Acrylate Hybrids for Bone Substitution. Macromolecular Rapid Communications, 2017, 38, 1700168.	2.0	9
162	Enzyme degradable star polymethacrylate/silica hybrid inks for 3D printing of tissue scaffolds. Materials Advances, 2020, 1, 3189-3199.	2.6	9

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163	Hyaluronic acid hydrogels reinforced with laser spun bioactive glass micro- and nanofibres doped with lithium. Materials Science and Engineering C, 2021, 126, 112124.	3.8	9
164	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
165	In Situ Monitoring of Chondrocyte Response to Bioactive Scaffolds Using Raman Spectroscopy. Key Engineering Materials, 2005, 284-286, 623-626.	0.4	8
166	Biomedical Applications: Tissue Engineering. , 2006, , 547-570.		8
167	RAFT Polymerization of <i>N</i>â€[3â€(Trimethoxysilyl)â€propyl]acrylamide and Its Versatile Use in Silica Hybrid Materials. Macromolecular Rapid Communications, 2015, 36, 2060-2064.	2.0	8
168	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.	1.7	8
169	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.	2.4	8
170	Cobaltâ€containing spherical glass nanoparticles for therapeutic ion release. Journal of the American Ceramic Society, 2022, 105, 1765-1777.	1.9	8
171	Preparation of Electrospun Poly(Lactic Acid)-Based Hybrids Containing Siloxane-Doped Vaterite Particles for Bone Regeneration. Journal of Biomaterials Science, Polymer Edition, 2012, 23, 1369-1380.	1.9	7
172	ToF-SIMS evaluation of calcium-containing silica/Î³-PGA hybrid systems for bone regeneration. Applied Surface Science, 2014, 309, 231-239.	3.1	7
173	Highly porous polymer-derived wollastoniteâ€“hydroxycarbonate apatite ceramics for bone regeneration. Biomedical Materials (Bristol), 2016, 11, 025016.	1.7	7
174	Silica/methacrylate class II hybrid: telomerisation vs. RAFT polymerisation. Polymer Chemistry, 2017, 8, 3603-3611.	1.9	7
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