Jonathan C Knowles

List of Publications by Year
in descending order

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459 papers	23,980 citations	6250 80 h-index	16164 124 g-index
467 all docs	467 docs citations	467 times ranked	22133 citing authors

#	Article	IF	Citations
1	Solâ€“gel based materials for biomedical applications. Progress in Materials Science, 2016, 77, 1-79.	16.0	608
2	Hydroxyapatite/poly(Îµ-caprolactone) composite coatings on hydroxyapatite porous bone scaffold for drug delivery. Biomaterials, 2004, 25, 1279-1287.	5.7	480
3	Phosphate based glasses for biomedical applications. Journal of Materials Chemistry, 2003, 13, 2395.	6.7	371
4	Phosphate glasses for tissue engineering: Part 1. Processing and characterisation of a ternary-based P2O5â€“CaOâ€“Na2O glass system. Biomaterials, 2004, 25, 491-499.	5.7	334
5	Electrospinning biomedical nanocomposite fibers of hydroxyapatite/poly(lactic acid) for bone regeneration. Journal of Biomedical Materials Research - Part A, 2006, 79A, 643-649.	2.1	320
6	Naturally and synthetic smart composite biomaterials for tissue regeneration. Advanced Drug Delivery Reviews, 2013, 65, 471-496.	6.6	308
7	Comparison of nanoscale and microscale bioactive glass on the properties of P(3HB)/BioglassÂ® composites. Biomaterials, 2008, 29, 1750-1761.	5.7	305
8	Magnesium incorporation into hydroxyapatite. Biomaterials, 2011, 32, 1826-1837.	5.7	296
9	Bioactive functional materials: a perspective on phosphate-based glasses. Journal of Materials Chemistry, 2009, 19, 690-701.	6.7	289
10	Effect of sodium hypochlorite on mechanical properties of dentine and tooth surface strain. International Endodontic Journal, 2001, 34, 120-132.	2.3	276
11	Characterisation of antibacterial copper releasing degradable phosphate glass fibres. Biomaterials, 2005, 26, 2247-2254.	5.7	255
12	Collagen â€" Emerging collagen based therapies hit the patient. Advanced Drug Delivery Reviews, 2013, 65, 429-456.	6.6	249
13	Quantitative scoring of differential drug sensitivity for individually optimized anticancer therapies. Scientific Reports, 2014, 4, 5193.	1.6	243
14	Production and Potential of Bioactive Glass Nanofibers as a Next-Generation Biomaterial. Advanced Functional Materials, 2006, 16, 1529-1535.	7.8	237
15	Bone formation controlled by biologically relevant inorganic ions: Role and controlled delivery from phosphate-based glasses. Advanced Drug Delivery Reviews, 2013, 65, 405-420.	6.6	223
16	Fluor-hydroxyapatite solâ€“gel coating on titanium substrate for hard tissue implants. Biomaterials, 2004, 25, 3351-3358.	5.7	212
17	Effect of exposing dentine to sodium hypochlorite and calcium hydroxide on its flexural strength and elastic modulus. International Endodontic Journal, 2001, 34, 113-119.	2.3	203
18	Processing, characterisation and biocompatibility of iron-phosphate glass fibres for tissue engineering. Biomaterials, 2004, 25, 3223-3232.	5.7	202

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19	Effect of porosity reduction by compaction on compressive strength and microstructure of calcium phosphate cement. Journal of Biomedical Materials Research Part B, 2002, 63, 1-9.	3.0	185
20	Use of multiple unconfined compression for control of collagen gel scaffold density and mechanical properties. Soft Matter, 2006, 2, 986.	1.2	179
21	Hydroxyapatite porous scaffold engineered with biological polymer hybrid coating for antibiotic Vancomycin release. Journal of Materials Science: Materials in Medicine, 2005, 16, 189-195.	1.7	176
22	Household Income and Child Schooling in Vietnam. World Bank Economic Review, 1999, 13, 211-256.	1.4	172
23	Drug Delivery Strategies for Platinum-Based Chemotherapy. ACS Nano, 2017, 11, 8560-8578.	7.3	172
24	An elastomeric patch derived from poly(glycerol sebacate) for delivery of embryonic stem cells to the heart. Biomaterials, 2010, 31, 3885-3893.	5.7	168
25	Hydroxyapatite and gelatin composite foams processed via novel freeze-drying and crosslinking for use as temporary hard tissue scaffolds. Journal of Biomedical Materials Research - Part A, 2005, 72A, 136-145.	2.1	167
26	Tissue engineering in dentistry. Journal of Dentistry, 2014, 42, 915-928.	1.7	167
27	Development of soluble glasses for biomedical use Part II: the biological response of human osteoblast cell lines to phosphate-based soluble glasses. Journal of Materials Science: Materials in Medicine, 2000, 11, 615-620.	1.7	161
28	Antimicrobial Galliumâ€Doped Phosphateâ€Based Glasses. Advanced Functional Materials, 2008, 18, 732-741.	7.8	161
29	Evaluation of decellularization protocols for production of tubular small intestine submucosa scaffolds for use in oesophageal tissue engineering. Acta Biomaterialia, 2014, 10, 5043-5054.	4.1	151
30	Phosphate glasses for tissue engineering: Part 2. Processing and characterisation of a ternary-based P2O5â€“CaOâ€“Na2O glass fibre system. Biomaterials, 2004, 25, 501-507.	5.7	149
31	Poly(3-hydroxybutyrate) multifunctional composite scaffolds for tissue engineering applications. Biomaterials, 2010, 31, 2806-2815.	5.7	149
32	Biocompatibility of magnesium phosphate minerals and their stability under physiological conditions. Acta Biomaterialia, 2011, 7, 2678-2685.	4.1	145
33	The biaxial flexural strength and fatigue property of Lavaâ„¢ Y-TZP dental ceramic. Dental Materials, 2007, 23, 1018-1029.	1.6	142
34	Porous scaffolds of gelatin-hydroxyapatite nanocomposites obtained by biomimetic approach: Characterization and antibiotic drug release. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2005, 74B, 686-698.	1.6	141
35	In vitro ageing of brushite calcium phosphate cement. Biomaterials, 2003, 24, 4133-4141.	5.7	139
36	Development of soluble glasses for biomedical use Part I: in vitro solubility measurement. Journal of Materials Science: Materials in Medicine, 2000, 11, 609-614.	1.7	136

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37	Structure and properties of strontium-doped phosphate-based glasses. Journal of the Royal Society Interface, 2009, 6, 435-446.	1.5	135
38	Effect of nanoparticulate bioactive glass particles on bioactivity and cytocompatibility of poly(3-hydroxybutyrate) composites. Journal of the Royal Society Interface, 2010, 7, 453-465.	1.5	134
39	Craniofacial muscle engineering using a 3-dimensional phosphate glass fibre construct. Biomaterials, 2005, 26, 1497-1505.	5.7	128
40	Preparation and characterization of fluoride-substituted apatites. Journal of Materials Science: Materials in Medicine, 1997, 8, 185-191.	1.7	127
41	Fatigue and fracture properties of yttria partially stabilized zirconia crown systems. Dental Materials, 2008, 24, 308-318.	1.6	126
42	Effect of iron on the surface, degradation and ion release properties of phosphate-based glass fibres. Acta Biomaterialia, 2005, 1, 553-563.	4.1	125
43	Effect of Cell Density on Osteoblastic Differentiation and Matrix Degradation of Biomimetic Dense Collagen Scaffolds. Biomacromolecules, 2008, 9, 129-135.	2.6	120
44	Soluble phosphate glasses: in vitro studies using human cells of hard and soft tissue origin. Biomaterials, 2004, 25, 2283-2292.	5.7	118
45	Novel fabrication techniques to produce microspheres by thermally induced phase separation for tissue engineering and drug delivery. Acta Biomaterialia, 2008, 4, 264-272.	4.1	114
46	Physical and biocompatibility studies of novel titanium dioxide doped phosphate-based glasses for bone tissue engineering applications. Journal of Materials Science: Materials in Medicine, 2008, 19, 377-386.	1.7	110
47	Development of a degradable composite for orthopaedic use: mechanical evaluation of an hydroxyapatite-polyhydroxybutyrate composite material. Biomaterials, 1993, 14, 793-796.	5.7	108
48	Microstructural characterization of glass-reinforced hydroxyapatite composites. Biomaterials, 1994, 15, 5-10.	5.7	108
49	Controlled delivery of antimicrobial gallium ions from phosphate-based glasses. Acta Biomaterialia, 2009, 5, 1198-1210.	4.1	108
50	In vitro bioactivity and gene expression by cells cultured on titanium dioxide doped phosphate-based glasses. Biomaterials, 2007, 28, 2967-2977.	5.7	106
51	Development of hydroxyapatite bone scaffold for controlled drug release via poly(?-caprolactone) and hydroxyapatite hybrid coatings. Journal of Biomedical Materials Research Part B, 2004, 70B, 240-249.	3.0	105
52	Biochemical changes caused by decellularization may compromise mechanical integrity of tracheal scaffolds. Acta Biomaterialia, 2013, 9, 5251-5261.	4.1	105
53	A mini review focused on the proangiogenic role of silicate ions released from silicon-containing biomaterials. Journal of Tissue Engineering, 2017, 8, 204173141770733.	2.3	105
54	Subretinal Pigment Epithelial Deposition of Drusen Components Including Hydroxyapatite in a Primary Cell Culture Model. , 2017, 58, 708.		105

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55	Effect of fluoridation of hydroxyapatite in hydroxyapatite-polycaprolactone composites on osteoblast activity. Biomaterials, 2005, 26, 4395-4404.	5.7	104
56	Effect of Silver Content on the Structure and Antibacterial Activity of Silver-Doped Phosphate-Based Glasses. Antimicrobial Agents and Chemotherapy, 2007, 51, 4453-4461.	1.4	103
57	Controlled Microchannelling in Dense Collagen Scaffolds by Soluble Phosphate Glass Fibers. Biomacromolecules, 2007, 8, 543-551.	2.6	103
58	The effect of increasing copper content in phosphate-based glasses on biofilms of Streptococcus sanguis. Biomaterials, 2003, 24, 1797-1807.	5.7	102
59	Speciation and the nature of ZnO thin films from chemical bath deposition. Journal of Materials Chemistry, 1996, 6, 1135.	6.7	101
60	Synthesis and structural characterization of P2O5â€“CaOâ€“Na2O solâ€“gel materials. Journal of Non-Crystalline Solids, 2007, 353, 1141-1149.	1.5	101
61	Biocompatible magnetite nanoparticles with varying silicaâ€coating layer for use in biomedicine: Physicochemical and magnetic properties, and cellular compatibility. Journal of Biomedical Materials Research - Part A, 2012, 100A, 1734-1742.	2.1	101
62	Multifunctional Hybrid Nanocarrier: Magnetic CNTs Ensheathed with Mesoporous Silica for Drug Delivery and Imaging System. ACS Applied Materials & Interfaces, 2014, 6, 2201-2208.	4.0	101
63	Therapeutically relevant aspects in bone repair and regeneration. Materials Today, 2015, 18, 573-589.	8.3	101
64	Development of a degradable composite for orthopaedic use: in vivo biomechanical and histological evaluation of two bioactive degradable composites based on the polyhydroxybutyrate polymer. Biomaterials, 1992, 13, 491-496.	5.7	100
65	Investigation of thermal parameters and crytallisation in a ternary CaOâ€“Na2Oâ€“P2O5-based glass system. Biomaterials, 2001, 22, 497-501.	5.7	99
66	Carbon-nanotube-interfaced glass fiber scaffold for regeneration of transected sciatic nerve. Acta Biomaterialia, 2015, 13, 324-334.	4.1	99
67	Thermal decomposition of synthesised carbonate hydroxyapatite. Journal of Materials Science: Materials in Medicine, 2002, 13, 529-533.	1.7	98
68	Adsorption and release studies of sodium ampicillin from hydroxyapatite and glass-reinforced hydroxyapatite composites. Biomaterials, 2001, 22, 1393-1400.	5.7	95
69	Antimicrobial effect of silver-doped phosphate-based glasses. Journal of Biomedical Materials Research - Part A, 2006, 79A, 618-626.	2.1	95
70	Poly-3-hydroxyoctanoate P(3HO), a Medium Chain Length Polyhydroxyalkanoate Homopolymer from Pseudomonas mendocina. Biomacromolecules, 2011, 12, 2126-2136.	2.6	93
71	Investigation of the solubility and ion release in the glass system K2Oâ€“Na2Oâ€“CaOâ€“P2O5. Biomaterials, 2001, 22, 3091-3096.	5.7	92
72	JAK1/2 and BCL2 inhibitors synergize to counteract bone marrow stromal cellâ€induced protection of AML. Blood, 2017, 130, 789-802.	0.6	90

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73	Calcium phosphates and glass composite coatings on zirconia for enhanced biocompatibility. Biomaterials, 2004, 25, 4203-4213.	5.7	89
74	Strategies for osteochondral repair: Focus on scaffolds. Journal of Tissue Engineering, 2014, 5, 204173141454185.	2.3	89
75	Mimicking Hierarchical Complexity of the Osteochondral Interface Using Electrospun Silkâ€“Bioactive Glass Composites. ACS Applied Materials & Interfaces, 2017, 9, 8000-8013.	4.0	89
76	Effect of increasing titanium dioxide content on bulk and surface properties of phosphate-based glasses. Acta Biomaterialia, 2008, 4, 523-534.	4.1	88
77	The effect of composition on the structure of sodium borophosphate glasses. Journal of Non-Crystalline Solids, 2008, 354, 3671-3677.	1.5	87
78	Hierarchical microchanneled scaffolds modulate multiple tissue-regenerative processes of immune-responses, angiogenesis, and stem cell homing. Biomaterials, 2020, 227, 119548.	5.7	86
79	Nanotechnology in dentistry: prevention, diagnosis, and therapy. International Journal of Nanomedicine, 2015, 10, 6371.	3.3	85
80	Hydroxyapatite and titania sol-gel composite coatings on titanium for hard tissue implants; Mechanical andin vitro biological performance. Journal of Biomedical Materials Research Part B, 2005, 72B, 1-8.	3.0	84
81	Calcium hydroxide nanoparticles for the conservation of cultural heritage: new formulations for the deacidification of cellulose-based artifacts. Applied Physics A: Materials Science and Processing, 2014, 114, 685-693.	1.1	84
82	Glass reinforced hydroxyapatite for hard tissue surgeryâ€”Part 1: mechanical properties. Biomaterials, 2001, 22, 2811-2815.	5.7	83
83	Utilizing Coreâ€“Shell Fibrous Collagen-Alginate Hydrogel Cell Delivery System for Bone Tissue Engineering. Tissue Engineering - Part A, 2014, 20, 103-114.	1.6	83
84	Weight loss, ion release and initial mechanical properties of a binary calcium phosphate glass fibre/PCL composite. Acta Biomaterialia, 2008, 4, 1307-1314.	4.1	82
85	Multi-functional P(3HB) microsphere/45S5 BioglassÂ®-based composite scaffolds for bone tissue engineering. Acta Biomaterialia, 2010, 6, 2773-2786.	4.1	82
86	Materials roles for promoting angiogenesis in tissue regeneration. Progress in Materials Science, 2021, 117, 100732.	16.0	81
87	Endothelin-1 and Angiogenesis in Cancer. Current Vascular Pharmacology, 2005, 3, 309-314.	0.8	79
88	Characterization of carbon nanotube (MWCNT) containing P(3HB)/bioactive glass composites for tissue engineering applications. Acta Biomaterialia, 2010, 6, 735-742.	4.1	79
89	Evaluation of Dimethylhydrazine Induced Tumours in Mice as a Model System for Colorectal Cancer. British Journal of Cancer, 1973, 28, 530-543.	2.9	78
90	Flexural strength, fatigue life, and stressâ€induced phase transformation study of Yâ€TZP dental ceramic. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2009, 88B, 366-377.	1.6	78

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91	Retention of mechanical properties and cytocompatibility of a phosphateâ€based glass fiber/polylactic acid composite. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2009, 89B, 18-27.	1.6	78
92	Organosilica Nanoparticles with an Intrinsic Secondary Amine: An Efficient and Reusable Adsorbent for Dyes. ACS Applied Materials & Interfaces, 2017, 9, 15566-15576.	4.0	77
93	Development of a glass reinforced hydroxyapatite with enhanced mechanical properties. The effect of glass composition on mechanical properties and its relationship to phase changes. Journal of Biomedical Materials Research Part B, 1993, 27, 1591-1598.	3.0	75
94	A structural study of solâ€“gel and melt-quenched phosphate-based glasses. Journal of Non-Crystalline Solids, 2007, 353, 1759-1765.	1.5	75
95	A review of the structure of human and bovine dental hard tissues and their physicochemical behaviour in relation to erosive challenge and remineralisation. Journal of Dentistry, 2011, 39, 266-272.	1.7	75
96	An analysis of income transfers in a developing country. Journal of Development Economics, 1981, 8, 205-226.	2.1	73
97	Dense collagen matrix accelerates osteogenic differentiation and rescues the apoptotic response to MMP inhibition. Bone, 2008, 43, 377-385.	1.4	73
98	Controlled Delivery of Gentamicin Using Poly(3-hydroxybutyrate) Microspheres. International Journal of Molecular Sciences, 2011, 12, 4294-4314.	1.8	73
99	Reinforcement of hydroxyapatite by adding P2O5-CaO glasses with Na2O, K2O and MgO. Journal of Materials Science: Materials in Medicine, 1996, 7, 187-189.	1.7	72
100	Correlation between structure and compressive strength in a reticulated glass-reinforced hydroxyapatite foam. Journal of Materials Science: Materials in Medicine, 2002, 13, 485-489.	1.7	71
101	Synthesis and characterisation of magnesium substituted calcium phosphate bioceramic nanoparticles made via continuous hydrothermal flow synthesis. Journal of Materials Chemistry, 2008, 18, 5900.	6.7	70
102	Photocatalytic activities of N-doped nano-titanias and titanium nitride. Journal of the European Ceramic Society, 2009, 29, 2343-2353.	2.8	70
103	Probing the calcium and sodium local environment in bones and teeth using multinuclear solid state NMR and X-ray absorption spectroscopy. Physical Chemistry Chemical Physics, 2010, 12, 1081-1091.	1.3	70
104	Titanium phosphate glass microspheres for bone tissue engineering. Acta Biomaterialia, 2012, 8, 4181-4190.	4.1	70
105	Structural characterization and physical properties of P2O5â€“CaOâ€“Na2Oâ€“TiO2 glasses by Fourier transform infrared, Raman and solid-state magic angle spinning nuclear magnetic resonance spectroscopies. Acta Biomaterialia, 2012, 8, 333-340.	4.1	70
106	Sintering effects in a glass reinforced hydroxyapatite. Biomaterials, 1996, 17, 1437-1442.	5.7	69
107	Solâ€“gel synthesis of the P2O5â€“CaOâ€“Na2Oâ€“SiO2 system as a novel bioresorbable glass. Journal of Materials Chemistry, 2005, 15, 2134.	6.7	69
108	Novel Poly(3-hydroxyoctanoate)/Poly(3-hydroxybutyrate) blends for medical applications. Reactive and Functional Polymers, 2013, 73, 1340-1348.	2.0	69

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109	Synthesis and Characterization of Some Mixed Alkyl Thiocarbamates of Gallium and Indium, Precursors for III/VI Materials: The X-ray Single-Crystal Structures of Dimethyl- and Diethylindium Diethyldithiocarbamate. Chemistry of Materials, 1995, 7, 716-724.	3.2	67
110	Cement from magnesium substituted hydroxyapatite. Journal of Materials Science: Materials in Medicine, 2005, 16, 455-460.	1.7	66
111	Initial responses of human osteoblasts to solâ€“gel modified titanium with hydroxyapatite and titania composition. Acta Biomaterialia, 2006, 2, 547-556.	4.1	66
112	The effect of metal ions released from different dental implant-abutment couples on osteoblast function and secretion of bone resorbing mediators. Journal of Dentistry, 2017, 66, 91-101.	1.7	66
113	Glass-reinforced hydroxyapatite: A comprehensive study of the effect of glass composition on the crystallography of the composite. , 1998, 39, 244-251.		65
114	The effects of oxalate-containing products on the exposed dentine surface: an SEM investigation. Journal of Oral Rehabilitation, 2001, 28, 1037-1044.	1.3	65
115	High-Throughput Continuous Hydrothermal Synthesis of an Entire Nanoceramic Phase Diagram. ACS Combinatorial Science, 2009, 11, 829-834.	3.3	65
116	Effect of heat treatment on pulsed laser deposited amorphous calcium phosphate coatings. , 1998, 43, 69-76.		64
117	Synthesis and characterization of doped nano-sized ceriaâ€“zirconia solid solutions. Applied Catalysis B: Environmental, 2009, 90, 405-415.	10.8	64
118	Electrohydrodynamic encapsulation of cisplatin in poly (lactic-co-glycolic acid) nanoparticles for controlled drug delivery. Nanomedicine: Nanotechnology, Biology, and Medicine, 2016, 12, 1919-1929.	1.7	64
119	Advances in nanoparticle development for improved therapeutics delivery: nanoscale topographical aspect. Journal of Tissue Engineering, 2019, 10, 204173141987752.	2.3	64
120	Correlates of Adjustment Among Cancer Survivors. Journal of Psychosocial Oncology, 2002, 20, 37-59.	0.6	63
121	Degradation and drug release of phosphate glass/polycaprolactone biological composites for hard-tissue regeneration. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2005, 75B, 34-41.	1.6	63
122	Polylactic acidâ€“phosphate glass composite foams as scaffolds for bone tissue engineering. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2007, 80B, 322-331.	1.6	63
123	The biaxial flexural strength of two pressable ceramic systems. Journal of Dentistry, 1999, 27, 183-196.	1.7	62
124	Hydroxyapatite, fluor-hydroxyapatite and fluorapatite produced via the solâ€“gel method: dissolution behaviour and biological properties after crystallisation. Journal of Materials Science: Materials in Medicine, 2014, 25, 47-53.	1.7	62
125	Dual actions of osteoclastic-inhibition and osteogenic-stimulation through strontium-releasing bioactive nanoscale cement imply biomaterial-enabled osteoporosis therapy. Biomaterials, 2021, 276, 121025.	5.7	62
126	Effects of ultrasound on the growth and function of bone and periodontal ligament cells in vitro. Ultrasound in Medicine and Biology, 2001, 27, 579-586.	0.7	61

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127	The effect of MgO on the solubility behavior and cell proliferation in a quaternary soluble phosphate based glass system. Journal of Materials Science: Materials in Medicine, 2002, 13, 549-556.	1.7	61
128	Zinc-containing phosphate-based glasses for tissue engineering. Biomedical Materials (Bristol), 2007, 2, 11-20.	1.7	61
129	Conversion, shrinkage, water sorption, flexural strength and modulus of re-mineralizing dental composites. Dental Materials, 2015, 31, 1279-1289.	1.6	60
130	Effect of biphasic calcium phosphates on drug release and biological and mechanical properties of poly(?-caprolactone) composite membranes. Journal of Biomedical Materials Research Part B, 2004, 70A, 467-479.	3.0	59
131	Biomimetic Approach to Dental Implants. Current Pharmaceutical Design, 2008, 14, 2201-2211.	0.9	59
132	Poly(3â€hydroxybutyrate) production by Bacillus cereus SPV using sugarcane molasses as the main carbon source. Biotechnology Journal, 2012, 7, 293-303.	1.8	59
133	Nerve tissue engineering using blends of poly(3â€hydroxyalkanoates) for peripheral nerve regeneration. Engineering in Life Sciences, 2015, 15, 612-621.	2.0	59
134	Adhesion and microstructural characterization of plasma-sprayed hydroxyapatite/glass ceramic coatings onto Ti-6A1-4V substrates. Surface and Coatings Technology, 1998, 102, 191-196.	2.2	58
135	Effect of glass composition on the degradation properties and ion release characteristics of phosphate glassâ€"polycaprolactone composites. Biomaterials, 2005, 26, 2209-2218.	5.7	58
136	Development of dental composites with reactive fillers that promote precipitation of antibacterial-hydroxyapatite layers. Materials Science and Engineering C, 2016, 60, 285-292.	3.8	58
137	Liquid phase sintering of hydroxyapatite by phosphate and silicate glass additions: structure and properties of the composites. Journal of Materials Science: Materials in Medicine, 1995, 6, 348-352.	1.7	56
138	An in vitro study of the compressive load at fracture of Procera AllCeram crowns with varying thickness of veneer porcelain. Journal of Prosthetic Dentistry, 2003, 89, 154-160.	1.1	56
139	Hydroxyapatite, fluor-hydroxyapatite and fluorapatite produced via the solâ€"gel method: Bonding to titanium and scanning electron microscopy. Dental Materials, 2013, 29, 521-529.	1.6	56
140	Assessment of Polymer/Bioactive Glass-Composite Microporous Spheres for Tissue Regeneration Applications. Tissue Engineering - Part A, 2009, 15, 1451-1461.	1.6	55
141	Solâ€"Gel Synthesis and Electrospraying of Biodegradable (P₂O₅)₅₅â€"(CaO)₃₀â€"(Na₂O)₁₅ Glass Nanospheres as a Transient Contrast Agent for Ultrasound Stem Cell Imaging. ACS Nano, 2015, 9, 1868-1877.	7.3	55
142	Performance of novel high throughput multi electrospray systems for forming of polymeric micro/nanoparticles. Materials and Design, 2017, 126, 73-84.	3.3	54
143	Flexural strength optimisation of a leucite reinforced glass ceramic. Dental Materials, 2001, 17, 21-33.	1.6	53
144	Effect of increasing silver content in phosphate-based glasses on biofilms ofStreptococcus sanguis. Journal of Biomedical Materials Research Part B, 2003, 67A, 401-412.	3.0	53

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145	Solâ€“gel synthesis and structural characterisation of P₂O₅â€“B₂O₃â€“Na₂O glasses for biomedical applications. Journal of Materials Chemistry, 2009, 19, 150-158.	6.7	53
146	Nanotherapeutics for regeneration of degenerated tissue infected by bacteria through the multiple delivery of bioactive ions and growth factor with antibacterial/angiogenic and osteogenic/odontogenic capacity. Bioactive Materials, 2021, 6, 123-136.	8.6	53
147	New solâ€“gel synthesis of a (CaO)0.3(Na2O)0.2(P2O5)0.5 bioresorbable glass and its structural characterisation. Journal of Materials Chemistry, 2007, 17, 4777.	6.7	52
148	The structure and properties of silver-doped phosphate-based glasses. Journal of Materials Science, 2007, 42, 9827-9835.	1.7	52
149	Effect of surface treatment on the bioactivity of nickelâ€“titanium. Acta Biomaterialia, 2008, 4, 1969-1984.	4.1	52
150	High-strength nanograined and translucent hydroxyapatite monoliths via continuous hydrothermal synthesis and optimized spark plasma sintering. Acta Biomaterialia, 2011, 7, 791-799.	4.1	52
151	Sol-gel-modified titanium with hydroxyapatite thin films and effect on osteoblast-like cell responses. Journal of Biomedical Materials Research - Part A, 2005, 74A, 294-305.	2.1	51
152	Quantification of Anion and Cation Release from a Range of Ternary Phosphate-based Glasses with Fixed 45 mol% P2O5. Journal of Biomaterials Applications, 2005, 20, 65-80.	1.2	51
153	A study of the formation of amorphous calcium phosphate and hydroxyapatite on melt quenched BioglassÂ® using surface sensitive shallow angle X-ray diffraction. Journal of Materials Science: Materials in Medicine, 2009, 20, 883-888.	1.7	51
154	Nano-graphene oxide/polyurethane nanofibers: mechanically flexible and myogenic stimulating matrix for skeletal tissue engineering. Journal of Tissue Engineering, 2020, 11, 204173141990042.	2.3	51
155	Hydroxyapatite and fluor-hydroxyapatite layered film on titanium processed by a sol-gel route for hard-tissue implants. Journal of Biomedical Materials Research Part B, 2004, 71B, 66-76.	3.0	50
156	Processing, characterisation, and biocompatibility of zinc modified metaphosphate based glasses for biomedical applications. Journal of Materials Science: Materials in Medicine, 2008, 19, 1669-1679.	1.7	50
157	Doping of a high calcium oxide metaphosphate glass with titanium dioxide. Journal of Non-Crystalline Solids, 2009, 355, 991-1000.	1.5	50
158	Biospectroscopy of Nanodiamond-Induced Alterations in Conformation of Intra- and Extracellular Proteins: A Nanoscale IR Study. Analytical Chemistry, 2016, 88, 7530-7538.	3.2	50
159	Poly(3-hydroxyoctanoate), a promising new material for cardiac tissue engineering. Journal of Tissue Engineering and Regenerative Medicine, 2018, 12, e495-e512.	1.3	50
160	Structural changes of thermally sprayed hydroxyapatite investigated by Rietveld analysis. Biomaterials, 1996, 17, 639-645.	5.7	49
161	Ion release characteristics, precipitate formation and sealing ability of a phosphate glassâ€“polycaprolactone-based composite for use as a root canal obturation material. Dental Materials, 2009, 25, 400-410.	1.6	48
162	Chemical Modification of Bacterial Cellulose for the Development of an Antibacterial Wound Dressing. Frontiers in Bioengineering and Biotechnology, 2020, 8, 557885.	2.0	48

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163	High strength re-mineralizing, antibacterial dental composites with reactive calcium phosphates. Dental Materials, 2013, 29, 473-484.	1.6	47
164	Hydroxyapatite, fluor-hydroxyapatite and fluorapatite produced via the solâ€“gel method. Optimisation, characterisation and rheology. Dental Materials, 2013, 29, 166-173.	1.6	47
165	Binary polyhydroxyalkanoate systems for soft tissue engineering. Acta Biomaterialia, 2018, 71, 225-234.	4.1	47
166	Molecularly Imprinted Polymers and Electrospinning: Manufacturing Convergence for Nextâ€Level Applications. Advanced Functional Materials, 2020, 30, 2001955.	7.8	47
167	3D culture technologies of cancer stem cells: promising ex vivo tumor models. Journal of Tissue Engineering, 2020, 11, 204173142093340.	2.3	47
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