

# Jonathan C Knowles

## List of Publications by Citations

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446  
papers

19,766  
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74  
h-index

114  
g-index

467  
ext. papers

21,868  
ext. citations

6.6  
avg, IF

6.88  
L-index

#	Paper	IF	Citations
446	Hydroxyapatite/poly(epsilon-caprolactone) composite coatings on hydroxyapatite porous bone scaffold for drug delivery. <i>Biomaterials</i> , <b>2004</b> , 25, 1279-87	15.6	435
445	Sol-gel based materials for biomedical applications. <i>Progress in Materials Science</i> , <b>2016</b> , 77, 1-79	42.2	430
444	Phosphate based glasses for biomedical applications. <i>Journal of Materials Chemistry</i> , <b>2003</b> , 13, 2395		326
443	Electrospinning biomedical nanocomposite fibers of hydroxyapatite/poly(lactic acid) for bone regeneration. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2006</b> , 79, 643-9	5.4	291
442	Phosphate glasses for tissue engineering: Part 1. Processing and characterisation of a ternary-based P2O5-CaO-Na2O glass system. <i>Biomaterials</i> , <b>2004</b> , 25, 491-9	15.6	285
441	Comparison of nanoscale and microscale bioactive glass on the properties of P(3HB)/Bioglass composites. <i>Biomaterials</i> , <b>2008</b> , 29, 1750-61	15.6	280
440	Naturally and synthetic smart composite biomaterials for tissue regeneration. <i>Advanced Drug Delivery Reviews</i> , <b>2013</b> , 65, 471-96	18.5	253
439	Magnesium incorporation into hydroxyapatite. <i>Biomaterials</i> , <b>2011</b> , 32, 1826-37	15.6	245
438	Bioactive functional materials: a perspective on phosphate-based glasses. <i>Journal of Materials Chemistry</i> , <b>2009</b> , 19, 690-701		245
437	Characterisation of antibacterial copper releasing degradable phosphate glass fibres. <i>Biomaterials</i> , <b>2005</b> , 26, 2247-54	15.6	223
436	Production and Potential of Bioactive Glass Nanofibers as a Next-Generation Biomaterial. <i>Advanced Functional Materials</i> , <b>2006</b> , 16, 1529-1535	15.6	221
435	Effect of sodium hypochlorite on mechanical properties of dentine and tooth surface strain. <i>International Endodontic Journal</i> , <b>2001</b> , 34, 120-32	5.4	214
434	Collagen--emerging collagen based therapies hit the patient. <i>Advanced Drug Delivery Reviews</i> , <b>2013</b> , 65, 429-56	18.5	205
433	Fluor-hydroxyapatite sol-gel coating on titanium substrate for hard tissue implants. <i>Biomaterials</i> , <b>2004</b> , 25, 3351-8	15.6	183
432	Processing, characterisation and biocompatibility of iron-phosphate glass fibres for tissue engineering. <i>Biomaterials</i> , <b>2004</b> , 25, 3223-32	15.6	179
431	Bone formation controlled by biologically relevant inorganic ions: role and controlled delivery from phosphate-based glasses. <i>Advanced Drug Delivery Reviews</i> , <b>2013</b> , 65, 405-20	18.5	177
430	Effect of exposing dentine to sodium hypochlorite and calcium hydroxide on its flexural strength and elastic modulus. <i>International Endodontic Journal</i> , <b>2001</b> , 34, 113-9	5.4	168

429	Use of multiple unconfined compression for control of collagen gel scaffold density and mechanical properties. <i>Soft Matter</i> , <b>2006</b> , 2, 986-992	3.6	166
428	Effect of porosity reduction by compaction on compressive strength and microstructure of calcium phosphate cement. <i>Journal of Biomedical Materials Research Part B</i> , <b>2002</b> , 63, 1-9		164
427	Hydroxyapatite porous scaffold engineered with biological polymer hybrid coating for antibiotic Vancomycin release. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2005</b> , 16, 189-95	4.5	159
426	Hydroxyapatite and gelatin composite foams processed via novel freeze-drying and crosslinking for use as temporary hard tissue scaffolds. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2005</b> , 72, 136-45	5.4	151
425	Quantitative scoring of differential drug sensitivity for individually optimized anticancer therapies. <i>Scientific Reports</i> , <b>2014</b> , 4, 5193	4.9	150
424	Development of soluble glasses for biomedical use Part II: the biological response of human osteoblast cell lines to phosphate-based soluble glasses. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2000</b> , 11, 615-20	4.5	147
423	An elastomeric patch derived from poly(glycerol sebacate) for delivery of embryonic stem cells to the heart. <i>Biomaterials</i> , <b>2010</b> , 31, 3885-93	15.6	145
422	Poly(3-hydroxybutyrate) multifunctional composite scaffolds for tissue engineering applications. <i>Biomaterials</i> , <b>2010</b> , 31, 2806-15	15.6	141
421	Phosphate glasses for tissue engineering: Part 2. Processing and characterisation of a ternary-based P2O5-CaO-Na2O glass fibre system. <i>Biomaterials</i> , <b>2004</b> , 25, 501-7	15.6	138
420	Antimicrobial Gallium-Doped Phosphate-Based Glasses. <i>Advanced Functional Materials</i> , <b>2008</b> , 18, 732-741	15.6	130
419	In vitro ageing of brushite calcium phosphate cement. <i>Biomaterials</i> , <b>2003</b> , 24, 4133-41	15.6	130
418	Tissue engineering in dentistry. <i>Journal of Dentistry</i> , <b>2014</b> , 42, 915-28	4.8	127
417	Development of soluble glasses for biomedical use Part I: in vitro solubility measurement. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2000</b> , 11, 609-14	4.5	127
416	Household Income and Child Schooling in Vietnam. <i>World Bank Economic Review</i> , <b>1999</b> , 13, 211-256	1.8	127
415	Porous scaffolds of gelatin-hydroxyapatite nanocomposites obtained by biomimetic approach: characterization and antibiotic drug release. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , <b>2005</b> , 74, 686-98	3.5	123
414	Evaluation of decellularization protocols for production of tubular small intestine submucosa scaffolds for use in oesophageal tissue engineering. <i>Acta Biomaterialia</i> , <b>2014</b> , 10, 5043-5054	10.8	119
413	Drug Delivery Strategies for Platinum-Based Chemotherapy. <i>ACS Nano</i> , <b>2017</b> , 11, 8560-8578	16.7	118
412	The biaxial flexural strength and fatigue property of Lava Y-TZP dental ceramic. <i>Dental Materials</i> , <b>2007</b> , 23, 1018-29	5.7	118

411	Preparation and characterization of fluoride-substituted apatites. <i>Journal of Materials Science: Materials in Medicine</i> , <b>1997</b> , 8, 185-91	4.5	117
410	Effect of nanoparticulate bioactive glass particles on bioactivity and cytocompatibility of poly(3-hydroxybutyrate) composites. <i>Journal of the Royal Society Interface</i> , <b>2010</b> , 7, 453-65	4.1	115
409	Craniofacial muscle engineering using a 3-dimensional phosphate glass fibre construct. <i>Biomaterials</i> , <b>2005</b> , 26, 1497-505	15.6	114
408	Biocompatibility of magnesium phosphate minerals and their stability under physiological conditions. <i>Acta Biomaterialia</i> , <b>2011</b> , 7, 2678-85	10.8	113
407	Soluble phosphate glasses: in vitro studies using human cells of hard and soft tissue origin. <i>Biomaterials</i> , <b>2004</b> , 25, 2283-92	15.6	110
406	Effect of iron on the surface, degradation and ion release properties of phosphate-based glass fibres. <i>Acta Biomaterialia</i> , <b>2005</b> , 1, 553-63	10.8	110
405	Fatigue and fracture properties of yttria partially stabilized zirconia crown systems. <i>Dental Materials</i> , <b>2008</b> , 24, 308-18	5.7	109
404	Structure and properties of strontium-doped phosphate-based glasses. <i>Journal of the Royal Society Interface</i> , <b>2009</b> , 6, 435-46	4.1	104
403	Novel fabrication techniques to produce microspheres by thermally induced phase separation for tissue engineering and drug delivery. <i>Acta Biomaterialia</i> , <b>2008</b> , 4, 264-72	10.8	103
402	Microstructural characterization of glass-reinforced hydroxyapatite composites. <i>Biomaterials</i> , <b>1994</b> , 15, 5-10	15.6	102
401	Physical and biocompatibility studies of novel titanium dioxide doped phosphate-based glasses for bone tissue engineering applications. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2008</b> , 19, 377-86	4.5	101
400	Effect of cell density on osteoblastic differentiation and matrix degradation of biomimetic dense collagen scaffolds. <i>Biomacromolecules</i> , <b>2008</b> , 9, 129-35	6.9	99
399	Development of hydroxyapatite bone scaffold for controlled drug release via poly(epsilon-caprolactone) and hydroxyapatite hybrid coatings. <i>Journal of Biomedical Materials Research Part B</i> , <b>2004</b> , 70, 240-9		95
398	Controlled microchannelling in dense collagen scaffolds by soluble phosphate glass fibers. <i>Biomacromolecules</i> , <b>2007</b> , 8, 543-51	6.9	93
397	Effect of fluoridation of hydroxyapatite in hydroxyapatite-polycaprolactone composites on osteoblast activity. <i>Biomaterials</i> , <b>2005</b> , 26, 4395-404	15.6	93
396	Development of a degradable composite for orthopaedic use: mechanical evaluation of an hydroxyapatite-polyhydroxybutyrate composite material. <i>Biomaterials</i> , <b>1993</b> , 14, 793-6	15.6	93
395	Synthesis and structural characterization of P2O5-CaO-Na2O sol-gel materials. <i>Journal of Non-Crystalline Solids</i> , <b>2007</b> , 353, 1141-1149	3.9	92
394	In vitro bioactivity and gene expression by cells cultured on titanium dioxide doped phosphate-based glasses. <i>Biomaterials</i> , <b>2007</b> , 28, 2967-77	15.6	91

393	Effect of silver content on the structure and antibacterial activity of silver-doped phosphate-based glasses. <i>Antimicrobial Agents and Chemotherapy</i> , <b>2007</b> , 51, 4453-61	5.9	90
392	The effect of increasing copper content in phosphate-based glasses on biofilms of <i>Streptococcus sanguis</i> . <i>Biomaterials</i> , <b>2003</b> , 24, 1797-807	15.6	90
391	Speciation and the nature of ZnO thin films from chemical bath deposition. <i>Journal of Materials Chemistry</i> , <b>1996</b> , 6, 1135		90
390	Adsorption and release studies of sodium ampicillin from hydroxyapatite and glass-reinforced hydroxyapatite composites. <i>Biomaterials</i> , <b>2001</b> , 22, 1393-400	15.6	89
389	Development of a degradable composite for orthopaedic use: in vivo biomechanical and histological evaluation of two bioactive degradable composites based on the polyhydroxybutyrate polymer. <i>Biomaterials</i> , <b>1992</b> , 13, 491-6	15.6	89
388	Investigation of thermal parameters and crystallisation in a ternary CaO-Na <sub>2</sub> O-P <sub>2</sub> O <sub>5</sub> -based glass system. <i>Biomaterials</i> , <b>2001</b> , 22, 497-501	15.6	88
387	Multifunctional hybrid nanocarrier: magnetic CNTs ensheathed with mesoporous silica for drug delivery and imaging system. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 2201-8	9.5	87
386	Investigation of the solubility and ion release in the glass system K <sub>2</sub> O-Na <sub>2</sub> O-CaO-P <sub>2</sub> O <sub>5</sub> . <i>Biomaterials</i> , <b>2001</b> , 22, 3091-6	15.6	87
385	Controlled delivery of antimicrobial gallium ions from phosphate-based glasses. <i>Acta Biomaterialia</i> , <b>2009</b> , 5, 1198-210	10.8	84
384	Biochemical changes caused by decellularization may compromise mechanical integrity of tracheal scaffolds. <i>Acta Biomaterialia</i> , <b>2013</b> , 9, 5251-61	10.8	83
383	Biocompatible magnetite nanoparticles with varying silica-coating layer for use in biomedicine: physicochemical and magnetic properties, and cellular compatibility. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2012</b> , 100, 1734-42	5.4	81
382	Thermal decomposition of synthesised carbonate hydroxyapatite. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2002</b> , 13, 529-33	4.5	81
381	Carbon-nanotube-interfaced glass fiber scaffold for regeneration of transected sciatic nerve. <i>Acta Biomaterialia</i> , <b>2015</b> , 13, 324-34	10.8	80
380	Poly-3-hydroxyoctanoate P(3HO), a medium chain length polyhydroxyalkanoate homopolymer from <i>Pseudomonas mendocina</i> . <i>Biomacromolecules</i> , <b>2011</b> , 12, 2126-36	6.9	80
379	Effect of increasing titanium dioxide content on bulk and surface properties of phosphate-based glasses. <i>Acta Biomaterialia</i> , <b>2008</b> , 4, 523-34	10.8	79
378	Therapeutically relevant aspects in bone repair and regeneration. <i>Materials Today</i> , <b>2015</b> , 18, 573-589	21.8	78
377	British Society for Matrix Biology Autumn Meeting Joint with the UK Tissue & Cell Engineering Society, University of Bristol, UK. <i>International Journal of Experimental Pathology</i> , <b>2005</b> , 86, A1-A56	2.8	78
376	Antimicrobial effect of silver-doped phosphate-based glasses. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2006</b> , 79, 618-26	5.4	77

375	Multi-functional P(3HB) microsphere/45S5 Bioglass-based composite scaffolds for bone tissue engineering. <i>Acta Biomaterialia</i> , <b>2010</b> , 6, 2773-86	10.8	76
374	Hydroxyapatite and titania sol-gel composite coatings on titanium for hard tissue implants; mechanical and in vitro biological performance. <i>Journal of Biomedical Materials Research Part B</i> , <b>2005</b> , 72, 1-8		76
373	Glass reinforced hydroxyapatite for hard tissue surgery--part 1: Mechanical properties. <i>Biomaterials</i> , <b>2001</b> , 22, 2811-5	15.6	75
372	Weight loss, ion release and initial mechanical properties of a binary calcium phosphate glass fibre/PCL composite. <i>Acta Biomaterialia</i> , <b>2008</b> , 4, 1307-14	10.8	74
371	Calcium phosphates and glass composite coatings on zirconia for enhanced biocompatibility. <i>Biomaterials</i> , <b>2004</b> , 25, 4203-13	15.6	74
370	Utilizing core-shell fibrous collagen-alginate hydrogel cell delivery system for bone tissue engineering. <i>Tissue Engineering - Part A</i> , <b>2014</b> , 20, 103-14	3.9	73
369	The effect of composition on the structure of sodium borophosphate glasses. <i>Journal of Non-Crystalline Solids</i> , <b>2008</b> , 354, 3671-3677	3.9	73
368	A mini review focused on the proangiogenic role of silicate ions released from silicon-containing biomaterials. <i>Journal of Tissue Engineering</i> , <b>2017</b> , 8, 2041731417707339	7.5	72
367	Subretinal Pigment Epithelial Deposition of Drusen Components Including Hydroxyapatite in a Primary Cell Culture Model <b>2017</b> , 58, 708-719		72
366	Calcium hydroxide nanoparticles for the conservation of cultural heritage: new formulations for the deacidification of cellulose-based artifacts. <i>Applied Physics A: Materials Science and Processing</i> , <b>2014</b> , 114, 685-693	2.6	72
365	Characterization of carbon nanotube (MWCNT) containing P(3HB)/bioactive glass composites for tissue engineering applications. <i>Acta Biomaterialia</i> , <b>2010</b> , 6, 735-42	10.8	72
364	Mimicking Hierarchical Complexity of the Osteochondral Interface Using Electrospun Silk-Bioactive Glass Composites. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 8000-8013	9.5	70
363	Endothelin-1 and angiogenesis in cancer. <i>Current Vascular Pharmacology</i> , <b>2005</b> , 3, 309-14	3.3	68
362	Flexural strength, fatigue life, and stress-induced phase transformation study of Y-TZP dental ceramic. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , <b>2009</b> , 88, 366-77	3.5	67
361	Photocatalytic activities of N-doped nano-titanias and titanium nitride. <i>Journal of the European Ceramic Society</i> , <b>2009</b> , 29, 2343-2353	6	67
360	Development of a glass reinforced hydroxyapatite with enhanced mechanical properties. The effect of glass composition on mechanical properties and its relationship to phase changes. <i>Journal of Biomedical Materials Research Part B</i> , <b>1993</b> , 27, 1591-8		67
359	Controlled delivery of gentamicin using poly(3-hydroxybutyrate) microspheres. <i>International Journal of Molecular Sciences</i> , <b>2011</b> , 12, 4294-314	6.3	66
358	Synthesis and characterisation of magnesium substituted calcium phosphate bioceramic nanoparticles made via continuous hydrothermal flow synthesis. <i>Journal of Materials Chemistry</i> , <b>2008</b> , 18, 5900		66

- 357 Evaluation of dimethylhydrazine induced tumours in mice as a model system for colorectal cancer. *British Journal of Cancer*, **1973**, 28, 530-43 8.7 66
- 356 Strategies for osteochondral repair: Focus on scaffolds. *Journal of Tissue Engineering*, **2014**, 5, 2041731414541850
- 355 Retention of mechanical properties and cytocompatibility of a phosphate-based glass fiber/poly(lactic acid) composite. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2009**, 89, 18-27 3.5 65
- 354 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, 1081-91 3.6 64
- 353 Dense collagen matrix accelerates osteogenic differentiation and rescues the apoptotic response to MMP inhibition. *Bone*, **2008**, 43, 377-385 4.7 64
- 352 JAK1/2 and BCL2 inhibitors synergize to counteract bone marrow stromal cell-induced protection of AML. *Blood*, **2017**, 130, 789-802 2.2 63
- 351 A structural study of sol-gel and melt-quenched phosphate-based glasses. *Journal of Non-Crystalline Solids*, **2007**, 353, 1759-1765 3.9 63
- 350 Reinforcement of hydroxyapatite by adding P2O5-CaO glasses with Na2O, K2O and MgO. *Journal of Materials Science: Materials in Medicine*, **1996**, 7, 187-189 4.5 63
- 349 Sol-gel synthesis of the P2O5-Ta2O5-Na2O-SiO2 system as a novel bioresorbable glass. *Journal of Materials Chemistry*, **2005**, 15, 2134 62
- 348 Sintering effects in a glass reinforced hydroxyapatite. *Biomaterials*, **1996**, 17, 1437-42 15.6 62
- 347 Synthesis and characterization of doped nano-sized ceria/zirconia solid solutions. *Applied Catalysis B: Environmental*, **2009**, 90, 405-415 21.8 61
- 346 High-throughput continuous hydrothermal synthesis of an entire nanoceramic phase diagram. *ACS Combinatorial Science*, **2009**, 11, 829-34 61
- 345 Initial responses of human osteoblasts to sol-gel modified titanium with hydroxyapatite and titania composition. *Acta Biomaterialia*, **2006**, 2, 547-56 10.8 61
- 344 Correlation between structure and compressive strength in a reticulated glass-reinforced hydroxyapatite foam. *Journal of Materials Science: Materials in Medicine*, **2002**, 13, 485-9 4.5 61
- 343 An analysis of income transfers in a developing country. *Journal of Development Economics*, **1981**, 8, 205-226 61
- 342 Organosilica Nanoparticles with an Intrinsic Secondary Amine: An Efficient and Reusable Adsorbent for Dyes. *ACS Applied Materials & Interfaces*, **2017**, 9, 15566-15576 9.5 60
- 341 Nanotechnology in dentistry: prevention, diagnosis, and therapy. *International Journal of Nanomedicine*, **2015**, 10, 6371-94 7.3 60
- 340 Glass-reinforced hydroxyapatite: a comprehensive study of the effect of glass composition on the crystallography of the composite. *Journal of Biomedical Materials Research Part B*, **1998**, 39, 244-51 60

339	Cement from magnesium substituted hydroxyapatite. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2005</b> , 16, 455-60	4.5	59
338	Titanium phosphate glass microspheres for bone tissue engineering. <i>Acta Biomaterialia</i> , <b>2012</b> , 8, 4181-90	10.8	56
337	Structural characterization and physical properties of P2O5-CaO-Na2O-TiO2 glasses by Fourier transform infrared, Raman and solid-state magic angle spinning nuclear magnetic resonance spectroscopies. <i>Acta Biomaterialia</i> , <b>2012</b> , 8, 333-40	10.8	56
336	A review of the structure of human and bovine dental hard tissues and their physicochemical behaviour in relation to erosive challenge and remineralisation. <i>Journal of Dentistry</i> , <b>2011</b> , 39, 266-72	4.8	56
335	Degradation and drug release of phosphate glass/polycaprolactone biological composites for hard-tissue regeneration. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , <b>2005</b> , 75, 34-41	3.5	56
334	The effects of oxalate-containing products on the exposed dentine surface: an SEM investigation. <i>Journal of Oral Rehabilitation</i> , <b>2001</b> , 28, 1037-44	3.4	56
333	Electrohydrodynamic encapsulation of cisplatin in poly (lactic-co-glycolic acid) nanoparticles for controlled drug delivery. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , <b>2016</b> , 12, 1919-1929	6	56
332	Novel Poly(3-hydroxyoctanoate)/Poly(3-hydroxybutyrate) blends for medical applications. <i>Reactive and Functional Polymers</i> , <b>2013</b> , 73, 1340-1348	4.6	55
331	Effect of glass composition on the degradation properties and ion release characteristics of phosphate glass-polycaprolactone composites. <i>Biomaterials</i> , <b>2005</b> , 26, 2209-18	15.6	55
330	Effect of heat treatment on pulsed laser deposited amorphous calcium phosphate coatings. <i>Journal of Biomedical Materials Research Part B</i> , <b>1998</b> , 43, 69-76		54
329	Adhesion and microstructural characterization of plasma-sprayed hydroxyapatite/glass ceramic coatings onto Ti-6Al-4V substrates. <i>Surface and Coatings Technology</i> , <b>1998</b> , 102, 191-196	4.4	54
328	Poly(lactic acid)-phosphate glass composite foams as scaffolds for bone tissue engineering. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , <b>2007</b> , 80, 322-31	3.5	54
327	Zinc-containing phosphate-based glasses for tissue engineering. <i>Biomedical Materials (Bristol)</i> , <b>2007</b> , 2, 11-20	3.5	54
326	Correlates of Adjustment Among Cancer Survivors. <i>Journal of Psychosocial Oncology</i> , <b>2002</b> , 20, 37-59	2.8	54
325	The biaxial flexural strength of two pressable ceramic systems. <i>Journal of Dentistry</i> , <b>1999</b> , 27, 183-96	4.8	54
324	The effect of MgO on the solubility behavior and cell proliferation in a quaternary soluble phosphate based glass system. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2002</b> , 13, 549-56	4.5	53
323	Hierarchical microchanneled scaffolds modulate multiple tissue-regenerative processes of immune-responses, angiogenesis, and stem cell homing. <i>Biomaterials</i> , <b>2020</b> , 227, 119548	15.6	53
322	Biomimetic approach to dental implants. <i>Current Pharmaceutical Design</i> , <b>2008</b> , 14, 2201-11	3.3	51



321	Effect of biphasic calcium phosphates on drug release and biological and mechanical properties of poly(epsilon-caprolactone) composite membranes. <i>Journal of Biomedical Materials Research Part B</i> , <b>2004</b> , 70, 467-79		51
320	Sol-gel synthesis and electrospaying of biodegradable (P2O5)55-(CaO)30-(Na2O)15 glass nanospheres as a transient contrast agent for ultrasound stem cell imaging. <i>ACS Nano</i> , <b>2015</b> , 9, 1868-1877	16.7	50
319	Assessment of polymer/bioactive glass-composite microporous spheres for tissue regeneration applications. <i>Tissue Engineering - Part A</i> , <b>2009</b> , 15, 1451-61	3.9	50
318	Liquid phase sintering of hydroxyapatite by phosphate and silicate glass additions: structure and properties of the composites. <i>Journal of Materials Science: Materials in Medicine</i> , <b>1995</b> , 6, 348-352	4.5	50
317	Nerve tissue engineering using blends of poly(3-hydroxyalkanoates) for peripheral nerve regeneration. <i>Engineering in Life Sciences</i> , <b>2015</b> , 15, 612-621	3.4	49
316	Effect of surface treatment on the bioactivity of nickel-titanium. <i>Acta Biomaterialia</i> , <b>2008</b> , 4, 1969-84	10.8	49
315	Effect of increasing silver content in phosphate-based glasses on biofilms of Streptococcus sanguis. <i>Journal of Biomedical Materials Research Part B</i> , <b>2003</b> , 67, 401-12		49
314	Effects of ultrasound on the growth and function of bone and periodontal ligament cells in vitro. <i>Ultrasound in Medicine and Biology</i> , <b>2001</b> , 27, 579-86	3.5	49
313	Hydroxyapatite, fluor-hydroxyapatite and fluorapatite produced via the sol-gel method: dissolution behaviour and biological properties after crystallisation. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2014</b> , 25, 47-53	4.5	48
312	Poly(3-hydroxybutyrate) production by Bacillus cereus SPV using sugarcane molasses as the main carbon source. <i>Biotechnology Journal</i> , <b>2012</b> , 7, 293-303	5.6	48
311	High-strength nanograined and translucent hydroxyapatite monoliths via continuous hydrothermal synthesis and optimized spark plasma sintering. <i>Acta Biomaterialia</i> , <b>2011</b> , 7, 791-9	10.8	47
310	New sol-gel synthesis of a (CaO)0.3(Na2O)0.2(P2O5)0.5 bioresorbable glass and its structural characterisation. <i>Journal of Materials Chemistry</i> , <b>2007</b> , 17, 4777		47
309	Processing, characterisation, and biocompatibility of zinc modified metaphosphate based glasses for biomedical applications. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2008</b> , 19, 1669-79	4.5	47
308	An in vitro study of the compressive load at fracture of Procera AllCeram crowns with varying thickness of veneer porcelain. <i>Journal of Prosthetic Dentistry</i> , <b>2003</b> , 89, 154-60	4	47
307	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. <i>Chemistry of Materials</i> , <b>1995</b> , 7, 716-724	9.6	47
306	Advances in nanoparticle development for improved therapeutics delivery: nanoscale topographical aspect. <i>Journal of Tissue Engineering</i> , <b>2019</b> , 10, 2041731419877528	7.5	46
305	Doping of a high calcium oxide metaphosphate glass with titanium dioxide. <i>Journal of Non-Crystalline Solids</i> , <b>2009</b> , 355, 991-1000	3.9	46
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