

# Jonathan C Knowles

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

446  
papers

19,766  
citations

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	An alginate-based encapsulation system for delivery of therapeutic cells to the CNS.. <i>RSC Advances</i> , <b>2022</b> , 12, 4005-4015	3.7	3
445	Recent advances in drug delivery systems for glaucoma treatment. <i>Materials Today Nano</i> , <b>2022</b> , 100178	9.7	6
444	Investigating the Effects of Conditioned Media from Stem Cells of Human Exfoliated Deciduous Teeth on Dental Pulp Stem Cells.. <i>Biomedicines</i> , <b>2022</b> , 10,	4.8	2
443	Characterization of Physical and Biological Properties of a Caries-Arresting Liquid Containing Copper Doped Bioglass Nanoparticles. <i>Pharmaceutics</i> , <b>2022</b> , 14, 1137	6.4	2
442	Investigating the mechanophysical and biological characteristics of therapeutic dental cement incorporating copper doped bioglass nanoparticles.. <i>Dental Materials</i> , <b>2021</b> , 38, 363-363	5.7	3
441	Cell morphology as a design parameter in the bioengineering of cell-biomaterial surface interactions. <i>Biomaterials Science</i> , <b>2021</b> , 9, 8032-8050	7.4	1
440	Poly-εCaprolactone/Fibrin-Alginate Scaffold: A New Pro-Angiogenic Composite Biomaterial for the Treatment of Bone Defects. <i>Polymers</i> , <b>2021</b> , 13,	4.5	3
439	Enhancing Distraction Osteogenesis With Carbon Fiber Reinforced Polyether Ether Ketone Bone Pins and a Three-Dimensional Printed Transfer Device to Permit Artifact-Free Three-Dimensional Magnetic Resonance Imaging. <i>Journal of Craniofacial Surgery</i> , <b>2021</b> , 32, 360-364	1.2	
438	A Study on Myogenesis by Regulation of Reactive Oxygen Species and Cytotoxic Activity by Selenium Nanoparticles. <i>Antioxidants</i> , <b>2021</b> , 10,	7.1	2
437	Antibacterial Composite Materials Based on the Combination of Polyhydroxyalkanoates With Selenium and Strontium Co-substituted Hydroxyapatite for Bone Regeneration. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2021</b> , 9, 647007	5.8	5
436	Utilization of GelMA with phosphate glass fibers for glial cell alignment. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2021</b> , 109, 2212-2224	5.4	4
435	Mussel Inspired Chemistry and Bacteria Derived Polymers for Oral Mucosal Adhesion and Drug Delivery. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2021</b> , 9, 663764	5.8	2
434	Biological Potential of Polyethylene Glycol (PEG)-Functionalized Graphene Quantum Dots in In Vitro Neural Stem/Progenitor Cells. <i>Nanomaterials</i> , <b>2021</b> , 11,	5.4	6
433	Digital image correlation in dental materials and related research: A review. <i>Dental Materials</i> , <b>2021</b> , 37, 758-771	5.7	4
432	Antibacterial effect of titanium dioxide-doped phosphate glass microspheres filled total-etch dental adhesive on <i>S. mutans</i> biofilm. <i>International Journal of Adhesion and Adhesives</i> , <b>2021</b> , 108, 102886 <sup>3,4</sup>		3
431	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. <i>Bioactive Materials</i> , <b>2021</b> , 6, 123-136	16.7	25
430	Materials roles for promoting angiogenesis in tissue regeneration. <i>Progress in Materials Science</i> , <b>2021</b> , 117, 100732	42.2	36

429	Emerging biogenesis technologies of extracellular vesicles for tissue regenerative therapeutics. <i>Journal of Tissue Engineering</i> , <b>2021</b> , 12, 20417314211019015	7.5	4
428	Three dimensional porous scaffolds derived from collagen, elastin and fibrin proteins orchestrate adipose tissue regeneration. <i>Journal of Tissue Engineering</i> , <b>2021</b> , 12, 20417314211019238	7.5	3
427	The Effect of Selenium Nanoparticles on the Osteogenic Differentiation of MC3T3-E1 Cells. <i>Nanomaterials</i> , <b>2021</b> , 11,	5.4	5
426	Selenium Nanoparticles as Candidates for Antibacterial Substitutes and Supplements against Multidrug-Resistant Bacteria. <i>Biomolecules</i> , <b>2021</b> , 11,	5.9	9
425	Therapeutic tissue regenerative nanohybrids self-assembled from bioactive inorganic core / chitosan shell nanounits. <i>Biomaterials</i> , <b>2021</b> , 274, 120857	15.6	5
424	Effect of root canal irrigant (sodium hypochlorite & saline) delivery at different temperatures and durations on pre-load and cyclic-loading surface-strain of anatomically different premolars. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , <b>2021</b> , 121, 104640	4.1	1
423	Dual actions of osteoclastic-inhibition and osteogenic-stimulation through strontium-releasing bioactive nanoscale cement imply biomaterial-enabled osteoporosis therapy. <i>Biomaterials</i> , <b>2021</b> , 276, 121025	15.6	13
422	Grapefruit Seed Extract as a Natural Derived Antibacterial Substance against Multidrug-Resistant Bacteria. <i>Antibiotics</i> , <b>2021</b> , 10,	4.9	6
421	Pro-angiogenic and osteogenic composite scaffolds of fibrin, alginate and calcium phosphate for bone tissue engineering. <i>Journal of Tissue Engineering</i> , <b>2021</b> , 12, 20417314211005610	7.5	11
420	Mesoporous Strontium-Doped Phosphate-Based Sol-Gel Glasses for Biomedical Applications. <i>Frontiers in Chemistry</i> , <b>2020</b> , 8, 249	5	8
419	Molecularly Imprinted Polymers and Electrospinning: Manufacturing Convergence for Next-Level Applications. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2001955	15.6	21
418	Mechanophysical and biological properties of a 3D-printed titanium alloy for dental applications. <i>Dental Materials</i> , <b>2020</b> , 36, 945-958	5.7	20
417	Modulation of neuronal cell affinity of composite scaffolds based on polyhydroxyalkanoates and bioactive glasses. <i>Biomedical Materials (Bristol)</i> , <b>2020</b> , 15, 045024	3.5	9
416	Targeting with nanoparticles for the therapeutic treatment of brain diseases. <i>Journal of Tissue Engineering</i> , <b>2020</b> , 11, 2041731419897460	7.5	19
415	3D culture technologies of cancer stem cells: promising ex vivo tumor models. <i>Journal of Tissue Engineering</i> , <b>2020</b> , 11, 2041731420933407	7.5	24
414	Nano-graphene oxide/polyurethane nanofibers: mechanically flexible and myogenic stimulating matrix for skeletal tissue engineering. <i>Journal of Tissue Engineering</i> , <b>2020</b> , 11, 2041731419900424	7.5	29
413	Label-Free Fluorescent Mesoporous Bioglass for Drug Delivery, Optical Triple-Mode Imaging, and Photothermal/Photodynamic Synergistic Cancer Therapy.. <i>ACS Applied Bio Materials</i> , <b>2020</b> , 3, 2218-2229	4.1	16
412	Viscoelastic and chemical properties of dentine after different exposure times to sodium hypochlorite, ethylenediaminetetraacetic acid and calcium hydroxide. <i>Australian Endodontic Journal</i> , <b>2020</b> , 46, 234-243	1.7	1

411	Enhanced efficacy in drug-resistant cancer cells through synergistic nanoparticle mediated delivery of cisplatin and decitabine. <i>Nanoscale Advances</i> , <b>2020</b> , 2, 1177-1186	5.1	6
410	Mesoporous Phosphate-Based Glasses Prepared via Sol-Gel. <i>ACS Biomaterials Science and Engineering</i> , <b>2020</b> , 6, 1428-1437	5.5	8
409	Development of Bis-GMA-free biopolymer to avoid estrogenicity. <i>Dental Materials</i> , <b>2020</b> , 36, 157-166	5.7	4
408	Advanced biocomposites of poly(glycerol sebacate) and tricalcium phosphate by in situ microwave synthesis for bioapplication. <i>Materials Today Advances</i> , <b>2020</b> , 5, 100023	7.4	7
407	Chemical Modification of Bacterial Cellulose for the Development of an Antibacterial Wound Dressing. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2020</b> , 8, 557885	5.8	16
406	Characterisation of osteogenic and vascular responses of hMSCs to Ti-Co doped phosphate glass microspheres using a microfluidic perfusion platform. <i>Journal of Tissue Engineering</i> , <b>2020</b> , 11, 2041731420954712	7.5	19
405	Physical Properties and Biofunctionalities of Bioactive Root Canal Sealers In Vitro. <i>Nanomaterials</i> , <b>2020</b> , 10,	5.4	9
404	The protein corona determines the cytotoxicity of nanodiamonds: implications of corona formation and its remodelling on nanodiamond applications in biomedical imaging and drug delivery. <i>Nanoscale Advances</i> , <b>2020</b> , 2, 4798-4812	5.1	9
403	Synthesis, Characterization, and 3D Printing of an Isosorbide-Based, Light-Curable, Degradable Polymer for Potential Application in Maxillofacial Reconstruction. <i>ACS Biomaterials Science and Engineering</i> , <b>2020</b> , 6, 2578-2587	5.5	3
402	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
401	Comparative study of photoinitiators for the synthesis and 3D printing of a light-curable, degradable polymer for custom-fit hard tissue implants. <i>Biomedical Materials (Bristol)</i> , <b>2020</b> , 16, 015007	3.5	1
400	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
399	Biological impact of nanodiamond particles - label free, high-resolution methods for nanotoxicity assessment. <i>Nanotoxicology</i> , <b>2019</b> , 13, 1210-1226	5.3	5
398	Unidirectional neuronal cell growth and differentiation on aligned polyhydroxyalkanoate blend microfibres with varying diameters. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , <b>2019</b> , 13, 1581-1594	4.4	28
397	The effect of NaOCl and heat treatment on static and dynamic mechanical properties and chemical changes of dentine. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , <b>2019</b> , 97, 330-338	4.1	1
396	Glass microparticle- versus microsphere-filled experimental dental adhesives. <i>Journal of Applied Polymer Science</i> , <b>2019</b> , 136, 47832	2.9	7
395	Assessing behaviour of osteoblastic cells in dynamic culture conditions using titanium-doped phosphate glass microcarriers. <i>Journal of Tissue Engineering</i> , <b>2019</b> , 10, 2041731419825772	7.5	8
394	A parameterised mathematical model to elucidate osteoblast cell growth in a phosphate-glass microcarrier culture. <i>Journal of Tissue Engineering</i> , <b>2019</b> , 10, 2041731419830264	7.5	8

393	Differential chondro- and osteo-stimulation in three-dimensional porous scaffolds with different topological surfaces provides a design strategy for biphasic osteochondral engineering. <i>Journal of Tissue Engineering</i> , <b>2019</b> , 10, 2041731419826433	7.5	15
392	Effect of sodium hypochlorite on adhesive charactersitics of dentin: A systematic review of laboratory-based testing. <i>International Journal of Adhesion and Adhesives</i> , <b>2019</b> , 95, 102419	3.4	0
391	SIS/aligned fibre scaffold designed to meet layered oesophageal tissue complexity and properties. <i>Acta Biomaterialia</i> , <b>2019</b> , 99, 181-195	10.8	17
390	Effect of Heated Sodium Hypochlorite on the Viscoelastic Properties of Dentin Evaluated Using Dynamic Mechanical Analysis. <i>Journal of Endodontics</i> , <b>2019</b> , 45, 1155-1160	4.7	1
389	Antibacterial Copper-Doped Calcium Phosphate Glasses for Bone Tissue Regeneration. <i>ACS Biomaterials Science and Engineering</i> , <b>2019</b> , 5, 6054-6062	5.5	16
388	Combined Effects of Nanoroughness and Ions Produced by Electrodeposition of Mesoporous Bioglass Nanoparticle for Bone Regeneration.. <i>ACS Applied Bio Materials</i> , <b>2019</b> , 2, 5190-5203	4.1	11
387	Angiogenesis-promoted bone repair with silicate-shelled hydrogel fiber scaffolds. <i>Biomaterials Science</i> , <b>2019</b> , 7, 5221-5231	7.4	21
386	Dual-ion delivery for synergistic angiogenesis and bactericidal capacity with silica-based microsphere. <i>Acta Biomaterialia</i> , <b>2019</b> , 83, 322-333	10.8	30
385	Digital Image Correlation and Strain Gauges to Map and Compare Strain in Teeth with Different Quantity and Quality of Remaining Tooth Structure. <i>International Journal of Prosthodontics</i> , <b>2019</b> , 32, 82-90	1.9	1
384	Binary polyhydroxyalkanoate systems for soft tissue engineering. <i>Acta Biomaterialia</i> , <b>2018</b> , 71, 225-234	10.8	37
383	Rortian Realism. <i>Metaphilosophy</i> , <b>2018</b> , 49, 90-114	0.3	3
382	Reduction of Tribocorrosion Products When Using the Platform-Switching Concept. <i>Journal of Dental Research</i> , <b>2018</b> , 97, 995-1002	8.1	9
381	Poly(3-hydroxyoctanoate), a promising new material for cardiac tissue engineering. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , <b>2018</b> , 12, e495-e512	4.4	35
380	A reversible fluorescent probe for monitoring Ag(I) ions. <i>Journal of the Royal Society Interface</i> , <b>2018</b> , 15,	4.1	6
379	Physical properties and biocompatibility effects of doping SiO and TiO into phosphate-based glass for bone tissue engineering. <i>Journal of Biomaterials Applications</i> , <b>2018</b> , 33, 271-280	2.9	4
378	Investigations into in situ Enterococcus faecalis biofilm removal by passive and active sodium hypochlorite irrigation delivered into the lateral canal of a simulated root canal model. <i>International Endodontic Journal</i> , <b>2018</b> , 51, 649-662	5.4	22
377	Longitudinal changes in measles antibody titers in plasma donors and minimum antibody levels of immunoglobulin products for treatment of primary immunodeficiency. <i>Transfusion</i> , <b>2018</b> , 58 Suppl 3, 3065-3071	2.9	2
376	Reformulated mineral trioxide aggregate components and the assessments for use as future dental regenerative cements. <i>Journal of Tissue Engineering</i> , <b>2018</b> , 9, 2041731418807396	7.5	14

375	Auditory disorders and future therapies with delivery systems. <i>Journal of Tissue Engineering</i> , <b>2018</b> , 9, 2041731418808455	7.5	15
374	Biosynthesis and characterization of a novel, biocompatible medium chain length polyhydroxyalkanoate by <i>Pseudomonas mendocina</i> CH50 using coconut oil as the carbon source. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2018</b> , 29, 179	4.5	32
373	Three-dimensional Printing in Maxillofacial Surgery: Hype versus Reality. <i>Journal of Tissue Engineering</i> , <b>2018</b> , 9, 2041731418770909	7.5	33
372	The Inessential Indexical: On the Philosophical Insignificance of Perspective and the First Person. <i>Philosophical Quarterly</i> , <b>2017</b> , 67, 186-189	0.3	
371	Facile preparation of antibacterial, highly elastic silvered polyurethane nanofiber fabrics using silver carbamate and their dermal wound healing properties. <i>Journal of Biomaterials Applications</i> , <b>2017</b> , 31, 1026-1038	2.9	14
370	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
369	Performance of novel high throughput multi electro spray systems for forming of polymeric micro/nanoparticles. <i>Materials and Design</i> , <b>2017</b> , 126, 73-84	8.1	41
368	Organosilica Nanoparticles with an Intrinsic Secondary Amine: An Efficient and Reusable Adsorbent for Dyes. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 15566-15576	9.5	60
367	The effect of sodium hypochlorite concentration and irrigation needle extension on biofilm removal from a simulated root canal model. <i>Australian Endodontic Journal</i> , <b>2017</b> , 43, 102-109	1.7	14
366	Investigation to test potential stereolithography materials for development of an in vitro root canal model. <i>Microscopy Research and Technique</i> , <b>2017</b> , 80, 202-210	2.8	10
365	JAK1/2 and BCL2 inhibitors synergize to counteract bone marrow stromal cell-induced protection of AML. <i>Blood</i> , <b>2017</b> , 130, 789-802	2.2	63
364	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
363	Tailoring degree of esterification and branching of poly(glycerol sebacate) by energy efficient microwave irradiation. <i>Polymer Chemistry</i> , <b>2017</b> , 8, 3937-3947	4.9	15
362	Confocal laser scanning, scanning electron, and transmission electron microscopy investigation of <i>Enterococcus faecalis</i> biofilm degradation using passive and active sodium hypochlorite irrigation within a simulated root canal model. <i>MicrobiologyOpen</i> , <b>2017</b> , 6, e00455	3.4	19
361	Highly elastomeric poly(3-hydroxyoctanoate) based natural polymer composite for enhanced keratinocyte regeneration. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , <b>2017</b> , 66, 326-335	3	16
360	Electrohydrodynamic fabrication of core-shell PLGA nanoparticles with controlled release of cisplatin for enhanced cancer treatment. <i>International Journal of Nanomedicine</i> , <b>2017</b> , 12, 3913-3926	7.3	33
359	Subretinal Pigment Epithelial Deposition of Drusen Components Including Hydroxyapatite in a Primary Cell Culture Model <b>2017</b> , 58, 708-719		72
358	Biomimetic surface functionalization of clinically relevant metals used as orthopaedic and dental implants. <i>Biomedical Materials (Bristol)</i> , <b>2017</b> , 13, 015008	3.5	17

357	Drug Delivery Strategies for Platinum-Based Chemotherapy. <i>ACS Nano</i> , <b>2017</b> , 11, 8560-8578	16.7	118
356	Production of a novel medium chain length poly(3-hydroxyalkanoate) using unprocessed biodiesel waste and its evaluation as a tissue engineering scaffold. <i>Microbial Biotechnology</i> , <b>2017</b> , 10, 1384-1399	6.3	25
355	Low hepatitis E virus RNA prevalence in a large-scale survey of United States source plasma donors. <i>Transfusion</i> , <b>2017</b> , 57, 2958-2964	2.9	32
354	Towards modular bone tissue engineering using Ti-Co-doped phosphate glass microspheres: cytocompatibility and dynamic culture studies. <i>Journal of Biomaterials Applications</i> , <b>2017</b> , 32, 295-310	2.9	9
353	Zinc and strontium based phosphate glass beads: a novel material for bone tissue engineering. <i>Biomedical Materials (Bristol)</i> , <b>2017</b> , 12, 065011	3.5	2
352	The effect of metal ions released from different dental implant-abutment couples on osteoblast function and secretion of bone resorbing mediators. <i>Journal of Dentistry</i> , <b>2017</b> , 66, 91-101	4.8	42
351	Global expressivism and the flight from metaphysics. <i>Synthese</i> , <b>2017</b> , 194, 4781-4797	0.8	7
350	Interaction of enamel matrix proteins with human periodontal ligament cells. <i>Clinical Oral Investigations</i> , <b>2016</b> , 20, 339-47	4.2	8
349	Development of a novel smart scaffold for human skeletal muscle regeneration. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , <b>2016</b> , 10, 162-71	4.4	28
348	Degradation of zinc containing phosphate-based glass as a material for orthopedic tissue engineering. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2016</b> , 27, 157	4.5	13
347	Synthesis, characterization, and biocompatible properties of alanine-grafted chitosan copolymers. <i>Journal of Biomaterials Applications</i> , <b>2016</b> , 30, 1350-61	2.9	11
346	Sol-gel based materials for biomedical applications. <i>Progress in Materials Science</i> , <b>2016</b> , 77, 1-79	42.2	430
345	Development of dental composites with reactive fillers that promote precipitation of antibacterial-hydroxyapatite layers. <i>Materials Science and Engineering C</i> , <b>2016</b> , 60, 285-292	8.3	40
344	P(3HB) Based Magnetic Nanocomposites: Smart Materials for Bone Tissue Engineering. <i>Journal of Nanomaterials</i> , <b>2016</b> , 2016, 1-14	3.2	7
343	Composite scaffolds for cartilage tissue engineering based on natural polymers of bacterial origin, thermoplastic poly(3-hydroxybutyrate) and micro-fibrillated bacterial cellulose. <i>Polymer International</i> , <b>2016</b> , 65, 780-791	3.3	32
342	Novel poly(3-hydroxybutyrate) composite films containing bioactive glass nanoparticles for wound healing applications. <i>Polymer International</i> , <b>2016</b> , 65, 661-674	3.3	24
341	Biospectroscopy of Nanodiamond-Induced Alterations in Conformation of Intra- and Extracellular Proteins: A Nanoscale IR Study. <i>Analytical Chemistry</i> , <b>2016</b> , 88, 7530-8	7.8	40
340	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

339	Dissolution and drug release profiles of phosphate glasses doped with high valency oxides. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2016</b> , 27, 108	4.5	11
338	Electrostatic self-assembled graphene oxide-collagen scaffolds towards a three-dimensional microenvironment for biomimetic applications. <i>RSC Advances</i> , <b>2016</b> , 6, 49039-49051	3.7	26
337	The effect of platform switching on the levels of metal ion release from different implant-abutment couples. <i>International Journal of Oral Science</i> , <b>2016</b> , 8, 117-25	27.9	10
336	A novel experimental approach to investigate the effect of different agitation methods using sodium hypochlorite as an irrigant on the rate of bacterial biofilm removal from the wall of a simulated root canal model. <i>Dental Materials</i> , <b>2016</b> , 32, 1289-1300	5.7	18
335	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
334	Novel sol-gel preparation of $(P_2O_5)_{0.4}(CaO)_{0.25}(Na_2O)_X(TiO_2)_{(0.35-X)}$ bioresorbable glasses ( $X = 0.05, 0.1, \text{ and } 0.15$ ). <i>Journal of Sol-Gel Science and Technology</i> , <b>2015</b> , 73, 434-442	2.3	16
333	Phosphate glass fibres promote neurite outgrowth and early regeneration in a peripheral nerve injury model. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , <b>2015</b> , 9, 236-46	4.4	36
332	Feasibility of silica-hybridized collagen hydrogels as three-dimensional cell matrices for hard tissue engineering. <i>Journal of Biomaterials Applications</i> , <b>2015</b> , 30, 338-50	2.9	14
331	Therapeutically relevant aspects in bone repair and regeneration. <i>Materials Today</i> , <b>2015</b> , 18, 573-589	21.8	78
330	Synthesis of bio-based thermoplastic polyurethane elastomers containing isosorbide and polycarbonate diol and their biocompatible properties. <i>Journal of Biomaterials Applications</i> , <b>2015</b> , 30, 327-37	2.9	36
329	Multifunctional and stable bone mimic proteinaceous matrix for bone tissue engineering. <i>Biomaterials</i> , <b>2015</b> , 56, 46-57	15.6	30
328	Calcium Phosphonate Frameworks for Treating Bone Tissue Disorders. <i>Inorganic Chemistry</i> , <b>2015</b> , 54, 9929-35	5.1	31
327	Conversion, shrinkage, water sorption, flexural strength and modulus of re-mineralizing dental composites. <i>Dental Materials</i> , <b>2015</b> , 31, 1279-89	5.7	42
326	Strontium- and calcium-containing, titanium-stabilised phosphate-based glasses with prolonged degradation for orthopaedic tissue engineering. <i>Journal of Biomaterials Applications</i> , <b>2015</b> , 30, 300-10	2.9	22
325	Phase-Tunable Calcium Phosphate Biomaterials Synthesis and Application in Protein Delivery. <i>ACS Biomaterials Science and Engineering</i> , <b>2015</b> , 1, 947-954	5.5	18
324	Ceramic Biomaterials as Tissue Scaffolds <b>2015</b> , 163-174		1
323	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
322	Titanium phosphate glass microcarriers induce enhanced osteogenic cell proliferation and human mesenchymal stem cell protein expression. <i>Journal of Tissue Engineering</i> , <b>2015</b> , 6, 2041731415617741	7.5	19



3 <sup>21</sup>	Nanotechnology in dentistry: prevention, diagnosis, and therapy. <i>International Journal of Nanomedicine</i> , <b>2015</b> , 10, 6371-94	7.3	60
3 <sup>20</sup>	Sol-gel synthesis of quaternary (P <sub>2</sub> O <sub>5</sub> ) <sub>55</sub> -(CaO) <sub>25</sub> -(Na <sub>2</sub> O) <sub>(20-x)</sub> -(TiO <sub>2</sub> ) <sub>x</sub> bioresorbable glasses for bone tissue engineering applications (x = 0, 5, 10, or 15). <i>Biomedical Materials (Bristol)</i> , <b>2015</b> , 10, 045025	3.5	14
3 <sup>19</sup>	Enabling consistency in pluripotent stem cell-derived products for research and development and clinical applications through material standards. <i>Stem Cells Translational Medicine</i> , <b>2015</b> , 4, 217-23	6.9	29
3 <sup>18</sup>	Sol-gel synthesis and electro spraying of biodegradable (P <sub>2</sub> O <sub>5</sub> ) <sub>55</sub> -(CaO) <sub>30</sub> -(Na <sub>2</sub> O) <sub>15</sub> 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
3 <sup>17</sup>	JAK1/2 and BCL2 Inhibitors Synergize to Counter-Act Bone Marrow Stromal Cell-Induced Protection of AML. <i>Blood</i> , <b>2015</b> , 126, 867-867	2.2	
3 <sup>16</sup>	Quantitative scoring of differential drug sensitivity for individually optimized anticancer therapies. <i>Scientific Reports</i> , <b>2014</b> , 4, 5193	4.9	150
3 <sup>15</sup>	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
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