

Serena M Best

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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.

63

papers

1,908

citations

21

h-index

43

g-index

65

ext. papers

2,257

ext. citations

6.4

avg, IF

5.08

L-index

#	Paper	IF	Citations
63	Hydroxyapatite/Carbon Nanotube Composites for Biomedical Applications: A Review. <i>International Journal of Applied Ceramic Technology</i> , 2007 , 4, 1-13	2	303
62	Evaluation of cell binding to collagen and gelatin: a study of the effect of 2D and 3D architecture and surface chemistry. <i>Journal of Materials Science: Materials in Medicine</i> , 2016 , 27, 148	4.5	206
61	Investigating the morphological, mechanical and degradation properties of scaffolds comprising collagen, gelatin and elastin for use in soft tissue engineering. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2012 , 10, 62-74	4.1	160
60	Crosslinking and composition influence the surface properties, mechanical stiffness and cell reactivity of collagen-based films. <i>Acta Biomaterialia</i> , 2012 , 8, 3080-90	10.8	143
59	Effect of Silicon Substitution on the Sintering and Microstructure of Hydroxyapatite. <i>Journal of the American Ceramic Society</i> , 2004 , 85, 2771-2777	3.8	113
58	Bioactive ceramics: processing, structures and properties. <i>Journal of Materials Science</i> , 2012 , 47, 610-624	4.3	88
57	Fundamental insight into the effect of carbodiimide crosslinking on cellular recognition of collagen-based scaffolds. <i>Acta Biomaterialia</i> , 2017 , 49, 218-234	10.8	82
56	Effect of Ceramic Scaffold Architectural Parameters on Biological Response. <i>Frontiers in Bioengineering and Biotechnology</i> , 2015 , 3, 151	5.8	63
55	Optimisation of UV irradiation as a binding site conserving method for crosslinking collagen-based scaffolds. <i>Journal of Materials Science: Materials in Medicine</i> , 2016 , 27, 14	4.5	51
54	Generation of a three-dimensional collagen scaffold-based model of the human endometrium. <i>Interface Focus</i> , 2020 , 10, 20190079	3.9	43
53	Cell Invasion in Collagen Scaffold Architectures Characterized by Percolation Theory. <i>Advanced Healthcare Materials</i> , 2015 , 4, 1317-21	10.1	43
52	Effect of 1-ethyl-3-(3-dimethylaminopropyl) carbodiimide and N-hydroxysuccinimide concentrations on the mechanical and biological characteristics of cross-linked collagen fibres for tendon repair. <i>International Journal of Energy Production and Management</i> , 2015 , 2, 77-85	5.3	38
51	Design of a multiphase osteochondral scaffold. I. Control of chemical composition. <i>Journal of Biomedical Materials Research - Part A</i> , 2010 , 92, 1057-65	5.4	38
50	Synthesis, characterization and modelling of zinc and silicate co-substituted hydroxyapatite. <i>Journal of the Royal Society Interface</i> , 2015 , 12, 20150190	4.1	34
49	The synthesis and coupling of photoreactive collagen-based peptides to restore integrin reactivity to an inert substrate, chemically-crosslinked collagen. <i>Biomaterials</i> , 2016 , 85, 65-77	15.6	34
48	Tunable bioactivity and mechanics of collagen-based tissue engineering constructs: A comparison of EDC-NHS, genipin and TG2 crosslinkers. <i>Biomaterials</i> , 2020 , 254, 120109	15.6	34
47	Preparation of novel bioactive nano-calcium phosphate-hydrogel composites. <i>Science and Technology of Advanced Materials</i> , 2010 , 11, 014103	7.1	32

46	Natural Biomaterials for Cardiac Tissue Engineering: A Highly Biocompatible Solution. <i>Frontiers in Cardiovascular Medicine</i> , 2020 , 7, 554597	5.4	31
45	Structurally graduated collagen scaffolds applied to the ex vivo generation of platelets from human pluripotent stem cell-derived megakaryocytes: Enhancing production and purity. <i>Biomaterials</i> , 2018 , 182, 135-144	15.6	28
44	Probing carbonate in bone forming minerals on the nanometre scale. <i>Acta Biomaterialia</i> , 2015 , 20, 129-138	10.8	22
43	Optimising collagen scaffold architecture for enhanced periodontal ligament fibroblast migration. <i>Journal of Materials Science: Materials in Medicine</i> , 2018 , 29, 166	4.5	22
42	In vitro osteoclast formation and resorption of silicon-substituted hydroxyapatite ceramics. <i>Journal of Biomedical Materials Research - Part A</i> , 2015 , 103, 3312-22	5.4	19
41	Selecting the correct cellular model for assessing of the biological response of collagen-based biomaterials. <i>Acta Biomaterialia</i> , 2018 , 65, 88-101	10.8	19
40	Impact of UV- and carbodiimide-based crosslinking on the integrin-binding properties of collagen-based materials. <i>Acta Biomaterialia</i> , 2019 , 100, 280-291	10.8	18
39	The influence of silanisation on the mechanical and degradation behaviour of PLGA/HA composites. <i>Materials Science and Engineering C</i> , 2015 , 48, 642-50	8.3	17
38	The effect of the type of HA on the degradation of PLGA/HA composites. <i>Materials Science and Engineering C</i> , 2017 , 70, 824-831	8.3	16
37	Parameterizing the Transport Pathways for Cell Invasion in Complex Scaffold Architectures. <i>Tissue Engineering - Part C: Methods</i> , 2016 , 22, 409-17	2.9	15
36	Microstructure and mechanical properties of synthetic brow-suspension materials. <i>Materials Science and Engineering C</i> , 2014 , 35, 220-30	8.3	15
35	Poly-L-Lactic Acid Nanotubes as Soft Piezoelectric Interfaces for Biology: Controlling Cell Attachment Polymer Crystallinity. <i>ACS Applied Bio Materials</i> , 2020 , 3, 2140-2149	4.1	14
34	Near-Field Electrospinning Patterning Polycaprolactone and Polycaprolactone/Collagen Interconnected Fiber Membrane. <i>Macromolecular Materials and Engineering</i> , 2018 , 303, 1700463	3.9	14
33	Coupling of a specific photoreactive triple-helical peptide to crosslinked collagen films restores binding and activation of DDR2 and VWF. <i>Biomaterials</i> , 2018 , 182, 21-34	15.6	14
32	Crosslinking Collagen Constructs: Achieving Cellular Selectivity Through Modifications of Physical and Chemical Properties. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 6911	2.6	14
31	Self-assembly of collagen bundles and enhanced piezoelectricity induced by chemical crosslinking. <i>Nanoscale</i> , 2019 , 11, 15120-15130	7.7	12
30	Cellular response to collagen-elastin composite materials. <i>Acta Biomaterialia</i> , 2019 , 86, 158-170	10.8	12
29	Electrospinning of Bioinspired Polymer Scaffolds. <i>Advances in Experimental Medicine and Biology</i> , 2015 , 881, 33-53	3.6	11

28	3D imaging of cells in scaffolds: direct labelling for micro CT. <i>Journal of Materials Science: Materials in Medicine</i> , 2018 , 29, 86	4.5	10
27	Collagen-Fibrinogen Lyophilised Scaffolds for Soft Tissue Regeneration. <i>Materials</i> , 2017 , 10,	3.5	10
26	The interplay between physical and chemical properties of protein films affects their bioactivity. <i>Journal of Biomedical Materials Research - Part A</i> , 2012 , 100, 2401-11	5.4	10
25	Collagen scaffolds functionalized with triple-helical peptides support 3D HUVEC culture. <i>International Journal of Energy Production and Management</i> , 2020 , 7, 471-482	5.3	6
24	MicroCT analysis of connectivity in porous structures: optimizing data acquisition and analytical methods in the context of tissue engineering. <i>Journal of the Royal Society Interface</i> , 2020 , 17, 20190833	4.1	6
23	Engineering vasculature: Architectural effects on microcapillary-like structure self-assembly. <i>PLoS ONE</i> , 2019 , 14, e0210390	3.7	6
22	Towards Cellular Sieving: Exploring the Limits of Scaffold Accessibility for Cell Type Specific Invasion. <i>Advanced Biology</i> , 2018 , 2, 1700257	3.5	5
21	In situ ESEM imaging of the vapor-pressure-dependent sublimation-induced morphology of ice. <i>Physical Review Materials</i> , 2018 , 2,	3.2	4
20	Targeted protein delivery: carbodiimide crosslinking influences protein release from microparticles incorporated within collagen scaffolds. <i>International Journal of Energy Production and Management</i> , 2019 , 6, 279-287	5.3	3
19	The effect of cationically-modified phosphorylcholine polymers on human osteoblasts in vitro and their effect on bone formation in vivo. <i>Journal of Materials Science: Materials in Medicine</i> , 2017 , 28, 144	4.5	3
18	Bioactive conformable hydrogel-carbonated hydroxyapatite nanocomposite coatings on Ti-6Al-4V substrates. <i>Materials Technology</i> , 2020 , 35, 727-733	2.1	3
17	Stress-relaxation and fatigue behaviour of synthetic brow-suspension materials. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2015 , 42, 116-28	4.1	2
16	Collagen Film Activation with Nanoscale IKVAV-Capped Dendrimers for Selective Neural Cell Response. <i>Nanomaterials</i> , 2021 , 11,	5.4	2
15	The 3D Printing of Freestanding PLLA Thin Layers and Improving First Layer Consistency through the Introduction of Sacrificial PVA. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 6320	2.6	2
14	Modulating hESC-derived cardiomyocyte and endothelial cell function with triple-helical peptides for heart tissue engineering. <i>Biomaterials</i> , 2021 , 269, 120612	15.6	2
13	Tailoring the biofunctionality of collagen biomaterials via tropoelastin incorporation and EDC-crosslinking. <i>Acta Biomaterialia</i> , 2021 , 135, 150-163	10.8	2
12	Editorial. <i>Journal of Materials Science: Materials in Medicine</i> , 2018 , 29, 16	4.5	1
11	Feature importance in multi-dimensional tissue-engineering datasets: Random forest assisted optimization of experimental variables for collagen scaffolds. <i>Applied Physics Reviews</i> , 2021 , 8, 041403	17.3	1

10	The apatite forming ability of micro- and nanocomposites of β -tricalcium phosphate/poly (D,L-lactide-co-glycolide). <i>Materials Technology</i> , 2018 , 33, 803-809	2.1	1
9	A technique for improving dispersion within polymer-glass composites using polymer precipitation. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2021 , 123, 104767	4.1	1
8	Avoiding artefacts in MicroCT imaging of collagen scaffolds: Effect of phosphotungstic acid (PTA)-staining and crosslink density. <i>Bioactive Materials</i> , 2022 , 8, 210-219	16.7	1
7	Nanocomposites for Bone Repair 2017 , 239-298		
6	Macromol. Mater. Eng. 2/2018. <i>Macromolecular Materials and Engineering</i> , 2018 , 303, 1870009	3.9	
5	Hydrothermal Synthesis of Bioinert Oxide Film on Pure Ti: In Vitro and In Vivo Studies. <i>Materials Research Society Symposia Proceedings</i> , 2012 , 1418, 133		
4	Osteoblast-like Cell Response to Apatite-Wollastonite/Polyethylene Bone Replacement Composites. <i>Materials Research Society Symposia Proceedings</i> , 2003 , 774, 7371		
3	Composition and Surface Topography Effects on Apatite-Forming Ability of Ceramic-Polymer Composites. <i>Materials Research Society Symposia Proceedings</i> , 2003 , 774, 7261		
2	Orthopedic Applications: Bioceramic and Biopolymer Nanocomposite Materials 2017 , 1276-1288		
1	The effects of despeckling filters on pore size measurements in collagen scaffold micro-CT data. <i>Journal of Microscopy</i> , 2021 , 284, 142-156	1.9	