

Di Zeugolis

List of Publications by Citations

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Version: 2024-04-09

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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.

135 papers	5,321 citations	38 h-index	69 g-index
163 ext. papers	6,500 ext. citations	7.5 avg, IF	6.1 L-index

#	Paper	IF	Citations
135	Electro-spinning of pure collagen nano-fibres - just an expensive way to make gelatin?. <i>Biomaterials</i> , 2008 , 29, 2293-305	15.6	472
134	A biomaterials approach to peripheral nerve regeneration: bridging the peripheral nerve gap and enhancing functional recovery. <i>Journal of the Royal Society Interface</i> , 2012 , 9, 202-21	4.1	384
133	The Collagen Suprafamily: From Biosynthesis to Advanced Biomaterial Development. <i>Advanced Materials</i> , 2019 , 31, e1801651	24	287
132	Biomimetic approaches in bone tissue engineering: Integrating biological and physicommechanical strategies. <i>Advanced Drug Delivery Reviews</i> , 2015 , 84, 1-29	18.5	286
131	Cross-linking of extruded collagen fibers--a biomimetic three-dimensional scaffold for tissue engineering applications. <i>Journal of Biomedical Materials Research - Part A</i> , 2009 , 89, 895-908	5.4	165
130	To cross-link or not to cross-link? Cross-linking associated foreign body response of collagen-based devices. <i>Tissue Engineering - Part B: Reviews</i> , 2015 , 21, 298-313	7.9	162
129	An injectable vehicle for nucleus pulposus cell-based therapy. <i>Biomaterials</i> , 2011 , 32, 2862-70	15.6	161
128	Regeneration and repair of tendon and ligament tissue using collagen fibre biomaterials. <i>Acta Biomaterialia</i> , 2011 , 7, 3237-47	10.8	142
127	The past, present and future in scaffold-based tendon treatments. <i>Advanced Drug Delivery Reviews</i> , 2015 , 84, 257-77	18.5	120
126	Macromolecular crowding meets tissue engineering by self-assembly: a paradigm shift in regenerative medicine. <i>Advanced Materials</i> , 2014 , 26, 3024-34	24	114
125	Progress in cell-based therapies for tendon repair. <i>Advanced Drug Delivery Reviews</i> , 2015 , 84, 240-56	18.5	114
124	Hydrolyzed Collagen-Sources and Applications. <i>Molecules</i> , 2019 , 24,	4.8	107
123	Collagen: finding a solution for the source. <i>Tissue Engineering - Part A</i> , 2013 , 19, 1491-4	3.9	84
122	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> , 2005 , 86, A1-A56	2.8	78
121	Macromolecularly crowded in vitro microenvironments accelerate the production of extracellular matrix-rich supramolecular assemblies. <i>Scientific Reports</i> , 2015 , 5, 8729	4.9	72
120	Alternative uses for co-products: Harnessing the potential of valuable compounds from meat processing chains. <i>Meat Science</i> , 2017 , 132, 90-98	6.4	66
119	A shape-controlled tuneable microgel platform to modulate angiogenic paracrine responses in stem cells. <i>Biomaterials</i> , 2014 , 35, 8757-8766	15.6	63

118	The biophysical, biochemical, and biological toolbox for tenogenic phenotype maintenance in vitro. <i>Trends in Biotechnology</i> , 2014 , 32, 474-82	15.1	62
117	Nano-textured self-assembled aligned collagen hydrogels promote directional neurite guidance and overcome inhibition by myelin associated glycoprotein. <i>Soft Matter</i> , 2011 , 7, 2770	3.6	60
116	Engineering in vitro microenvironments for cell based therapies and drug discovery. <i>Drug Discovery Today</i> , 2013 , 18, 1099-108	8.8	58
115	The effect of intraluminal contact mediated guidance signals on axonal mismatch during peripheral nerve repair. <i>Biomaterials</i> , 2012 , 33, 6660-71	15.6	56
114	Current and upcoming therapies to modulate skin scarring and fibrosis. <i>Advanced Drug Delivery Reviews</i> , 2019 , 146, 37-59	18.5	55
113	Amine functionalization of collagen matrices with multifunctional polyethylene glycol systems. <i>Biomacromolecules</i> , 2010 , 11, 3093-101	6.9	53
112	Substrate topography: A valuable in vitro tool, but a clinical red herring for in vivo tenogenesis. <i>Acta Biomaterialia</i> , 2015 , 27, 3-12	10.8	52
111	Post-self-assembly experimentation on extruded collagen fibres for tissue engineering applications. <i>Acta Biomaterialia</i> , 2008 , 4, 1646-56	10.8	52
110	Engineering extruded collagen fibers for biomedical applications. <i>Journal of Applied Polymer Science</i> , 2008 , 108, 2886-2894	2.9	52
109	Preferential tendon stem cell response to growth factor supplementation. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2016 , 10, 783-98	4.4	51
108	Collagen Cross-Linking: Biophysical, Biochemical, and Biological Response Analysis. <i>Tissue Engineering - Part A</i> , 2017 , 23, 1064-1077	3.9	47
107	Macromolecular crowding meets oxygen tension in human mesenchymal stem cell culture - A step closer to physiologically relevant in vitro organogenesis. <i>Scientific Reports</i> , 2016 , 6, 30746	4.9	47
106	Harnessing Hierarchical Nano- and Micro-Fabrication Technologies for Musculoskeletal Tissue Engineering. <i>Advanced Healthcare Materials</i> , 2015 , 4, 2488-99	10.1	46
105	Assessment of stem cell carriers for tendon tissue engineering in pre-clinical models. <i>Stem Cell Research and Therapy</i> , 2014 , 5, 38	8.3	44
104	Accelerated Development of Supramolecular Corneal Stromal-Like Assemblies from Corneal Fibroblasts in the Presence of Macromolecular Crowders. <i>Tissue Engineering - Part C: Methods</i> , 2015 , 21, 660-70	2.9	44
103	Essential modification of the Sircol Collagen Assay for the accurate quantification of collagen content in complex protein solutions. <i>Acta Biomaterialia</i> , 2010 , 6, 3146-51	10.8	41
102	An experimental toolbox for characterization of mammalian collagen type I in biological specimens. <i>Nature Protocols</i> , 2018 , 13, 507-529	18.8	40
101	Influence of sterilisation methods on collagen-based devices stability and properties. <i>Expert Review of Medical Devices</i> , 2014 , 11, 305-14	3.5	40

100	Collagen solubility testing, a quality assurance step for reproducible electro-spun nano-fibre fabrication. A technical note. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2008 , 19, 1307-17	3.5	40
99	The influence of a natural cross-linking agent (<i>Myrica rubra</i>) on the properties of extruded collagen fibres for tissue engineering applications. <i>Materials Science and Engineering C</i> , 2010 , 30, 190-195	8.3	38
98	The influence of anisotropic nano- to micro-topography on in vitro and in vivo osteogenesis. <i>Nanomedicine</i> , 2015 , 10, 693-711	5.6	37
97	Progress in Corneal Stromal Repair: From Tissue Grafts and Biomaterials to Modular Supramolecular Tissue-Like Assemblies. <i>Advanced Materials</i> , 2016 , 28, 5381-99	24	37
96	Preferential cell response to anisotropic electro-spun fibrous scaffolds under tension-free conditions. <i>Journal of Materials Science: Materials in Medicine</i> , 2012 , 23, 137-48	4.5	35
95	Electromechanical properties of dried tendon and isoelectrically focused collagen hydrogels. <i>Acta Biomaterialia</i> , 2012 , 8, 3073-9	10.8	35
94	The physiological relevance of wet versus dry differential scanning calorimetry for biomaterial evaluation: a technical note. <i>Polymer International</i> , 2010 , 59, 1403-1407	3.3	33
93	In Vitro Enzymatic Degradation of Tissue Grafts and Collagen Biomaterials by Matrix Metalloproteinases: Improving the Collagenase Assay. <i>ACS Biomaterials Science and Engineering</i> , 2017 , 3, 1922-1932	5.5	32
92	Glycosaminoglycans in Tendon Physiology, Pathophysiology, and Therapy. <i>Bioconjugate Chemistry</i> , 2015 , 26, 1237-51	6.3	32
91	Effects of Polydopamine Functionalization on Boron Nitride Nanotube Dispersion and Cytocompatibility. <i>Bioconjugate Chemistry</i> , 2015 , 26, 2025-37	6.3	32
90	Low, but not too low, oxygen tension and macromolecular crowding accelerate extracellular matrix deposition in human dermal fibroblast culture. <i>Acta Biomaterialia</i> , 2016 , 44, 221-31	10.8	32
89	Cell derived extracellular matrix-rich biomimetic substrate supports podocyte proliferation, differentiation and maintenance of native phenotype. <i>Advanced Functional Materials</i> , 2020 , 30, 1908752	15.6	31
88	Low oxygen tension and macromolecular crowding accelerate extracellular matrix deposition in human corneal fibroblast culture. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2018 , 12, 6-18	4.4	31
87	Identification of topographical architectures supporting the phenotype of rat tenocytes. <i>Acta Biomaterialia</i> , 2019 , 83, 277-290	10.8	31
86	Scaffold and scaffold-free self-assembled systems in regenerative medicine. <i>Biotechnology and Bioengineering</i> , 2016 , 113, 1155-63	4.9	29
85	Influence of porosity and pore shape on structural, mechanical and biological properties of poly ϵ -caprolactone electro-spun fibrous scaffolds. <i>Nanomedicine</i> , 2016 , 11, 1031-40	5.6	29
84	Acetic acid and pepsin result in high yield, high purity and low macrophage response collagen for biomedical applications. <i>Biomedical Materials (Bristol)</i> , 2017 , 12, 065009	3.5	28
83	Extruded collagen fibres for tissue-engineering applications: influence of collagen concentration and NaCl amount. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2009 , 20, 219-34	3.5	27

82	Polydispersity and negative charge are key modulators of extracellular matrix deposition under macromolecular crowding conditions. <i>Acta Biomaterialia</i> , 2019 , 88, 197-210	10.8	26
81	Advancements and Challenges in Multidomain Multicargo Delivery Vehicles. <i>Advanced Materials</i> , 2018 , 30, e1704324	24	26
80	Relevance of bioreactors and whole tissue cultures for the translation of new therapies to humans. <i>Journal of Orthopaedic Research</i> , 2018 , 36, 10-21	3.8	26
79	An academic, clinical and industrial update on electrospun, additive manufactured and imprinted medical devices. <i>Expert Review of Medical Devices</i> , 2015 , 12, 601-12	3.5	24
78	The Multifaceted Potential of Electro-spinning in Regenerative Medicine. <i>Pharmaceutical Nanotechnology</i> , 2014 , 2, 23-34	4	24
77	In vitro evaluation of Ficoll-enriched and genipin-stabilised collagen scaffolds. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2014 , 8, 233-41	4.4	24
76	Co-transfection of decorin and interleukin-10 modulates pro-fibrotic extracellular matrix gene expression in human tenocyte culture. <i>Scientific Reports</i> , 2016 , 6, 20922	4.9	24
75	The influence of poly(ethylene glycol) ether tetrasuccinimidyl glutarate on the structural, physical, and biological properties of collagen fibers. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2016 , 104, 914-22	3.5	23
74	Spinal cord injury in vitro: modelling axon growth inhibition. <i>Drug Discovery Today</i> , 2010 , 15, 436-43	8.8	22
73	Chasing Chimeras - The elusive stable chondrogenic phenotype. <i>Biomaterials</i> , 2019 , 192, 199-225	15.6	22
72	Electric field stimulation for tissue engineering applications. <i>BMC Biomedical Engineering</i> , 2021 , 3, 1	4.3	22
71	Recreating complex pathophysiologies in vitro with extracellular matrix surrogates for anticancer therapeutics screening. <i>Drug Discovery Today</i> , 2016 , 21, 1521-1531	8.8	20
70	A Qualitative Assessment of EU Energy Policy Interactions. <i>Energy Sources, Part B: Economics, Planning and Policy</i> , 2012 , 7, 177-187	3.1	20
69	Carrageenan enhances chondrogenesis and osteogenesis in human bone marrow stem cell culture. <i>European Cells and Materials</i> , 2019 , 37, 310-332	4.3	19
68	Battling adhesions: from understanding to prevention. <i>BMC Biomedical Engineering</i> , 2019 , 1, 5	4.3	18
67	Automation, Monitoring, and Standardization of Cell Product Manufacturing. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020 , 8, 811	5.8	18
66	Collagen: Materials Analysis and Implant Uses 2011 , 261-278		17
65	Multifactorial bottom-up bioengineering approaches for the development of living tissue substitutes. <i>FASEB Journal</i> , 2019 , 33, 5741-5754	0.9	16

64	Electrospun Polymers in Cartilage Engineering-State of Play. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020 , 8, 77	5.8	15
63	Surface hierarchical porosity in poly (ε-caprolactone) membranes with potential applications in tissue engineering prepared by foaming in supercritical carbon dioxide. <i>Journal of Supercritical Fluids</i> , 2014 , 95, 273-284	4.2	15
62	Collagen Quantification in Tissue Specimens. <i>Methods in Molecular Biology</i> , 2017 , 1627, 341-350	1.4	15
61	A barbed suture repair for flexor tendons: a novel technique with no exposed barbs. <i>Plastic and Reconstructive Surgery - Global Open</i> , 2014 , 2, e237	1.2	15
60	Influence of the Thermodynamic and Kinetic Control of Self-Assembly on the Microstructure Evolution of Silk-Elastin-Like Recombinamer Hydrogels. <i>Small</i> , 2020 , 16, e2001244	11	14
59	The synergistic effect of low oxygen tension and macromolecular crowding in the development of extracellular matrix-rich tendon equivalents. <i>Biofabrication</i> , 2020 , 12, 025018	10.5	14
58	The Few Who Made It: Commercially and Clinically Successful Innovative Bone Grafts. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020 , 8, 952	5.8	14
57	Twenty-five years of nano-bio-materials: have we revolutionized healthcare?. <i>Nanomedicine</i> , 2016 , 11, 985-7	5.6	14
56	State of art and limitations in genetic engineering to induce stable chondrogenic phenotype. <i>Biotechnology Advances</i> , 2018 , 36, 1855-1869	17.8	13
55	Seaweed polysaccharides as macromolecular crowding agents. <i>International Journal of Biological Macromolecules</i> , 2020 , 164, 434-446	7.9	13
54	The influence of animal species, gender and tissue on the structural, biophysical, biochemical and biological properties of collagen sponges. <i>Journal of Materials Science: Materials in Medicine</i> , 2021 , 32, 12	4.5	13
53	Scaffold-free cell-based tissue engineering therapies: advances, shortfalls and forecast. <i>Npj Regenerative Medicine</i> , 2021 , 6, 18	15.8	13
52	Battling bacterial infection with hexamethylene diisocyanate cross-linked and Cefaclor-loaded collagen scaffolds. <i>Biomedical Materials (Bristol)</i> , 2017 , 12, 035013	3.5	11
51	Extracellular matrix-based biomaterials as adipose-derived stem cell delivery vehicles in wound healing: a comparative study between a collagen scaffold and two xenografts. <i>Stem Cell Research and Therapy</i> , 2020 , 11, 510	8.3	11
50	2D imprinted substrates and 3D electrospun scaffolds revolutionize biomedicine. <i>Nanomedicine</i> , 2016 , 11, 989-92	5.6	11
49	Local pharmacological induction of angiogenesis: Drugs for cells and cells as drugs. <i>Advanced Drug Delivery Reviews</i> , 2019 , 146, 126-154	18.5	9
48	Macromolecular crowding as a means to assess the effectiveness of chondrogenic media. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2019 , 13, 217-231	4.4	9
47	Influence of Nonsulfated Polysaccharides on the Properties of Electrospun Poly(lactic-glycolic acid) Fibers. <i>ACS Biomaterials Science and Engineering</i> , 2017 , 3, 1304-1312	5.5	8

46	Skin Tissue Engineering 2011 , 467-499		8
45	Influence of Cross-Linking Method and Disinfection/Sterilization Treatment on the Structural, Biophysical, Biochemical, and Biological Properties of Collagen-Based Devices. <i>ACS Biomaterials Science and Engineering</i> , 2018 , 4, 2739-2747	5.5	8
44	Porcine mesothelium matrix as a biomaterial for wound healing applications. <i>Materials Today Bio</i> , 2020 , 7, 100057	9.9	7
43	Environmental fate and effect of biodegradable electro-spun scaffolds (biomaterial)-a case study. <i>Journal of Materials Science: Materials in Medicine</i> , 2018 , 29, 51	4.5	6
42	Joint academic and industrial efforts towards innovative and efficient solutions for clinical needs. <i>Journal of Materials Science: Materials in Medicine</i> , 2018 , 29, 129	4.5	6
41	It is time to crowd your cell culture media - Physicochemical considerations with biological consequences. <i>Biomaterials</i> , 2021 , 275, 120943	15.6	6
40	Transforming eukaryotic cell culture with macromolecular crowding. <i>Trends in Biochemical Sciences</i> , 2021 , 46, 805-811	10.3	5
39	Preparation and Characterization of Tissue Surrogates Rich in Extracellular Matrix Using the Principles of Macromolecular Crowding. <i>Methods in Molecular Biology</i> , 2019 , 1952, 245-259	1.4	4
38	Production and Characterization of Chemically Cross-Linked Collagen Scaffolds. <i>Methods in Molecular Biology</i> , 2019 , 1944, 23-38	1.4	4
37	The effect of aligned electrospun fibers and macromolecular crowding in tenocyte culture. <i>Methods in Cell Biology</i> , 2020 , 157, 225-247	1.8	4
36	Growth factor and macromolecular crowding supplementation in human tenocyte culture. <i>Biomaterials and Biosystems</i> , 2021 , 1, 100009		4
35	Biophysics Rules the Cell Culture but Has Yet to Reach the Clinic: Why Is That?. <i>Journal of the American Academy of Orthopaedic Surgeons, The</i> , 2017 , 25, e144-e147	4.5	3
34	Theranostic drug test incorporating the bone-marrow microenvironment can predict the clinical response of acute myeloid leukaemia to chemotherapy. <i>British Journal of Haematology</i> , 2020 , 189, e254-e258	4.5	3
33	Decellularised porcine peritoneum as a tendon protector sheet. <i>Biomedical Materials (Bristol)</i> , 2019 , 14, 044102	3.5	3
32	Engineering Anisotropic 2D and 3D Structures for Tendon Repair and Regeneration 2015 , 225-242		3
31	Xenogenic Tissues and Biomaterials for the Skeletal System 2011 , 387-404		3
30	Hyaluronic Acid as Macromolecular Crowder in Equine Adipose-Derived Stem Cell Cultures. <i>Cells</i> , 2021 , 10,	7.9	3
29	Bioinspired in vitro microenvironments to control cell fate: focus on macromolecular crowding. <i>American Journal of Physiology - Cell Physiology</i> , 2021 , 320, C842-C849	5.4	3

28	Hypoxia Preconditioning of Bone Marrow Mesenchymal Stem Cells Before Implantation in Orthopaedics. <i>Journal of the American Academy of Orthopaedic Surgeons, The</i> , 2019 , 27, e1040-e1042	4.5	3
27	Engineering the Tenogenic Niche In Vitro with Microenvironmental Tools. <i>Advanced Therapeutics</i> , 2020 , 3, 1900072	4.9	2
26	In vitro and preclinical characterisation of compressed, macro-porous and collagen coated poly-ε-caprolactone electro-spun scaffolds. <i>Biomedical Materials (Bristol)</i> , 2019 , 14, 055007	3.5	2
25	Non-destructive determination of collagen fibril width in extruded collagen fibres by piezoresponse force microscopy. <i>Biomedical Physics and Engineering Express</i> , 2017 , 3, 055004	1.5	2
24	Data on in vitro and in vivo cell orientation on substrates with different topographies. <i>Data in Brief</i> , 2015 , 5, 379-82	1.2	2
23	Macromolecular Crowding: The Next Frontier in Tissue Engineering. <i>Advances in Science and Technology</i> , 2014 , 96, 1-8	0.1	2
22	In the quest of the optimal tissue source (porcine male and female articular, tracheal and auricular cartilage) for the development of collagen sponges for articular cartilage. <i>Biomedical Engineering Advances</i> , 2021 , 1, 100002		2
21	Development macro-porous electro-spun meshes with clinically relevant mechanical properties-a technical note. <i>Biomedical Materials (Bristol)</i> , 2019 , 14, 024103	3.5	2
20	Development and characterisation of cytocompatible polyester substrates with tunable mechanical properties and degradation rate. <i>Acta Biomaterialia</i> , 2021 , 121, 303-315	10.8	2
19	The Influence of Bloom Index, Endotoxin Levels and Polyethylene Glycol Succinimidyl Glutarate Crosslinking on the Physicochemical and Biological Properties of Gelatin Biomaterials. <i>Biomolecules</i> , 2021 , 11,	5.9	2
18	Scaffolds for tendon tissue engineering 2019 , 259-298		1
17	2.15 Collagen: Materials Analysis and Implant Uses ? 2017 , 332-350		1
16	6.20 Skin Tissue Engineering ? 2017 , 334-382		1
15	Molecular Crowding (in Cell Culture) 2020 , 483-509		1
14	Decellularized xenografts in regenerative medicine: From processing to clinical application. <i>Xenotransplantation</i> , 2021 , 28, e12683	2.8	1
13	Translational Research Symposium-collaborative efforts as driving forces of healthcare innovation. <i>Journal of Materials Science: Materials in Medicine</i> , 2019 , 30, 133	4.5	1
12	Molecular Crowding (in Cell Culture) 2018 , 1-27		1
11	A combined physicochemical approach towards human tenocyte phenotype maintenance. <i>Materials Today Bio</i> , 2021 , 12, 100130	9.9	1

10	In the quest of the optimal chondrichthyan for the development of collagen sponges for articular cartilage. <i>Journal of Science: Advanced Materials and Devices</i> , 2021 , 6, 390-398	4.2	1
9	Modulation of stem cell response using biodegradable polyester films with different stiffness. <i>Biomedical Engineering Advances</i> , 2021 , 2, 100007		1
8	Formation of Corneal Stromal-Like Assemblies Using Human Corneal Fibroblasts and Macromolecular Crowding. <i>Methods in Molecular Biology</i> , 2020 , 2145, 119-141	1.4	1
7	Collagen type II: From biosynthesis to advanced biomaterials for cartilage engineering. <i>Biomaterials and Biosystems</i> , 2021 , 4, 100030		1
6	Flexor Tenorrhaphy. <i>Plastic and Reconstructive Surgery</i> , 2015 , 136, 23-24	2.7	0
5	Adapting the Scar-in-a-Jar to Skin Fibrosis and Screening Traditional and Contemporary Anti-Fibrotic Therapies. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021 , 9, 756399	5.8	0
4	Designing Microenvironments for Optimal Outcomes in Tissue Engineering and Regenerative Medicine: From Biopolymers to Culturing Conditions 2019 , 119-119		
3	2.21 Xenogenic Tissues and Biomaterials for the Skeletal System 2017 , 471-504		
2	REFORMED COLLAGEN FIBRES 2006 , 29-36		
1	Materials Science in Ireland - Current Developments and Future Aspirations. <i>Advanced Materials</i> , 2016 , 28, 5346-8	24	