

Anthony Callanan

List of Publications by Citations

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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.

71 papers	1,633 citations	22 h-index	38 g-index
72 ext. papers	1,898 ext. citations	4.3 avg, IF	5.18 L-index

#	Paper	IF	Citations
71	Fibrin: a natural biodegradable scaffold in vascular tissue engineering. <i>Cells Tissues Organs</i> , 2008 , 188, 333-46	2.1	139
70	Anisotropic fibrous scaffolds for articular cartilage regeneration. <i>Tissue Engineering - Part A</i> , 2012 , 18, 2073-83	3.9	117
69	Comparison of methods for whole-organ decellularization in tissue engineering of bioartificial organs. <i>Tissue Engineering - Part B: Reviews</i> , 2013 , 19, 194-208	7.9	112
68	Vessel asymmetry as an additional diagnostic tool in the assessment of abdominal aortic aneurysms. <i>Journal of Vascular Surgery</i> , 2009 , 49, 443-54	3.5	103
67	Combinatorial scaffold morphologies for zonal articular cartilage engineering. <i>Acta Biomaterialia</i> , 2014 , 10, 2065-75	10.8	101
66	3-D numerical simulation of blood flow through models of the human aorta. <i>Journal of Biomechanical Engineering</i> , 2005 , 127, 767-75	2.1	89
65	ECM-based materials in cardiovascular applications: Inherent healing potential and augmentation of native regenerative processes. <i>International Journal of Molecular Sciences</i> , 2009 , 10, 4375-417	6.3	75
64	3D human liver tissue from pluripotent stem cells displays stable phenotype in vitro and supports compromised liver function in vivo. <i>Archives of Toxicology</i> , 2018 , 92, 3117-3129	5.8	60
63	Effects of fiber orientation on the frictional properties and damage of regenerative articular cartilage surfaces. <i>Tissue Engineering - Part A</i> , 2013 , 19, 2300-10	3.9	44
62	Blended electrospinning with human liver extracellular matrix for engineering new hepatic microenvironments. <i>Scientific Reports</i> , 2019 , 9, 6293	4.9	42
61	A Drug-Induced Hybrid Electrospun Poly-Capro-Lactone: Cell-Derived Extracellular Matrix Scaffold for Liver Tissue Engineering. <i>Tissue Engineering - Part A</i> , 2017 , 23, 650-662	3.9	40
60	Optimization of SDS exposure on preservation of ECM characteristics in whole organ decellularization of rat kidneys. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2017 , 105, 1352-1360	3.5	39
59	High-throughput production of silk fibroin-based electrospun fibers as biomaterial for skin tissue engineering applications. <i>Materials Science and Engineering C</i> , 2020 , 112, 110939	8.3	37
58	Xenogenic extracellular matrices as potential biomaterials for interposition grafting in urological surgery. <i>Journal of Urology</i> , 2010 , 184, 2246-53	2.5	36
57	Evaluation of viability and proliferative activity of human urothelial cells cultured onto xenogenic tissue-engineered extracellular matrices. <i>Urology</i> , 2011 , 77, 1007.e1-7	1.6	34
56	The effect of electrospun polycaprolactone scaffold morphology on human kidney epithelial cells. <i>Biomedical Materials (Bristol)</i> , 2017 , 13, 015006	3.5	30
55	On the optimization of low-cost FDM 3D printers for accurate replication of patient-specific abdominal aortic aneurysm geometry. <i>3D Printing in Medicine</i> , 2018 , 4, 2	5	28

54	Novel phase separated polycaprolactone/collagen scaffolds for cartilage tissue engineering. <i>Biomedical Materials (Bristol)</i> , 2018 , 13, 051001	3.5	28
53	A Non-woven Path: Electrospun Poly(lactic acid) Scaffolds for Kidney Tissue Engineering. <i>Tissue Engineering and Regenerative Medicine</i> , 2018 , 15, 301-310	4.5	27
52	Nozzle-free electrospinning of Polyvinylpyrrolidone/Poly(glycerol sebacate) fibrous scaffolds for skin tissue engineering applications. <i>Medical Engineering and Physics</i> , 2019 , 71, 56-67	2.4	25
51	New pulsatile hydrostatic pressure bioreactor for vascular tissue-engineered constructs. <i>Artificial Organs</i> , 2010 , 34, 153-8	2.6	25
50	Use of the photoelastic method and finite element analysis in the assessment of wall strain in abdominal aortic aneurysm models. <i>Journal of Biomechanics</i> , 2012 , 45, 1759-68	2.9	22
49	Construction and evaluation of urinary bladder bioreactor for urologic tissue-engineering purposes. <i>Urology</i> , 2011 , 78, 954-60	1.6	22
48	Hybrid cardiovascular sourced extracellular matrix scaffolds as possible platforms for vascular tissue engineering. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2020 , 108, 910-924	3.5	18
47	A soft 3D polyacrylate hydrogel recapitulates the cartilage niche and allows growth-factor free tissue engineering of human articular cartilage. <i>Acta Biomaterialia</i> , 2019 , 90, 146-156	10.8	16
46	From scaffold to structure: the synthetic production of cell derived extracellular matrix for liver tissue engineering. <i>Biomedical Physics and Engineering Express</i> , 2018 , 4, 065015	1.5	16
45	Mechanical characterisation of unidirectional and cross-directional multilayered urinary bladder matrix (UBM) scaffolds. <i>Medical Engineering and Physics</i> , 2012 , 34, 1368-74	2.4	16
44	Realistic Temporal Variations of Shear Stress Modulate MMP-2 and MCP-1 Expression in Arteriovenous Vascular Access. <i>Cellular and Molecular Bioengineering</i> , 2009 , 2, 591-605	3.9	15
43	Arrays of 3D double-network hydrogels for the high-throughput discovery of materials with enhanced physical and biological properties. <i>Acta Biomaterialia</i> , 2016 , 34, 104-112	10.8	14
42	A combinatorial approach: Cryo-printing and electrospinning hybrid scaffolds for cartilage tissue engineering. <i>Bioprinting</i> , 2019 , 16, e00056	7	14
41	Porcine extracellular matrix scaffolds in reconstructive urology: An ex vivo comparative study of their biomechanical properties. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2011 , 4, 375-82	4.1	14
40	Fabrication of 3D cryo-printed scaffolds using low-temperature deposition manufacturing for cartilage tissue engineering. <i>Bioprinting</i> , 2018 , 10, e00033	7	14
39	The effects of stent interaction on porcine urinary bladder matrix employed as stent-graft materials. <i>Journal of Biomechanics</i> , 2014 , 47, 1885-93	2.9	13
38	Development of a rotational cell-seeding system for tubularized extracellular matrix (ECM) scaffolds in vascular surgery. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2014 , 102, 781-8	3.5	13
37	Extracellular matrices as advanced scaffolds for vascular tissue engineering. <i>Bio-Medical Materials and Engineering</i> , 2009 , 19, 333-48	1	13

36	The effect of vessel material properties and pulsatile wall motion on the fixation of a proximal stent of an endovascular graft. <i>Medical Engineering and Physics</i> , 2011 , 33, 106-11	2.4	13
35	Acoustic radiation force impulse imaging on ex vivo abdominal aortic aneurysm model. <i>Ultrasound in Medicine and Biology</i> , 2010 , 36, 821-32	3.5	13
34	Influence of aorta extracellular matrix in electrospun polycaprolactone scaffolds. <i>Journal of Applied Polymer Science</i> , 2019 , 136, 48181	2.9	12
33	Responsive poly (L-glutamic acid) fibres for biomedical applications. <i>Journal of Materials Chemistry B</i> , 2013 , 1, 1397-1401	7.3	11
32	In vivo feasibility case study for evaluating abdominal aortic aneurysm tissue properties and rupture potential using acoustic radiation force impulse imaging. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2011 , 4, 507-13	4.1	11
31	Acrylate-based materials for heart valve scaffold engineering. <i>Biomaterials Science</i> , 2017 , 6, 154-167	7.4	10
30	Augmentation cystoplasty and extracellular matrix scaffolds: an ex vivo comparative study with autogenous detubularised ileum. <i>PLoS ONE</i> , 2011 , 6, e20323	3.7	9
29	Integrational Technologies for the Development of Three-Dimensional Scaffolds as Platforms in Cartilage Tissue Engineering. <i>ACS Omega</i> , 2020 , 5, 12623-12636	3.9	8
28	Mechanical characterisation of directionally frozen polycaprolactone scaffolds using 1,4-dioxane and glacial acetic acid for articular cartilage tissue engineering. <i>Biomedical Physics and Engineering Express</i> , 2018 , 4, 057004	1.5	8
27	On the potential of hydrated storage for naturally derived ECMs and associated effects on mechanical and cellular performance. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2014 , 102, 89-97	3.5	8
26	Rapid fabrication and screening of tailored functional 3D biomaterials. <i>Materials Science and Engineering C</i> , 2020 , 108, 110489	8.3	8
25	Cell-seeded extracellular matrices for bladder reconstruction: an ex vivo comparative study of their biomechanical properties. <i>International Journal of Artificial Organs</i> , 2013 , 36, 251-8	1.9	7
24	Controlling Electrospun Polymer Morphology for Tissue Engineering Demonstrated Using hepG2 Cell Line. <i>Journal of Visualized Experiments</i> , 2020 ,	1.6	6
23	Recent advancements in the bioprinting of vascular grafts. <i>Biofabrication</i> , 2021 , 13,	10.5	6
22	Architected fibrous scaffolds for engineering anisotropic tissues. <i>Biofabrication</i> , 2021 , 13,	10.5	6
21	Modulating electrospun polycaprolactone scaffold morphology and composition to alter endothelial cell proliferation and angiogenic gene response. <i>PLoS ONE</i> , 2020 , 15, e0240332	3.7	5
20	Multiscale SAXS/WAXD characterisation of the deformation mechanisms of electrospun PCL scaffolds. <i>Polymer</i> , 2020 , 203, 122775	3.9	5
19	Evaluation of xenogenic extracellular matrices as adjuvant scaffolds for the treatment of stress urinary incontinence. <i>International Urogynecology Journal</i> , 2013 , 24, 2105-10	2	4

18	Finite element and photoelastic modelling of an abdominal aortic aneurysm: a comparative study. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2012 , 15, 1111-9	2.1	4
17	A modified 3D printer as a hybrid bioprinting-electrospinning system for use in vascular tissue engineering applications. <i>Medical Engineering and Physics</i> , 2021 , 94, 52-60	2.4	4
16	From Tension to Compression: Asymmetric Mechanical Behaviour of Trabecular Bone & Organic Phase. <i>Annals of Biomedical Engineering</i> , 2018 , 46, 801-809	4.7	3
15	Electrospinning Fabrication Methods to Incorporate Laminin in Polycaprolactone for Kidney Tissue Engineering. <i>Tissue Engineering and Regenerative Medicine</i> , 2021 , 1	4.5	3
14	The use of antifreeze proteins to modify pore structure in directionally frozen alginate sponges for cartilage tissue engineering. <i>Biomedical Physics and Engineering Express</i> , 2020 , 6, 055016	1.5	3
13	Response differences of HepG2 and Primary Mouse Hepatocytes to morphological changes in electrospun PCL scaffolds. <i>Scientific Reports</i> , 2021 , 11, 3059	4.9	3
12	Development of a Bladder Bioreactor for Tissue Engineering in Urology. <i>Methods in Molecular Biology</i> , 2016 , 1502, 213-21	1.4	2
11	Electrospun fibre diameter and its effects on vascular smooth muscle cells. <i>Journal of Materials Science: Materials in Medicine</i> , 2021 , 32, 131	4.5	2
10	A Review of Validation Methods for the Intracranial Response of FEHM to Blunt Impacts. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 7227	2.6	2
9	Influence of surface topography on PCL electrospun scaffolds for liver tissue engineering. <i>Journal of Materials Chemistry B</i> , 2021 , 9, 8081-8093	7.3	2
8	Human biliary epithelial cells from discarded donor livers rescue bile duct structure and function in a mouse model of biliary disease.. <i>Cell Stem Cell</i> , 2022 , 29, 355-371.e10	18	2
7	Secreted Endothelial Cell Factors Immobilized on Collagen Scaffolds Enhance the Recipient Endothelial Cell Environment. <i>BioResearch Open Access</i> , 2016 , 5, 61-71	2.4	1
6	Production and Preparation of Porcine Urinary Bladder Matrix (UBM) for Urinary Bladder Tissue-Engineering Purposes. <i>Advances in Experimental Medicine and Biology</i> , 2021 , 1345, 119-128	3.6	1
5	Modulating electrospun polycaprolactone scaffold morphology and composition to alter endothelial cell proliferation and angiogenic gene response 2020 , 15, e0240332		
4	Modulating electrospun polycaprolactone scaffold morphology and composition to alter endothelial cell proliferation and angiogenic gene response 2020 , 15, e0240332		
3	Modulating electrospun polycaprolactone scaffold morphology and composition to alter endothelial cell proliferation and angiogenic gene response 2020 , 15, e0240332		
2	Modulating electrospun polycaprolactone scaffold morphology and composition to alter endothelial cell proliferation and angiogenic gene response 2020 , 15, e0240332		
1	Modulation of Tissue Microenvironment Following Myocardial Infarction. <i>Advanced NanoBiomed Research</i> , 2020 , 005	0	

