

Eoghan Cunnane

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.

43
papers

657
citations

14
h-index

24
g-index

45
ext. papers

895
ext. citations

4.9
avg, IF

4.39
L-index

#	Paper	IF	Citations
43	Advancing cell instructive biomaterials through increased understanding of cell receptor spacing and material surface functionalization. <i>Regenerative Engineering and Translational Medicine</i> , 2021 , 7, 553-547	2.4	4
42	Extracellular Vesicles Derived from Primary Adipose Stromal Cells Induce Elastin and Collagen Deposition by Smooth Muscle Cells within 3D Fibrin Gel Culture. <i>Bioengineering</i> , 2021 , 8,	5.3	2
41	Cryopreservation of porcine urethral tissue: Storage at -20°C preserves the mechanical, failure and geometrical properties. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2021 , 119, 104516	4.1	1
40	Comparison of synthetic mesh erosion and chronic pain rates after surgery for pelvic organ prolapse and stress urinary incontinence: a systematic review. <i>International Urogynecology Journal</i> , 2021 , 32, 573-580	2	9
39	Mechanical characterization of a biodegradable mesh for the treatment of stress urinary incontinence. <i>International Journal of Urology</i> , 2021 , 28, 243-245	2.3	1
38	Mechanical, compositional and morphological characterisation of the human male urethra for the development of a biomimetic tissue engineered urethral scaffold. <i>Biomaterials</i> , 2021 , 269, 120651	15.6	4
37	Extracellular vesicles for tissue repair and regeneration: Evidence, challenges and opportunities. <i>Advanced Drug Delivery Reviews</i> , 2021 , 175, 113775	18.5	21
36	CCL2 loaded microparticles promote acute patency in silk-based vascular grafts implanted in rat aortae. <i>Acta Biomaterialia</i> , 2021 , 135, 126-138	10.8	0
35	Development of a Semi-Automated, Bulk Seeding Device for Large Animal Model Implantation of Tissue Engineered Vascular Grafts. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020 , 8, 597847	5.8	4
34	Stress Urinary Incontinence and Pelvic Organ Prolapse: Biologic Graft Materials Revisited. <i>Tissue Engineering - Part B: Reviews</i> , 2020 , 26, 475-483	7.9	4
33	Drug delivery across the blood-brain barrier: recent advances in the use of nanocarriers. <i>Nanomedicine</i> , 2020 , 15, 205-214	5.6	52
32	Bioresorbable silk grafts for small diameter vascular tissue engineering applications: In vitro and in vivo functional analysis. <i>Acta Biomaterialia</i> , 2020 , 105, 146-158	10.8	36
31	Extracellular Vesicles Enhance the Remodeling of Cell-Free Silk Vascular Scaffolds in Rat Aortae. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 26955-26965	9.5	14
30	Adipose-derived stromal cell secreted factors induce the elastogenesis cascade within 3D aortic smooth muscle cell constructs. <i>Matrix Biology Plus</i> , 2019 , 4, 100014	5.1	7
29	The presence of helical flow can suppress areas of disturbed shear in parameterised models of an arteriovenous fistula. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2019 , 35, e3259	2.6	6
28	Clinical Evaluation of a Safety-device to Prevent Urinary Catheter Inflation Related Injuries. <i>Urology</i> , 2018 , 115, 179-183	1.6	3
27	Characterisation of human urethral rupture thresholds for urinary catheter inflation related injuries. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2018 , 83, 102-107	4.1	5

26	Biomaterials and Regenerative Medicine in Urology. <i>Advances in Experimental Medicine and Biology</i> , 2018 , 1107, 189-198	3.6	5
25	On the influence of wall calcification and intraluminal thrombus on prediction of abdominal aortic aneurysm rupture. <i>Journal of Vascular Surgery</i> , 2018 , 67, 1234-1246.e2	3.5	21
24	Mechanical characterisation of porcine non-intestinal colorectal tissues for innovation in surgical instrument design. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2018 , 232, 796-806	1.7	5
23	Future Perspectives on the Role of Stem Cells and Extracellular Vesicles in Vascular Tissue Regeneration. <i>Frontiers in Cardiovascular Medicine</i> , 2018 , 5, 86	5.4	28
22	The Role of Stem Cells for Reconstructing the Lower Urinary Tracts. <i>Current Stem Cell Research and Therapy</i> , 2018 , 13, 458-465	3.6	4
21	Urinary Bladder vs Gastrointestinal Tissue: A Comparative Study of Their Biomechanical Properties for Urinary Tract Reconstruction. <i>Urology</i> , 2018 , 113, 235-240	1.6	9
20	Tissue engineered extracellular matrices (ECMs) in urology: Evolution and future directions. <i>Journal of the Royal College of Surgeons of Edinburgh</i> , 2018 , 16, 55-65	2.5	24
19	Quantification of User and Manufacturer Variabilities in Urinary Catheter Anchoring Balloon Inflation and Mitigation of Variability by Flow Resistance. <i>Urology</i> , 2017 , 102, 258-263	1.6	3
18	A Review of the Hemodynamic Factors Believed to Contribute to Vascular Access Dysfunction. <i>Cardiovascular Engineering and Technology</i> , 2017 , 8, 280-294	2.2	35
17	On the effect of computed tomography resolution to distinguish between abdominal aortic aneurysm wall tissue and calcification: A proof of concept. <i>European Journal of Radiology</i> , 2017 , 95, 370-377	4.7	2
16	Calcification Volume Reduces Stretch Capability and Predisposes Plaque to Rupture in an in Vitro Model of Carotid Artery Stenting. <i>European Journal of Vascular and Endovascular Surgery</i> , 2017 , 54, 431-438	2.3	10
15	Towards the development of an in vitro model of atherosclerotic peripheral vessels for evaluating drug-coated endovascular technologies. <i>Drug Discovery Today</i> , 2016 , 21, 1512-1520	8.8	4
14	Towards the characterisation of carotid plaque tissue toughness: Linking mechanical properties to plaque composition. <i>Acta Biomaterialia</i> , 2016 , 43, 88-100	10.8	2
13	The Variable Flow Characteristics for Different Brands of 3-Way Urinary Catheters: Proposing an Alternate and Accurate Standardised Labelling System. <i>Urology</i> , 2016 , 89, 155-9	1.6	4
12	The influence of composition and location on the toughness of human atherosclerotic femoral plaque tissue. <i>Acta Biomaterialia</i> , 2016 , 31, 264-275	10.8	9
11	On the effect of calcification volume and configuration on the mechanical behaviour of carotid plaque tissue. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2016 , 56, 45-56	4.1	21
10	Mechanical properties and composition of carotid and femoral atherosclerotic plaques: A comparative study. <i>Journal of Biomechanics</i> , 2016 , 49, 3697-3704	2.9	20
9	Characterising human atherosclerotic carotid plaque tissue composition and morphology using combined spectroscopic and imaging modalities. <i>BioMedical Engineering OnLine</i> , 2015 , 14 Suppl 1, S5	4.1	7

8	Simulation of human atherosclerotic femoral plaque tissue: the influence of plaque material model on numerical results. <i>BioMedical Engineering OnLine</i> , 2015 , 14 Suppl 1, S7	4.1	13
7	Mechanical, biological and structural characterization of human atherosclerotic femoral plaque tissue. <i>Acta Biomaterialia</i> , 2015 , 11, 295-303	10.8	25
6	Preventing Urethral Trauma from Inadvertent Inflation of Catheter Balloon in the Urethra during Catheterization: Evaluation of a Novel Safety Syringe after Correlating Trauma with Urethral Distension and Catheter Balloon Pressure. <i>Journal of Urology</i> , 2015 , 194, 1138-45	2.5	16
5	Improving smooth muscle cell exposure to drugs from drug-eluting stents at early time points: a variable compression approach. <i>Biomechanics and Modeling in Mechanobiology</i> , 2014 , 13, 771-81	3.8	1
4	Computational approaches for analyzing the mechanics of atherosclerotic plaques: a review. <i>Journal of Biomechanics</i> , 2014 , 47, 859-69	2.9	85
3	Uniaxial tensile testing approaches for characterisation of atherosclerotic plaques. <i>Journal of Biomechanics</i> , 2014 , 47, 793-804	2.9	80
2	Mechanical, biological and structural characterization of in vitro ruptured human carotid plaque tissue. <i>Acta Biomaterialia</i> , 2013 , 9, 9027-35	10.8	50
1	Development of an experimental model of the carotid bifurcation using electrically conductive silicone: an introduction to the incorporation of baroreceptor function within a mimetic model of the carotid artery. <i>International Journal of Nano and Biomaterials</i> , 2012 , 4, 164	0.2	1