

Eoghan Cunnane

List of Publications by Year in descending order

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Version: 2024-02-01

45
papers

1,075
citations

516681

16
h-index

434170

31
g-index

45
all docs

45
docs citations

45
times ranked

1360
citing authors

#	ARTICLE	IF	CITATIONS
1	Uniaxial tensile testing approaches for characterisation of atherosclerotic plaques. <i>Journal of Biomechanics</i> , 2014, 47, 793-804.	2.1	112
2	Computational approaches for analyzing the mechanics of atherosclerotic plaques: A review. <i>Journal of Biomechanics</i> , 2014, 47, 859-869.	2.1	102
3	Drug delivery across the blood-brain barrier: recent advances in the use of nanocarriers. <i>Nanomedicine</i> , 2020, 15, 205-214.	3.3	101
4	Extracellular vesicles for tissue repair and regeneration: Evidence, challenges and opportunities. <i>Advanced Drug Delivery Reviews</i> , 2021, 175, 113775.	13.7	86
5	Mechanical, biological and structural characterization of in vitro ruptured human carotid plaque tissue. <i>Acta Biomaterialia</i> , 2013, 9, 9027-9035.	8.3	64
6	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.	8.3	64
7	A Review of the Hemodynamic Factors Believed to Contribute to Vascular Access Dysfunction. <i>Cardiovascular Engineering and Technology</i> , 2017, 8, 280-294.	1.6	48
8	Future Perspectives on the Role of Stem Cells and Extracellular Vesicles in Vascular Tissue Regeneration. <i>Frontiers in Cardiovascular Medicine</i> , 2018, 5, 86.	2.4	40
9	Mechanical, biological and structural characterization of human atherosclerotic femoral plaque tissue. <i>Acta Biomaterialia</i> , 2015, 11, 295-303.	8.3	36
10	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.	1.8	33
11	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.	1.1	31
12	Mechanical properties and composition of carotid and femoral atherosclerotic plaques: A comparative study. <i>Journal of Biomechanics</i> , 2016, 49, 3697-3704.	2.1	28
13	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.	3.1	28
14	Extracellular Vesicles Enhance the Remodeling of Cell-Free Silk Vascular Scaffolds in Rat Aortae. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 26955-26965.	8.0	27
15	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.	11.4	26
16	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, 1138-1145.	0.4	21
17	Urinary Bladder vs Gastrointestinal Tissue: A Comparative Study of Their Biomechanical Properties for Urinary Tract Reconstruction. <i>Urology</i> , 2018, 113, 235-240.	1.0	17
18	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.	1.5	16

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19	Clinical Evaluation of a Safety-device to Prevent Urinary Catheter Inflation Related Injuries. <i>Urology</i> , 2018, 115, 179-183.	1.0	16
20	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.	1.4	16
21	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.	3.1	15
22	Simulation of human atherosclerotic femoral plaque tissue: the influence of plaque material model on numerical results. <i>BioMedical Engineering OnLine</i> , 2015, 14, S7.	2.7	14
23	The influence of composition and location on the toughness of human atherosclerotic femoral plaque tissue. <i>Acta Biomaterialia</i> , 2016, 31, 264-275.	8.3	12
24	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.	3.5	12
25	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.	2.1	11
26	Characterising human atherosclerotic carotid plaque tissue composition and morphology using combined spectroscopic and imaging modalities. <i>BioMedical Engineering OnLine</i> , 2015, 14, S5.	2.7	10
27	Biomaterials and Regenerative Medicine in Urology. <i>Advances in Experimental Medicine and Biology</i> , 2018, 1107, 189-198.	1.6	9
28	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.	4.1	9
29	The Role of Stem Cells for Reconstructing the Lower Urinary Tracts. <i>Current Stem Cell Research and Therapy</i> , 2018, 13, 458-465.	1.3	9
30	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.	3.1	8
31	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.	1.8	7
32	Stress Urinary Incontinence and Pelvic Organ Prolapse: Biologic Graft Materials Revisited. <i>Tissue Engineering - Part B: Reviews</i> , 2020, 26, 475-483.	4.8	7
33	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, 51.	3.5	7
34	Advancing Cell-Instructive Biomaterials Through Increased Understanding of Cell Receptor Spacing and Material Surface Functionalization. <i>Regenerative Engineering and Translational Medicine</i> , 2021, 7, 533-547.	2.9	6
35	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.	6.4	5
36	Towards the characterisation of carotid plaque tissue toughness: Linking mechanical properties to plaque composition. <i>Acta Biomaterialia</i> , 2016, 43, 88-100.	8.3	4

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37	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, 155-159.	1.0	4
38	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.	1.0	4
39	CCL2 loaded microparticles promote acute patency in silk-based vascular grafts implanted in rat aortae. <i>Acta Biomaterialia</i> , 2021, 135, 126-138.	8.3	4
40	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.	2.6	3
41	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.	0.1	1
42	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, 771-781.	2.8	1
43	Mechanical characterization of a biodegradable mesh for the treatment of stress urinary incontinence. <i>International Journal of Urology</i> , 2021, 28, 243-245.	1.0	1
44	MP94-04 MECHANICAL CHARACTERISATION AND RUPTURE PRESSURE OF HUMAN URETHRAS: A FEASIBILITY STUDY PERFORMED IN EXPLANTED TISSUE FROM PATIENTS UNDERGOING GENDER REASSIGNMENT SURGERY. <i>Journal of Urology</i> , 2017, 197, .	0.4	0
45	PD60-08 INVESTIGATION OF TRAUMATIC URETHRAL CATHETERIZATION AND EVALUATION OF A NOVEL SAFETY SYRINGE AFTER CORRELATING TRAUMA WITH URETHRAL DISTENSION AND CATHETER BALLOON PRESSURE: A PROSPECTIVE MULTI-INSTITUTIONAL STUDY.. <i>Journal of Urology</i> , 2017, 197, .	0.4	0