Eoghan Cunnane

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/286913/publications.pdf Version: 2024-02-01



#	Article	IF	CITATIONS
1	Uniaxial tensile testing approaches for characterisation of atherosclerotic plaques. Journal of Biomechanics, 2014, 47, 793-804.	2.1	112
2	Computational approaches for analyzing the mechanics of atherosclerotic plaques: A review. Journal of Biomechanics, 2014, 47, 859-869.	2.1	102
3	Drug delivery across the blood–brain barrier: recent advances in the use of nanocarriers. Nanomedicine, 2020, 15, 205-214.	3.3	101
4	Extracellular vesicles for tissue repair and regeneration: Evidence, challenges and opportunities. Advanced Drug Delivery Reviews, 2021, 175, 113775.	13.7	86
5	Mechanical, biological and structural characterization of in vitro ruptured human carotid plaque tissue. Acta Biomaterialia, 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. Acta Biomaterialia, 2020, 105, 146-158.	8.3	64
7	A Review of the Hemodynamic Factors Believed to Contribute to Vascular Access Dysfunction. Cardiovascular Engineering and Technology, 2017, 8, 280-294.	1.6	48
8	Future Perspectives on the Role of Stem Cells and Extracellular Vesicles in Vascular Tissue Regeneration. Frontiers in Cardiovascular Medicine, 2018, 5, 86.	2.4	40
9	Mechanical, biological and structural characterization of human atherosclerotic femoral plaque tissue. Acta Biomaterialia, 2015, 11, 295-303.	8.3	36
10	Tissue engineered extracellular matrices (ECMs) in urology: Evolution and future directions. Journal of the Royal College of Surgeons of Edinburgh, 2018, 16, 55-65.	1.8	33
11	On the influence of wall calcification and intraluminal thrombus on prediction of abdominal aortic aneurysm rupture. Journal of Vascular Surgery, 2018, 67, 1234-1246.e2.	1.1	31
12	Mechanical properties and composition of carotid and femoral atherosclerotic plaques: A comparative study. Journal of Biomechanics, 2016, 49, 3697-3704.	2.1	28
13	On the effect of calcification volume and configuration on the mechanical behaviour of carotid plaque tissue. Journal of the Mechanical Behavior of Biomedical Materials, 2016, 56, 45-56.	3.1	28
14	Extracellular Vesicles Enhance the Remodeling of Cell-Free Silk Vascular Scaffolds in Rat Aortae. ACS Applied Materials & Interfaces, 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. Biomaterials, 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. Journal of Urology, 2015, 194, 1138-1145.	0.4	21
17	Urinary Bladder vs Gastrointestinal Tissue: A Comparative Study of Their Biomechanical Properties for Urinary Tract Reconstruction. Urology, 2018, 113, 235-240.	1.0	17
18	Calcification Volume Reduces Stretch Capability and Predisposes Plaque to Rupture in an inÂvitro Model of Carotid Artery Stenting. European Journal of Vascular and Endovascular Surgery, 2017, 54, 431-438.	1.5	16

EOGHAN CUNNANE

#	Article	IF	CITATIONS
19	Clinical Evaluation of a Safety-device to Prevent Urinary Catheter Inflation Related Injuries. Urology, 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. International Urogynecology Journal, 2021, 32, 573-580.	1.4	16
21	Characterisation of human urethral rupture thresholds for urinary catheter inflation related injuries. Journal of the Mechanical Behavior of Biomedical Materials, 2018, 83, 102-107.	3.1	15
22	Simulation of human atherosclerotic femoral plaque tissue: the influence of plaque material model on numerical results. BioMedical Engineering OnLine, 2015, 14, S7.	2.7	14
23	The influence of composition and location on the toughness of human atherosclerotic femoral plaque tissue. Acta Biomaterialia, 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. Matrix Biology Plus, 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. International Journal for Numerical Methods in Biomedical Engineering, 2019, 35, e3259.	2.1	11
26	Characterising human atherosclerotic carotid plaque tissue composition and morphology using combined spectroscopic and imaging modalities. BioMedical Engineering OnLine, 2015, 14, S5.	2.7	10
27	Biomaterials and Regenerative Medicine in Urology. Advances in Experimental Medicine and Biology, 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. Frontiers in Bioengineering and Biotechnology, 2020, 8, 597847.	4.1	9
29	The Role of Stem Cells for Reconstructing the Lower Urinary Tracts. Current Stem Cell Research and Therapy, 2018, 13, 458-465.	1.3	9
30	Cryopreservation of porcine urethral tissue: Storage at â^20°C preserves the mechanical, failure and geometrical properties. Journal of the Mechanical Behavior of Biomedical Materials, 2021, 119, 104516.	3.1	8
31	Mechanical characterisation of porcine non-intestinal colorectal tissues for innovation in surgical instrument design. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2018, 232, 796-806.	1.8	7
32	Stress Urinary Incontinence and Pelvic Organ Prolapse: Biologic Graft Materials Revisited. Tissue Engineering - Part B: Reviews, 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. Bioengineering, 2021, 8, 51.	3.5	7
34	Advancing Cell-Instructive Biomaterials Through Increased Understanding of Cell Receptor Spacing and Material Surface Functionalization. Regenerative Engineering and Translational Medicine, 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. Drug Discovery Today, 2016, 21, 1512-1520.	6.4	5
36	Towards the characterisation of carotid plaque tissue toughness: Linking mechanical properties to plaque composition. Acta Biomaterialia, 2016, 43, 88-100.	8.3	4

EOGHAN CUNNANE

#	Article	IF	CITATION
37	The Variable Flow Characteristics for Different Brands of 3-Way Urinary Catheters: Proposing an Alternate and Accurate Standardised Labelling System. Urology, 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. Urology, 2017, 102, 258-263.	1.0	4
39	CCL2 loaded microparticles promote acute patency in silk-based vascular grafts implanted in rat aortae. Acta Biomaterialia, 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. European Journal of Radiology, 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. International Journal of Nano and Biomaterials, 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. Biomechanics and Modeling in Mechanobiology, 2014, 13, 771-781.	2.8	1
43	Mechanical characterization of a biodegradable mesh for the treatment of stress urinary incontinence. International Journal of Urology, 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. Journal of Urology, 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 Journal of Urology, 2017, 197, .	0.4	0