

John Je Mulvihill

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.

35
papers

670
citations

14
h-index

25
g-index

38
ext. papers

867
ext. citations

5
avg, IF

4.08
L-index

#	Paper	IF	Citations
35	Computational approaches for analyzing the mechanics of atherosclerotic plaques: a review. <i>Journal of Biomechanics</i> , 2014 , 47, 859-69	2.9	85
34	Uniaxial tensile testing approaches for characterisation of atherosclerotic plaques. <i>Journal of Biomechanics</i> , 2014 , 47, 793-804	2.9	80
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	Determining the influence of calcification on the failure properties of abdominal aortic aneurysm (AAA) tissue. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2015 , 42, 154-67	4.1	50
31	Mechanical, biological and structural characterization of in vitro ruptured human carotid plaque tissue. <i>Acta Biomaterialia</i> , 2013 , 9, 9027-35	10.8	50
30	Effects of Peripapillary Scleral Stiffening on the Deformation of the Lamina Cribrosa 2016 , 57, 2666-77		46
29	Deformation of the Lamina Cribrosa and Optic Nerve Due to Changes in Cerebrospinal Fluid Pressure 2017 , 58, 2070-2078		43
28	Reduced plaque size and inflammation in the APP23 mouse model for Alzheimers disease after chronic application of polymeric nanoparticles for CNS targeted zinc delivery. <i>Journal of Trace Elements in Medicine and Biology</i> , 2018 , 49, 210-221	4.1	33
27	On the mechanical behaviour of carotid artery plaques: the influence of curve-fitting experimental data on numerical model results. <i>Biomechanics and Modeling in Mechanobiology</i> , 2013 , 12, 975-85	3.8	27
26	Mechanical, biological and structural characterization of human atherosclerotic femoral plaque tissue. <i>Acta Biomaterialia</i> , 2015 , 11, 295-303	10.8	25
25	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
24	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
23	Zinc Binding to S100B Affords Regulation of Trace Metal Homeostasis and Excitotoxicity in the Brain. <i>Frontiers in Molecular Neuroscience</i> , 2017 , 10, 456	6.1	19
22	Regional mechanical and biochemical properties of the porcine cortical meninges. <i>Acta Biomaterialia</i> , 2018 , 80, 237-246	10.8	15
21	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
20	Simulation of biopsy bevel-tipped needle insertion into soft-gel. <i>Computers in Biology and Medicine</i> , 2019 , 111, 103337	7	11
19	Standardization of research methods employed in assessing the interaction between metallic-based nanoparticles and the blood-brain barrier: Present and future perspectives. <i>Journal of Controlled Release</i> , 2019 , 296, 202-224	11.7	10

18	Development of a Platform for Studying 3D Astrocyte Mechanobiology: Compression of Astrocytes in Collagen Gels. <i>Annals of Biomedical Engineering</i> , 2018 , 46, 365-374	4.7	9
17	Urinary Bladder vs Gastrointestinal Tissue: A Comparative Study of Their Biomechanical Properties for Urinary Tract Reconstruction. <i>Urology</i> , 2018 , 113, 235-240	1.6	9
16	A modified gelatin zymography technique incorporating total protein normalization. <i>Analytical Biochemistry</i> , 2017 , 521, 8-10	3.1	8
15	Bevel angle study of flexible hollow needle insertion into biological mimetic soft-gel: Simulation and experimental validation. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2020 , 111, 103896	4.1	8
14	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
13	Digital and Mechanical Characterization of Ureteral Stent Luminal Reduction in Response to Extrinsic Compression Forces. <i>Journal of Endourology</i> , 2018 , 32, 1148-1153	2.7	6
12	Comparing nanoparticles for drug delivery: The effect of physiological dispersion media on nanoparticle properties. <i>Materials Science and Engineering C</i> , 2020 , 113, 110985	8.3	5
11	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
10	Mechanical characterisation of the human dura mater, falx cerebri and superior sagittal sinus. <i>Acta Biomaterialia</i> , 2021 , 134, 388-400	10.8	4
9	On the association between circulating biomarkers and atherosclerotic calcification in a cohort of arterial disease participants. <i>Nutrition, Metabolism and Cardiovascular Diseases</i> , 2021 , 31, 1533-1541	4.5	3
8	Mechanical Properties of the Cranial Meninges: A Systematic Review. <i>Journal of Neurotrauma</i> , 2021 , 38, 1748-1761	5.4	2
7	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
6	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
5	Biomedical Applications of Nanoalloys 2020 , 381-432		0
4	A computational multilayer model to simulate hollow needle insertion into biological porcine liver tissue. <i>Acta Biomaterialia</i> , 2021 , 136, 389-401	10.8	0
3	A blood biomarker and clinical correlation cohort study protocol to diagnose sports-related concussion and monitor recovery in elite rugby. <i>BMJ Open Sport and Exercise Medicine</i> , 2020 , 6, e000948 ³⁻⁴		0
2	Metallic-based nanocarriers: methods employed in nanoparticle characterization and assessing the interaction with the blood-brain barrier 2020 , 255-282		
1	The effect of serum starvation on tight junctional proteins and barrier formation in Caco-2 cells. <i>Biochemistry and Biophysics Reports</i> , 2021 , 27, 101096	2.2	

