

# John Je Mulvihill

## List of Publications by Year in descending order

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Version: 2024-02-01

38  
papers

1,037  
citations

566801

15  
h-index

476904

29  
g-index

38  
all docs

38  
docs citations

38  
times ranked

1359  
citing authors

#	ARTICLE	IF	CITATIONS
1	Uniaxial tensile testing approaches for characterisation of atherosclerotic plaques. <i>Journal of Biomechanics</i> , 2014, 47, 793-804.	0.9	112
2	Computational approaches for analyzing the mechanics of atherosclerotic plaques: A review. <i>Journal of Biomechanics</i> , 2014, 47, 859-869.	0.9	102
3	Drug delivery across the blood-brain barrier: recent advances in the use of nanocarriers. <i>Nanomedicine</i> , 2020, 15, 205-214.	1.7	101
4	Effects of Peripapillary Scleral Stiffening on the Deformation of the Lamina Cribrosa. , 2016, 57, 2666.		68
5	Mechanical, biological and structural characterization of in vitro ruptured human carotid plaque tissue. <i>Acta Biomaterialia</i> , 2013, 9, 9027-9035.	4.1	64
6	Reduced plaque size and inflammation in the APP23 mouse model for Alzheimer's 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.	1.5	64
7	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, 154-167.	1.5	61
8	Deformation of the Lamina Cribrosa and Optic Nerve Due to Changes in Cerebrospinal Fluid Pressure. , 2017, 58, 2070.		57
9	Mechanical, biological and structural characterization of human atherosclerotic femoral plaque tissue. <i>Acta Biomaterialia</i> , 2015, 11, 295-303.	4.1	36
10	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, 975-985.	1.4	33
11	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.	0.8	33
12	Regional mechanical and biochemical properties of the porcine cortical meninges. <i>Acta Biomaterialia</i> , 2018, 80, 237-246.	4.1	31
13	Zinc Binding to S100B Affords Regulation of Trace Metal Homeostasis and Excitotoxicity in the Brain. <i>Frontiers in Molecular Neuroscience</i> , 2017, 10, 456.	1.4	29
14	Mechanical properties and composition of carotid and femoral atherosclerotic plaques: A comparative study. <i>Journal of Biomechanics</i> , 2016, 49, 3697-3704.	0.9	28
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.	1.5	22
16	Simulation of biopsy bevel-tipped needle insertion into soft-gel. <i>Computers in Biology and Medicine</i> , 2019, 111, 103337.	3.9	21
17	Mechanical characterisation of the human dura mater, falx cerebri and superior sagittal sinus. <i>Acta Biomaterialia</i> , 2021, 134, 388-400.	4.1	20
18	Urinary Bladder vs Gastrointestinal Tissue: A Comparative Study of Their Biomechanical Properties for Urinary Tract Reconstruction. <i>Urology</i> , 2018, 113, 235-240.	0.5	17

#	ARTICLE	IF	CITATIONS
19	Mechanical Properties of the Cranial Meninges: A Systematic Review. <i>Journal of Neurotrauma</i> , 2021, 38, 1748-1761.	1.7	15
20	Simulation of human atherosclerotic femoral plaque tissue: the influence of plaque material model on numerical results. <i>BioMedical Engineering OnLine</i> , 2015, 14, S7.	1.3	14
21	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.	1.3	14
22	A modified gelatin zymography technique incorporating total protein normalization. <i>Analytical Biochemistry</i> , 2017, 521, 8-10.	1.1	13
23	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.	4.8	12
24	Characterising human atherosclerotic carotid plaque tissue composition and morphology using combined spectroscopic and imaging modalities. <i>BioMedical Engineering OnLine</i> , 2015, 14, S5.	1.3	10
25	A computational multilayer model to simulate hollow needle insertion into biological porcine liver tissue. <i>Acta Biomaterialia</i> , 2021, 136, 389-401.	4.1	10
26	Comparing nanoparticles for drug delivery: The effect of physiological dispersion media on nanoparticle properties. <i>Materials Science and Engineering C</i> , 2020, 113, 110985.	3.8	9
27	The Role of Stem Cells for Reconstructing the Lower Urinary Tracts. <i>Current Stem Cell Research and Therapy</i> , 2018, 13, 458-465.	0.6	9
28	Cryopreservation of porcine urethral tissue: Storage at $\sim 20^{\circ}\text{C}$ preserves the mechanical, failure and geometrical properties. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2021, 119, 104516.	1.5	8
29	Digital and Mechanical Characterization of Ureteral Stent Luminal Reduction in Response to Extrinsic Compression Forces. <i>Journal of Endourology</i> , 2018, 32, 1148-1153.	1.1	7
30	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.	1.1	6
31	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.	0.7	5
32	Biomedical Applications of Nanoalloys. , 2020, , 381-432.		3
33	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.	1.4	2
34	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
35	An Investigation on the Use of Silicone to Model Arterial Tissue Behaviour in the Idealised Tuning-Fork Model of the Carotid Bifurcation. , 2011, , .		0
36	Experimental Determination of the Mechanical and Biological Properties of Carotid Artery Plaques. , 2013, , .		0

#	ARTICLE	IF	CITATIONS
37	Metallic-based nanocarriers: methods employed in nanoparticle characterization and assessing the interaction with the blood-brain barrier. , 2020, , 255-282.		0
38	On the use of circulating desphospho-uncarboxylated matrix gla-protein to determine symptomatic atherosclerotic calcification phenotype. Proceedings of the Nutrition Society, 2020, 79, .	0.4	0