

Tarek Shazly

List of Publications by Year in descending order

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Version: 2024-02-01

27
papers

395
citations

687363

13
h-index

794594

19
g-index

27
all docs

27
docs citations

27
times ranked

455
citing authors

#	ARTICLE	IF	CITATIONS
1	A mechanical argument for the differential performance of coronary artery grafts. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2016, 54, 93-105.	3.1	37
2	On the Uniaxial Ring Test of Tissue Engineered Constructs. <i>Experimental Mechanics</i> , 2015, 55, 41-51.	2.0	33
3	Regional and temporal changes in left ventricular strain and stiffness in a porcine model of myocardial infarction. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2018, 315, H958-H967.	3.2	32
4	The biaxial active mechanical properties of the porcine primary renal artery. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2015, 48, 28-37.	3.1	30
5	Mechanical and geometrical determinants of wall stress in abdominal aortic aneurysms: A computational study. <i>PLoS ONE</i> , 2018, 13, e0192032.	2.5	25
6	Comparative mechanics of diverse mammalian carotid arteries. <i>PLoS ONE</i> , 2018, 13, e0202123.	2.5	23
7	Geometric determinants of local hemodynamics in severe carotid artery stenosis. <i>Computers in Biology and Medicine</i> , 2019, 114, 103436.	7.0	23
8	Assessment of Material By-Product Fate from Bioresorbable Vascular Scaffolds. <i>Annals of Biomedical Engineering</i> , 2012, 40, 955-965.	2.5	19
9	Constitutive modeling of compressible type-I collagen hydrogels. <i>Medical Engineering and Physics</i> , 2018, 53, 39-48.	1.7	18
10	A structure-based constitutive model of arterial tissue considering individual natural configurations of elastin and collagen. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2019, 90, 61-72.	3.1	17
11	Enhancing physiologic simulations using supervised learning on coarse mesh solutions. <i>Journal of the Royal Society Interface</i> , 2015, 12, 20141073.	3.4	16
12	Experimental and numerical studies of two arterial wall delamination modes. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2018, 77, 321-330.	3.1	16
13	A STRUCTURE-MOTIVATED MODEL OF THE PASSIVE MECHANICAL RESPONSE OF THE PRIMARY PORCINE RENAL ARTERY. <i>Journal of Mechanics in Medicine and Biology</i> , 2014, 14, 1450033.	0.7	13
14	Contractile Smooth Muscle and Active Stress Generation in Porcine Common Carotids. <i>Journal of Biomechanical Engineering</i> , 2018, 140, .	1.3	13
15	Intrinsic coating morphology modulates acute drug transfer in drug-coated balloon therapy. <i>Scientific Reports</i> , 2019, 9, 6839.	3.3	13
16	Effect of Spinal Cord Compression on Local Vascular Blood Flow and Perfusion Capacity. <i>PLoS ONE</i> , 2014, 9, e108820.	2.5	12
17	The perivascular environment along the vertebral artery governs segment-specific structural and mechanical properties. <i>Acta Biomaterialia</i> , 2016, 45, 286-295.	8.3	11
18	Degree of bioresorbable vascular scaffold expansion modulates loss of essential function. <i>Acta Biomaterialia</i> , 2015, 26, 195-204.	8.3	10

#	ARTICLE	IF	CITATIONS
19	Changes in Myocardial Microstructure and Mechanics With Progressive Left Ventricular Pressure Overload. JACC Basic To Translational Science, 2020, 5, 463-480.	4.1	9
20	Using Digital Image Correlation to Characterize Local Strains on Vascular Tissue Specimens. Journal of Visualized Experiments, 2016, , e53625.	0.3	7
21	Evaluation of the Stress-Growth Hypothesis in Saphenous Vein Perfusion Culture. Annals of Biomedical Engineering, 2021, 49, 487-501.	2.5	6
22	Perfusion Tissue Culture Initiates Differential Remodeling of Internal Thoracic Arteries, Radial Arteries, and Saphenous Veins. Journal of Vascular Research, 2018, 55, 255-267.	1.4	5
23	Determination of Viscoelastic Properties of human Carotid Atherosclerotic Plaque by Inverse Boundary Value Analysis. IOP Conference Series: Materials Science and Engineering, 2018, 381, 012171.	0.6	2
24	A Two-Dimensional Model of Hypertension-Induced Arterial Remodeling With Account for Stress Interaction Between Elastin and Collagen. Journal of Biomechanical Engineering, 2020, 142, .	1.3	2
25	Mechanoscopy: A Novel Device and Procedure for <i>in vivo</i> Detection of Chronic Colitis in Mice. Inflammatory Bowel Diseases, 2022, 28, 1143-1150.	1.9	2
26	Speckle-Tracking Echocardiography Enables Model-Based Identification of Regional Stiffness Indices in the Left Ventricular Myocardium. Cardiovascular Engineering and Technology, 2020, 11, 176-187.	1.6	1
27	Self-Assembling Toroidal Cell Constructs for Tissue Engineering Applications. Microscopy and Microanalysis, 2022, , 1-10.	0.4	0