

Pablo Saez Viñas

List of Publications by Year in descending order

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Version: 2024-02-01

21
papers

336
citations

1039880

9
h-index

839398

18
g-index

22
all docs

22
docs citations

22
times ranked

382
citing authors

#	ARTICLE	IF	CITATIONS
1	Topological features dictate the mechanics of the mammalian brains. <i>International Journal of Mechanical Sciences</i> , 2020, 187, 105914.	3.6	4
2	A complementary energy approach accommodates scale differences in soft tissues. <i>Journal of the Mechanics and Physics of Solids</i> , 2020, 138, 103895.	2.3	5
3	Mechanical and Microstructural Behavior of Vascular Tissue. , 2019, , 63-78.		0
4	Mechanotransmission of haemodynamic forces by the endothelial glycocalyx in a full-scale arterial model. <i>Royal Society Open Science</i> , 2019, 6, 190607.	1.1	3
5	Computational modeling of epithelial wound healing: Short and long term chemo-mechanical mechanisms. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2019, 350, 28-56.	3.4	10
6	Fully coupled numerical model of actin treadmilling in the lamellipodium of the cell. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2018, 34, e3143.	1.0	3
7	Mechanics Reveals the Biological Trigger in Wrinkly Fingers. <i>Annals of Biomedical Engineering</i> , 2017, 45, 1039-1047.	1.3	15
8	Bulging Brains. <i>Journal of Elasticity</i> , 2017, 129, 197-212.	0.9	24
9	On the Theories and Numerics of Continuum Models for Adaptation Processes in Biological Tissues. <i>Archives of Computational Methods in Engineering</i> , 2016, 23, 301-322.	6.0	8
10	Microstructural quantification of collagen fiber orientations and its integration in constitutive modeling of the porcine carotid artery. <i>Acta Biomaterialia</i> , 2016, 33, 183-193.	4.1	40
11	Towards the modelling of ageing and atherosclerosis effects in ApoE-/- mice aortic tissue. <i>Journal of Biomechanics</i> , 2016, 49, 2390-2397.	0.9	3
12	Computational modeling of acute myocardial infarction. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2016, 19, 1107-1115.	0.9	24
13	Computational model of collagen turnover in carotid arteries during hypertension. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2015, 31, e02705.	1.0	7
14	A theoretical model of the endothelial cell morphology due to different waveforms. <i>Journal of Theoretical Biology</i> , 2015, 379, 16-23.	0.8	8
15	Computational modeling of hypertensive growth in the human carotid artery. <i>Computational Mechanics</i> , 2014, 53, 1183-1196.	2.2	41
16	A Structural Approach Including the Behavior of Collagen Cross-Links to Model Patient-Specific Human Carotid Arteries. <i>Annals of Biomedical Engineering</i> , 2014, 42, 1158-1169.	1.3	22
17	Mathematical modeling of collagen turnover in biological tissue. <i>Journal of Mathematical Biology</i> , 2013, 67, 1765-1793.	0.8	24
18	Hierarchical micro-adaptation of biological structures by mechanical stimuli. <i>International Journal of Solids and Structures</i> , 2013, 50, 2353-2370.	1.3	6

#	ARTICLE	IF	CITATIONS
19	Anisotropic microsphere-based approach to damage in soft fibered tissue. Biomechanics and Modeling in Mechanobiology, 2012, 11, 595-608.	1.4	37
20	An Anisotropic Microsphere-Based Approach for Fiber Orientation Adaptation in Soft Tissue. IEEE Transactions on Biomedical Engineering, 2011, 58, 3500-3503.	2.5	4
21	On the use of the Bingham statistical distribution in microsphere-based constitutive models for arterial tissue. Mechanics Research Communications, 2010, 37, 700-706.	1.0	48