

Myriam Cilla Hernandez

List of Publications by Year in Descending Order

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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.

27
papers

381
citations

10
h-index

19
g-index

27
ext. papers

458
ext. citations

4.2
avg, IF

3.45
L-index

#	Paper	IF	Citations
27	Biomechanical characterization and constitutive modeling of the layer-dissected residual strains and mechanical properties of abdominal porcine aorta.. <i>Journal of Biomechanics</i> , 2022 , 132, 110909	2.9	
26	Effects of the Haemodynamic Stimulus on the Location of Carotid Plaques Based on a Patient-Specific Mechanobiological Plaque Atheroma Formation Model. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021 , 9, 690685	5.8	1
25	Emergent biomechanical factors predicting vulnerable coronary atherosclerotic plaque rupture 2021 , 361-380		1
24	Methodology to Calibrate the Dissection Properties of Aorta Layers from Two Sets of Experimental Measurements. <i>Mathematics</i> , 2021 , 9, 1593	2.3	0
23	Atheromatous plaque initiation and growth: a multiphysical process explored by an <i>in silico</i> mass transport model 2021 , 335-360		
22	A parametric model for studying the aorta hemodynamics by means of the computational fluid dynamics. <i>Journal of Biomechanics</i> , 2020 , 103, 109691	2.9	3
21	Artificial intelligence to predict atheroma plaque vulnerability 2020 , 279-312		
20	Analysis of the accuracy on computing nominal stress in a biaxial test for arteries. <i>Strain</i> , 2020 , 56, e123317		2
19	Mechanical and Microstructural Behavior of Vascular Tissue 2019 , 63-78		
18	Impact of the Fluid-Structure Interaction Modeling on the Human Vessel Hemodynamics 2019 , 79-93		0
17	Introduction of User Experience into the Design of Academic Services at University Centre of Defence. <i>Advances in Intelligent Systems and Computing</i> , 2019 , 61-67	0.4	
16	deficiency leads to reduced mechanical strains at the tibia midshaft in strain-matched loading experiments in mice. <i>Journal of the Royal Society Interface</i> , 2018 , 15,	4.1	7
15	On the use of machine learning techniques for the mechanical characterization of soft biological tissues. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2018 , 34, e3121	2.6	12
14	Strain shielding inspired re-design of proximal femoral stems for total hip arthroplasty. <i>Journal of Orthopaedic Research</i> , 2017 , 35, 2534-2544	3.8	23
13	Machine learning techniques for the optimization of joint replacements: Application to a short-stem hip implant. <i>PLoS ONE</i> , 2017 , 12, e0183755	3.7	23
12	Femoral head necrosis: A finite element analysis of common and novel surgical techniques. <i>Clinical Biomechanics</i> , 2017 , 48, 49-56	2.2	9
11	Towards the modelling of ageing and atherosclerosis effects in ApoE(-/-) mice aortic tissue. <i>Journal of Biomechanics</i> , 2016 , 49, 2390-7	2.9	2

10	Effect of Diet and Age on Arterial Stiffening Due to Atherosclerosis in ApoE(-/-) Mice. <i>Annals of Biomedical Engineering</i> , 2016 , 44, 2202-17	4.7	9
9	A parametric model for analysing atherosclerotic arteries: On the FSI coupling. <i>International Communications in Heat and Mass Transfer</i> , 2015 , 67, 29-38	5.8	13
8	Effect of Transmural Transport Properties on Atheroma Plaque Formation and Development. <i>Annals of Biomedical Engineering</i> , 2015 , 43, 1516-30	4.7	7
7	Epicardial delivery of collagen patches with adipose-derived stem cells in rat and minipig models of chronic myocardial infarction. <i>Biomaterials</i> , 2014 , 35, 143-51	15.6	68
6	Mathematical modelling of atheroma plaque formation and development in coronary arteries. <i>Journal of the Royal Society Interface</i> , 2014 , 11, 20130866	4.1	68
5	Preparation and characterization of collagen-based ADSC-carrier sheets for cardiovascular application. <i>Acta Biomaterialia</i> , 2013 , 9, 6075-83	10.8	34
4	Does microcalcification increase the risk of rupture?. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2013 , 227, 588-99	1.7	9
3	Comparison of the vulnerability risk for positive versus negative atheroma plaque morphology. <i>Journal of Biomechanics</i> , 2013 , 46, 1248-54	2.9	19
2	Machine learning techniques as a helpful tool toward determination of plaque vulnerability. <i>IEEE Transactions on Biomedical Engineering</i> , 2012 , 59, 1155-61	5	21
1	3D computational parametric analysis of eccentric atheroma plaque: influence of axial and circumferential residual stresses. <i>Biomechanics and Modeling in Mechanobiology</i> , 2012 , 11, 1001-13	3.8	50