Myriam Cilla Herndez

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.

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	Epicardial delivery of collagen patches with adipose-derived stem cells in rat and minipig models of chronic myocardial infarction. *Biomaterials*, **2014**, 35, 143-51	15.6	68
26	Mathematical modelling of atheroma plaque formation and development in coronary arteries. *Journal of the Royal Society Interface*, **2014**, 11, 20130866	4.1	68
25	3D computational parametric analysis of eccentric atheroma plaque: influence of axial and circumferential residual stresses. *Biomechanics and Modeling in Mechanobiology*, **2012**, 11, 1001-13	3.8	50
24	Preparation and characterization of collagen-based ADSC-carrier sheets for cardiovascular application. *Acta Biomaterialia*, **2013**, 9, 6075-83	10.8	34
23	Strain shielding inspired re-design of proximal femoral stems for total hip arthroplasty. *Journal of Orthopaedic Research*, **2017**, 35, 2534-2544	3.8	23
22	Machine learning techniques for the optimization of joint replacements: Application to a short-stem hip implant. *PLoS ONE*, **2017**, 12, e0183755	3.7	23
21	Machine learning techniques as a helpful tool toward determination of plaque vulnerability. *IEEE Transactions on Biomedical Engineering*, **2012**, 59, 1155-61	5	21
20	Comparison of the vulnerability risk for positive versus negative atheroma plaque morphology. *Journal of Biomechanics*, **2013**, 46, 1248-54	2.9	19
19	A parametric model for analysing atherosclerotic arteries: On the FSI coupling. *International Communications in Heat and Mass Transfer*, **2015**, 67, 29-38	5.8	13
18	On the use of machine learning techniques for the mechanical characterization of soft biological tissues. *International Journal for Numerical Methods in Biomedical Engineering*, **2018**, 34, e3121	2.6	12
17	Effect of Diet and Age on Arterial Stiffening Due to Atherosclerosis in ApoE(-/-) Mice. *Annals of Biomedical Engineering*, **2016**, 44, 2202-17	4.7	9
16	Does microcalcification increase the risk of rupture?. *Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine*, **2013**, 227, 588-99	1.7	9
15	Femoral head necrosis: A finite element analysis of common and novel surgical techniques. *Clinical Biomechanics*, **2017**, 48, 49-56	2.2	9
14	Effect of Transmural Transport Properties on Atheroma Plaque Formation and Development. *Annals of Biomedical Engineering*, **2015**, 43, 1516-30	4.7	7
13	deficiency leads to reduced mechanical strains at the tibia midshaft in strain-matched loading experiments in mice. *Journal of the Royal Society Interface*, **2018**, 15,	4.1	7
12	A parametric model for studying the aorta hemodynamics by means of the computational fluid dynamics. *Journal of Biomechanics*, **2020**, 103, 109691	2.9	3
11	Towards the modelling of ageing and atherosclerosis effects in ApoE(-/-) mice aortic tissue. *Journal of Biomechanics*, **2016**, 49, 2390-7	2.9	2

10	Analysis of the accuracy on computing nominal stress in a biaxial test for arteries. *Strain*, **2020**, 56, e12331	1.7	2
9	Effects of the Haemodynamic Stimulus on the Location of Carotid Plaques Based on a Patient-Specific Mechanobiological Plaque Atheroma Formation Model. *Frontiers in Bioengineering and Biotechnology*, **2021**, 9, 690685	5.8	1
8	Emergent biomechanical factors predicting vulnerable coronary atherosclerotic plaque rupture **2021**, 361-380		1
7	Impact of the Fluid-Structure Interaction Modeling on the Human Vessel Hemodynamics **2019**, 79-93		0
6	Methodology to Calibrate the Dissection Properties of Aorta Layers from Two Sets of Experimental Measurements. *Mathematics*, **2021**, 9, 1593	2.3	0
5	Artificial intelligence to predict atheroma plaque vulnerability **2020**, 279-312		
4	Mechanical and Microstructural Behavior of Vascular Tissue **2019**, 63-78		
3	Biomechanical characterization and constitutive modeling of the layer-dissected residual strains and mechanical properties of abdominal porcine aorta.. *Journal of Biomechanics*, **2022**, 132, 110909	2.9	
2	Introduction of User Experience into the Design of Academic Services at University Centre of Defence. *Advances in Intelligent Systems and Computing*, **2019**, 61-67	0.4	
1	Atheromatous plaque initiation and growth: a multiphysical process explored by an in silico mass transport model **2021**, 335-360		