Alberto Garcia Gonzalez

List of Publications by Year
in descending order

21	587	687363 13	794594 19
papers	citations	h-index	g-index

22	22	22	858
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Adaptive surrogates of crashworthiness models for multi-purpose engineering analyses accounting for uncertainty. Finite Elements in Analysis and Design, 2022, 203, 103694.	3.2	1
2	Nonintrusive uncertainty quantification for automotive crash problems with VPS/Pamcrash. Finite Elements in Analysis and Design, 2021, 193, 103556.	3.2	8
3	A Data-Driven Learning Method for Constitutive Modeling: Application to Vascular Hyperelastic Soft Tissues. Materials, 2020, 13, 2319.	2.9	10
4	On the Modeling of Patient-Specific Transcatheter Aortic Valve Replacement: A Fluidâ€“Structure Interaction Approach. Cardiovascular Engineering and Technology, 2019, 10, 437-455.	1.6	61
5	Mechanical and Microstructural Behavior of Vascular Tissue. , 2019, , 63-78.		0
6	Explicit parametric solutions of lattice structures with proper generalized decomposition (PGD). Computational Mechanics, 2018, 62, 871-891.	4.0	16
7	The Effect of Cell Morphology on the Permeability of the Nuclear Envelope to Diffusive Factors. Frontiers in Physiology, 2018, 9, 925.	2.8	20
8	Algebraic PGD for tensor separation and compression: An algorithmic approach. Comptes Rendus - Mecanique, 2018, 346, 501-514.	2.1	17
9	Arterial Wall Stiffness and Atherogenesis in Human Coronaries. , 2017, , 193-213.		3
10	Modeling of the mechano-chemical behaviour of the nuclear pore complex: current research and perspectives. Integrative Biology (United Kingdom), 2016, 8, 1011-1021.	1.3	12
11	Microstructural quantification of collagen fiber orientations and its integration in constitutive modeling of the porcine carotid artery. Acta Biomaterialia, 2016, 33, 183-193.	8.3	40
12	Impedance-based outflow boundary conditions for human carotid haemodynamics. Computer Methods in Biomechanics and Biomedical Engineering, 2014, 17, 1248-1260.	1.6	35
13	Determination and Modeling of the Inelasticity Over the Length of the Porcine Carotid Artery. Journal of Biomechanical Engineering, 2013, 135, 31004.	1.3	12
14	Viscoelastic properties of the passive mechanical behavior of the porcine carotid artery: Influence of proximal and distal positions. Biorheology, 2012, 49, 271-288.	0.4	24
15	Unsteady blood flow and mass transfer of a human left coronary artery bifurcation: FSI vs. CFD. International Communications in Heat and Mass Transfer, 2012, 39, 745-751.	5.6	81
16	Evaluation of migration forces of a retrievable filter: Experimental setup and finite element study. Medical Engineering and Physics, 2012, 34, 1167-1176.	1.7	6
17	Influence of geometrical parameters on radial force during self-expanding stent deployment. Application for a variable radial stiffness stent. Journal of the Mechanical Behavior of Biomedical Materials, 2012, 10, 166-175.	3.1	71
18	Is arterial wall-strain stiffening an additional process responsible for atherosclerosis in coronary bifurcations?: an in vivo study based on dynamic CT and MRI. American Journal of Physiology - Heart and Circulatory Physiology, 2011, 301, H1097-H1106.	3.2	42

#	Article	IF	Citations
19	Experimental study and constitutive modelling of the passive mechanical properties of the porcine carotid artery and its relation to histological analysis: Implications in animal cardiovascular device trials. Medical Engineering and Physics, 2011, 33, 665-676.	1.7	46
20	Numerical framework for patientâ€specific computational modelling of vascular tissue. International Journal for Numerical Methods in Biomedical Engineering, 2010, 26, 35-51.	2.1	42
21	Finite-element simulation of flexor digitorum longus or flexor digitorum brevis tendon transfer for the treatment of claw toe deformity. Journal of Biomechanics, 2009, 42, 1697-1704.	2.1	40