

Alberto Garcia Gonzalez

List of Publications by Year in descending order

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Version: 2024-02-01

21
papers

587
citations

687220

13
h-index

794469

19
g-index

22
all docs

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docs citations

22
times ranked

858
citing authors

#	ARTICLE	IF	CITATIONS
1	Adaptive surrogates of crashworthiness models for multi-purpose engineering analyses accounting for uncertainty. <i>Finite Elements in Analysis and Design</i> , 2022, 203, 103694.	1.7	1
2	Nonintrusive uncertainty quantification for automotive crash problems with VPS/Pamcrash. <i>Finite Elements in Analysis and Design</i> , 2021, 193, 103556.	1.7	8
3	A Data-Driven Learning Method for Constitutive Modeling: Application to Vascular Hyperelastic Soft Tissues. <i>Materials</i> , 2020, 13, 2319.	1.3	10
4	On the Modeling of Patient-Specific Transcatheter Aortic Valve Replacement: A Fluid-Structure Interaction Approach. <i>Cardiovascular Engineering and Technology</i> , 2019, 10, 437-455.	0.7	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). <i>Computational Mechanics</i> , 2018, 62, 871-891.	2.2	16
7	The Effect of Cell Morphology on the Permeability of the Nuclear Envelope to Diffusive Factors. <i>Frontiers in Physiology</i> , 2018, 9, 925.	1.3	20
8	Algebraic PGD for tensor separation and compression: An algorithmic approach. <i>Comptes Rendus - Mecanique</i> , 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. <i>Integrative Biology (United Kingdom)</i> , 2016, 8, 1011-1021.	0.6	12
11	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
12	Impedance-based outflow boundary conditions for human carotid haemodynamics. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2014, 17, 1248-1260.	0.9	35
13	Determination and Modeling of the Inelasticity Over the Length of the Porcine Carotid Artery. <i>Journal of Biomechanical Engineering</i> , 2013, 135, 31004.	0.6	12
14	Viscoelastic properties of the passive mechanical behavior of the porcine carotid artery: Influence of proximal and distal positions. <i>Biorheology</i> , 2012, 49, 271-288.	1.2	24
15	Unsteady blood flow and mass transfer of a human left coronary artery bifurcation: FSI vs. CFD. <i>International Communications in Heat and Mass Transfer</i> , 2012, 39, 745-751.	2.9	81
16	Evaluation of migration forces of a retrievable filter: Experimental setup and finite element study. <i>Medical Engineering and Physics</i> , 2012, 34, 1167-1176.	0.8	6
17	Influence of geometrical parameters on radial force during self-expanding stent deployment. Application for a variable radial stiffness stent. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2012, 10, 166-175.	1.5	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. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2011, 301, H1097-H1106.	1.5	42

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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. <i>Medical Engineering and Physics</i> , 2011, 33, 665-676.	0.8	46
20	Numerical framework for patient-specific computational modelling of vascular tissue. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2010, 26, 35-51.	1.0	42
21	Finite-element simulation of flexor digitorum longus or flexor digitorum brevis tendon transfer for the treatment of claw toe deformity. <i>Journal of Biomechanics</i> , 2009, 42, 1697-1704.	0.9	40