

Juan Antonio Peñ̃a

List of Publications by Year in descending order

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Version: 2024-02-01

18
papers

317
citations

1307366

7
h-index

1125617

13
g-index

19
all docs

19
docs citations

19
times ranked

370
citing authors

#	ARTICLE	IF	CITATIONS
1	On the Mullins effect and hysteresis of fibered biological materials: A comparison between continuous and discontinuous damage models. <i>International Journal of Solids and Structures</i> , 2009, 46, 1727-1735.	1.3	78
2	On modelling nonlinear viscoelastic effects in ligaments. <i>Journal of Biomechanics</i> , 2008, 41, 2659-2666.	0.9	66
3	Layer-specific residual deformations and uniaxial and biaxial mechanical properties of thoracic porcine aorta. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2015, 50, 55-69.	1.5	63
4	A formulation to model the nonlinear viscoelastic properties of the vascular tissue. <i>Acta Mechanica</i> , 2011, 217, 63-74.	1.1	40
5	Over length quantification of the multiaxial mechanical properties of the ascending, descending and abdominal aorta using Digital Image Correlation. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2018, 77, 434-445.	1.5	26
6	Failure damage mechanical properties of thoracic and abdominal porcine aorta layers and related constitutive modeling: phenomenological and microstructural approach. <i>Biomechanics and Modeling in Mechanobiology</i> , 2019, 18, 1709-1730.	1.4	17
7	Unraveling the multilayer mechanical response of aorta using layer-specific residual stresses and experimental properties. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2021, 113, 104070.	1.5	8
8	Analysis of the accuracy on computing nominal stress in a biaxial test for arteries. <i>Strain</i> , 2020, 56, e12331.	1.4	7
9	Experiments and Constitutive Model for Deep and Superficial Fascia. <i>Digital Image Correlation and Finite Element Validation. Strain</i> , 2016, 52, 436-445.	1.4	5
10	Well Planned Obsolescence and the Eco-Design. <i>Lecture Notes in Mechanical Engineering</i> , 2019, , 74-84.	0.3	2
11	Comparative Analysis of Ecodesign in the Design and Manufacturing Methods for Mechanical Parts Made of Nylon PA6. <i>Lecture Notes in Mechanical Engineering</i> , 2020, , 40-48.	0.3	2
12	Evolutionary 3D Modeling: A Proposal for a New Generative Design Methodology. <i>Symmetry</i> , 2021, 13, 338.	1.1	1
13	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.	0.9	1
14	Mechanical and Microstructural Behavior of Vascular Tissue. , 2019, , 63-78.		0
15	Methodology for the 3D Reconstruction of Industrial Facilities Using Photogrammetry. <i>Lecture Notes in Mechanical Engineering</i> , 2019, , 225-234.	0.3	0
16	3D Organic Modeling Using Hybrid Techniques with Polygons. <i>Lecture Notes in Mechanical Engineering</i> , 2019, , 263-271.	0.3	0
17	Study of the influence of impact velocity and angle of impact against a motorcyclists' protection systems design and neural damage sustained using numerical methods. <i>International Journal of Crashworthiness</i> , 2019, 24, 171-183.	1.1	0
18	ENSAYOS EXPERIMENTALES A ESCALA REAL DE GENERADORES DE VORTICIDAD PARA REDUCIR EL COEFICIENTE AERODINÁMICO EN VEHICULOS PESADOS. <i>Dyna (Spain)</i> , 2018, 93, 96-101.	0.1	0