Amaya PÃ©rez-Del Palomar

List of Publications by Year
in descending order

45 papers	1,041 citations	430442 18 h-index	433756 31 g-index
47 all docs	47 docs citations	47 times ranked	1141 citing authors

#	Article	IF	Citations
1	Comparison of Machine Learning Methods Using Spectralis OCT for Diagnosis and Disability Progression Prognosis in Multiple Sclerosis. Annals of Biomedical Engineering, 2022, 50, 507-528.	1.3	26
2	Biomechanical evaluation of the unilateral crossbite on the asymmetrical development of the craniofacial complex. A mechano-morphological approach. Computer Methods and Programs in Biomedicine, 2022, 217, 106703.	2.6	3
3	Monitoring New Long-Lasting Intravitreal Formulation for Glaucoma with Vitreous Images Using Optical Coherence Tomography. Pharmaceutics, 2021, 13, 217.	2.0	6
4	Machine learning in diagnosis and disability prediction of multiple sclerosis using optical coherence tomography. Computers in Biology and Medicine, 2021, 133, 104416.	3.9	34
5	Biomechanical impact of the porous-fibrous tissue behaviour in the temporomandibular joint movements. An in silico approach. Journal of the Mechanical Behavior of Biomedical Materials, 2021, 120, 104542.	1.5	4
6	Analysis of Parainflammation in Chronic Glaucoma Using Vitreous-OCT Imaging. Biomedicines, 2021, 9, 1792.	1.4	5
7	In silico study of cuspid' periodontal ligament damage under parafunctional and traumatic conditions of whole-mouth occlusions. A patient-specific evaluation. Computer Methods and Programs in Biomedicine, 2020, 184, 105107.	2.6	14
8	Analysis of temporomandibular joint dysfunction in paediatric patients with unilateral crossbite using automatically generated finite element models. Computer Methods in Biomechanics and Biomedical Engineering, 2020, 23, 627-641.	0.9	1
9	Computational characterization of the porousâ€fibrous behavior of the soft tissues in the temporomandibular joint. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2020, 108, 2204-2217.	1.6	4
10	Towards an early 3D-diagnosis of craniofacial asymmetry by computing the accurate midplane: A PCA-based method. Computer Methods and Programs in Biomedicine, 2020, 191, 105397.	2.6	10
11	Physiological changes in retinal layers thicknesses measured with swept source optical coherence tomography. PLoS ONE, 2020, 15, e0240441.	1.1	5
12	Title is missing!. , 2020, 15, e0240441.		0
13	Title is missing!. , 2020, 15, e0240441.		0
14	Title is missing!. , 2020, 15, e0240441.		0
15	Title is missing!. , 2020, 15, e0240441.		0
16	A mathematical model to predict the evolution of retinal nerve fiber layer thinning in multiple sclerosis patients. Computers in Biology and Medicine, 2019, 111, 103357.	3.9	9
17	Is there any advantage of using stand-alone cages? A numerical approach. BioMedical Engineering OnLine, 2019, 18, 63.	1.3	13
18	Swept source optical coherence tomography to early detect multiple sclerosis disease. The use of machine learning techniques. PLoS ONE, 2019, 14, e0216410.	1.1	43

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19	Numerical simulations of bone remodelling and formation following nucleotomy. Journal of Biomechanics, 2019, 88, 138-147.	0.9	6
20	The Innate Immune Cell Profile of the Cornea Predicts the Onset of Ocular Surface Inflammatory Disorders. Journal of Clinical Medicine, 2019, 8, 2110.	1.0	25
21	A porous fibrous hyperelastic damage model for human periodontal ligament: Application of a microcomputerized tomography finite element model. International Journal for Numerical Methods in Biomedical Engineering, 2019, 35, e3176.	1.0	11
22	Approach towards the porous fibrous structure of the periodontal ligament using micro-computerized tomography and finite element analysis. Journal of the Mechanical Behavior of Biomedical Materials, 2018, 79, 135-149.	1.5	27
23	Intervertebral disc degeneration: an experimental and numerical study using a rabbit model. Medical and Biological Engineering and Computing, 2018, 56, 865-877.	1.6	7
24	Stand-alone lumbar cage subsidence: A biomechanical sensitivity study of cage design and placement.. Computer Methods and Programs in Biomedicine, 2018, 162, 211-219.	2.6	31
25	Towards an in-plane methodology to track breast lesions using mammograms and patient-specific finite-element simulations. Physics in Medicine and Biology, 2017, 62, 8720-8738.	1.6	4
26	Jaw biodynamic data for 24 patients with chronic unilateral temporomandibular disorder. Scientific Data, 2017, 4, 170168.	2.4	7
27	Influence of different fusion techniques in lumbar spine over the adjacent segments: A 3D finite element study. Journal of Orthopaedic Research, 2015, 33, 993-1000.	1.2	14
28	Muscular activity during isometric incisal biting. Journal of Biomechanics, 2014, 47, 3891-3897.	0.9	17
29	A patient-specific FE-based methodology to simulate prosthesis insertion during an augmentation mammoplasty. Medical Engineering and Physics, 2011, 33, 1094-1102.	0.8	20
30	FE simulation of human trachea swallowing movement before and after the implantation of an endoprothesis. Applied Mathematical Modelling, 2011, 35, 4902-4912.	2.2	14
31	Modeling of the fluid structure interaction of a human trachea under different ventilation conditions. International Communications in Heat and Mass Transfer, 2011, 38, 10-15.	2.9	27
32	Numerical modeling of a human stented trachea under different stent designs. International Communications in Heat and Mass Transfer, 2011, 38, 855-862.	2.9	30
33	Patient-specific models of human trachea to predict mechanical consequences of endoprosthesis implantation. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2010, 368, 2881-2896.	1.6	21
34	Experimental characterization and constitutive modeling of the mechanical behavior of the human trachea. Medical Engineering and Physics, 2010, 32, 76-82.	0.8	86
35	FSI Analysis of the Coughing Mechanism in a Human Trachea. Annals of Biomedical Engineering, 2010, 38, 1556-1565.	1.3	47
36	An accurate validation of a computational model of a human lumbosacral segment. Journal of Biomechanics, 2010, 43, 334-342.	0.9	76

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37	Surgical Planning and Patient-Specific Biomechanical Simulation for Tracheal Endoprostheses Interventions. Lecture Notes in Computer Science, 2009, 12, 275-282.	1.0	3
38	An experimental study of the mouse skin behaviour: Damage and inelastic aspects. Journal of Biomechanics, 2008, 41, 93-99.	0.9	86
39	An accurate finite element model of the cervical spine under quasi-static loading. Journal of Biomechanics, 2008, 41, 523-531.	0.9	82
40	Clenching TMJs-Loads Increases in Partial Edentates: A 3D Finite Element Study. Annals of Biomedical Engineering, 2008, 36, 1014-1023.	1.3	30
41	Dynamic 3D FE modelling of the human temporomandibular joint during whiplash. Medical Engineering and Physics, 2008, 30, 700-709.	0.8	20
42	A finite element model to accurately predict real deformations of the breast. Medical Engineering and Physics, 2008, 30, 1089-1097.	0.8	100
43	An accurate simulation model of anteriorly displaced TMJ discs with and without reduction. Medical Engineering and Physics, 2007, 29, 216-226.	0.8	48
44	Influence of unilateral disc displacement on the stress response of the temporomandibular joint discs during opening and mastication. Journal of Anatomy, 2007, 211, 453-463.	0.9	15
45	A finite element comparison between the mechanical behaviour of rigid and resilient oral implants with respect to immediate loading. Computer Methods in Biomechanics and Biomedical Engineering, 2005, 8, 45-57.	0.9	10