

Javier MartÃ-nez-Reina

List of Publications by Year in descending order

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Version: 2024-02-01

31
papers

569
citations

623188

14
h-index

642321

23
g-index

35
all docs

35
docs citations

35
times ranked

622
citing authors

#	ARTICLE	IF	CITATIONS
1	Numerical estimation of bone density and elastic constants distribution in a human mandible. <i>Journal of Biomechanics</i> , 2007, 40, 828-836.	0.9	72
2	Finite element analysis of the human mastication cycle. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2015, 41, 23-35.	1.5	55
3	A study of the temporomandibular joint during bruxism. <i>International Journal of Oral Science</i> , 2014, 6, 116-123.	3.6	53
4	Effect of porosity and mineral content on the elastic constants of cortical bone: a multiscale approach. <i>Biomechanics and Modeling in Mechanobiology</i> , 2011, 10, 309-322.	1.4	47
5	A bone remodelling model including the directional activity of BMUs. <i>Biomechanics and Modeling in Mechanobiology</i> , 2009, 8, 111-127.	1.4	33
6	Percutaneous iliosacral fixation in external rotational pelvic fractures. A biomechanical analysis. <i>Injury</i> , 2015, 46, 327-332.	0.7	32
7	On the role of bone damage in calcium homeostasis. <i>Journal of Theoretical Biology</i> , 2008, 254, 704-712.	0.8	28
8	Effects of long-term treatment of denosumab on bone mineral density: insights from an in-silico model of bone mineralization. <i>Bone</i> , 2019, 125, 87-95.	1.4	27
9	Comparison of different constitutive models to characterize the viscoelastic properties of human abdominal adipose tissue. A pilot study. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2018, 80, 293-302.	1.5	25
10	Biomechanical analysis of a new minimally invasive system for osteosynthesis of pubis symphysis disruption. <i>Injury</i> , 2012, 43, S20-S27.	0.7	21
11	The effect of kinematic constraints in the inverse dynamics problem in biomechanics. <i>Multibody System Dynamics</i> , 2016, 37, 291-309.	1.7	20
12	On the Use of Bone Remodelling Models to Estimate the Density Distribution of Bones. Uniqueness of the Solution. <i>PLoS ONE</i> , 2016, 11, e0148603.	1.1	19
13	A bone remodelling model including the effect of damage on the steering of BMUs. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2014, 32, 99-112.	1.5	18
14	Numerical simulation of bone remodelling around dental implants. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2011, 225, 897-906.	1.0	15
15	A method to evaluate human skeletal models using marker residuals and global optimization. <i>Mechanism and Machine Theory</i> , 2014, 73, 259-272.	2.7	12
16	Elastic properties of woven bone: effect of mineral content and collagen fibrils orientation. <i>Biomechanics and Modeling in Mechanobiology</i> , 2017, 16, 159-172.	1.4	12
17	Numerical simulation of a relaxation test designed to fit a quasi-linear viscoelastic model for temporomandibular joint discs. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2013, 227, 190-199.	1.0	11
18	Quasi-Linear Viscoelastic Model of the Articular Disc of the Temporomandibular Joint. <i>Experimental Mechanics</i> , 2016, 56, 1169-1177.	1.1	11

#	ARTICLE	IF	CITATIONS
19	Combined Effects of Exercise and Denosumab Treatment on Local Failure in Post-menopausal Osteoporosisâ€”Insights from Bone Remodelling Simulations Accounting for Mineralisation and Damage. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 635056.	2.0	9
20	Effect of freezing storage time on the elastic and viscous properties of the porcine TMJ disc. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2017, 71, 314-319.	1.5	8
21	Are drug holidays a safe option in treatment of osteoporosis? â€” Insights from an in silico mechanistic PKâ€”PD model of denosumab treatment of postmenopausal osteoporosis. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2021, 113, 104140.	1.5	7
22	Comparison of the viscoelastic properties of human abdominal and breast adipose tissue and its incidence on breast reconstruction surgery. A pilot study. <i>Clinical Biomechanics</i> , 2020, 71, 37-44.	0.5	6
23	Effect of non-uniform thickness of samples in stress relaxation tests under unconfined compression of samples of articular discs. <i>Journal of Biomechanics</i> , 2014, 47, 1526-1530.	0.9	5
24	A polynomial hyperelastic model for the mixture of fat and glandular tissue in female breast. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2015, 31, e02723.	1.0	5
25	Comparison of the volumetric composition of lamellar bone and the woven bone of calluses. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2018, 232, 682-689.	1.0	4
26	Influence of musculotendon geometry variability in muscle forces and hip bone-on-bone forces during walking. <i>PLoS ONE</i> , 2019, 14, e0222491.	1.1	4
27	A novel algorithm to resolve lack of convergence and checkerboard instability in bone adaptation simulations using nonâ€”local averaging. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2021, 37, e3419.	1.0	4
28	ELASTIC PROPERTIES OF WOVEN BONE: EFFECT OF MINERAL CONTENT AND COLLAGEN FIBRILS ORIENTATION. <i>Journal of Biomechanics</i> , 2012, 45, S115.	0.9	2
29	Influence of the Temporomandibular Joint in the Estimation of Bone Density in the Mandible through a Bone Remodelling Model. <i>Mathematical Problems in Engineering</i> , 2018, 2018, 1-14.	0.6	2
30	Assessment of Strategies for Safe Drug Discontinuation and Transition of Denosumab Treatment in PMOâ€”Insights From a Mechanistic PK/PD Model of Bone Turnover. <i>Frontiers in Bioengineering and Biotechnology</i> , 2022, 10, .	2.0	2
31	Cost Function in Muscle Redundancy Problems: Computational Aspects. <i>Mechanics Based Design of Structures and Machines</i> , 2011, 39, 268-284.	3.4	0