Alberto L Audenino

List of Publications by Year
in descending order

61	939	448610	563245
papers	citations	19 h-index	28 g-index

67	67	67	1452
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Could light-curing time, post-space region and cyclic fatigue affect the nanomechanical behavior of a dual-curing cement for fiber post luting?. Journal of the Mechanical Behavior of Biomedical Materials, 2022, 125, 104886.	1.5	9
2	Personalised 3D Assessment of Trochanteric Soft Tissues Improves HIP Fracture Classification Accuracy. Annals of Biomedical Engineering, 2022, 50, 303-313.	1.3	5
3	IGF-1 loaded injectable microspheres for potential repair of the infarcted myocardium. Journal of Biomaterials Applications, 2021, 35, 762-775.	1.2	7
4	Noninvasive mechanical ventilation in the COVIDâ€19 era: Proposal for a continuous positive airway pressure closedâ€loop circuit minimizing air contamination, oxygen consumption, and noise. Artificial Organs, 2021, 45, 754-761.	1.0	4
5	In silico biomechanical design of the metal frame of transcatheter aortic valves: multi-objective shape and cross-sectional size optimization. Structural and Multidisciplinary Optimization, 2021, 64, 1825-1842.	1.7	15
6	A low-cost scalable 3D-printed sample-holder for agitation-based decellularization of biological tissues. Medical Engineering and Physics, 2020, 85, 7-15.	0.8	4
7	Bioreactor Platform for Biomimetic Culture and in situ Monitoring of the Mechanical Response of in vitro Engineered Models of Cardiac Tissue. Frontiers in Bioengineering and Biotechnology, 2020, 8, 733.	2.0	20
8	Design and Characterization of a Minimally Invasive Bipolar Electrode for Electroporation. Biology, 2020, 9, 303.	1.3	6
9	Combining shape and intensity dxa-based statistical approaches for osteoporotic HIP fracture risk assessment. Computers in Biology and Medicine, 2020, 127, 104093.	3.9	10
10	Mechanical Behavior of Elastic Self-Locking Nails for Intramedullary Fracture Fixation: A Numerical Analysis of Innovative Nail Designs. Frontiers in Bioengineering and Biotechnology, 2020, 8, 557.	2.0	8
11	In Vitro Simulation of Dental Implant Bridges Removal: Influence of Luting Agent and Abutments Geometry on Retrievability. Materials, 2020, 13, 2797.	1.3	5
12	In Vitro Impact Testing to Simulate Implant-Supported Prosthesis Retrievability in Clinical Practice: Influence of Cement and Abutment Geometry. Materials, 2020, 13, 1749.	1.3	6
13	Modeling methodology for defining a priori the hydrodynamics of a dynamic suspension bioreactor. Application to human induced pluripotent stem cell culture. Journal of Biomechanics, 2019, 94, 99-106.	0.9	4
14	Surgical Treatments for Canine Anterior Cruciate Ligament Rupture: Assessing Functional Recovery Through Multibody Comparative Analysis. Frontiers in Bioengineering and Biotechnology, 2019, 7, 180.	2.0	15
15	Improving the Hip Fracture Risk Prediction Through 2D Finite Element Models From DXA Images: Validation Against 3D Models. Frontiers in Bioengineering and Biotechnology, 2019, 7, 220.	2.0	24
16	Comprehensive Review on Current and Future Regulatory Requirements on Wearable Sensors in Preclinical and Clinical Testing. Frontiers in Bioengineering and Biotechnology, 2019, 7, 313.	2.0	34
17	COLLAGEN CROSS-LINKER EFFECT ON THE MECHANICAL PROPERTIES OF THE RADICULAR HYBRID LAYER IN RESTORATIVE DENTISTRY: A NANOINDENTATION STUDY. WIT Transactions on Engineering Sciences, 2019, , .	0.0	5
18	Cell penetrating peptide modulation of membrane biomechanics by Molecular dynamics. Journal of Biomechanics, 2018, 73, 137-144.	0.9	40

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19	Implementation and validation of constitutive relations for human dermis mechanical response. Medical and Biological Engineering and Computing, 2018, 56, 2083-2093.	1.6	15
20	Influence of injectable microparticle size on cardiac progenitor cell response. Journal of Applied Biomaterials and Functional Materials, 2018, 16, 241-251.	0.7	9
21	Osteoporotic Hip Fracture Prediction: Is T-Score-Based Criterion Enough? A Hip Structural Analysis-Based Model. Journal of Biomechanical Engineering, 2018, 140, .	0.6	24
22	Reliability, Learnability and Efficiency of Two Tools for Cement Crowns Retrieval in Dentistry. Open Biomedical Engineering Journal, 2018, 12, 27-35.	0.7	4
23	Reliability, Learnability and Efficiency of Two Tools for Cement Crowns Retrieval in Dentistry. Open Biomedical Engineering Journal, 2018, 12, 74-74.	0.7	0
24	Natural polymeric microspheres for modulated drug delivery. Materials Science and Engineering C, 2017, 75, 408-417.	3.8	21
25	A structural numerical model for the optimization of double pelvic osteotomy in the early treatment of canine hip dysplasia. Veterinary and Comparative Orthopaedics and Traumatology, 2017, 30, 256-264.	0.2	23
26	EQUI-BIAXIAL TESTS FOR MECHANICAL CHARACTERIZATION OF HUMAN ACELLULAR DERMAL MATRICES THROUGH A CUSTOM-MADE BIAXIAL FIXTURE. , 2017, , .		2
27	Bone Structural Similarity Score: A Multiparametric Tool to Match Properties of Biomimetic Bone Substitutes with their Target Tissues. Journal of Applied Biomaterials and Functional Materials, 2016, 14, e277-e289.	0.7	10
28	A Versatile Bioreactor for Dynamic Suspension Cell Culture. Application to the Culture of Cancer Cell Spheroids. PLoS ONE, 2016, 11, e0154610.	1.1	45
29	In vitro standardization of two different removal devices in cemented implant prosthesis. Clinical Oral Implants Research, 2016, 27, 1026-1030.	1.9	11
30	Dermis mechanical behaviour after different cell removal treatments. Medical Engineering and Physics, 2016, 38, 862-869.	0.8	20
31	A reduced-order model-based study on the effect of intermittent pneumatic compression of limbs on the cardiovascular system. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2016, 230, 279-287.	1.0	8
32	The combined role of sinuses of Valsalva and flow pulsatility improves energy loss of the aortic valve. European Journal of Cardio-thoracic Surgery, 2016, 49, 1222-1227.	0.6	42
33	Ex Vivo Dermis Mechanical Behavior in Relation to Decellularization Treatment Length. Open Biomedical Engineering Journal, 2016, 10, 34-42.	0.7	15
34	Bladder tissue biomechanical behavior: Experimental tests and constitutive formulation. Journal of Biomechanics, 2015, 48, 3088-3096.	0.9	41
35	Image-Based Three-Dimensional Analysis to Characterize the Texture of Porous Scaffolds. BioMed Research International, 2014, 2014, 1-8.	0.9	19
36	Lower Leg Injury in Relation to Vehicle Front End. Traffic Injury Prevention, 2014, 15, 395-401.	0.6	3

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37	Transport modeling of convection-enhanced hollow fiber membrane bioreactors for therapeutic applications. Journal of Membrane Science, 2014, 471, 347-361.	4.1	21
38	Dynamic stability of under hoist transmission jacks. Safety Science, 2014, 68, 34-40.	2.6	1
39	Riderâ€“handlebar injury in two-wheel frontal collisions. Journal of the Mechanical Behavior of Biomedical Materials, 2014, 33, 84-92.	1.5	6
40	A Survey of Quantitative Descriptors of Arterial Flows. Lecture Notes in Computational Vision and Biomechanics, 2014, , 1-24.	0.5	3
41	Bioreactors as Engineering Support to Treat Cardiac Muscle and Vascular Disease. Journal of Healthcare Engineering, 2013, 4, 329-370.	1.1	38
42	Amateur football pitches: Mechanical properties of the natural ground and of different artificial turf infills and their biomechanical implications. Journal of Sports Sciences, 2013, 31, 767-778.	1.0	35
43	A Survey of Methods for the Evaluation of Tissue Engineering Scaffold Permeability. Annals of Biomedical Engineering, 2013, 41, 2027-2041.	1.3	74
44	A Virtual Test Bench to Study Transport Phenomena in 3D Porous Scaffolds Using Lattice Boltzmann Simulations. , 2013, , .		0
45	A Novel Perfusion Bioreactor for 3D Cell Culture in Microgravity Conditions. , 2013, , .		0
46	Bladder tissue passive response to monotonic and cyclic loading. Biorheology, 2012, 49, 49-63.	1.2	29
47	FRONTAL VEHICLE-END OPTIMIZATION IN RELATION TO PEDESTRIAN-CAR IMPACT. Journal of Biomechanics, 2012, 45, S204.	0.9	0
48	Multiscale modeling of cellular actin filaments: From atomistic molecular to coarseâ€grained dynamics. Proteins: Structure, Function and Bioinformatics, 2012, 80, 1598-1609.	1.5	30
49	DIFFERENTIAL THERMOGRAPHY FOR EXPERIMENTAL, FULL-FIELD STRESS ANALYSIS OF HIP ARTHROPLASTY. Journal of Mechanics in Medicine and Biology, 2010, 10, 515-529.	0.3	14
50	Parametric Analysis of Orthopedic Screws in Relation to Bone Density. Open Medical Informatics Journal, 2009, 3, 19-26.	1.0	7
51	MULTIBODY MODEL OF HIP DISLOCATION. Journal of Biomechanics, 2008, 41, S438.	0.9	1
52	MODEL VALIDATION AND FE ANALYSIS OF THE HEAD BONNET IMPACT. Journal of Biomechanics, 2008, 41, S455.	0.9	0
53	THERMOELASTIC STRESS ANALYSIS BY MEANS OF A STANDARD THERMOCAMERA. Experimental Techniques, 2007, 31, 42-50.	0.9	12
54	THERMOELASTIC AND ELASTOPLASTIC EFFECTS MEASURED BY MEANS OF A STANDARD THERMOCAMERA. Experimental Techniques, 2004, 28, 23-28.	0.9	20

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55	Correlation between thermography and internal damping in metals. International Journal of Fatigue, 2003, 25, 343-351.	2.8	43
56	Assessment of Internal Damping in Uniaxially Stressed Metals: Exponential and Autoregressive Methods. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 1998, 120, 177-184.	0.9	10
57	Application of the design of experiments for the evaluation of the robustness of video-densitometric measurements. Medical Engineering and Physics, 1997, 19, 495-500.	0.8	1
58	Roentgenographic Features of Digitized Clinical Orthopaedic Radiographs of Follow-up After Total Hip Arthroplasty. Real Time Imaging, 1997, 3, 399-413.	1.6	0
59	MEASUREMENT OF NON-LINEAR INTERNAL DAMPING IN METALS: PROCESSING OF DECAY SIGNALS IN A UNIAXIAL STRESS FIELD. Journal of Sound and Vibration, 1996, 198, 395-409.	2.1	22
60	PROCESSING OF SIMULTANEOUS MECHANICAL RANDOM RESPONSE SIGNALS: INTEGRATION, DIFFERENTIATION AND PHASE SHIFTS CORRECTION. Mechanical Systems and Signal Processing, 1996, 10, 277-291.	4.4	5
61	Radiograph processing for quantitative assessment of bone remodelling. Medical Engineering and Physics, 1996, 18, 382-389.	0.8	5