

Andrea Malandrino

List of Publications by Year in descending order

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Version: 2024-02-01

25
papers

1,626
citations

516215

16
h-index

752256

20
g-index

28
all docs

28
docs citations

28
times ranked

1999
citing authors

#	ARTICLE	IF	CITATIONS
1	Poroelastic osmoregulation of living cell volume. <i>IScience</i> , 2021, 24, 103482.	1.9	3
2	Poroelasticity of Living Tissues. , 2019, , 238-245.		17
3	Dynamic filopodial forces induce accumulation, damage, and plastic remodeling of 3D extracellular matrices. <i>PLoS Computational Biology</i> , 2019, 15, e1006684.	1.5	74
4	Complex mechanics of the heterogeneous extracellular matrix in cancer. <i>Extreme Mechanics Letters</i> , 2018, 21, 25-34.	2.0	158
5	Cell contraction induces long-ranged stress stiffening in the extracellular matrix. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 4075-4080.	3.3	231
6	In Vitro Modeling of Mechanics in Cancer Metastasis. <i>ACS Biomaterials Science and Engineering</i> , 2018, 4, 294-301.	2.6	64
7	Intervertebral Disc. , 2018, , 89-103.		1
8	Patient-specific fracture risk assessment of vertebrae: A multiscale approach coupling X-ray physics and continuum micromechanics. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2016, 32, e02760.	1.0	30
9	Simulating the sensitivity of cell nutritive environment to composition changes within the intervertebral disc. <i>Journal of the Mechanics and Physics of Solids</i> , 2016, 90, 108-123.	2.3	11
10	On the Relative Relevance of Subject-Specific Geometries and Degeneration-Specific Mechanical Properties for the Study of Cell Death in Human Intervertebral Disk Models. <i>Frontiers in Bioengineering and Biotechnology</i> , 2015, 3, 5.	2.0	26
11	Poroelastic modeling of the intervertebral disc: A path toward integrated studies of tissue biophysics and organ degeneration. <i>MRS Bulletin</i> , 2015, 40, 324-332.	1.7	19
12	Models and Experiments in Bioengineering: Why Synergies Are Encouraged. <i>Frontiers in Bioengineering and Biotechnology</i> , 2015, 3, 207.	2.0	0
13	Computational modelling of spinal implants. , 2014, , 447-484.		5
14	Numerical exploration of the combined effect of nutrient supply, tissue condition and deformation in the intervertebral disc. <i>Journal of Biomechanics</i> , 2014, 47, 1520-1525.	0.9	29
15	The role of endplate poromechanical properties on the nutrient availability in the intervertebral disc. <i>Osteoarthritis and Cartilage</i> , 2014, 22, 1053-1060.	0.6	63
16	Regional annulus fibre orientations used as a tool for the calibration of lumbar intervertebral disc finite element models. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2013, 16, 923-928.	0.9	38
17	Intervertebral Disc Cell Death Explained by Metabolism-Deformation Couplings in a Porohyperelastic Finite Element Model. , 2013, , .		2
18	MECHANICAL EFFECT AND CELL VIABILITY WITHIN THE INTERVERTEBRAL DISC. <i>Journal of Biomechanics</i> , 2012, 45, S605.	0.9	1

#	ARTICLE	IF	CITATIONS
19	Anisotropic tissue elasticity in human lumbar vertebra, by means of a coupled ultrasound-micromechanics approach. <i>Materials Letters</i> , 2012, 78, 154-158.	1.3	27
20	Comparison of four methods to simulate swelling in poroelastic finite element models of intervertebral discs. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2011, 4, 1234-1241.	1.5	74
21	The Effect of Sustained Compression on Oxygen Metabolic Transport in the Intervertebral Disc Decreases with Degenerative Changes. <i>PLoS Computational Biology</i> , 2011, 7, e1002112.	1.5	77
22	Statistical factorial analysis on the poroelastic material properties sensitivity of the lumbar intervertebral disc under compression, flexion and axial rotation. <i>Journal of Biomechanics</i> , 2009, 42, 2780-2788.	0.9	64
23	An accurate estimation of bone density improves the accuracy of subject-specific finite element models. <i>Journal of Biomechanics</i> , 2008, 41, 2483-2491.	0.9	333
24	ACCURACY OF SUBJECT-SPECIFIC FINITE ELEMENT MODELS IS IMPROVED BY ACCURATE ESTIMATION OF BONE DENSITY. <i>Journal of Biomechanics</i> , 2008, 41, S99.	0.9	0
25	Subject-specific finite element models can accurately predict strain levels in long bones. <i>Journal of Biomechanics</i> , 2007, 40, 2982-2989.	0.9	274