

# Luis Cardoso

## List of Publications by Year in descending order

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Version: 2024-02-01

74  
papers

4,040  
citations

186265

28  
h-index

128289

60  
g-index

76  
all docs

76  
docs citations

76  
times ranked

5151  
citing authors

#	ARTICLE	IF	CITATIONS
1	FSH Directly Regulates Bone Mass. <i>Cell</i> , 2006, 125, 247-260.	28.9	612
2	A hypothesis for vulnerable plaque rupture due to stress-induced debonding around cellular microcalcifications in thin fibrous caps. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 14678-14683.	7.1	472
3	Revised microcalcification hypothesis for fibrous cap rupture in human coronary arteries. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 10741-10746.	7.1	289
4	Osteocyte Apoptosis Controls Activation of Intracortical Resorption in Response to Bone Fatigue. <i>Journal of Bone and Mineral Research</i> , 2009, 24, 597-605.	2.8	286
5	A mechanistic analysis of the role of microcalcifications in atherosclerotic plaque stability: potential implications for plaque rupture. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2012, 303, H619-H628.	3.2	201
6	Advances in assessment of bone porosity, permeability and interstitial fluid flow. <i>Journal of Biomechanics</i> , 2013, 46, 253-265.	2.1	142
7	Activation of bone remodeling after fatigue: Differential response to linear microcracks and diffuse damage. <i>Bone</i> , 2010, 47, 766-772.	2.9	127
8	Blood and interstitial flow in the hierarchical pore space architecture of bone tissue. <i>Journal of Biomechanics</i> , 2015, 48, 842-854.	2.1	121
9	Atherosclerotic Plaque Targeting Mechanism of Long-Circulating Nanoparticles Established by Multimodal Imaging. <i>ACS Nano</i> , 2015, 9, 1837-1847.	14.6	105
10	3D Assessment of Cortical Bone Porosity and Tissue Mineral Density Using High-Resolution $\mu$ CT: Effects of Resolution and Threshold Method. <i>Journal of Bone and Mineral Research</i> , 2014, 29, 142-150.	2.8	101
11	In Vitro Acoustic Waves Propagation in Human and Bovine Cancellous Bone. <i>Journal of Bone and Mineral Research</i> , 2003, 18, 1803-1812.	2.8	97
12	Lactation-Induced Changes in the Volume of Osteocyte Lacunar-Canalicular Space Alter Mechanical Properties in Cortical Bone Tissue. <i>Journal of Bone and Mineral Research</i> , 2017, 32, 688-697.	2.8	75
13	Physiological loading of joints prevents cartilage degradation through CITED2. <i>FASEB Journal</i> , 2011, 25, 182-191.	0.5	74
14	Changing Views of the Biomechanics of Vulnerable Plaque Rupture: A Review. <i>Annals of Biomedical Engineering</i> , 2014, 42, 415-431.	2.5	71
15	Matrix metalloproteinase-3 in articular cartilage is upregulated by joint immobilization and suppressed by passive joint motion. <i>Matrix Biology</i> , 2010, 29, 420-426.	3.6	64
16	Strain-induced mechanotransduction through primary cilia, extracellular ATP, purinergic calcium signaling, and ERK1/2 transactivates CITED2 and downregulates MMP-1 and MMP-13 gene expression in chondrocytes. <i>Osteoarthritis and Cartilage</i> , 2016, 24, 892-901.	1.3	63
17	Micro-CT based analysis of a new paradigm for vulnerable plaque rupture: cellular microcalcifications in fibrous caps. <i>MCB Molecular and Cellular Biomechanics</i> , 2008, 5, 37-47.	0.7	63
18	The explosive growth of small voids in vulnerable cap rupture; cavitation and interfacial debonding. <i>Journal of Biomechanics</i> , 2013, 46, 396-401.	2.1	59

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19	Microcalcifications Increase Coronary Vulnerable Plaque Rupture Potential: A Patient-Based Micro-CT Fluid-Structure Interaction Study. <i>Annals of Biomedical Engineering</i> , 2012, 40, 1443-1454.	2.5	58
20	Effect of tissue properties, shape and orientation of microcalcifications on vulnerable cap stability using different hyperelastic constitutive models. <i>Journal of Biomechanics</i> , 2014, 47, 870-877.	2.1	58
21	Reductions in serum IGF-1 during aging impair health span. <i>Aging Cell</i> , 2014, 13, 408-418.	6.7	56
22	S100A9-RAGE Axis Accelerates Formation of Macrophage-Mediated Extracellular Vesicle Microcalcification in Diabetes Mellitus. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2020, 40, 1838-1853.	2.4	52
23	Fabric dependence of wave propagation in anisotropic porous media. <i>Biomechanics and Modeling in Mechanobiology</i> , 2011, 10, 39-65.	2.8	47
24	The effects of estrogen deficiency on cortical bone microporosity and mineralization. <i>Bone</i> , 2018, 110, 1-10.	2.9	47
25	Experimental Determination of the Permeability in the Lacunar-Canalicular Porosity of Bone. <i>Journal of Biomechanical Engineering</i> , 2009, 131, 101007.	1.3	43
26	First skull of <i>Antillothrix bernensis</i> , an extinct relict monkey from the Dominican Republic. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2011, 278, 67-74.	2.6	37
27	Analytical and numerical modeling of the hearing system: Advances towards the assessment of hearing damage. <i>Hearing Research</i> , 2017, 349, 111-128.	2.0	35
28	Mixture theory-based poroelasticity as a model of interstitial tissue growth. <i>Mechanics of Materials</i> , 2012, 44, 47-57.	3.2	32
29	Fabric dependence of quasi-waves in anisotropic porous media. <i>Journal of the Acoustical Society of America</i> , 2011, 129, 3302-3316.	1.1	29
30	The role of oxygen transport in atherosclerosis and vascular disease. <i>Journal of the Royal Society Interface</i> , 2020, 17, 20190732.	3.4	29
31	A symmetry invariant formulation of the relationship between the elasticity tensor and the fabric tensor. <i>Mechanics of Materials</i> , 2012, 54, 70-83.	3.2	28
32	Serum IGF-1 Is Insufficient to Restore Skeletal Size in the Total Absence of the Growth Hormone Receptor. <i>Journal of Bone and Mineral Research</i> , 2013, 28, 1575-1586.	2.8	28
33	Nutraceuticals and osteoarthritis pain. , 2018, 187, 167-179.		26
34	Computational Stress Analysis of Atherosclerotic Plaques in ApoE Knockout Mice. <i>Annals of Biomedical Engineering</i> , 2010, 38, 738-747.	2.5	25
35	Unbound (bioavailable) IGF1 enhances somatic growth. <i>DMM Disease Models and Mechanisms</i> , 2011, 4, 649-658.	2.4	25
36	Role of structural anisotropy of biological tissues in poroelastic wave propagation. <i>Mechanics of Materials</i> , 2012, 44, 174-188.	3.2	25

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37	Ovariectomy increases vascular calcification via the OPG/RANKL cytokine signalling pathway. <i>European Journal of Clinical Investigation</i> , 2008, 38, 211-217.	3.4	24
38	Microarchitecture and bone quality in the human calcaneus: Local variations of fabric anisotropy. <i>Journal of Bone and Mineral Research</i> , 2012, 27, 2562-2572.	2.8	24
39	DMP-1 mediated <i>Ghr</i> gene recombination compromises skeletal development and impairs skeletal response to intermittent PTH. <i>FASEB Journal</i> , 2016, 30, 635-652.	0.5	24
40	<i>IN VITRO</i> ACOUSTIC WAVE PROPAGATION IN HUMAN AND BOVINE CANCELLOUS BONE AS PREDICTED BY BIOT'S THEORY. <i>Journal of Mechanics in Medicine and Biology</i> , 2008, 08, 183-201.	0.7	21
41	Imaging and analysis of microcalcifications and lipid/necrotic core calcification in fibrous cap atheroma. <i>International Journal of Cardiovascular Imaging</i> , 2015, 31, 1079-1087.	1.5	21
42	Selective estrogen receptor modulation influences atherosclerotic plaque composition in a rabbit menopause model. <i>Atherosclerosis</i> , 2008, 201, 76-84.	0.8	20
43	Dynamic permeability of the lacunar canalicular system in human cortical bone. <i>Biomechanics and Modeling in Mechanobiology</i> , 2014, 13, 801-812.	2.8	20
44	A dual wedge microneedle for sampling of perilymph solution via round window membrane. <i>Biomedical Microdevices</i> , 2016, 18, 24.	2.8	20
45	High resolution micro arthrography of hard and soft tissues in a murine model. <i>Osteoarthritis and Cartilage</i> , 2012, 20, 1011-1019.	1.3	19
46	Quantification of transient increase of the blood-brain barrier permeability to macromolecules by optimized focused ultrasound combined with microbubbles. <i>International Journal of Nanomedicine</i> , 2014, 9, 4437.	6.7	17
47	Human cochlear hydrodynamics: A high-resolution $\frac{1}{4}$ CT-based finite element study. <i>Journal of Biomechanics</i> , 2017, 50, 209-216.	2.1	17
48	Microcalcifications, Their Genesis, Growth, and Biomechanical Stability in Fibrous Cap Rupture. <i>Advances in Experimental Medicine and Biology</i> , 2018, 1097, 129-155.	1.6	17
49	Effect of Maternal Care on Hearing Onset Induced by Developmental Changes in the Auditory Periphery. <i>Journal of Neuroscience</i> , 2014, 34, 4528-4533.	3.6	14
50	Mechanical Intervention for Maintenance of Cartilage and Bone. <i>Clinical Medicine Insights: Arthritis and Musculoskeletal Disorders</i> , 2011, 4, CMAMD.S6982.	1.2	12
51	Analytical basis for the determination of the lacunar canalicular permeability of bone using cyclic loading. <i>Biomechanics and Modeling in Mechanobiology</i> , 2012, 11, 767-780.	2.8	12
52	Botox-induced muscle paralysis alters intracortical porosity and osteocyte lacunar density in skeletally mature rats. <i>Journal of Orthopaedic Research</i> , 2019, 37, 1153-1163.	2.3	10
53	Development and Validation of a Motion and Loading System for a Rat Knee Joint In Vivo. <i>Annals of Biomedical Engineering</i> , 2010, 38, 621-631.	2.5	9
54	Nanoanalytical analysis of bisphosphonate-driven alterations of microcalcifications using a 3D hydrogel system and in vivo mouse model. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	9

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55	Defining the relationship between maternal care behavior and sensory development in Wistar rats: Auditory periphery development, eye opening and brain gene expression. PLoS ONE, 2020, 15, e0237933.	2.5	6
56	Skeletal Response of Male Mice to Anabolic Hormone Therapy in the Absence of the <i>tgfb3</i> Gene. Endocrinology, 2014, 155, 987-999.	2.8	5
57	Changes of Elastic Constants and Anisotropy Patterns in Trabecular Bone During Disuse-Induced Bone Loss Assessed by Poroelastic Ultrasound. Journal of Biomechanical Engineering, 2015, 137, .	1.3	4
58	Increased cochlear otic capsule thickness and intracortical canal porosity in the <i>oim</i> mouse model of osteogenesis imperfecta. Journal of Structural Biology, 2021, 213, 107708.	2.8	4
59	Stenting-induced Vasa Vasorum compression and subsequent flow resistance: a finite element study. Biomechanics and Modeling in Mechanobiology, 2021, 20, 121-133.	2.8	3
60	Tuning Thermal Dosage to Facilitate Mesenchymal Stem Cell Osteogenesis in Pro-Inflammatory Environment. Journal of Biomechanical Engineering, 2021, 143, .	1.3	2
61	Fabric dependence of bone ultrasound. Acta of Bioengineering and Biomechanics, 2010, 12, 3-23.	0.4	2
62	The Role of Microarchitecture on Absorption and Scattering of Ultrasound Waves in Trabecular Bone. , 2013, , .		1
63	Microcalcifications and plaque rupture. , 2021, , 381-409.		1
64	Risk of Rupture in Coronary Vulnerable Plaques: Fluid-Structure Interaction Studies Using Patient Based Micro-CT and IVUS Measurements. , 2011, , .		0
65	Assessment of Cancellous Bone Microarchitecture from Poroelastic Ultrasound (PEUS) Theory. , 2013, , .		0
66	Investigation of the Flow in the Microscopic Level and its Contribution to the Poroelastic Properties in Cortical Bone. , 2013, , .		0
67	Mathematical Quantification of the Impact of Microstructure on the Various Effective Properties of Bones. , 2019, , 143-154.		0
68	Title is missing!. , 2020, 15, e0237933.		0
69	Title is missing!. , 2020, 15, e0237933.		0
70	Title is missing!. , 2020, 15, e0237933.		0
71	Title is missing!. , 2020, 15, e0237933.		0
72	Title is missing!. , 2020, 15, e0237933.		0

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73	Title is missing!. , 2020, 15, e0237933.		0
74	Computational Modeling of Deep Tissue Heating by an Automatic Thermal Massage Bed: Predicting the Effects on Circulation. Frontiers in Medical Technology, 0, 4, .	2.5	0