

Egon Perilli

List of Publications by Year in descending order

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68
papers

1,999
citations

279487

23
h-index

243296

44
g-index

71
all docs

71
docs citations

71
times ranked

2453
citing authors

#	ARTICLE	IF	CITATIONS
1	Mathematical relationships between bone density and mechanical properties: A literature review. <i>Clinical Biomechanics</i> , 2008, 23, 135-146.	0.5	453
2	Application of the digital volume correlation technique for the measurement of displacement and strain fields in bone: A literature review. <i>Journal of Biomechanics</i> , 2014, 47, 923-934.	0.9	122
3	Dependence of mechanical compressive strength on local variations in microarchitecture in cancellous bone of proximal human femur. <i>Journal of Biomechanics</i> , 2008, 41, 438-446.	0.9	115
4	Mechanical testing of cancellous bone from the femoral head: Experimental errors due to off-axis measurements. <i>Journal of Biomechanics</i> , 2007, 40, 2426-2433.	0.9	100
5	In utero transplantation of adult bone marrow decreases perinatal lethality and rescues the bone phenotype in the knockin murine model for classical, dominant osteogenesis imperfecta. <i>Blood</i> , 2009, 114, 459-468.	0.6	93
6	Application of in vivo micro-computed tomography in the temporal characterisation of subchondral bone architecture in a rat model of low-dose monosodium iodoacetate-induced osteoarthritis. <i>Arthritis Research and Therapy</i> , 2011, 13, R210.	1.6	82
7	Failure strength of human vertebrae: Prediction using bone mineral density measured by DXA and bone volume by micro-CT. <i>Bone</i> , 2012, 50, 1416-1425.	1.4	73
8	Structural parameters and mechanical strength of cancellous bone in the femoral head in osteoarthritis do not depend on age. <i>Bone</i> , 2007, 41, 760-768.	1.4	62
9	MicroCT examination of human bone specimens: effects of polymethylmethacrylate embedding on structural parameters. <i>Journal of Microscopy</i> , 2007, 225, 192-200.	0.8	62
10	Detecting early bone changes using in vivo micro-CT in ovariectomized, zoledronic acid-treated, and sham-operated rats. <i>Osteoporosis International</i> , 2010, 21, 1371-1382.	1.3	61
11	Modic (endplate) changes in the lumbar spine: bone micro-architecture and remodelling. <i>European Spine Journal</i> , 2015, 24, 1926-1934.	1.0	61
12	Pre-emptive, early, and delayed alendronate treatment in a rat model of knee osteoarthritis: effect on subchondral trabecular bone microarchitecture and cartilage degradation of the tibia, bone/cartilage turnover, and joint discomfort. <i>Osteoarthritis and Cartilage</i> , 2013, 21, 1595-1604.	0.6	51
13	A physical phantom for the calibration of three-dimensional X-ray microtomography examination. <i>Journal of Microscopy</i> , 2006, 222, 124-134.	0.8	40
14	Regional Heterogeneity in the Configuration of the Intracortical Canals of the Femoral Shaft. <i>Calcified Tissue International</i> , 2015, 97, 327-335.	1.5	32
15	Micro-CT examination of human bone: from biopsies towards the entire organ. <i>Annali Dell'Istituto Superiore Di Sanita</i> , 2012, 48, 75-82.	0.2	32
16	Systematic mapping of the subchondral bone 3D microarchitecture in the human tibial plateau: Variations with joint alignment. <i>Journal of Orthopaedic Research</i> , 2017, 35, 1927-1941.	1.2	30
17	External and internal bone microarchitecture in normal and Kienbock's lunates: A whole bone micro-computed tomography study. <i>Journal of Orthopaedic Research</i> , 2014, 32, 826-833.	1.2	29
18	The Etiology and Pathogenesis of Kienbock Disease. <i>Journal of Wrist Surgery</i> , 2016, 05, 248-254.	0.3	29

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19	Time-elaps ed synchrotron-light microstructural imaging of femoral neck fracture. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2018, 84, 265-272.	1.5	28
20	Quantification of human bone microarchitecture damage in press-fit femoral knee implantation using HR-pQCT and digital volume correlation. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2019, 97, 278-287.	1.5	28
21	Critical molecular regulators, histomorphometric indices and their correlations in the trabecular bone in primary hip osteoarthritis. <i>Osteoarthritis and Cartilage</i> , 2010, 18, 1337-1344.	0.6	25
22	Does cancellous screw insertion torque depend on bone mineral density and/or microarchitecture?. <i>Journal of Biomechanics</i> , 2014, 47, 347-353.	0.9	25
23	Relationships between in vivo dynamic knee joint loading, static alignment and tibial subchondral bone microarchitecture in end-stage knee osteoarthritis. <i>Osteoarthritis and Cartilage</i> , 2018, 26, 547-556.	0.6	25
24	The X-Linked Inhibitor of Apoptosis Protein Inhibitor Embelin Suppresses Inflammation and Bone Erosion in Collagen Antibody Induced Arthritis Mice. <i>Mediators of Inflammation</i> , 2015, 2015, 1-10.	1.4	22
25	Novel Assessment of Subregional Bone Mineral Density Using DXA and pQCT and Subregional Microarchitecture Using Micro-CT in Whole Human Vertebrae: Applications, Methods, and Correspondence Between Technologies. <i>Journal of Clinical Densitometry</i> , 2010, 13, 161-174.	0.5	21
26	Human bone material characterization: integrated imaging surface investigation of male fragility fractures. <i>Osteoporosis International</i> , 2012, 23, 1297-1309.	1.3	21
27	Pullout strength of cancellous screws in human femoral heads depends on applied insertion torque, trabecular bone microarchitecture and areal bone mineral density. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2014, 40, 354-361.	1.5	20
28	Caffeic Acid Phenethyl Ester Abrogates Bone Resorption in a Murine Calvarial Model of Polyethylene Particle-Induced Osteolysis. <i>Calcified Tissue International</i> , 2015, 96, 565-574.	1.5	18
29	Development of a surrogate model based on patient weight, bone mass and geometry to predict femoral neck strains and fracture loads. <i>Journal of Biomechanics</i> , 2017, 55, 121-127.	0.9	17
30	Quantifying Not Only Bone Loss, but Also Soft Tissue Swelling, in a Murine Inflammatory Arthritis Model Using Micro-Computed Tomography. <i>Scandinavian Journal of Immunology</i> , 2015, 81, 142-150.	1.3	16
31	Parthenolide reduces empty lacunae and osteoclastic bone surface resorption induced by polyethylene particles in a murine calvarial model of peri-implant osteolysis. <i>Journal of Biomedical Materials Research - Part A</i> , 2015, 103, 3572-3579.	2.1	16
32	MHC Class II Transactivator Is an In Vivo Regulator of Osteoclast Differentiation and Bone Homeostasis Co-opted From Adaptive Immunity. <i>Journal of Bone and Mineral Research</i> , 2014, 29, 290-303.	3.1	15
33	On local micro-architecture analysis of trabecular bone in three dimensions. <i>International Orthopaedics</i> , 2013, 37, 1645-1646.	0.9	14
34	Joint loading and proximal tibia subchondral trabecular bone microarchitecture differ with walking gait patterns in end-stage knee osteoarthritis. <i>Osteoarthritis and Cartilage</i> , 2017, 25, 1623-1632.	0.6	14
35	Measurement of subregional vertebral bone mineral density in vitro using lateral projection dual-energy X-ray absorptiometry; validation with peripheral quantitative computed tomography. <i>Journal of Bone and Mineral Metabolism</i> , 2012, 30, 222-231.	1.3	13
36	Damage tolerance and toughness of elderly human femora. <i>Acta Biomaterialia</i> , 2021, 123, 167-177.	4.1	13

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37	Dependence of trabecular structure on bone quantity: A comparison between osteoarthritic and non-pathological bone. <i>Clinical Biomechanics</i> , 2011, 26, 632-639.	0.5	11
38	An Innovative CCD-Based High-Resolution CT System for Analysis of Trabecular Bone Tissue. <i>IEEE Transactions on Nuclear Science</i> , 2006, 53, 2584-2590.	1.2	10
39	Mixed effects of caffeic acid phenethyl ester (CAPE) on joint inflammation, bone loss and gastrointestinal inflammation in a murine model of collagen antibody-induced arthritis. <i>Inflammopharmacology</i> , 2017, 25, 55-68.	1.9	10
40	Tibial cartilage, subchondral bone plate and trabecular bone microarchitecture in varus and valgus osteoarthritis versus controls. <i>Journal of Orthopaedic Research</i> , 2021, 39, 1988-1999.	1.2	10
41	Micro-CT scan optimisation for mechanical loading of tibia with titanium tibial tray: A digital volume correlation zero strain error analysis. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2022, 134, 105336.	1.5	9
42	Ageing Effects on 3-Dimensional Femoral Neck Cross-Sectional Asymmetry: Implications for Age-Related Bone Fragility in Falling. <i>Journal of Clinical Densitometry</i> , 2019, 22, 153-161.	0.5	8
43	Assessing the Effects of Parthenolide on Inflammation, Bone Loss, and Glial Cells within a Collagen Antibody-Induced Arthritis Mouse Model. <i>Mediators of Inflammation</i> , 2020, 2020, 1-13.	1.4	8
44	Body Anthropometry and Bone Strength Conjointly Determine the Risk of Hip Fracture in a Sideways Fall. <i>Annals of Biomedical Engineering</i> , 2021, 49, 1380-1390.	1.3	8
45	Quality control protocol for <i>in vitro</i> micro-computed tomography. <i>Journal of Microscopy</i> , 2010, 238, 162-172.	0.8	7
46	Discrete tomography in an <i>in vivo</i> small animal bone study. <i>Journal of Bone and Mineral Metabolism</i> , 2018, 36, 40-53.	1.3	5
47	Subregional DXA-Derived Vertebral Bone Mineral Measures are Stronger Predictors of Failure Load in Specimens with Lower Areal Bone Mineral Density, Compared to Those with Higher Areal Bone Mineral Density. <i>Calcified Tissue International</i> , 2014, 95, 97-107.	1.5	4
48	Time dependent loss of trabecular bone in human tibial plateau fractures. <i>Journal of Orthopaedic Research</i> , 2018, 36, 2865-2875.	1.2	4
49	A fresh look at <i>Cladrosymblema narrienense</i> , a tetrapodomorph fish (Sarcopterygii). <i>TJ ETQq1 1 0.784314 rgBT /Overlock 10 T e12597</i> .	0.9	4
50	A novel approach for an integrated straw tube-microstrip detector. <i>IEEE Transactions on Nuclear Science</i> , 2006, 53, 1375-1379.	1.2	3
51	Three-dimensional cortical and trabecular bone microstructure of the proximal ulna. <i>Archives of Orthopaedic and Trauma Surgery</i> , 2021, , 1.	1.3	3
52	COMPRESSIVE PROPERTIES OF TRABECULAR BONE RELATED TO MICROCT EVALUATED MORPHOMETRIC PARAMETERS: PRELIMINARY RESULTS. <i>Journal of Mechanics in Medicine and Biology</i> , 2005, 05, 349-355.	0.3	2
53	Regional differences in the three-dimensional bone microstructure of the radial head: implications for observed fracture patterns. <i>Archives of Orthopaedic and Trauma Surgery</i> , 2020, , 1.	1.3	2
54	Investigating <i>in vivo</i> knee volumetric bone mineral density and walking gait mechanics in healthy people. <i>Bone</i> , 2021, 143, 115662.	1.4	2

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55	A semiautomated method to quantitatively assess osteolytic lesion volume and bone mineral density within acetabular regions of interest from CT. <i>Journal of Orthopaedic Research</i> , 2022, 40, 396-408.	1.2	2
56	Relationships between tibial articular cartilage, <i>in vivo</i> external joint moments and static alignment in end-stage knee osteoarthritis: A micro-CT study. <i>Journal of Orthopaedic Research</i> , 2022, 40, 1125-1134.	1.2	2
57	DIFFERENCES IN TRABECULAR ANISOTROPY BETWEEN OSTEOARTHROTIC AND NORMAL BONE. <i>Journal of Biomechanics</i> , 2008, 41, S46.	0.9	1
58	119 CHARACTERISATION OF TEMPORAL SUBCHONDRAL BONE CHANGES IN A RAT MODEL OF LOW-DOSE MONOSODIUM IODOACETATE INDUCED OSTEOARTHROTIS: AN <i>IN VIVO</i> MICRO-CT STUDY. <i>Osteoarthritis and Cartilage</i> , 2011, 19, S61-S62.	0.6	1
59	Quantifying shape changes of silicone breast implants in a murine model using <i>in vivo</i> micro-CT. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2017, 105, 1447-1452.	1.6	1
60	Effects of Mild and Moderate Monoclonal Antibody Dose on Inflammation, Bone Loss, and Activation of the Central Nervous System in a Female Collagen Antibody-induced Arthritis Mouse Model. <i>Journal of Histochemistry and Cytochemistry</i> , 2021, 69, 511-522.	1.3	1
61	Mouse genetic models reveal MHC Class II Transactivator as a novel regulator of osteoclastogenesis and bone homeostasis co-opted from adaptive immunity. <i>Bone</i> , 2009, 44, S228.	1.4	0
62	Whole human vertebral body BMD and bone volume fraction examined by DXA and micro-CT. <i>Bone</i> , 2009, 44, S375.	1.4	0
63	MHC class II transactivator is an <i>in vivo</i> regulator of osteoclast differentiation and bone homeostasis co-opted from adaptive immunity. <i>Bone</i> , 2012, 50, S31-S32.	1.4	0
64	Linking proximal tibia bone microarchitecture to <i>in vivo</i> dynamic knee joint loads in end-stage knee osteoarthritis. <i>Osteoarthritis and Cartilage</i> , 2016, 24, S98.	0.6	0
65	A systematic mapping of tibial plateau bone microarchitecture in end-stage knee osteoarthritis. <i>Osteoarthritis and Cartilage</i> , 2016, 24, S248-S249.	0.6	0
66	Regional Differences in the Three-dimensional Bone Microstructure of the Radial Head: Implications for Observed Fracture Patterns. <i>JSES Open Access</i> , 2019, 3, 254.	0.9	0
67	Osseous Anatomy and Microanatomy of the Lunate. , 2016, , 13-21.		0
68	Editorial: Cross-Disciplinary Approaches to Characterize Gait and Posture Disturbances in Aging and Related Diseases. <i>Frontiers in Bioengineering and Biotechnology</i> , 2022, 10, 888910.	2.0	0