

# Alessandra Carriero

## List of Publications by Year in descending order

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Version: 2024-02-01

29  
papers

1,109  
citations

430874

18  
h-index

477307

29  
g-index

31  
all docs

31  
docs citations

31  
times ranked

1419  
citing authors

#	ARTICLE	IF	CITATIONS
1	Age and Sex Differences in Load-Induced Tibial Cortical Bone Surface Strain Maps. <i>JBMR Plus</i> , 2021, 5, e10467.	2.7	9
2	Increased cochlear otic capsule thickness and intracortical canal porosity in the oim mouse model of osteogenesis imperfecta. <i>Journal of Structural Biology</i> , 2021, 213, 107708.	2.8	4
3	Poor bone matrix quality: What can be done about it?. <i>Current Osteoporosis Reports</i> , 2021, 19, 510-531.	3.6	6
4	A systematic review and meta-analysis on the efficacy of stem cell therapy on bone brittleness in mouse models of osteogenesis imperfecta. <i>Bone Reports</i> , 2021, 15, 101108.	0.4	2
5	Design and characterization of a porous pouch to prevent peritoneal adhesions during in vivo vascular graft maturation. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2020, 102, 103461.	3.1	5
6	X-ray fluorescence microscopy: A method of measuring ion concentrations in the ear. <i>Hearing Research</i> , 2020, 391, 107948.	2.0	6
7	Spine-Inspired Continuum Soft Exoskeleton for Stoop Lifting Assistance. <i>IEEE Robotics and Automation Letters</i> , 2019, 4, 4547-4554.	5.1	66
8	Modeling the Influence of Mechanics on Biological Growth. , 2018, , 17-35.		3
9	Transient peak-strain matching partially recovers the age-impaired mechanoadaptive cortical bone response. <i>Scientific Reports</i> , 2018, 8, 6636.	3.3	21
10	Spatial relationship between bone formation and mechanical stimulus within cortical bone: Combining 3D fluorochrome mapping and poroelastic finite element modelling. <i>Bone Reports</i> , 2018, 8, 72-80.	0.4	64
11	Comfort-Centered Design of a Lightweight and Backdrivable Knee Exoskeleton. <i>IEEE Robotics and Automation Letters</i> , 2018, 3, 4265-4272.	5.1	82
12	Altered Bone Mechanics, Architecture and Composition in the Skeleton of TIMP-3-Deficient Mice. <i>Calcified Tissue International</i> , 2017, 100, 631-640.	3.1	13
13	The use of XFEM to assess the influence of intra-cortical porosity on crack propagation. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2017, 20, 385-392.	1.6	13
14	Animal models of osteogenesis imperfecta: applications in clinical research. <i>Orthopedic Research and Reviews</i> , 2016, Volume 8, 41-55.	1.1	22
15	The anabolic action of intermittent parathyroid hormone on cortical bone depends partly on its ability to induce nitric oxide-mediated vasorelaxation in BALB/c mice. <i>Cell Biochemistry and Function</i> , 2016, 34, 52-62.	2.9	17
16	Overexpression of TIMP-3 in Chondrocytes Produces Transient Reduction in Growth Plate Length but Permanently Reduces Adult Bone Quality and Quantity. <i>PLoS ONE</i> , 2016, 11, e0167971.	2.5	19
17	Phospho1 deficiency transiently modifies bone architecture yet produces consistent modification in osteocyte differentiation and vascular porosity with ageing. <i>Bone</i> , 2015, 81, 277-291.	2.9	36
18	Effects of normal and abnormal loading conditions on morphogenesis of the prenatal hip joint: application to hip dysplasia. <i>Journal of Biomechanics</i> , 2015, 48, 3390-3397.	2.1	57

#	ARTICLE	IF	CITATIONS
19	Influence of altered gait patterns on the hip joint contact forces. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2014, 17, 352-359.	1.6	20
20	How Tough Is Brittle Bone? Investigating Osteogenesis Imperfecta in Mouse Bone. <i>Journal of Bone and Mineral Research</i> , 2014, 29, 1392-1401.	2.8	119
21	Mechanobiological simulations of prenatal joint morphogenesis. <i>Journal of Biomechanics</i> , 2014, 47, 989-995.	2.1	56
22	Reference point indentation is not indicative of whole mouse bone measures of stress intensity fracture toughness. <i>Bone</i> , 2014, 69, 174-179.	2.9	34
23	A methodology for the investigation of toughness and crack propagation in mouse bone. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2014, 39, 38-47.	3.1	22
24	Altered lacunar and vascular porosity in osteogenesis imperfecta mouse bone as revealed by synchrotron tomography contributes to bone fragility. <i>Bone</i> , 2014, 61, 116-124.	2.9	72
25	Ex vivo determination of bone tissue strains for an in vivo mouse tibial loading model. <i>Journal of Biomechanics</i> , 2014, 47, 2490-2497.	2.1	38
26	Vitamin D Deficiency Induces Early Signs of Aging in Human Bone, Increasing the Risk of Fracture. <i>Science Translational Medicine</i> , 2013, 5, 193ra88.	12.4	146
27	Mechanobiological prediction of proximal femoral deformities in children with cerebral palsy. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2011, 14, 253-262.	1.6	39
28	Determination of gait patterns in children with spastic diplegic cerebral palsy using principal components. <i>Gait and Posture</i> , 2009, 29, 71-75.	1.4	65
29	Correlation Between Lower Limb Bone Morphology and Gait Characteristics in Children With Spastic Diplegic Cerebral Palsy. <i>Journal of Pediatric Orthopaedics</i> , 2009, 29, 73-79.	1.2	52