

# Alessandra Carriero

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1486922/publications.pdf>

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	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
2	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
3	Comfort-Centered Design of a Lightweight and Backdrivable Knee Exoskeleton. <i>IEEE Robotics and Automation Letters</i> , 2018, 3, 4265-4272.	5.1	82
4	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
5	Spine-Inspired Continuum Soft Exoskeleton for Stoop Lifting Assistance. <i>IEEE Robotics and Automation Letters</i> , 2019, 4, 4547-4554.	5.1	66
6	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
7	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
8	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
9	Mechanobiological simulations of prenatal joint morphogenesis. <i>Journal of Biomechanics</i> , 2014, 47, 989-995.	2.1	56
10	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
11	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
12	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
13	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
14	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
15	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
16	Animal models of osteogenesis imperfecta: applications in clinical research. <i>Orthopedic Research and Reviews</i> , 2016, Volume 8, 41-55.	1.1	22
17	Transient peak-strain matching partially recovers the age-impaired mechanoadaptive cortical bone response. <i>Scientific Reports</i> , 2018, 8, 6636.	3.3	21
18	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

#	ARTICLE	IF	CITATIONS
19	Overexpression of TIMP-3 in Chondrocytes Produces Transient Reduction in Growth Plate Length but Permanently Reduces Adult Bone Quality and Quantity. PLoS ONE, 2016, 11, e0167971.	2.5	19
20	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. Cell Biochemistry and Function, 2016, 34, 52-62.	2.9	17
21	Altered Bone Mechanics, Architecture and Composition in the Skeleton of TIMP-3-Deficient Mice. Calcified Tissue International, 2017, 100, 631-640.	3.1	13
22	The use of XFEM to assess the influence of intra-cortical porosity on crack propagation. Computer Methods in Biomechanics and Biomedical Engineering, 2017, 20, 385-392.	1.6	13
23	Age and Sex Differences in Load-Induced Tibial Cortical Bone Surface Strain Maps. JBMR Plus, 2021, 5, e10467.	2.7	9
24	X-ray fluorescence microscopy: A method of measuring ion concentrations in the ear. Hearing Research, 2020, 391, 107948.	2.0	6
25	Poor bone matrix quality: What can be done about it?. Current Osteoporosis Reports, 2021, 19, 510-531.	3.6	6
26	Design and characterization of a porous pouch to prevent peritoneal adhesions during in vivo vascular graft maturation. Journal of the Mechanical Behavior of Biomedical Materials, 2020, 102, 103461.	3.1	5
27	Increased cochlear otic capsule thickness and intracortical canal porosity in the oim mouse model of osteogenesis imperfecta. Journal of Structural Biology, 2021, 213, 107708.	2.8	4
28	Modeling the Influence of Mechanics on Biological Growth. , 2018, , 17-35.		3
29	A systematic review and meta-analysis on the efficacy of stem cell therapy on bone brittleness in mouse models of osteogenesis imperfecta. Bone Reports, 2021, 15, 101108.	0.4	2