Behzad Javaheri

List of Publications by Year
in descending order

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46 papers	1,094 citations	471509 17 h-index	434195 31 g-index
52 all docs	52 docs citations	52 times ranked	1466 citing authors

#	Article	IF	Citations
1	In vivo mechanical loading rapidly activates Î²-catenin signaling in osteocytes through a prostaglandin mediated mechanism. Bone, 2015, 76, 58-66.	2.9	121
2	Deletion of a Single Î²-Catenin Allele in Osteocytes Abolishes the Bone Anabolic Response to Loading. Journal of Bone and Mineral Research, 2014, 29, 705-715.	2.8	104
3	Predicting cortical bone adaptation to axial loading in the mouse tibia. Journal of the Royal Society Interface, 2015, 12, 20150590.	3.4	84
4	The mouse fibula as a suitable bone for the study of functional adaptation to mechanical loading. Bone, 2009, 44, 930-935.	2.9	70
5	Spatial relationship between bone formation and mechanical stimulus within cortical bone: Combining 3D fluorochrome mapping and poroelastic finite element modelling. Bone Reports, 2018, 8, 72-80.	0.4	64
6	In situ characterization of nanoscale strains in loaded whole joints via synchrotron X-ray tomography. Nature Biomedical Engineering, 2020, 4, 343-354.	22.5	49
7	Pathogenic LRRK2 variants are gain-of-function mutations that enhance LRRK2-mediated repression of Î²-catenin signaling. Molecular Neurodegeneration, 2017, 12, 9.	10.8	45
8	Loading-related Regulation of Transcription Factor EGR2/Krox-20 in Bone Cells Is ERK1/2 Protein-mediated and Prostaglandin, Wnt Signaling Pathway-, and Insulin-like Growth Factor-I Axis-dependent. Journal of Biological Chemistry, 2012, 287, 3946-3962.	3.4	40
9	Phospho1 deficiency transiently modifies bone architecture yet produces consistent modification in osteocyte differentiation and vascular porosity with ageing. Bone, 2015, 81, 277-291.	2.9	36
10	Aging and Mechanoadaptive Responsiveness of Bone. Current Osteoporosis Reports, 2019, 17, 560-569.	3.6	29
11	Preclinical models for in vitro mechanical loading of bone-derived cells. BoneKEy Reports, 2015, 4, 728.	2.7	28
12	Hypomorphic conditional deletion of E11/Podoplanin reveals a role in osteocyte dendrite elongation. Journal of Cellular Physiology, 2017, 232, 3006-3019.	4.1	28
13	Excessive Growth Hormone Expression in Male GH Transgenic Mice Adversely Alters Bone Architecture and Mechanical Strength. Endocrinology, 2015, 156, 1362-1371.	2.8	23
14	Propagation phase-contrast micro-computed tomography allows laboratory-based three-dimensional imaging of articular cartilage down to the cellular level. Osteoarthritis and Cartilage, 2020, 28, 102-111.	1.3	23
15	A distinctive patchy osteomalacia characterises <i>Phospho1</i>â€deficient mice. Journal of Anatomy, 2017, 231, 298-308.	1.5	21
16	Transient peak-strain matching partially recovers the age-impaired mechanoadaptive cortical bone response. Scientific Reports, 2018, 8, 6636.	3.3	21
17	Meniscal and ligament modifications in spontaneous and post-traumatic mouse models of osteoarthritis. Arthritis Research and Therapy, 2020, 22, 171.	3.5	21
18	Lasting organ-level bone mechanoadaptation is unrelated to local strain. Science Advances, 2020, 6, eaax8301.	10.3	21

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19	Stable sulforaphane protects against gait anomalies and modifies bone microarchitecture in the spontaneous STR/Ort model of osteoarthritis. Bone, 2017, 103, 308-317.	2.9	19
20	Regulation of the Bone Vascular Network is Sexually Dimorphic. Journal of Bone and Mineral Research, 2019, 34, 2117-2132.	2.8	19
21	Sexually dimorphic tibia shape is linked to natural osteoarthritis in STR/Ort mice. Osteoarthritis and Cartilage, 2018, 26, 807-817.	1.3	18
22	Deficiency and Also Transgenic Overexpression of Timp-3 Both Lead to Compromised Bone Mass and Architecture In Vivo. PLoS ONE, 2016, 11, e0159657.	2.5	17
23	Regional diversity in the murine cortical vascular network is revealed by synchrotron X-ray tomography and is amplified with age. , 2018, 35, 281-299.		15
24	Lrp5 Is Not Required for the Proliferative Response of Osteoblasts to Strain but Regulates Proliferation and Apoptosis in a Cell Autonomous Manner. PLoS ONE, 2012, 7, e35726.	2.5	15
25	Altered Bone Mechanics, Architecture and Composition in the Skeleton of TIMP-3-Deficient Mice. Calcified Tissue International, 2017, 100, 631-640.	3.1	13
26	A Computed Microtomography Method for Understanding Epiphyseal Growth Plate Fusion. Frontiers in Materials, 2018, 4, 48.	2.4	13
27	Conditional deletion of E11/podoplanin in bone protects against load-induced osteoarthritis. BMC Musculoskeletal Disorders, 2019, 20, 344.	1.9	13
28	The Chondro-Osseous Continuum: Is It Possible to Unlock the Potential Assigned Within?. Frontiers in Bioengineering and Biotechnology, 2018, 6, 28.	4.1	12
29	Sost Deficiency does not Alter Boneâ€™s Lacunar or Vascular Porosity in Mice. Frontiers in Materials, 2017, 4, 27.	2.4	10
30	Sost Haploinsufficiency Provokes Peracute Lethal Cardiac Tamponade without Rescuing the Osteopenia in a Mouse Model of Excess Glucocorticoids. American Journal of Pathology, 2019, 189, 753-761.	3.8	10
31	Targeted Inhibition of Aggrecanases Prevents Articular Cartilage Degradation and Augments Bone Mass in the <scp>STR</scp>/Ort Mouse Model of Spontaneous Osteoarthritis. Arthritis and Rheumatology, 2019, 71, 571-582.	5.6	10
32	Strain uses gap junctions to reverse stimulation of osteoblast proliferation by osteocytes. Cell Biochemistry and Function, 2017, 35, 56-65.	2.9	9
33	Age and Sex Differences in Loadâ€Induced Tibial Cortical Bone Surface Strain Maps. JBMR Plus, 2021, 5, e10467.	2.7	9
34	Studying Osteoarthritis Pathogenesis in Mice. Current Protocols in Mouse Biology, 2018, 8, e50.	1.2	8
35	Sciatic neurectomy-related cortical bone loss exhibits delayed onset yet stabilises more rapidly than trabecular bone. Bone Reports, 2021, 15, 101116.	0.4	8
36	Applied mechanical loading to mouse hindlimb acutely increases skeletal perfusion and chronically enhanced vascular porosity. Journal of Applied Physiology, 2020, 128, 838-846.	2.5	7

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37	Spatial links between subchondral bone architectural features and cartilage degeneration in osteoarthritic joints. Scientific Reports, 2022, 12, 6694.	3.3	7
38	Dmp1 Promoter-Driven Diphtheria Toxin Receptor Transgene Expression Directs Unforeseen Effects in Multiple Tissues. International Journal of Molecular Sciences, 2017, 18, 29.	4.1	6
39	In Vivo Models of Mechanical Loading. Methods in Molecular Biology, 2019, 1914, 369-390.	0.9	5
40	A new straightforward method for semi-automated segmentation of trabecular bone from cortical bone in diverse and challenging morphologies. Royal Society Open Science, 2021, 8, 210408.	2.4	5
41	Long-term bisphosphonate treatment coupled with ovariectomy in mice provokes deleterious effects on femoral neck fracture pattern and modifies tibial shape. Bone & Joint Open, 2020, 1, 512-519.	2.6	4
42	Loss of Adenylyl Cyclase 6 in Leptin Receptorâ€Expressing Stromal Cells Attenuates Loadingâ€Induced Endosteal Bone Formation. JBMR Plus, 2020, 4, e10408.	2.7	3
43	The plate-to-rod transition in trabecular bone loss is elusive. Royal Society Open Science, 2021, 8, 201401.	2.4	3
44	Characterisation of Growth Plate Dynamics in Murine Models of Osteoarthritis. Frontiers in Endocrinology, 2021, 12, 734988.	3.5	3
45	The Mechanics of Skeletal Development. , 2018, , 25-51.		1
46	Using Cell and Organ Culture Models to Analyze Responses of Bone Cells to Mechanical Stimulation. Methods in Molecular Biology, 2019, 1914, 99-128.	0.9	0