

Blaine A Christiansen

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

68

papers

4,113

citations

23

h-index

64

g-index

85

ext. papers

5,001

ext. citations

3.9

avg, IF

5.43

L-index

#	Paper	IF	Citations
68	Guidelines for assessment of bone microstructure in rodents using micro-computed tomography. <i>Journal of Bone and Mineral Research</i> , 2010 , 25, 1468-86	6.3	2608
67	Musculoskeletal changes following non-invasive knee injury using a novel mouse model of post-traumatic osteoarthritis. <i>Osteoarthritis and Cartilage</i> , 2012 , 20, 773-82	6.2	124
66	Mechanical contributions of the cortical and trabecular compartments contribute to differences in age-related changes in vertebral body strength in men and women assessed by QCT-based finite element analysis. <i>Journal of Bone and Mineral Research</i> , 2011 , 26, 974-83	6.3	87
65	The effect of varying magnitudes of whole-body vibration on several skeletal sites in mice. <i>Annals of Biomedical Engineering</i> , 2006 , 34, 1149-56	4.7	77
64	Non-invasive mouse models of post-traumatic osteoarthritis. <i>Osteoarthritis and Cartilage</i> , 2015 , 23, 1627-38	7.0	70
63	Biomechanics of vertebral fractures and the vertebral fracture cascade. <i>Current Osteoporosis Reports</i> , 2010 , 8, 198-204	5.4	67
62	Partial reductions in mechanical loading yield proportional changes in bone density, bone architecture, and muscle mass. <i>Journal of Bone and Mineral Research</i> , 2013 , 28, 875-85	6.3	62
61	Management of Osteoarthritis with Avocado/Soybean Unsaponifiables. <i>Cartilage</i> , 2015 , 6, 30-44	3	55
60	Long-term administration of AMD3100, an antagonist of SDF-1/CXCR4 signaling, alters fracture repair. <i>Journal of Orthopaedic Research</i> , 2012 , 30, 1853-9	3.8	55
59	Comparison of loading rate-dependent injury modes in a murine model of post-traumatic osteoarthritis. <i>Journal of Orthopaedic Research</i> , 2014 , 32, 79-88	3.8	52
58	Effect of micro-computed tomography voxel size and segmentation method on trabecular bone microstructure measures in mice. <i>Bone Reports</i> , 2016 , 5, 136-40	2.6	51
57	A biomechanical model for estimating loads on thoracic and lumbar vertebrae. <i>Clinical Biomechanics</i> , 2010 , 25, 853-8	2.2	49
56	Age-related changes in bone morphology are accelerated in group VIA phospholipase A2 (iPLA2beta)-null mice. <i>American Journal of Pathology</i> , 2008 , 172, 868-81	5.8	48
55	Effect of alendronate on post-traumatic osteoarthritis induced by anterior cruciate ligament rupture in mice. <i>Arthritis Research and Therapy</i> , 2015 , 17, 30	5.7	42
54	QCT measures of bone strength at the thoracic and lumbar spine: the Framingham Study. <i>Journal of Bone and Mineral Research</i> , 2012 , 27, 654-63	6.3	40
53	Reliability of vertebral fracture assessment using multidetector CT lateral scout views: the Framingham Osteoporosis Study. <i>Osteoporosis International</i> , 2011 , 22, 1123-31	5.3	37
52	Cartilage oligomeric matrix protein enhances osteogenesis by directly binding and activating bone morphogenetic protein-2. <i>Bone</i> , 2013 , 55, 23-35	4.7	34

51	Global molecular changes in a tibial compression induced ACL rupture model of post-traumatic osteoarthritis. <i>Journal of Orthopaedic Research</i> , 2017 , 35, 474-485	3.8	31
50	Osteophyte formation after ACL rupture in mice is associated with joint restabilization and loss of range of motion. <i>Journal of Orthopaedic Research</i> , 2017 , 35, 466-473	3.8	30
49	SOST/Sclerostin Improves Posttraumatic Osteoarthritis and Inhibits MMP2/3 Expression After Injury. <i>Journal of Bone and Mineral Research</i> , 2018 , 33, 1105-1113	6.3	27
48	In vivo fluorescence reflectance imaging of protease activity in a mouse model of post-traumatic osteoarthritis. <i>Osteoarthritis and Cartilage</i> , 2014 , 22, 1461-9	6.2	25
47	Sostdc1 deficiency accelerates fracture healing by promoting the expansion of periosteal mesenchymal stem cells. <i>Bone</i> , 2016 , 88, 20-30	4.7	25
46	Cyclin-dependent kinase 9 inhibition protects cartilage from the catabolic effects of proinflammatory cytokines. <i>Arthritis and Rheumatology</i> , 2014 , 66, 1537-46	9.5	24
45	Constrained tibial vibration in mice: a method for studying the effects of vibrational loading of bone. <i>Journal of Biomechanical Engineering</i> , 2008 , 130, 044502	2.1	21
44	Contribution of mechanical unloading to trabecular bone loss following non-invasive knee injury in mice. <i>Journal of Orthopaedic Research</i> , 2016 , 34, 1680-1687	3.8	20
43	SOST Inhibits Prostate Cancer Invasion. <i>PLoS ONE</i> , 2015 , 10, e0142058	3.7	20
42	Bone Material Properties and Skeletal Fragility. <i>Calcified Tissue International</i> , 2015 , 97, 213-28	3.9	19
41	Altered bone development in a mouse model of peripheral sensory nerve inactivation. <i>Journal of Musculoskeletal Neuronal Interactions</i> , 2014 , 14, 1-9	1.3	19
40	Age-dependent bone loss and recovery during hindlimb unloading and subsequent reloading in rats. <i>BMC Musculoskeletal Disorders</i> , 2018 , 19, 223	2.8	18
39	Comparative Transcriptomics Identifies Novel Genes and Pathways Involved in Post-Traumatic Osteoarthritis Development and Progression. <i>International Journal of Molecular Sciences</i> , 2018 , 19,	6.3	18
38	Constrained tibial vibration does not produce an anabolic bone response in adult mice. <i>Bone</i> , 2009 , 45, 750-9	4.7	16
37	Bone adaptation to mechanical loading in a mouse model of reduced peripheral sensory nerve function. <i>PLoS ONE</i> , 2017 , 12, e0187354	3.7	16
36	LPS-Induced Inflammation Prior to Injury Exacerbates the Development of Post-Traumatic Osteoarthritis in Mice. <i>Journal of Bone and Mineral Research</i> , 2020 , 35, 2229-2241	6.3	15
35	Thermoresponsive, hollow, degradable core-shell nanoparticles for intra-articular delivery of anti-inflammatory peptide. <i>Journal of Controlled Release</i> , 2020 , 323, 47-58	11.7	15
34	Age Dependence of Systemic Bone Loss and Recovery Following Femur Fracture in Mice. <i>Journal of Bone and Mineral Research</i> , 2019 , 34, 157-170	6.3	15

33	Incident fracture is associated with a period of accelerated loss of hip BMD: the Study of Osteoporotic Fractures. <i>Osteoporosis International</i> , 2018 , 29, 2201-2209	5.3	14
32	Autophagy-linked FYVE containing protein WDFY3 interacts with TRAF6 and modulates RANKL-induced osteoclastogenesis. <i>Journal of Autoimmunity</i> , 2016 , 73, 73-84	15.5	14
31	Global Gene Expression Analysis Identifies Age-Related Differences in Knee Joint Transcriptome during the Development of Post-Traumatic Osteoarthritis in Mice. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	13
30	BMP-7 and Bone Regeneration: Evaluation of Dose-Response in a Rodent Segmental Defect Model. <i>Journal of Orthopaedic Trauma</i> , 2015 , 29, e336-41	3.1	13
29	Systemic Bone Loss After Fracture. <i>Clinical Reviews in Bone and Mineral Metabolism</i> , 2018 , 16, 116-130	2.5	12
28	The Role of Nerves in Skeletal Development, Adaptation, and Aging. <i>Frontiers in Endocrinology</i> , 2020 , 11, 646	5.7	11
27	Osteophytes and fracture calluses share developmental milestones and are diminished by unloading. <i>Journal of Orthopaedic Research</i> , 2018 , 36, 699-710	3.8	10
26	Remineralization of demineralized bone matrix (DBM) via alternating solution immersion (ASI). <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2013 , 26, 109-18	4.1	9
25	Single-Cell RNA-Seq Reveals Transcriptomic Heterogeneity and Post-Traumatic Osteoarthritis-Associated Early Molecular Changes in Mouse Articular Chondrocytes. <i>Cells</i> , 2021 , 10,	7.9	9
24	Antibiotic Treatment Prior to Injury Improves Post-Traumatic Osteoarthritis Outcomes in Mice. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	7
23	Acute Changes in NADPH Oxidase 4 in Early Post-Traumatic Osteoarthritis. <i>Journal of Orthopaedic Research</i> , 2019 , 37, 2429-2436	3.8	6
22	The effect of noggin interference in a rabbit posterolateral spinal fusion model. <i>European Spine Journal</i> , 2014 , 23, 2385-92	2.7	6
21	Remineralized bone matrix as a scaffold for bone tissue engineering. <i>Journal of Biomedical Materials Research - Part A</i> , 2014 , 102, 4480-90	5.4	6
20	Mechanical and morphological properties of trabecular bone samples obtained from third metacarpal bones of cadavers of horses with a bone fragility syndrome and horses unaffected by that syndrome. <i>American Journal of Veterinary Research</i> , 2012 , 73, 1742-51	1.1	6
19	Trabecular Microstructure and Damage Affect Cement Leakage From the Basivertebral Foramen During Vertebral Augmentation. <i>Spine</i> , 2017 , 42, E939-E948	3.3	5
18	Trabecular bone loss at a distant skeletal site following noninvasive knee injury in mice. <i>Journal of Biomechanical Engineering</i> , 2015 , 137,	2.1	5
17	The mechanism of thoracolumbar burst fracture may be related to the basivertebral foramen. <i>Spine Journal</i> , 2018 , 18, 472-481	4	5
16	Comparison of knee injury threshold during tibial compression based on limb orientation in mice. <i>Journal of Biomechanics</i> , 2018 , 74, 220-224	2.9	5

15	Locking versus nonlocking construct in an osteoporotic, segmental fibula defect model. <i>Orthopedics</i> , 2013 , 36, e1262-8	1.5	5
14	The microbiome mediates epiphyseal bone loss and metabolomic changes after acute joint trauma in mice. <i>Osteoarthritis and Cartilage</i> , 2021 , 29, 882-893	6.2	4
13	Whole-body vibration and weight loss: truth or consequence?. <i>International Journal of Obesity</i> , 2009 , 33, 384; author reply 382-3	5.5	3
12	Post-traumatic osteoarthritis progression is diminished by early mechanical unloading and anti-inflammatory treatment in mice. <i>Osteoarthritis and Cartilage</i> , 2021 ,	6.2	2
11	Preexisting Type 1 Diabetes Mellitus Blunts the Development of Posttraumatic Osteoarthritis.. <i>JBMR Plus</i> , 2022 , 6, e10625	3.9	2
10	The microbiome mediates subchondral bone loss and metabolomic changes after acute joint trauma		1
9	Age dependence of systemic bone loss and recovery following femur fracture in mice		1
8	Region-dependent bone loss in the lumbar spine following femoral fracture in mice. <i>Bone</i> , 2020 , 140, 115555	4.7	1
7	Sex differences in systemic bone and muscle loss following femur fracture in mice. <i>Journal of Orthopaedic Research</i> , 2021 ,	3.8	1
6	InternalBrace has biomechanical properties comparable to suture button but less rigid than screw in ligamentous lisfranc model. <i>Journal of Orthopaedics</i> , 2020 , 17, 7-12	1.6	1
5	Achieving interfragmentary compression without special drilling technique or screw design. <i>Journal of Orthopaedic Research</i> , 2018 , 36, 1099-1105	3.8	0
4	Systemic bone loss following myocardial infarction in mice. <i>Journal of Orthopaedic Research</i> , 2021 , 39, 739-749	3.8	0
3	Assessment of Bone Mass and Microarchitecture in Rodents 2013 , 59-68		
2	Closed Joint ACL Disruption Murine Model of PTA 2015 , 75-85		
1	Methods in Bone Biology in Animals: Imaging 2011 , 45-56		