

Sarah L Manske

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.

49
papers

991
citations

18
h-index

31
g-index

58
ext. papers

1,147
ext. citations

3.7
avg, IF

4.35
L-index

#	Paper	IF	Citations
49	During sideways falls proximal femur fractures initiate in the superolateral cortex: evidence from high-speed video of simulated fractures. <i>Journal of Biomechanics</i> , 2009 , 42, 1917-25	2.9	155
48	Human trabecular bone microarchitecture can be assessed independently of density with second generation HR-pQCT. <i>Bone</i> , 2015 , 79, 213-21	4.7	105
47	Cortical and trabecular bone in the femoral neck both contribute to proximal femur failure load prediction. <i>Osteoporosis International</i> , 2009 , 20, 445-53	5.3	67
46	Tibial geometry is associated with failure load ex vivo: a MRI, pQCT and DXA study. <i>Osteoporosis International</i> , 2007 , 18, 991-7	5.3	58
45	Muscle and bone follow similar temporal patterns of recovery from muscle-induced disuse due to botulinum toxin injection. <i>Bone</i> , 2010 , 46, 24-31	4.7	46
44	Quantitative in vivo assessment of bone microarchitecture in the human knee using HR-pQCT. <i>Bone</i> , 2017 , 97, 43-48	4.7	45
43	Femoral neck cortical geometry measured with magnetic resonance imaging is associated with proximal femur strength. <i>Osteoporosis International</i> , 2006 , 17, 1539-45	5.3	41
42	The Estimation of Second-Generation HR-pQCT From First-Generation HR-pQCT Using In Vivo Cross-Calibration. <i>Journal of Bone and Mineral Research</i> , 2017 , 32, 1514-1524	6.3	39
41	Separating Fluid Shear Stress from Acceleration during Vibrations in Vitro: Identification of Mechanical Signals Modulating the Cellular Response. <i>Cellular and Molecular Bioengineering</i> , 2012 , 5, 266-276	3.9	36
40	Analyzing cortical bone cross-sectional geometry by peripheral QCT: comparison with bone histomorphometry. <i>Journal of Clinical Densitometry</i> , 2007 , 10, 86-92	3.5	34
39	Lower Bone Density, Impaired Microarchitecture, and Strength Predict Future Fragility Fracture in Postmenopausal Women: 5-Year Follow-up of the Calgary CaMos Cohort. <i>Journal of Bone and Mineral Research</i> , 2018 , 33, 589-597	6.3	32
38	Harmonizing finite element modelling for non-invasive strength estimation by high-resolution peripheral quantitative computed tomography. <i>Journal of Biomechanics</i> , 2018 , 80, 63-71	2.9	27
37	Embryonic stem cell therapy improves bone quality in a model of impaired fracture healing in the mouse; tracked temporally using in vivo micro-CT. <i>Bone</i> , 2014 , 64, 263-72	4.7	24
36	Muscle changes can account for bone loss after botulinum toxin injection. <i>Calcified Tissue International</i> , 2010 , 87, 541-9	3.9	23
35	Longitudinal Effects of Acute Anterior Cruciate Ligament Tears on Peri-Articular Bone in Human Knees Within the First Year of Injury. <i>Journal of Orthopaedic Research</i> , 2019 , 37, 2325-2336	3.8	20
34	High-frequency, low-magnitude vibration does not prevent bone loss resulting from muscle disuse in mice following botulinum toxin injection. <i>PLoS ONE</i> , 2012 , 7, e36486	3.7	19
33	Vertical ground reaction forces diminish in mice after botulinum toxin injection. <i>Journal of Biomechanics</i> , 2011 , 44, 637-43	2.9	19

32	Differences in subchondral bone plate and cartilage thickness between women with anterior cruciate ligament reconstructions and uninjured controls. <i>Osteoarthritis and Cartilage</i> , 2018 , 26, 929-939 ^{6.2}	18
31	Subchondral bone microarchitecture in ACL reconstructed knees of young women: A comparison with contralateral and uninjured control knees. <i>Bone</i> , 2018 , 111, 1-8	4.7 17
30	Clinical Tools to Evaluate Bone Strength. <i>Clinical Reviews in Bone and Mineral Metabolism</i> , 2010 , 8, 122-134	15
29	Bilateral Asymmetry of Radius and Tibia Bone Macroarchitecture and Microarchitecture: A High-Resolution Peripheral Quantitative Computed Tomography Study. <i>Journal of Clinical Densitometry</i> , 2016 , 19, 250-4	3.5 12
28	Consensus approach for 3D joint space width of metacarpophalangeal joints of rheumatoid arthritis patients using high-resolution peripheral quantitative computed tomography. <i>Quantitative Imaging in Medicine and Surgery</i> , 2020 , 10, 314-325	3.6 12
27	Skim milk powder enhances trabecular bone architecture compared with casein or whey in diet-induced obese rats. <i>Nutrition</i> , 2012 , 28, 331-5	4.8 11
26	Cortical and trabecular morphology is altered in the limb bones of mice artificially selected for faster skeletal growth. <i>Scientific Reports</i> , 2017 , 7, 10527	4.9 10
25	Assessment of the efficacy of MRI for detection of changes in bone morphology in a mouse model of bone injury. <i>Journal of Magnetic Resonance Imaging</i> , 2013 , 38, 231-7	5.6 10
24	Bone health: part 1, nutrition. <i>Sports Health</i> , 2009 , 1, 253-60	4.7 10
23	The SPECTRA Collaboration OMERACT Working Group: Construct Validity of Joint Space Outcomes with High-resolution Peripheral Quantitative Computed Tomography. <i>Journal of Rheumatology</i> , 2019 , 46, 1369-1373	4.1 9
22	Bone health: part 2, physical activity. <i>Sports Health</i> , 2009 , 1, 341-6	4.7 9
21	A Comparison of Peripheral Imaging Technologies for Bone and Muscle Quantification: A Review of Segmentation Techniques. <i>Journal of Clinical Densitometry</i> , 2020 , 23, 92-107	3.5 9
20	Determining Metacarpophalangeal Flexion Angle Tolerance for Reliable Volumetric Joint Space Measurements by High-resolution Peripheral Quantitative Computed Tomography. <i>Journal of Rheumatology</i> , 2016 , 43, 1941-1944	4.1 8
19	A study of the relationship between meniscal injury and bone microarchitecture in ACL reconstructed knees. <i>Knee</i> , 2018 , 25, 746-756	2.6 7
18	High-Resolution Peripheral Quantitative Computed Tomography for Bone Evaluation in Inflammatory Rheumatic Disease. <i>Frontiers in Medicine</i> , 2020 , 7, 337	4.9 7
17	The utility of multi-stack alignment and 3D longitudinal image registration to assess bone remodeling in rheumatoid arthritis patients from second generation HR-pQCT scans. <i>BMC Medical Imaging</i> , 2020 , 20, 36	2.9 7
16	The Correction of Systematic Error due to Plaster and Fiberglass Casts on HR-pQCT Bone Parameters Measured In Vivo at the Distal Radius. <i>Journal of Clinical Densitometry</i> , 2019 , 22, 401-408	3.5 6
15	Cartilage imaging of a rabbit knee using dual-energy X-ray microscopy and 1.0 T and 9.4 T magnetic resonance imaging. <i>Journal of Orthopaedic Translation</i> , 2015 , 3, 212-218	4.2 6

14	Increasing the Number of Unloading/Reambulation Cycles does not Adversely Impact Body Composition and Lumbar Bone Mineral Density but Reduces Tissue Sensitivity. <i>Acta Astronautica</i> , 2013 , 92, 89-96	2.9	4
13	Extending Rest between Unloading Cycles Does Not Enhance Bone's Long-Term Recovery. <i>Medicine and Science in Sports and Exercise</i> , 2015 , 47, 2191-200	1.2	3
12	A quantitative assessment of dual energy computed tomography-based material decomposition for imaging bone marrow edema associated with acute knee injury. <i>Medical Physics</i> , 2021 , 48, 1792-1803	4.4	3
11	Multi-Modal Imaging to Assess the Interaction Between Inflammation and Bone Damage Progression in Inflammatory Arthritis. <i>Frontiers in Medicine</i> , 2020 , 7, 545097	4.9	2
10	Locomotor behaviour of early tetrapods from Blue Beach, Nova Scotia, revealed by novel microanatomical analysis. <i>Royal Society Open Science</i> , 2021 , 8, 210281	3.3	1
9	Reliability and Change in Erosion Measurements by High-resolution Peripheral Quantitative Computed Tomography in a Longitudinal Dataset of Rheumatoid Arthritis Patients. <i>Journal of Rheumatology</i> , 2021 , 48, 348-351	4.1	1
8	Bone changes in early inflammatory arthritis assessed with High-Resolution peripheral Quantitative Computed Tomography (HR-pQCT): A 12-month cohort study. <i>Joint Bone Spine</i> , 2021 , 88, 105065	2.9	1
7	Heterogenous bone response to biologic DMARD therapies in rheumatoid arthritis patients and their relationship to functional indices. <i>Scandinavian Journal of Rheumatology</i> , 2021 , 50, 417-426	1.9	0
6	Advancements in Osteoporosis Imaging, Screening, and Study of Disease Etiology. <i>Current Osteoporosis Reports</i> , 2021 , 19, 532-541	5.4	0
5	Health-Related Outcomes 3-15 Years Following Ankle Sprain Injury in Youth Sport: What Does the Future Hold?. <i>Foot and Ankle International</i> , 2021 , 10711007211033543	3.3	0
4	Independent changes in bone mineralized and marrow soft tissues following acute knee injury require dual-energy or high-resolution computed tomography for accurate assessment of bone mineral density and stiffness.. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2022 , 137, 105091	4.1	
3	Changements osseux évalués par tomodensitométrie quantitative périphérique haute résolution (HR-pQCT) dans l'arthrite inflammatoire précoce : Étude longitudinale sur 12 mois. <i>Revue Du Rhumatisme (Edition Française)</i> , 2021 , 88, 450-450	0.1	
2	The application and optimization of super-resolution reconstruction for isotropic out-of-plane MRI to study the musculoskeletal system. <i>Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization</i> , 2021 , 9, 421-427	0.9	
1	Diagnostic accuracy of a dual-energy computed tomography-based post-processing method for imaging bone marrow edema following an acute ligamentous knee injury.. <i>Skeletal Radiology</i> , 2022 , 1	2.7	