

Annette I Birkhold

List of Publications by Citations

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Version: 2024-04-28

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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.

37
papers

660
citations

11
h-index

25
g-index

46
ext. papers

784
ext. citations

4.2
avg, IF

3.82
L-index

#	Paper	IF	Citations
37	Diminished response to in vivo mechanical loading in trabecular and not cortical bone in adulthood of female C57Bl/6 mice coincides with a reduction in deformation to load. <i>Bone</i> , 2013 , 55, 335-46	4.7	105
36	Aging Leads to a Dysregulation in Mechanically Driven Bone Formation and Resorption. <i>Journal of Bone and Mineral Research</i> , 2015 , 30, 1864-73	6.3	90
35	The influence of age on adaptive bone formation and bone resorption. <i>Biomaterials</i> , 2014 , 35, 9290-301	15.6	79
34	Mineralizing surface is the main target of mechanical stimulation independent of age: 3D dynamic in vivo morphometry. <i>Bone</i> , 2014 , 66, 15-25	4.7	77
33	Skeletal maturity leads to a reduction in the strain magnitudes induced within the bone: a murine tibia study. <i>Acta Biomaterialia</i> , 2015 , 13, 301-10	10.8	61
32	The Periosteal Bone Surface is Less Mechano-Responsive than the Endocortical. <i>Scientific Reports</i> , 2016 , 6, 23480	4.9	56
31	Monitoring in vivo (re)modeling: a computational approach using 4D microCT data to quantify bone surface movements. <i>Bone</i> , 2015 , 75, 210-21	4.7	49
30	Tomography-Based Quantification of Regional Differences in Cortical Bone Surface Remodeling and Mechano-Response. <i>Calcified Tissue International</i> , 2017 , 100, 255-270	3.9	26
29	Sost deficiency led to a greater cortical bone formation response to mechanical loading and altered gene expression. <i>Scientific Reports</i> , 2017 , 7, 9435	4.9	24
28	Physics-driven learning of x-ray skin dose distribution in interventional procedures. <i>Medical Physics</i> , 2019 , 46, 4654-4665	4.4	12
27	Resolve Intraoperative Brain Shift as Imitation Game. <i>Lecture Notes in Computer Science</i> , 2018 , 129-137	0.9	11
26	Computational 3D imaging to quantify structural components and assembly of protein networks. <i>Acta Biomaterialia</i> , 2018 , 69, 206-217	10.8	8
25	Cytological analysis and structural quantification of FtsZ1-2 and FtsZ2-1 network characteristics in <i>Physcomitrella patens</i> . <i>Scientific Reports</i> , 2018 , 8, 11165	4.9	7
24	Adaptive Stiffness and Joint-Free Kinematics: Actively Actuated Rod-Shaped Structures in Plants and Animals and Their Biomimetic Potential in Architecture and Engineering. <i>Biologically-inspired Systems</i> , 2016 , 135-167	0.7	6
23	Effects of Long-Term Sclerostin Deficiency on Trabecular Bone Mass and Adaption to Limb Loading Differ in Male and Female Mice. <i>Calcified Tissue International</i> , 2020 , 106, 415-430	3.9	6
22	A machine learning pipeline for internal anatomical landmark embedding based on a patient surface model. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2019 , 14, 53-61	3.9	6
21	Decoding rejuvenating effects of mechanical loading on skeletal aging using in vivo μ CT imaging and deep learning. <i>Acta Biomaterialia</i> , 2020 , 106, 193-207	10.8	5

20	Quantitative and Qualitative Comparison of 4D-DSA with 3D-DSA Using Computational Fluid Dynamics Simulations in Cerebral Aneurysms. <i>American Journal of Neuroradiology</i> , 2019 , 40, 1505-1510	4.4	4
19	Structure and function of the musculoskeletal ovipositor system of an ichneumonid wasp. <i>BMC Zoology</i> , 2018 , 3,	1.8	4
18	A NanoFE simulation-based surrogate machine learning model to predict mechanical functionality of protein networks from live confocal imaging. <i>Computational and Structural Biotechnology Journal</i> , 2020 , 18, 2774-2788	6.8	3
17	Pitfalls in interventional X-ray organ dose assessment-combined experimental and computational phantom study: application to prostatic artery embolization. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2019 , 14, 1859-1869	3.9	3
16	Deep action learning enables robust 3D segmentation of body organs in various CT and MRI images. <i>Scientific Reports</i> , 2021 , 11, 3311	4.9	3
15	4D Flat Panel Conebeam CTA for In Vivo Imaging of the Microvasculature of the Human Cortex with a Novel Software Prototype. <i>American Journal of Neuroradiology</i> , 2020 , 41, 976-979	4.4	2
14	Fully-Automatic CT Data Preparation for Interventional X-Ray Skin Dose Simulation. <i>Informatik Aktuell</i> , 2020 , 125-130	0.3	2
13	Biopolymer segmentation from CLSM microscopy images using a convolutional neural network. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2021 , 20, e202000188	0.2	2
12	4D Flat Panel Conebeam CTA for Analysis of the Angioarchitecture of Cerebral AVMs with a Novel Software Prototype.. <i>American Journal of Neuroradiology</i> , 2022 , 43, 102-109	4.4	1
11	Simultaneous Estimation of X-Ray Back-Scatter and Forward-Scatter Using Multi-task Learning. <i>Lecture Notes in Computer Science</i> , 2020 , 199-208	0.9	1
10	Effects of Tissue Material Properties on X-Ray Image, Scatter and Patient Dose A Monte Carlo Simulation. <i>Informatik Aktuell</i> , 2019 , 270-275	0.3	1
9	Tenfold your Photons. <i>Informatik Aktuell</i> , 2020 , 113-118	0.3	1
8	Registered Micro-Computed Tomography Data as a Four-Dimensional Imaging Biomarker of Bone Formation and Resorption. <i>Biomarkers in Disease</i> , 2017 , 557-586		1
7	Deep Learning Compatible Differentiable X-ray Projections for Inverse Rendering. <i>Informatik Aktuell</i> , 2021 , 290-295	0.3	1
6	Feature-based Classification of Protein Networks using Confocal Microscopy Imaging and Machine Learning. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2018 , 18, e201800246	0.2	1
5	X-Ray Scatter Estimation Using Deep Splines. <i>IEEE Transactions on Medical Imaging</i> , 2021 , 40, 2272-2283	11.7	1
4	XDose: toward online cross-validation of experimental and computational X-ray dose estimation. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2021 , 16, 1-10	3.9	0
3	Patient Surface Model and Internal Anatomical Landmarks Embedding. <i>Informatik Aktuell</i> , 2018 , 43-48	0.3	

2	Pediatric Patient Surface Model Atlas Generation and X-Ray Skin Dose Estimation. <i>Informatik Aktuell</i> , 2019 , 122-127	0.3
1	Registered Micro-Computed Tomography Data as a Four-Dimensional Imaging Biomarker of Bone Formation and Resorption. <i>Exposure and Health</i> , 2015 , 1-30	8.8