# Annette I Birkhold

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/5446814/publications.pdf

Version: 2024-02-01

| | | | |
|---|---|---|---|
| 43 papers | 869 citations | 949033 11 h-index | 563245 28 g-index |
| 46 all docs | 46 docs citations | 46 times ranked | 961 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | 4D Flat Panel Conebeam CTA for Analysis of the Angioarchitecture of Cerebral AVMs with a Novel Software Prototype. American Journal of Neuroradiology, 2022, 43, 102-109. | 1.2 | 3 |
| 2 | Learning-based occupational x-ray scatter estimation. Physics in Medicine and Biology, 2022, 67, 075001. | 1.6 | 5 |
| 3 | XDose: toward online cross-validation of experimental and computational X-ray dose estimation. International Journal of Computer Assisted Radiology and Surgery, 2021, 16, 1-10. | 1.7 | 3 |
| 4 | Deep Learning Compatible Differentiable X-ray Projections for Inverse Rendering. Informatik Aktuell, 2021, , 290-295. | 0.4 | 3 |
| 5 | Biopolymer segmentation from CLSM microscopy images using a convolutional neural network. Proceedings in Applied Mathematics and Mechanics, 2021, 20, e202000188. | 0.2 | 2 |
| 6 | Deep action learning enables robust 3D segmentation of body organs in various CT and MRI images. Scientific Reports, 2021, 11, 3311. | 1.6 | 10 |
| 7 | X-Ray Scatter Estimation Using Deep Splines. IEEE Transactions on Medical Imaging, 2021, 40, 2272-2283. | 5.4 | 8 |
| 8 | Effects of Long-Term Sclerostin Deficiency on Trabecular Bone Mass and Adaption to Limb Loading Differ in Male and Female Mice. Calcified Tissue International, 2020, 106, 415-430. | 1.5 | 13 |
| 9 | A NanoFE simulation-based surrogate machine learning model to predict mechanical functionality of protein networks from live confocal imaging. Computational and Structural Biotechnology Journal, 2020, 18, 2774-2788. | 1.9 | 6 |
| 10 | 4D Flat Panel Conebeam CTA for In Vivo Imaging of the Microvasculature of the Human Cortex with a Novel Software Prototype. American Journal of Neuroradiology, 2020, 41, 976-979. | 1.2 | 4 |
| 11 | Decoding rejuvenating effects of mechanical loading on skeletal aging using in vivo Î¼CT imaging and deep learning. Acta Biomaterialia, 2020, 106, 193-207. | 4.1 | 7 |
| 12 | Simultaneous Estimation of X-Ray Back-Scatter and Forward-Scatter Using Multi-task Learning. Lecture Notes in Computer Science, 2020, , 199-208. | 1.0 | 2 |
| 13 | Tenfold your Photons. Informatik Aktuell, 2020, , 113-118. | 0.4 | 1 |
| 14 | Fully-Automatic CT Data Preparation for Interventional X-Ray Skin Dose Simulation. Informatik Aktuell, 2020, , 125-130. | 0.4 | 2 |
| 15 | Physicsâ€driven learning of xâ€ray skin dose distribution in interventional procedures. Medical Physics, 2019, 46, 4654-4665. | 1.6 | 16 |
| 16 | Pitfalls in interventional X-ray organ dose assessmentâ€"combined experimental and computational phantom study: application to prostatic artery embolization. International Journal of Computer Assisted Radiology and Surgery, 2019, 14, 1859-1869. | 1.7 | 7 |
| 17 | Quantitative and Qualitative Comparison of 4D-DSA with 3D-DSA Using Computational Fluid Dynamics Simulations in Cerebral Aneurysms. American Journal of Neuroradiology, 2019, 40, 1505-1510. | 1.2 | 7 |
| 18 | The plastid skeleton: a source of ideas in the nano range. , 2019, , 163-166. | | 3 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Bewegung ohne Gelenke: (Wie) geht das?. , 2019, , 22-31. | | 0 |
| 20 | Das Plastidenskelett: ein Ideengeber im Nanobereich. , 2019, , 163-166. | | 0 |
| 21 | Movement Without Joints: (How) Does It Work?. , 2019, , 22-31. | | 0 |
| 22 | A machine learning pipeline for internal anatomical landmark embedding based on a patient surface model. International Journal of Computer Assisted Radiology and Surgery, 2019, 14, 53-61. | 1.7 | 7 |
| 23 | Effects of Tissue Material Properties on X-Ray Image, Scatter and Patient Dose A Monte Carlo Simulation. Informatik Aktuell, 2019, , 270-275. | 0.4 | 1 |
| 24 | Pediatric Patient Surface Model Atlas Generation and X-Ray Skin Dose Estimation. Informatik Aktuell, 2019, , 122-127. | 0.4 | 0 |
| 25 | Structure and function of the musculoskeletal ovipositor system of an ichneumonid wasp. BMC Zoology, 2018, 3, . | 0.3 | 14 |
| 26 | Featureâ€based Classification of Protein Networks using Confocal Microscopy Imaging and Machine Learning. Proceedings in Applied Mathematics and Mechanics, 2018, 18, e201800246. | 0.2 | 1 |
| 27 | Computational 3D imaging to quantify structural components and assembly of protein networks. Acta Biomaterialia, 2018, 69, 206-217. | 4.1 | 14 |
| 28 | Cytological analysis and structural quantification of FtsZ1-2 and FtsZ2-1 network characteristics in Physcomitrella patens. Scientific Reports, 2018, 8, 11165. | 1.6 | 14 |
| 29 | Resolve Intraoperative Brain Shift as Imitation Game. Lecture Notes in Computer Science, 2018, , 129-137. | 1.0 | 11 |
| 30 | Patient Surface Model and Internal Anatomical Landmarks Embedding. Informatik Aktuell, 2018, , 43-48. | 0.4 | 0 |
| 31 | Tomography-Based Quantification of Regional Differences in Cortical Bone Surface Remodeling and Mechano-Response. Calcified Tissue International, 2017, 100, 255-270. | 1.5 | 40 |
| 32 | Sost deficiency led to a greater cortical bone formation response to mechanical loading and altered gene expression. Scientific Reports, 2017, 7, 9435. | 1.6 | 33 |
| 33 | Registered Micro-Computed Tomography Data as a Four-Dimensional Imaging Biomarker of Bone Formation and Resorption. Biomarkers in Disease, 2017, , 557-586. | 0.0 | 1 |
| 34 | The Periosteal Bone Surface is Less Mechano-Responsive than the Endocortical. Scientific Reports, 2016, 6, 23480. | 1.6 | 75 |
| 35 | Adaptive Stiffness and Joint-Free Kinematics: Actively Actuated Rod-Shaped Structures in Plants and Animals and Their Biomimetic Potential in Architecture and Engineering. Biologically-inspired Systems, 2016, , 135-167. | 0.4 | 7 |
| 36 | Aging Leads to a Dysregulation in Mechanically Driven Bone Formation and Resorption. Journal of Bone and Mineral Research, 2015, 30, 1864-1873. | 3.1 | 111 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Skeletal maturity leads to a reduction in the strain magnitudes induced within the bone: A murine tibia study. Acta Biomaterialia, 2015, 13, 301-310. | 4.1 | 75 |
| 38 | Monitoring in vivo (re)modeling: A computational approach using 4D microCT data to quantify bone surface movements. Bone, 2015, 75, 210-221. | 1.4 | 57 |
| 39 | Registered Micro-Computed Tomography Data as a Four-Dimensional Imaging Biomarker of Bone Formation and Resorption. Exposure and Health, 2015, , 1-30. | 2.8 | 0 |
| 40 | The influence of age on adaptive bone formation and bone resorption. Biomaterials, 2014, 35, 9290-9301. | 5.7 | 94 |
| 41 | Mineralizing surface is the main target of mechanical stimulation independent of age: 3D dynamic in vivo morphometry. Bone, 2014, 66, 15-25. | 1.4 | 89 |
| 42 | 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. Bone, 2013, 55, 335-346. | 1.4 | 123 |
| 43 | GLOBAL AND SITE-SPECIFIC ADAPTATION OF CANCELLOUS BONE TO IN VIVO LOADING. Journal of Biomechanics, 2012, 45, S97. | 0.9 | 0 |