

Philipp Schneider

List of Publications by Year in descending order

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65
papers

3,069
citations

249298

26
h-index

198040

52
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71
all docs

71
docs citations

71
times ranked

4537
citing authors

#	ARTICLE	IF	CITATIONS
1	Noninvasive 3D Methods for the Study of Dental Cementum. , 2022, , 258-272.		0
2	Quantifying intracortical bone microstructure: A critical appraisal of 2D and 3D approaches for assessing vascular canals and osteocyte lacunae. <i>Journal of Anatomy</i> , 2021, 238, 653-668.	0.9	10
3	3D cyclorama for digital unrolling and visualisation of deformed tubes. <i>Scientific Reports</i> , 2021, 11, 14672.	1.6	2
4	Characterization of the Developing Lacunocanalicular Network During Fracture Repair. <i>JBMR Plus</i> , 2021, 5, e10525.	1.3	6
5	New spinosaurids from the Wessex Formation (Early Cretaceous, UK) and the European origins of Spinosauridae. <i>Scientific Reports</i> , 2021, 11, 19340.	1.6	22
6	Immunofluorescence-guided segmentation of three-dimensional features in micro-computed tomography datasets of human lung tissue. <i>Royal Society Open Science</i> , 2021, 8, 211067.	1.1	3
7	A robust, semi-automated approach for counting cementum increments imaged with synchrotron X-ray computed tomography. <i>PLoS ONE</i> , 2021, 16, e0249743.	1.1	8
8	Imaging techniques for observing laminar geometry in the feather shaft cortex. <i>Journal of Microscopy</i> , 2020, 277, 154-159.	0.8	4
9	Development of protocols for the first serial block-face scanning electron microscopy (SBF SEM) studies of bone tissue. <i>Bone</i> , 2020, 131, 115107.	1.4	24
10	Reptile-like physiology in Early Jurassic stem-mammals. <i>Nature Communications</i> , 2020, 11, 5121.	5.8	30
11	A highly pneumatic middle Cretaceous theropod from the British Lower Greensand. <i>Papers in Palaeontology</i> , 2020, 6, 661-679.	0.7	6
12	Synchrotron radiation-based X-ray tomography reveals life history in primate cementum incrementation. <i>Journal of the Royal Society Interface</i> , 2020, 17, 20200538.	1.5	9
13	3D mapping of blood vessel networks and cells in COPD and non-COPD lung tissue samples using micro-computed tomography and immunofluorescence. , 2020, , .		0
14	Regulation of the Bone Vascular Network is Sexually Dimorphic. <i>Journal of Bone and Mineral Research</i> , 2019, 34, 2117-2132.	3.1	19
15	X-ray Micro-Computed Tomography for Nondestructive Three-Dimensional (3D) X-ray Histology. <i>American Journal of Pathology</i> , 2019, 189, 1608-1620.	1.9	57
16	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
17	An Automated Step-Wise Micro-Compression Device for 3D Dynamic Image-Guided Failure Assessment of Bone Tissue on a Microstructural Level Using Time-Lapsed Tomography. <i>Frontiers in Materials</i> , 2018, 5, .	1.2	10
18	Small-angle X-ray scattering tensor tomography: model of the three-dimensional reciprocal-space map, reconstruction algorithm and angular sampling requirements. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2018, 74, 12-24.	0.0	46

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19	Image-based modelling of skeletal muscle oxygenation. <i>Journal of the Royal Society Interface</i> , 2017, 14, 20160992.	1.5	13
20	Nanoindentation analysis of the micromechanical anisotropy in mouse cortical bone. <i>Royal Society Open Science</i> , 2017, 4, 160971.	1.1	32
21	Phase contrast synchrotron radiation computed tomography of muscle spindles in the mouse soleus muscle. <i>Journal of Anatomy</i> , 2017, 230, 859-865.	0.9	17
22	Simultaneous visualisation of calcified bone microstructure and intracortical vasculature using synchrotron X-ray phase contrast-enhanced tomography. <i>Scientific Reports</i> , 2017, 7, 13289.	1.6	31
23	Investigation of microvascular morphological measures for skeletal muscle tissue oxygenation by image-based modelling in three dimensions. <i>Journal of the Royal Society Interface</i> , 2017, 14, 20170635.	1.5	10
24	Soft tissue 3D imaging in the lab through optimised propagation-based phase contrast computed tomography. <i>Optics Express</i> , 2017, 25, 33451.	1.7	10
25	Ultrastructure Organization of Human Trabeculae Assessed by 3D sSAXS and Relation to Bone Microarchitecture. <i>PLoS ONE</i> , 2016, 11, e0159838.	1.1	21
26	Effect of combined treatment with zoledronic acid and parathyroid hormone on mouse bone callus structure and composition. <i>Bone</i> , 2016, 92, 70-78.	1.4	17
27	Techniques to assess bone ultrastructure organization: orientation and arrangement of mineralized collagen fibrils. <i>Journal of the Royal Society Interface</i> , 2016, 13, 20160088.	1.5	104
28	Three-dimensional characterization of fibroblast foci in idiopathic pulmonary fibrosis. <i>JCI Insight</i> , 2016, 1, .	2.3	73
29	High-resolution 3D imaging of osteocytes and computational modelling in mechanobiology: insights on bone development, ageing, health and disease. , 2016, 31, 264-295.		50
30	Combining immunostaining with micro-computed tomography to visualise the 3D distribution of mast cells in idiopathic pulmonary fibrosis. , 2016, , .		0
31	Inverse Finite Element Modeling for Characterization of Local Elastic Properties in Image-Guided Failure Assessment of Human Trabecular Bone. <i>Journal of Biomechanical Engineering</i> , 2015, 137, .	0.6	13
32	Nanostructure surveys of macroscopic specimens by small-angle scattering tensor tomography. <i>Nature</i> , 2015, 527, 349-352.	13.7	170
33	3D scanning SAXS: A novel method for the assessment of bone ultrastructure orientation. <i>Bone</i> , 2015, 71, 42-52.	1.4	61
34	Advanced Glycation End-Products Reduce Collagen Molecular Sliding to Affect Collagen Fibril Damage Mechanisms but Not Stiffness. <i>PLoS ONE</i> , 2014, 9, e110948.	1.1	113
35	Quantitative phenotyping of bone fracture repair: a review. <i>BoneKEy Reports</i> , 2014, 3, 550.	2.7	24
36	Modeling microdamage behavior of cortical bone. <i>Biomechanics and Modeling in Mechanobiology</i> , 2014, 13, 1227-1242.	1.4	23

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37	Altered lacunar and vascular porosity in osteogenesis imperfecta mouse bone as revealed by synchrotron tomography contributes to bone fragility. <i>Bone</i> , 2014, 61, 116-124.	1.4	72
38	A quantitative framework for the 3D characterization of the osteocyte lacunar system. <i>Bone</i> , 2013, 57, 142-154.	1.4	95
39	The importance of the intracortical canal network for murine bone mechanics. <i>Bone</i> , 2013, 53, 120-128.	1.4	29
40	Studying osteocytes within their environment. <i>Bone</i> , 2013, 54, 285-295.	1.4	51
41	Imaging of Cellular Spread on a Three-Dimensional Scaffold by Means of a Novel Cell-Labeling Technique for High-Resolution Computed Tomography. <i>Tissue Engineering - Part C: Methods</i> , 2012, 18, 167-175.	1.1	5
42	Deformable image registration and 3D strain mapping for the quantitative assessment of cortical bone microdamage. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2012, 8, 184-193.	1.5	61
43	Serial FIB/SEM imaging for quantitative 3D assessment of the osteocyte lacuno-canalicular network. <i>Bone</i> , 2011, 49, 304-311.	1.4	123
44	The importance of murine cortical bone microstructure for microcrack initiation and propagation. <i>Bone</i> , 2011, 49, 1186-1193.	1.4	41
45	Analysis of sintered polymer scaffolds using concomitant synchrotron computed tomography and in situ mechanical testing. <i>Journal of Materials Science: Materials in Medicine</i> , 2011, 22, 2599-2605.	1.7	30
46	Three-dimensional morphometry of strained bovine periodontal ligament using synchrotron radiation-based tomography. <i>Journal of Anatomy</i> , 2010, 217, 126-134.	0.9	10
47	Ptychographic X-ray computed tomography at the nanoscale. <i>Nature</i> , 2010, 467, 436-439.	13.7	766
48	Towards quantitative 3D imaging of the osteocyte lacuno-canalicular network. <i>Bone</i> , 2010, 47, 848-858.	1.4	139
49	Automated, High-Throughput, Multi-scale Assessment of Bone Morphology and Bone Competence. <i>IFMBE Proceedings</i> , 2010, , 841-843.	0.2	0
50	Post-processing technique for improved assessment of hard tissues in the submicrometer domain using local synchrotron radiation-based computed tomography / Nachbearbeitungstechnik für eine verbesserte Erfassung harten Gewebes im Submikrometerbereich mittels lokaler synchrotronstrahlungsbasierter Computertomographie. <i>Biomedizinische Technik</i> , 2009, 54, 48-54.	0.9	12
51	Simultaneous 3D visualization and quantification of murine bone and bone vasculature using micro-computed tomography and vascular replica. <i>Microscopy Research and Technique</i> , 2009, 72, 690-701.	1.2	58
52	Time-lapsed assessment of microcrack initiation and propagation in murine cortical bone at submicrometer resolution. <i>Bone</i> , 2009, 45, 164-173.	1.4	78
53	MECHANICAL LOADING INDUCES BONE FORMATION AND INCREASED VASCULARIZATION IN CORTICAL BONE. <i>Journal of Biomechanics</i> , 2008, 41, S50.	0.9	0
54	THE INFLUENCE OF THE CORTICAL CANAL NETWORK ON MURINE BONE MECHANICS. <i>Journal of Biomechanics</i> , 2008, 41, S185.	0.9	0

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55	INVESTIGATION OF MICRODAMAGE IN MURINE BONE UNDER DYNAMIC LOAD. Journal of Biomechanics, 2008, 41, S76.	0.9	6
56	Synchrotron radiation CT methods for 3D quantitative assessment of mechanically relevant ultrastructural properties in murine bone. Proceedings of SPIE, 2008, , .	0.8	0
57	Preparation and characterization of calibration standards for bone density determination by micro-computed tomography. Analyst, The, 2007, 132, 1040.	1.7	33
58	Ultrastructural Properties in Cortical Bone Vary Greatly in Two Inbred Strains of Mice as Assessed by Synchrotron Light Based Micro- and Nano-CT. Journal of Bone and Mineral Research, 2007, 22, 1557-1570.	3.1	166
59	Hierarchical microimaging for multiscale analysis of large vascular networks. NeuroImage, 2006, 32, 626-636.	2.1	161
60	Functional microimaging: an integrated approach for advanced bone biomechanics and failure analysis. , 2006, , .		1
61	Assessment of murine bone ultrastructure using synchrotron light: towards nano-computed tomography. , 2006, 6318, 86.		1
62	Cellular phenotyping of the mouse skeleton using synchrotron based nano-computed tomography. Journal of Biomechanics, 2006, 39, S448.	0.9	2
63	Phase contrast tomography: An alternative approach. Applied Physics Letters, 2006, 88, 214104.	1.5	62
64	Hierarchical bioimaging and quantification of vasculature in disease models using corrosion casts and microcomputed tomography. , 2004, , .		2
65	Soft-tissue and phase-contrast imaging at the Swiss Light Source. , 2004, , .		2