

David HaberthÃ¼r

List of Publications by Year in descending order

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Version: 2024-02-01

44
papers

1,135
citations

516710

16
h-index

395702

33
g-index

50
all docs

50
docs citations

50
times ranked

1520
citing authors

#	ARTICLE	IF	CITATIONS
1	Microstructural evolution of gas hydrates in sedimentary matrices observed with synchrotron X-ray computed tomographic microscopy. <i>Geochemistry, Geophysics, Geosystems</i> , 2015, 16, 1711-1722.	2.5	208
2	Synchrotron X-ray computed microtomography study on gas hydrate decomposition in a sedimentary matrix. <i>Geochemistry, Geophysics, Geosystems</i> , 2016, 17, 3717-3732.	2.5	173
3	Finite element 3D reconstruction of the pulmonary acinus imaged by synchrotron X-ray tomography. <i>Journal of Applied Physiology</i> , 2008, 105, 964-976.	2.5	86
4	Local Strain Distribution in Real Three-Dimensional Alveolar Geometries. <i>Annals of Biomedical Engineering</i> , 2011, 39, 2835-2843.	2.5	71
5	Assessment of the 3D Pore Structure and Individual Components of Preshaped Catalyst Bodies by X-Ray Imaging. <i>ChemCatChem</i> , 2015, 7, 413-416.	3.7	64
6	On the path to the digital rock physics of gas hydrate-bearing sediments – processing of in situ synchrotron-tomography data. <i>Solid Earth</i> , 2016, 7, 1243-1258.	2.8	56
7	Correlative Imaging of the Murine Hind Limb Vasculature and Muscle Tissue by MicroCT and Light Microscopy. <i>Scientific Reports</i> , 2017, 7, 41842.	3.3	42
8	Radiation dose optimized lateral expansion of the field of view in synchrotron radiation X-ray tomographic microscopy. <i>Journal of Synchrotron Radiation</i> , 2010, 17, 590-599.	2.4	40
9	Visualization and stereological characterization of individual rat lung acini by high-resolution X-ray tomographic microscopy. <i>Journal of Applied Physiology</i> , 2013, 115, 1379-1387.	2.5	36
10	The total number of acini remains constant throughout postnatal rat lung development. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2016, 311, L1082-L1089.	2.9	33
11	Reptile-like physiology in Early Jurassic stem-mammals. <i>Nature Communications</i> , 2020, 11, 5121.	12.8	30
12	Following Dynamic Processes by X-ray Tomographic Microscopy with Sub-second Temporal Resolution. <i>AIP Conference Proceedings</i> , 2011, , .	0.4	29
13	Efficient estimation of the total number of acini in adult rat lung. <i>Physiological Reports</i> , 2014, 2, e12063.	1.7	27
14	The C5a/C5a receptor 1 axis controls tissue neovascularization through CXCL4 release from platelets. <i>Nature Communications</i> , 2021, 12, 3352.	12.8	27
15	The Simultaneous Role of an Alveolus as Flow Mixer and Flow Feeder for the Deposition of Inhaled Submicron Particles. <i>Journal of Biomechanical Engineering</i> , 2012, 134, 121001.	1.3	24
16	Development of vascularized nerve scaffold using perfusion-decellularization and recellularization. <i>Materials Science and Engineering C</i> , 2020, 117, 111311.	7.3	19
17	Innovative high-resolution microCT imaging of animal brain vasculature. <i>Brain Structure and Function</i> , 2020, 225, 2885-2895.	2.3	18
18	The anatomical reliability of the superficial circumflex iliac artery perforator (SCIP) flap. <i>Annals of Anatomy</i> , 2021, 234, 151624.	1.9	17

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19	Percutaneous aortic valve replacement: valvuloplasty studies in vitro. <i>European Journal of Cardio-thoracic Surgery</i> , 2011, 39, 631-634.	1.4	16
20	Imaging angiogenesis: Perspectives and opportunities in tumour research – A method display. <i>Journal of Cranio-Maxillo-Facial Surgery</i> , 2014, 42, 915-923.	1.7	16
21	Adaptation mechanism of the adult zebrafish respiratory organ to endurance training. <i>PLoS ONE</i> , 2020, 15, e0228333.	2.5	16
22	Ex vivo microangiCT: Advances in microvascular imaging. <i>Vascular Pharmacology</i> , 2019, 112, 2-7.	2.1	14
23	Synchrotron Microbeam Radiation Therapy for the Treatment of Lung Carcinoma: A Preclinical Study. <i>International Journal of Radiation Oncology Biology Physics</i> , 2021, 111, 1276-1288.	0.8	14
24	Synchrotron-based X-ray tomographic microscopy for visualization of three-dimensional collagen matrices. <i>Clinical Oral Investigations</i> , 2015, 19, 561-564.	3.0	12
25	Combination of μ CT and light microscopy for generation-specific stereological analysis of pulmonary arterial branches: a proof-of-concept study. <i>Histochemistry and Cell Biology</i> , 2021, 155, 227-239.	1.7	8
26	Multimodal imaging for the detection of sub-micron particles in the gas-exchange region of the mammalian lung. <i>Journal of Physics: Conference Series</i> , 2009, 186, 012040.	0.4	6
27	Stop-and-go <i>in situ</i> tomography of dynamic processes – gas hydrate formation in sedimentary matrices. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2015, 71, s154-s154.	0.1	6
28	Synchrotron Microtomography Reveals the Fine Three-Dimensional Porosity of Composite Polysaccharide Aerogels. <i>Materials</i> , 2017, 10, 871.	2.9	6
29	Pulmonary acini exhibit complex changes during postnatal rat lung development. <i>PLoS ONE</i> , 2021, 16, e0257349.	2.5	5
30	Deciphering complex, functional structures with synchrotron-based absorption and phase contrast tomographic microscopy. , 2010, , .		3
31	Automated segmentation and description of the internal morphology of human permanent teeth by means of micro-CT. <i>BMC Oral Health</i> , 2021, 21, 185.	2.3	3
32	Micro-CT imaging of Thiel-embalmed and iodine-stained human temporal bone for 3D modeling. <i>Journal of Otolaryngology - Head and Neck Surgery</i> , 2021, 50, 33.	1.9	3
33	Internal morphology of 101 mandibular canines of a Swiss-German population by means of micro-CT: An ex vivo study. <i>Scientific Reports</i> , 2021, 11, 21281.	3.3	3
34	High-Resolution Phase-Contrast Imaging of Submicron Particles in Unstained Lung Tissue. , 2011, , .		2
35	Evaluating registrations of serial sections with distortions of the ground truths. <i>IEEE Access</i> , 2021, , 1-1.	4.2	1
36	Quality Guided Synchrotron Radiation Based X-Ray Tomographic Microscopy of Large Lung Samples.. , 2009, , .		0

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37	High Resolution 3-dimensional Imaging Of Ultrafine Particles In The Lung Parenchyma. , 2010, , .		0
38	Quantitative Assessment of Brain Tumor Radiation Treatment Reveals Decrease in Tumor-supporting Vessels. Microscopy and Microanalysis, 2018, 24, 374-375.	0.4	0
39	FRI-121-Portal hypertension in nodular regenerative hyperplasia is caused by vascular remodeling with extensive regression of portal vein branches. Journal of Hepatology, 2019, 70, e440-e441.	3.7	0
40	Tolerance of Normal Rabbit Facial Bones and Teeth to Synchrotron X-Ray Microbeam Irradiation. Radiation Research, 2021, 197, .	1.5	0
41	Adaptation mechanism of the adult zebrafish respiratory organ to endurance training. , 2020, 15, e0228333.		0
42	Adaptation mechanism of the adult zebrafish respiratory organ to endurance training. , 2020, 15, e0228333.		0
43	Adaptation mechanism of the adult zebrafish respiratory organ to endurance training. , 2020, 15, e0228333.		0
44	Adaptation mechanism of the adult zebrafish respiratory organ to endurance training. , 2020, 15, e0228333.		0