DaniÃ«l M Pelt

List of Publications by Year
in descending order

24 papers	670 citations	759233 12 h-index	713466 21 g-index
24 all docs	24 docs citations	24 times ranked	986 citing authors

#	Article	IF	Citations
1	Foam-like phantoms for comparing tomography algorithms. Journal of Synchrotron Radiation, 2022, 29, 254-265.	2.4	3
2	Cycloidal CT with CNN-based sinogram completion and in-scan generation of training data. Scientific Reports, 2022, 12, 893.	3.3	2
3	A tomographic workflow to enable deep learning for X-ray based foreign object detection. Expert Systems With Applications, 2022, 206, 117768.	7.6	4
4	Deep learning-based denoising for improved dose efficiency in EDX tomography of nanoparticles. Nanoscale, 2021, 13, 12242-12249.	5.6	12
5	Deep denoising for multi-dimensional synchrotron X-ray tomography without high-quality reference data. Scientific Reports, 2021, 11, 11895.	3.3	24
6	Improving reproducibility in synchrotron tomography using implementation-adapted filters. Journal of Synchrotron Radiation, 2021, 28, 1583-1597.	2.4	0
7	Exploring the potential of cycloidal computed tomography for advancing intraoperative specimen imaging. , 2021, , .		1
8	A Computationally Efficient Reconstruction Algorithm for Circular Cone-Beam Computed Tomography Using Shallow Neural Networks. Journal of Imaging, 2020, 6, 135.	3.0	6
9	Task-Driven Learned Hyperspectral Data Reduction Using End-to-End Supervised Deep Learning. Journal of Imaging, 2020, 6, 132.	3.0	6
10	Real-time segmentation for tomographic imaging. , 2020, , .		1
11	Realâ€Time Reconstruction of Arbitrary Slices for Quantitative and In Situ 3D Characterization of Nanoparticles. Particle and Particle Systems Characterization, 2020, 37, 2000073.	2.3	12
12	Pushing the temporal resolution in absorption and Zernike phase contrast nanotomography: enabling fast in situ experiments. Journal of Synchrotron Radiation, 2020, 27, 1339-1346.	2.4	31
13	Tackling the challenges of bioimage analysis. ELife, 2020, 9, .	6.0	5
14	On-the-Fly Machine Learning for Improving Image Resolution in Tomography. Applied Sciences (Switzerland), 2019, 9, 2445.	2.5	9
15	Segmentation of dental coneâ€beam CT scans affected by metal artifacts using a mixedâ€scale dense convolutional neural network. Medical Physics, 2019, 46, 5027-5035.	3.0	44
16	A mixed-scale dense convolutional neural network for image analysis. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 254-259.	7.1	185
17	TomoBank: a tomographic data repository for computational x-ray science. Measurement Science and Technology, 2018, 29, 034004.	2.6	55
18	Ring artifact reduction in synchrotron x-ray tomography through helical acquisition. Measurement Science and Technology, 2018, 29, 034002.	2.6	16

#	Article	IF	Citations
19	Improving Tomographic Reconstruction from Limited Data Using Mixed-Scale Dense Convolutional Neural Networks. Journal of Imaging, 2018, 4, 128.	3.0	73
20	Insight into 3D micro-CT data: exploring segmentation algorithms through performance metrics. Journal of Synchrotron Radiation, 2017, 24, 1065-1077.	2.4	13
21	Integration of TomoPy and the ASTRA toolbox for advanced processing and reconstruction of tomographic synchrotron data. Journal of Synchrotron Radiation, 2016, 23, 842-849.	2.4	100
22	Improved tomographic reconstruction of large-scale real-world data by filter optimization. Advanced Structural and Chemical Imaging, 2016, 2, 17.	4.0	9
23	Electron tomography based on highly limited data using a neural network reconstruction technique. Ultramicroscopy, 2015, 158, 81-88.	1.9	26
24	Improving Filtered Backprojection Reconstruction by Data-Dependent Filtering. IEEE Transactions on Image Processing, 2014, 23, 4750-4762.	9.8	33