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	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
2	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
3	Improving Tomographic Reconstruction from Limited Data Using Mixed-Scale Dense Convolutional Neural Networks. Journal of Imaging, 2018, 4, 128.	3.0	73
4	TomoBank: a tomographic data repository for computational x-ray science. Measurement Science and Technology, 2018, 29, 034004.	2.6	55
5	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
6	Improving Filtered Backprojection Reconstruction by Data-Dependent Filtering. IEEE Transactions on Image Processing, 2014, 23, 4750-4762.	9.8	33
7	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
8	Electron tomography based on highly limited data using a neural network reconstruction technique. Ultramicroscopy, 2015, 158, 81-88.	1.9	26
9	Deep denoising for multi-dimensional synchrotron X-ray tomography without high-quality reference data. Scientific Reports, 2021, 11, 11895.	3.3	24
10	Ring artifact reduction in synchrotron x-ray tomography through helical acquisition. Measurement Science and Technology, 2018, 29, 034002.	2.6	16
11	Insight into 3D micro-CT data: exploring segmentation algorithms through performance metrics. Journal of Synchrotron Radiation, 2017, 24, 1065-1077.	2.4	13
12	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
13	Deep learning-based denoising for improved dose efficiency in EDX tomography of nanoparticles. Nanoscale, 2021, 13, 12242-12249.	5.6	12
14	Improved tomographic reconstruction of large-scale real-world data by filter optimization. Advanced Structural and Chemical Imaging, 2016, 2, 17.	4.0	9
15	On-the-Fly Machine Learning for Improving Image Resolution in Tomography. Applied Sciences (Switzerland), 2019, 9, 2445.	2.5	9
16	A Computationally Efficient Reconstruction Algorithm for Circular Cone-Beam Computed Tomography Using Shallow Neural Networks. Journal of Imaging, 2020, 6, 135.	3.0	6
17	Task-Driven Learned Hyperspectral Data Reduction Using End-to-End Supervised Deep Learning. Journal of Imaging, 2020, 6, 132.	3.0	6
18	Tackling the challenges of bioimage analysis. ELife, 2020, 9, .	6.0	5

#	Article	IF	Citations
19	A tomographic workflow to enable deep learning for X-ray based foreign object detection. Expert Systems With Applications, 2022, 206, 117768.	7.6	4
20	Foam-like phantoms for comparing tomography algorithms. Journal of Synchrotron Radiation, 2022, 29, 254-265.	2.4	3
21	Cycloidal CT with CNN-based sinogram completion and in-scan generation of training data. Scientific Reports, 2022, 12, 893.	3.3	2
22	Real-time segmentation for tomographic imaging. , 2020, , .		1
23	Exploring the potential of cycloidal computed tomography for advancing intraoperative specimen imaging. , 2021, , .		1
24	Improving reproducibility in synchrotron tomography using implementation-adapted filters. Journal of Synchrotron Radiation, 2021, 28, 1583-1597.	2.4	0