Jakob Sauer JÃ¸rgensen

List of Publications by Year
in descending order

18 papers	539 citations	759233 12 h-index	940533 16 g-index
18 all docs	18 docs citations	18 times ranked	501 citing authors

#	Article	IF	Citations
1	Crystalline phase discriminating neutron tomography using advanced reconstruction methods. Journal Physics D: Applied Physics, 2021, 54, 325502.	2.8	10
2	Synergistic tomographic image reconstruction: part 1. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2021, 379, 20200189.	3.4	2
3	Core Imaging Library - Part I: a versatile Python framework for tomographic imaging. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2021, 379, 20200192.	3.4	29
4	Synergistic tomographic image reconstruction: part 2. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2021, 379, 20210111.	3.4	0
5	Core Imaging Library - Part II: multichannel reconstruction for dynamic and spectral tomography. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2021, 379, 20200193.	3.4	22
6	Enhanced hyperspectral tomography for bioimaging by spatiospectral reconstruction. Scientific Reports, 2021, 11, 20818.	3.3	10
7	Stopping Rules for Algebraic Iterative Reconstruction Methods in Computed Tomography. , 2021, , .		1
8	SIRF: Synergistic Image Reconstruction Framework. Computer Physics Communications, 2020, 249, 107087.	7.5	35
9	Laminography in the lab: imaging planar objects using a conventional x-ray CT scanner. Measurement Science and Technology, 2019, 30, 035401.	2.6	25
10	Joint image reconstruction method with correlative multi-channel prior for x-ray spectral computed tomography. Inverse Problems, 2018, 34, 064001.	2.0	35
11	AIR Tools II: algebraic iterative reconstruction methods, improved implementation. Numerical Algorithms, 2018, 79, 107-137.	1.9	123
12	Analyzing Reconstruction Artifacts from Arbitrary Incomplete X-ray CT Data. SIAM Journal on Imaging Sciences, 2018, 11, 2786-2814.	2.2	20
13	New software protocols for enabling laboratory based temporal CT. Review of Scientific Instruments, 2018, 89, 093702.	1.3	22
14	SparseBeads data: benchmarking sparsity-regularized computed tomography. Measurement Science and Technology, 2017, 28, 124005.	2.6	54
15	Reduction of variable-truncation artifacts from beam occlusion during <i>in situ</i> x-ray tomography. Measurement Science and Technology, 2017, 28, 124004.	2.6	6
16	Automated angular and translational tomographic alignment and application to phase-contrast imaging. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2017, 34, 1830.	1.5	13
17	Empirical average-case relation between undersampling and sparsity in X-ray CT. Inverse Problems and Imaging, 2015, 9, 431-446.	1.1	15
18	Quantifying Admissible Undersampling for Sparsity-Exploiting Iterative Image Reconstruction in X-Ray CT. IEEE Transactions on Medical Imaging, 2013, 32, 460-473.	8.9	117