Jan Aelterman

List of Publications by Year
in descending order

27 papers	482 citations	840776 11 h-index	752698 20 g-index
32 all docs	32 docs citations	32 times ranked	843 citing authors

#	Article	IF	Citations
1	Deep learning segmentation of wood fiber bundles in fiberboards. Composites Science and Technology, 2022, 221, 109287.	7.8	14
2	X-ray tomographic micro-particle velocimetry in porous media. Physics of Fluids, 2022, 34, .	4.0	11
3	Dynamic CT Reconstruction With Improved Temporal Resolution for Scanning of Fluid Flow in Porous Media. Water Resources Research, 2022, 58, .	4.2	1
4	Accelerating in vivo fast spin echo high angular resolution diffusion imaging with an isotropic resolution in mice through compressed sensing. Magnetic Resonance in Medicine, 2021, 85, 1397-1413.	3.0	3
5	An experimental study on the perceived quality of natively graded versus inverse tone mapped high dynamic range video content on television. Multimedia Tools and Applications, 2021, 80, 5559-5576.	3.9	2
6	Highlights Analysis System (HAnS) for Low Dynamic Range to High Dynamic Range Conversion of Cinematic Low Dynamic Range Content. IEEE Access, 2021, 9, 43938-43969.	4.2	3
7	Self-Absorption Correction in X-Ray Fluorescence- Computed Tomography With Deep Convolutional Neural Network. IEEE Transactions on Nuclear Science, 2021, 68, 1194-1206.	2.0	3
8	Geometrical and deep learning approaches for instance segmentation of CFRP fiber bundles in textile composites. Composite Structures, 2021, 277, 114626.	5.8	12
9	Variational and Deep Learning Segmentation of Very-Low-Contrast X-ray Computed Tomography Images of Carbon/Epoxy Woven Composites. Materials, 2020, 13, 936.	2.9	35
10	Reproducibility and intercorrelation of graph theoretical measures in structural brain connectivity networks. Medical Image Analysis, 2019, 52, 56-67.	11.6	57
11	An overview of state‑of‑the‑art image restoration in electron microscopy. Journal of Microscopy, 2018, 271, 239-254.	1.8	22
12	Sparse Recovery in Magnetic Resonance Imaging With a Markov Random Field Prior. IEEE Transactions on Medical Imaging, 2017, 36, 2104-2115.	8.9	11
13	Bayesian deconvolution of scanning electron microscopy images using point-spread function estimation and non-local regularization. , 2016, 2016, 443-447.		11
14	Image Degradation in Microscopic Images: Avoidance, Artifacts, and Solutions. Advances in Anatomy, Embryology and Cell Biology, 2016, 219, 41-67.	1.6	3
15	D-BRAIN: Anatomically Accurate Simulated Diffusion MRI Brain Data. PLoS ONE, 2016, 11, e0149778.	2.5	11
16	Informed constrained spherical deconvolution (iCSD). Medical Image Analysis, 2015, 24, 269-281.	11.6	36
17	The effect of Gibbs ringing artifacts on measures derived from diffusion MRI. NeuroImage, 2015, 120, 441-455.	4.2	94
18	Automatic High-Bandwidth Calibration and Reconstruction of Arbitrarily Sampled Parallel MRI. PLoS ONE, 2014, 9, e98937.	2.5	3

#	Article	IF	Citations
19	Isotropic non-white matter partial volume effects in constrained spherical deconvolution. Frontiers in Neuroinformatics, 2014, 8, 28.	2.5	51
20	A Novel Dictionary Based Computer Vision Method for the Detection of Cell Nuclei. PLoS ONE, 2013, 8, e54068.	2.5	4
21	Computationally Efficient Locally Adaptive Demosaicing of Color Filter Array Images Using the Dual-Tree Complex Wavelet Packet Transform. PLoS ONE, 2013, 8, e61846.	2.5	7
22	Combined non-local and multi-resolution sparsity prior in image restoration. , 2012, , .		6
23	Augmented Lagrangian based reconstruction of non-uniformly sub-Nyquist sampled MRI data. Signal Processing, 2011, 91, 2731-2742.	3.7	35
24	A Recursive Scheme for Computing Autocorrelation Functions of Decimated Complex Wavelet Subbands. IEEE Transactions on Signal Processing, 2010, 58, 3907-3912.	5.3	4
25	Compass: a joint framework for Parallel Imaging and Compressive Sensing in MRI. , 2010, , .		12
26	Ant Colony Optimisation-based radiation pattern manipulation algorithm for Electronically Steerable Array Radiator Antennas. IET Science, Measurement and Technology, 2009, 3, 302-311.	1.6	11
27	Efficient design of a low redundant Discrete Shearlet Transform. , 2009, , .		19