Michael W Loecher

List of Publications by Year
in descending order

17 papers	238 citations	1040056 9 h-index	996975 15 g-index
17 all docs	17 docs citations	17 times ranked	386 citing authors

#	Article	IF	Citations
1	Phase unwrapping in 4D MR flow with a 4D single-step laplacian algorithm. Journal of Magnetic Resonance Imaging, 2016, 43, 833-842.	3.4	62
2	Accelerating 4D flow MRI by exploiting vector field divergence regularization. Magnetic Resonance in Medicine, 2016, 75, 115-125.	3.0	24
3	CGâ€SENSE revisited: Results from the first ISMRM reproducibility challenge. Magnetic Resonance in Medicine, 2021, 85, 1821-1839.	3.0	22
4	Using synthetic data generation to train a cardiac motion tag tracking neural network. Medical Image Analysis, 2021, 74, 102223.	11.6	16
5	Estimating Aggregate Cardiomyocyte Strain Using $In~Vivo$ Diffusion and Displacement Encoded MRI. IEEE Transactions on Medical Imaging, 2020, 39, 656-667.	8.9	14
6	Reproducibility of global and segmental myocardial strain using cine DENSE at 3ÂT: a multicenter cardiovascular magnetic resonance study in healthy subjects and patients withÂheart disease. Journal of Cardiovascular Magnetic Resonance, 2022, 24, 23.	3.3	13
7	Performance of a novel piezoelectric motor at 4.7 T: applications and initial tests. Magnetic Resonance Imaging, 2008, 26, 426-432.	1.8	12
8	Estimating cardiomyofiber strain in vivo by solving a computational model. Medical Image Analysis, 2021, 68, 101932.	11.6	11
9	Timeâ€optimized 4D phase contrast MRI with realâ€time convex optimization of gradient waveforms and fast excitation methods. Magnetic Resonance in Medicine, 2019, 82, 213-224.	3.0	10
10	Optimization methods for magnetic resonance imaging gradient waveform design. NMR in Biomedicine, 2020, 33, e4308.	2.8	10
11	On the impact of vessel wall stiffness on quantitative flow dynamics in a synthetic model of the thoracic aorta. Scientific Reports, 2021, 11, 6703.	3.3	10
12	Velocity reconstruction with nonconvex optimization for lowâ€velocityâ€encoding phaseâ€contrast <scp>MRI</scp>. Magnetic Resonance in Medicine, 2018, 80, 42-52.	3.0	8
13	High-Resolution Ex Vivo Microstructural MRI After Restoring Ventricular Geometry via 3D Printing. Lecture Notes in Computer Science, 2019, 11504, 177-186.	1.3	8
14	Comparison of divergence-free algorithms for 3D MRI with three-directional velocity encoding. Journal of Cardiovascular Magnetic Resonance, 2012, 14, .	3.3	6
15	A gradient optimization toolbox for general purpose timeâ€optimal MRI gradient waveform design. Magnetic Resonance in Medicine, 2020, 84, 3234-3245.	3.0	5
16	Arbitrary Point Tracking with Machine Learning to Measure Cardiac Strains in Tagged MRI. Lecture Notes in Computer Science, 2021, 12738, 213-222.	1.3	5
17	Virtual injections using 4D flow MRI with displacement corrections and constrained probabilistic streamlines. Magnetic Resonance in Medicine, 2022, 87, 2495-2511.	3.0	2