

# Michael W Loecher

## List of Publications by Year in descending order

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17  
papers

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citations

1039406

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996533

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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. <i>Journal of Magnetic Resonance Imaging</i> , 2016, 43, 833-842.	1.9	62
2	Accelerating 4D flow MRI by exploiting vector field divergence regularization. <i>Magnetic Resonance in Medicine</i> , 2016, 75, 115-125.	1.9	24
3	CGSENSE revisited: Results from the first ISMRM reproducibility challenge. <i>Magnetic Resonance in Medicine</i> , 2021, 85, 1821-1839.	1.9	22
4	Using synthetic data generation to train a cardiac motion tag tracking neural network. <i>Medical Image Analysis</i> , 2021, 74, 102223.	7.0	16
5	Estimating Aggregate Cardiomyocyte Strain Using <i>In-Vivo</i> Diffusion and Displacement Encoded MRI. <i>IEEE Transactions on Medical Imaging</i> , 2020, 39, 656-667.	5.4	14
6	Reproducibility of global and segmental myocardial strain using cine DENSE at 3T: a multicenter cardiovascular magnetic resonance study in healthy subjects and patients with heart disease. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2022, 24, 23.	1.6	13
7	Performance of a novel piezoelectric motor at 4.7 T: applications and initial tests. <i>Magnetic Resonance Imaging</i> , 2008, 26, 426-432.	1.0	12
8	Estimating cardiomyofiber strain in vivo by solving a computational model. <i>Medical Image Analysis</i> , 2021, 68, 101932.	7.0	11
9	Time-optimized 4D phase contrast MRI with real-time convex optimization of gradient waveforms and fast excitation methods. <i>Magnetic Resonance in Medicine</i> , 2019, 82, 213-224.	1.9	10
10	Optimization methods for magnetic resonance imaging gradient waveform design. <i>NMR in Biomedicine</i> , 2020, 33, e4308.	1.6	10
11	On the impact of vessel wall stiffness on quantitative flow dynamics in a synthetic model of the thoracic aorta. <i>Scientific Reports</i> , 2021, 11, 6703.	1.6	10
12	Velocity reconstruction with nonconvex optimization for low-velocity encoding phase-contrast MRI. <i>Magnetic Resonance in Medicine</i> , 2018, 80, 42-52.	1.9	8
13	High-Resolution Ex Vivo Microstructural MRI After Restoring Ventricular Geometry via 3D Printing. <i>Lecture Notes in Computer Science</i> , 2019, 11504, 177-186.	1.0	8
14	Comparison of divergence-free algorithms for 3D MRI with three-directional velocity encoding. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2012, 14, .	1.6	6
15	A gradient optimization toolbox for general purpose time-optimal MRI gradient waveform design. <i>Magnetic Resonance in Medicine</i> , 2020, 84, 3234-3245.	1.9	5
16	Arbitrary Point Tracking with Machine Learning to Measure Cardiac Strains in Tagged MRI. <i>Lecture Notes in Computer Science</i> , 2021, 12738, 213-222.	1.0	5
17	Virtual injections using 4D flow MRI with displacement corrections and constrained probabilistic streamlines. <i>Magnetic Resonance in Medicine</i> , 2022, 87, 2495-2511.	1.9	2