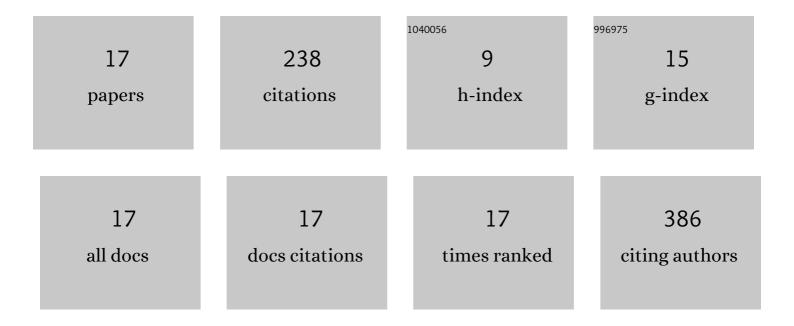
Michael W Loecher

List of Publications by Year in descending order

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| # | 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€ŧime 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 |