Sebastian WeingÃ¤rtner

List of Publications by Year
in descending order

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61 papers	1,720 citations	394286 19 h-index	289141 40 g-index
61 all docs	61 docs citations	61 times ranked	1750 citing authors

#	Article	IF	Citations
1	Emerging Techniques in Cardiac Magnetic Resonance Imaging. Journal of Magnetic Resonance Imaging, 2022, 55, 1043-1059.	1.9	14
2	Development, validation, qualification, and dissemination of quantitative MR methods: Overview and recommendations by the ISMRM quantitative MR study group. Magnetic Resonance in Medicine, 2022, 87, 1184-1206.	1.9	21
3	Cardiac MR: From Theory to Practice. Frontiers in Cardiovascular Medicine, 2022, 9, 826283.	1.1	18
4	Saturation-pulse prepared heart-rate independent inversion-recovery (SAPPHIRE) biventricular T1 mapping: inter-field strength, head-to-head comparison of diastolic, systolic and dark-blood measurements. BMC Medical Imaging, 2022, 22, .	1.4	0
5	Improved simultaneous multislice cardiac MRI using readout concatenated kâ€space SPIRiT (ROCKâ€SPIRiT). Magnetic Resonance in Medicine, 2021, 85, 3036-3048.	1.9	10
6	Accelerated white matter lesion analysis based on simultaneous T₁ and T₂^{â^—} quantification using magnetic resonance fingerprinting and deep learning. Magnetic Resonance in Medicine, 2021, 86, 471-486.	1.9	12
7	Functional MRI of neuro-electro-magnetic oscillations: Statistical processing in the presence of system imperfections. , 2021, , .		2
8	Freeâ€breathing simultaneous T₁, T₂, and T₂^{â^—} quantification in the myocardium. Magnetic Resonance in Medicine, 2021, 86, 1226-1240.	1.9	11
9	Magnetic Resonance Imaging compatible Elastic Loading Mechanism (MELM): A minimal footprint device for MR imaging under load. , 2021, 2021, 3721-3724.		1
10	Low-Rank Tensor Models for Improved Multidimensional MRI: Application to Dynamic Cardiac T_1 Mapping. IEEE Transactions on Computational Imaging, 2020, 6, 194-207.	2.6	27
11	Magnetic resonance fingerprinting for simultaneous renal T₁ and T₂[*] mapping in a single breathâ€hold. Magnetic Resonance in Medicine, 2020, 83, 1940-1948.	1.9	18
12	Improved Simultaneous Multi-Slice Imaging for Perfusion Cardiac MRI Using Outer Volume Suppression and Regularized Reconstruction. , 2020, , .		4
13	Towards measuring the effect of flow in blood T ₁ assessed in a flow phantom and in vivo. Physics in Medicine and Biology, 2020, 65, 095001.	1.6	3
14	Accelerated coronary MRI with sRAKI: A database-free self-consistent neural network k-space reconstruction for arbitrary undersampling. PLoS ONE, 2020, 15, e0229418.	1.1	25
15	Accelerated Coronary Mri Using 3D Spirit-Raki With Sparsity Regularization. , 2019, 2019, 1692-1695.		13
16	Robust Online Spike Recovery for High-Density Electrode Recordings using Convolutional Compressed Sensing. , 2019, , .		0
17	Scan-Specific Residual Convolutional Neural Networks for Fast MRI Using Residual RAKI. , 2019, , .		6
18	Functional LGE Imaging: Cardiac Phase-Resolved Assessment of Focal Fibrosis. , 2019, 2019, 3999-4003.		0

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19	Improved Regularized Reconstruction for Simultaneous Multi-Slice Cardiac MRI T₁ Mapping. , 2019, 2019, .		6
20	Optimized fast GPU implementation of robust artificial-neural-networks for k-space interpolation (RAKI) reconstruction. PLoS ONE, 2019, 14, e0223315.	1.1	6
21	Scanâ€specific robust artificialâ€neuralâ€networks for kâ€space interpolation (RAKI) reconstruction: Databaseâ€free deep learning for fast imaging. Magnetic Resonance in Medicine, 2019, 81, 439-453.	1.9	253
22	Saturation-Recovery Myocardial T1-Mapping during Systole: Accurate and Robust Quantification in the Presence of Arrhythmia. Scientific Reports, 2018, 8, 5251.	1.6	12
23	Time efficient whole-brain coverage with MR Fingerprinting using slice-interleaved echo-planar-imaging. Scientific Reports, 2018, 8, 6667.	1.6	29
24	Oxygen extraction fraction mapping at 3 Tesla using an artificial neural network: A feasibility study. Magnetic Resonance in Medicine, 2018, 79, 890-899.	1.9	15
25	Accelerated Simultaneous Multi-Slice MRI using Subject-Specific Convolutional Neural Networks. , 2018, 2018, 1636-1640.		6
26	Fast GPU Implementation of a Scan-Specific Deep Learning Reconstruction for Accelerated Magnetic Resonance Imaging. , 2018, 2018, 399-403.		3
27	Subject-Specific Convolutional Neural Networks for Accelerated Magnetic Resonance Imaging. , 2018, 2018, .		1
28	Temporally resolved parametric assessment of Zâ€magnetization recovery (TOPAZ): Dynamic myocardial T₁ mapping using a cine steadyâ€state lookâ€locker approach. Magnetic Resonance in Medicine, 2018, 79, 2087-2100.	1.9	24
29	Black-blood native T₁ mapping: Blood signal suppression for reduced partial voluming in the myocardium. Magnetic Resonance in Medicine, 2017, 78, 484-493.	1.9	12
30	Simultaneous multislice imaging for native myocardial T₁ mapping: Improved spatial coverage in a single breath-hold. Magnetic Resonance in Medicine, 2017, 78, 462-471.	1.9	32
31	Magnetic resonance fingerprinting using echoâ€planar imaging: Joint quantification of T₁ and relaxation times. Magnetic Resonance in Medicine, 2017, 78, 1724-1733.	1.9	55
32	Diffusion parameter mapping with the combined intravoxel incoherent motion and kurtosis model using artificial neural networks at 3ÂT. NMR in Biomedicine, 2017, 30, e3833.	1.6	49
33	Gaussian signal relaxation around spin echoes: Implications for precise reversible transverse relaxation quantification of pulmonary tissue at 1.5 and 3 Tesla. Magnetic Resonance in Medicine, 2017, 77, 1938-1945.	1.9	13
34	T1 mapping in cardiac MRI. Heart Failure Reviews, 2017, 22, 415-430.	1.7	97
35	Motion-robust cardiac B1+ mapping at 3T using interleaved bloch-siegert shifts. Magnetic Resonance in Medicine, 2017, 78, 670-677.	1.9	11
36	Multi-scale locally low-rank noise reduction for high-resolution dynamic quantitative cardiac MRI. , 2017, 2017, 1473-1476.		11

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37	Locally Low-Rank tensor regularization for high-resolution quantitative dynamic MRI. , 2017, 2017, .		11
38	Joint myocardial T₁ and T₂ mapping using a combination of saturation recovery and T₂â€preparation. Magnetic Resonance in Medicine, 2016, 76, 888-896.	1.9	57
39	Comparison of spoiled gradient echo and steadyâ€state freeâ€precession imaging for native myocardial T₁ mapping using the sliceâ€interleaved T₁ mapping (STONE) sequence. NMR in Biomedicine, 2016, 29, 1486-1496.	1.6	10
40	Black-blood T1 mapping at 3T: Reduced partial-voluming using adiabatic MSDE preparation. Journal of Cardiovascular Magnetic Resonance, 2016, 18, W5.	1.6	3
41	Myocardial T1-mapping at 3T using saturation-recovery: reference values, precision and comparison with MOLLI. Journal of Cardiovascular Magnetic Resonance, 2016, 18, 84.	1.6	70
42	Impact of motion correction on reproducibility and spatial variability of quantitative myocardial T2 mapping. Journal of Cardiovascular Magnetic Resonance, 2015, 17, 46.	1.6	21
43	Freeâ€breathing postâ€contrast threeâ€dimensional T₁ mapping: Volumetric assessment of myocardial T₁ values. Magnetic Resonance in Medicine, 2015, 73, 214-222.	1.9	35
44	Adaptive registration of varying contrastâ€weighted images for improved tissue characterization (ARCTIC): Application to T₁ mapping. Magnetic Resonance in Medicine, 2015, 73, 1469-1482.	1.9	63
45	Freeâ€breathing multislice native myocardial T₁ mapping using the sliceâ€interleaved T₁ (STONE) sequence. Magnetic Resonance in Medicine, 2015, 74, 115-124.	1.9	83
46	Improved quantitative myocardial T₂ mapping: Impact of the fitting model. Magnetic Resonance in Medicine, 2015, 74, 93-105.	1.9	57
47	Freeâ€breathing combined threeâ€dimensional phase sensitive late gadolinium enhancement and T₁ mapping for myocardial tissue characterization. Magnetic Resonance in Medicine, 2015, 74, 1032-1041.	1.9	27
48	Scan time reduction in 23Na-Magnetic Resonance Imaging using the chemical shift imaging sequence: Evaluation of an iterative reconstruction method. Zeitschrift Fur Medizinische Physik, 2015, 25, 275-286.	0.6	11
49	Joint myocardial T1 and T2 mapping. Journal of Cardiovascular Magnetic Resonance, 2015, 17, Q1.	1.6	0
50	Reproducibility of free-breathing multi-slice native myocardial T1 mapping using the slice-interleaved T1 (STONE) sequence. Journal of Cardiovascular Magnetic Resonance, 2015, 17, W29.	1.6	0
51	Motion correction for free breathing quantitative myocardial t2 mapping: impact on reproducibility and spatial variability. Journal of Cardiovascular Magnetic Resonance, 2015, 17, W5.	1.6	2
52	Free-breathing myocardial T1 mapping using magnetization-prepared slice interleaved spoiled gradient echo imaging. Journal of Cardiovascular Magnetic Resonance, 2015, 17, W7.	1.6	0
53	On the selection of sampling points for myocardial T₁ mapping. Magnetic Resonance in Medicine, 2015, 73, 1741-1753.	1.9	31
54	Combined saturation/inversion recovery sequences for improved evaluation of scar and diffuse fibrosis in patients with arrhythmia or heart rate variability. Magnetic Resonance in Medicine, 2014, 71, 1024-1034.	1.9	149

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55	Accuracy, Precision, and Reproducibility of Four T1 Mapping Sequences: A Head-to-Head Comparison of MOLLI, ShMOLLI, SASHA, and SAPPHIRE. Radiology, 2014, 272, 683-689.	3.6	255
56	Selection of sampling points for saturation recovery based myocardial T1 mapping. Journal of Cardiovascular Magnetic Resonance, 2014, 16, W32.	1.6	1
57	Accuracy and reproducibility of four T1 mapping sequences: a head-to-head comparison of MOLLI, ShMOLLI, SASHA, and SAPPHIRE. Journal of Cardiovascular Magnetic Resonance, 2014, 16, O26.	1.6	3
58	Improved 3D late gadolinium enhancement MRI for patients with arrhythmia or heart rate variability. Journal of Cardiovascular Magnetic Resonance, 2013, 15, P29.	1.6	1
59	Detection of left ventricular diffuse fibrosis with quantitative T1 mapping in patients with paroxysmal atrial fibrillation. Journal of Cardiovascular Magnetic Resonance, 2013, 15, P117.	1.6	0
60	Heart-rate independent myocardial T1-mapping using combined saturation and inversion preparation pulses. Journal of Cardiovascular Magnetic Resonance, 2013, 15, P46.	1.6	10
61	Joint image reconstruction and motion parameter estimation for free-breathing navigator-gated cardiac MRI. Proceedings of SPIE, 2013, , .	0.8	0