Tobias Wech

List of Publications by Year
in descending order

35 papers	439 citations	840776 11 h-index	794594 19 g-index
37 all docs	37 docs citations	37 times ranked	707 citing authors

#	Article	IF	Citations
1	Accelerating cineâ€MR imaging in mouse hearts using compressed sensing. Journal of Magnetic Resonance Imaging, 2011, 34, 1072-1079.	3.4	39
2	UTEâ€SENCEFUL: first results for 3D highâ€resolution lung ventilation imaging. Magnetic Resonance in Medicine, 2019, 81, 2464-2473.	3.0	37
3	Modelâ€based Acceleration of Parameter mapping (MAP) for saturation prepared radially acquired data. Magnetic Resonance in Medicine, 2013, 70, 1524-1534.	3.0	33
4	High resolution myocardial first-pass perfusion imaging with extended anatomic coverage. Journal of Magnetic Resonance Imaging, 2014, 39, 1575-1587.	3.4	28
5	An intravoxel oriented flow model for diffusionâ€weighted imaging of the kidney. NMR in Biomedicine, 2016, 29, 1403-1413.	2.8	25
6	Model-Based Acceleration of Look-Locker T1 Mapping. PLoS ONE, 2015, 10, e0122611.	2.5	24
7	Gradient waveform preâ€emphasis based on the gradient system transfer function. Magnetic Resonance in Medicine, 2018, 80, 1521-1532.	3.0	24
8	Resolution evaluation of MR images reconstructed by iterative thresholding algorithms for compressed sensing. Medical Physics, 2012, 39, 4328-4338.	3.0	20
9	Whole-Heart Cine MRI in a Single Breath-Hold â€“ AÂCompressed Sensing Accelerated 3D Acquisition TechniqueÂfor Assessment of Cardiac Function. RoFo Fortschritte Auf Dem Gebiet Der Rontgenstrahlen Und Der Bildgebenden Verfahren, 2013, 186, 37-41.	1.3	18
10	Robust motion correction in CEST imaging exploiting lowâ€rank approximation of the zâ€spectrum. Magnetic Resonance in Medicine, 2018, 80, 1979-1988.	3.0	16
11	Using self-consistency for an iterative trajectory adjustment (SCITA). Magnetic Resonance in Medicine, 2015, 73, 1151-1157.	3.0	15
12	Deep learningâ€based cardiac cine segmentation: Transfer learning application to 7T ultrahighâ€field MRI. Magnetic Resonance in Medicine, 2021, 86, 2179-2191.	3.0	14
13	Freeâ€breathing selfâ€gated 4D lung MRI using waveâ€CAIPI. Magnetic Resonance in Medicine, 2020, 84, 3223-3233.	3.0	12
14	The temperature dependence of gradient system response characteristics. Magnetic Resonance in Medicine, 2020, 83, 1519-1527.	3.0	11
15	Cardiac realâ€time MRI using a preâ€emphasized spiral acquisition based on the gradient system transfer function. Magnetic Resonance in Medicine, 2021, 85, 2747-2760.	3.0	11
16	Consideration of slice profiles in inversion recovery Lookâ€“Locker relaxation parameter mapping. Magnetic Resonance Imaging, 2014, 32, 1021-1030.	1.8	10
17	Development of Real-Time Magnetic Resonance Imaging of Mouse Hearts at 9.4 Teslaâ€" Simulations and First Application. IEEE Transactions on Medical Imaging, 2016, 35, 912-920.	8.9	10
18	Self-configuring nnU-net pipeline enables fully automatic infarct segmentation in late enhancement MRI after myocardial infarction. European Journal of Radiology, 2021, 141, 109817.	2.6	10

#	Article	IF	Citations
19	Deep learning-based segmentation of the lung in MR-images acquired by a stack-of-spirals trajectory at ultra-short echo-times. BMC Medical Imaging, 2021, 21, 79.	2.7	7
20	Measurement accuracy of different active tracking sequences for interventional MRI. Journal of Magnetic Resonance Imaging, 2014, 40, 490-495.	3.4	6
21	Multifrequency reconstruction for frequencyâ€modulated b<scp>SSFP</scp>. Magnetic Resonance in Medicine, 2017, 78, 2226-2235.	3.0	6
22	Comparison of Turbo Spin Echo and Echo Planar Imaging for intravoxel incoherent motion and diffusion tensor imaging of the kidney at 3 Tesla. Zeitschrift Fur Medizinische Physik, 2017, 27, 193-201.	1.5	6
23	Non-contrast pulmonary perfusion MRI in patients with cystic fibrosis. European Journal of Radiology, 2021, 139, 109653.	2.6	6
24	Accelerated radial Fourier-velocity encoding using compressed sensing. Zeitschrift Fur Medizinische Physik, 2014, 24, 190-200.	1.5	5
25	Realâ€time cardiac <scp>MRI</scp> using an undersampled spiral kâ€space trajectory and a reconstruction based on a variational network. Magnetic Resonance in Medicine, 2022, 88, 2167-2178.	3.0	5
26	Anti-CCP status determines the power Doppler oscillation pattern in rheumatoid arthritis: a prospective study. Rheumatology International, 2016, 36, 1671-1675.	3.0	4
27	Single-shot late Gd enhancement imaging of myocardial infarction with retrospectively adjustable contrast and heart-phase. Magnetic Resonance Imaging, 2018, 47, 48-53.	1.8	4
28	A compressed sensing accelerated radial MS-CAIPIRINHA technique for extended anatomical coverage in myocardial perfusion studies on PET/MR systems. Physica Medica, 2019, 64, 157-165.	0.7	4
29	Accelerated aortic 4D flow MRI with waveâ€CAIPI. Magnetic Resonance in Medicine, 2021, 85, 2595-2607.	3.0	4
30	Power-Doppler perfusion phenotype in RA patients is dependent on anti-citrullinated peptide antibody status, not on rheumatoid factor. Rheumatology International, 2019, 39, 1019-1025.	3.0	3
31	Field camera versus phantom-based measurement of the gradient system transfer function (GSTF) with dwell time compensation. Magnetic Resonance Imaging, 2020, 71, 125-131.	1.8	3
32	Realâ€time Triggered RAdial Singleâ€Shot Inversion recovery for arrhythmiaâ€insensitive myocardial T1 mapping: motion phantom validation and in vivo comparison. Magnetic Resonance in Medicine, 2019, 81, 1714-1725.	3.0	2
33	A dataâ€driven semantic segmentation model for direct cardiac functional analysis based on undersampled radial MR cine series. Magnetic Resonance in Medicine, 2022, 87, 972-983.	3.0	2
34	Evaluation of combined late gadoliniumâ€enhancement and functional cardiac magnetic resonance imaging using spiral realâ€time acquisition. NMR in Biomedicine, 2022, 35, e4732.	2.8	2
35	Frequency-modulated bSSFP for phase-sensitive separation of water and fat. Magnetic Resonance Imaging, 2018, 53, 82-88.	1.8	0