Torben Schneider

List of Publications by Year
in descending order

55 papers	4,679 citations	279487 23 h-index	161609 54 g-index
58 all docs	58 docs citations	58 times ranked	5597 citing authors

#	Article	IF	Citations
1	An MR fingerprinting approach for quantitative inhomogeneous magnetization transfer imaging. Magnetic Resonance in Medicine, 2022, 87, 220-235.	1.9	7
2	Generalized low‐rank nonrigid motion‐corrected reconstruction for MR fingerprinting. Magnetic Resonance in Medicine, 2022, 87, 746-763.	1.9	22
3	Ongoing microstructural changes in the cervical cord underpin disability progression in early primary progressive multiple sclerosis. Multiple Sclerosis Journal, 2021, 27, 28-38.	1.4	11
4	T1, T2, and Fat Fraction Cardiac MR Fingerprinting: Preliminary Clinical Evaluation. Journal of Magnetic Resonance Imaging, 2021, 53, 1253-1265.	1.9	27
5	Shear wave cardiovascular MR elastography using intrinsic cardiac motion for transducer-free non-invasive evaluation of myocardial shear wave velocity. Scientific Reports, 2021, 11, 1403.	1.6	9
6	Deep Learning Model Fitting for Diffusion-Relaxometry: A Comparative Study. Mathematics and Visualization, 2021, , 159-172.	0.4	5
7	Influence of the arterial input sampling location on the diagnostic accuracy of cardiovascular magnetic resonance stressÂmyocardial perfusion quantification. Journal of Cardiovascular Magnetic Resonance, 2021, 23, 35.	1.6	6
8	Feasibility of Data-Driven, Model-Free Quantitative MRI Protocol Design: Application to Brain and Prostate Diffusion-Relaxation Imaging. Frontiers in Physics, 2021, 9, .	1.0	2
9	Whole‐heart T 1 mapping using a 2D fat image navigator for respiratory motion compensation. Magnetic Resonance in Medicine, 2020, 83, 178-187.	1.9	6
10	Reduced neurite density in the brain and cervical spinal cord in relapsing–remitting multiple sclerosis: A NODDI study. Multiple Sclerosis Journal, 2020, 26, 1647-1657.	1.4	48
11	Water–fat Dixon cardiac magnetic resonance fingerprinting. Magnetic Resonance in Medicine, 2020, 83, 2107-2123.	1.9	48
12	NAA is a Marker of Disability in Secondary-Progressive MS: A Proton MR Spectroscopic Imaging Study. American Journal of Neuroradiology, 2020, 41, 2209-2218.	1.2	10
13	3D free‐breathing cardiac magnetic resonance fingerprinting. NMR in Biomedicine, 2020, 33, e4370.	1.6	37
14	Pixel‐wise assessment of cardiovascular magnetic resonance first‐pass perfusion using a cardiac phantom mimicking transmural myocardial perfusion gradients. Magnetic Resonance in Medicine, 2020, 84, 2871-2884.	1.9	4
15	Multi‐parametric liver tissue characterization using MR fingerprinting: Simultaneous T_1, T_2, T_2*, and fat fraction mapping. Magnetic Resonance in Medicine, 2020, 84, 2625-2635.	1.9	50
16	Multi-parametric quantitative in vivo spinal cord MRI with unified signal readout and image denoising. NeuroImage, 2020, 217, 116884.	2.1	34
17	Translating pH‐sensitive PROgressive saturation for QUantifying Exchange rates using Saturation Times (PRO‐QUEST) MRI to a 3T clinical scanner. Magnetic Resonance in Medicine, 2020, 84, 1734-1746.	1.9	1
18	Faster 3D saturation-recovery based myocardial T1 mapping using a reduced number of saturation points and denoising. PLoS ONE, 2020, 15, e0221071.	1.1	4

#	Article	IF	Citations
19	Fast bound pool fraction mapping via steady‐state magnetization transfer saturation using single‐shot EPI. Magnetic Resonance in Medicine, 2019, 82, 1025-1040.	1.9	8
20	Sparsity and locally low rank regularization for MR fingerprinting. Magnetic Resonance in Medicine, 2019, 81, 3530-3543.	1.9	46
21	Relevance of time‐dependence for clinically viable diffusion imaging of the spinal cord. Magnetic Resonance in Medicine, 2019, 81, 1247-1264.	1.9	29
22	Rigid motion‐corrected magnetic resonance fingerprinting. Magnetic Resonance in Medicine, 2019, 81, 947-961.	1.9	37
23	Multiband RF pulse design for realistic gradient performance. Magnetic Resonance in Medicine, 2019, 81, 362-376.	1.9	11
24	An optimized framework for quantitative magnetization transfer imaging of the cervical spinal cord in vivo. Magnetic Resonance in Medicine, 2018, 79, 2576-2588.	1.9	15
25	Fast and reproducible in vivo T_1 mapping of the human cervical spinal cord. Magnetic Resonance in Medicine, 2018, 79, 2142-2148.	1.9	20
26	An efficient sequence for fetal brain imaging at 3T with enhanced T_1 contrast and motion robustness. Magnetic Resonance in Medicine, 2018, 80, 137-146.	1.9	5
27	Technical note: Accelerated nonrigid motion‐compensated isotropic 3D coronary MR angiography. Medical Physics, 2018, 45, 214-222.	1.6	19
28	Quiet echo planar imaging for functional and diffusion MRI. Magnetic Resonance in Medicine, 2018, 79, 1447-1459.	1.9	35
29	Slice-level diffusion encoding for motion and distortion correction. Medical Image Analysis, 2018, 48, 214-229.	7.0	22
30	Accelerated magnetic resonance fingerprinting using soft-weighted key-hole (MRF-SOHO). PLoS ONE, 2018, 13, e0201808.	1.1	14
31	3D myocardial T_1 mapping using saturation recovery. Journal of Magnetic Resonance Imaging, 2017, 46, 218-227.	1.9	43
32	Machine learning based compartment models with permeability for white matter microstructure imaging. NeuroImage, 2017, 150, 119-135.	2.1	70
33	Diffusion MRI microstructure models with in vivo human brain Connectome data: results from a multi‐group comparison. NMR in Biomedicine, 2017, 30, e3734.	1.6	33
34	Neurite dispersion: a new marker of multiple sclerosis spinal cord pathology?. Annals of Clinical and Translational Neurology, 2017, 4, 663-679.	1.7	238
35	Sensitivity of multi-shell NODDI to multiple sclerosis white matter changes: a pilot study. Functional Neurology, 2017, 32, 97.	1.3	87
36	ZOOM or Non-ZOOM? Assessing Spinal Cord Diffusion Tensor Imaging Protocols for Multi-Centre Studies. PLoS ONE, 2016, 11, e0155557.	1.1	58

#	Article	IF	Citations
37	An Integrated Software Application for Non-invasive Assessment of Local Aortic Haemodynamic Parameters. Procedia Computer Science, 2016, 90, 2-8.	1.2	2
38	A framework for optimal whole-sample histological quantification of neurite orientation dispersion in the human spinal cord. Journal of Neuroscience Methods, 2016, 273, 20-32.	1.3	27
39	Bingham–NODDI: Mapping anisotropic orientation dispersion of neurites using diffusion MRI. NeuroImage, 2016, 133, 207-223.	2.1	143
40	Evidence for early neurodegeneration in the cervical cord of patients with primary progressive multiple sclerosis. Brain, 2015, 138, 1568-1582.	3.7	51
41	In vivo mapping of human spinal cord microstructure at 300 mT/m. NeuroImage, 2015, 118, 494-507.	2.1	69
42	Neurite orientation dispersion and density imaging of the healthy cervical spinal cord in vivo. NeuroImage, 2015, 111, 590-601.	2.1	106
43	White matter compartment models for in vivo diffusion MRI at 300 mT/m. NeuroImage, 2015, 118, 468-483.	2.1	53
44	Nonconventional MRI and microstructural cerebral changes in multiple sclerosis. Nature Reviews Neurology, 2015, 11, 676-686.	4.9	109
45	Multi-channel registration of fractional anisotropy and T1-weighted images in the presence of atrophy: application to multiple sclerosis. Functional Neurology, 2015, 30, 245-56.	1.3	6
46	Viable and fixed white matter: Diffusion magnetic resonance comparisons and contrasts at physiological temperature. Magnetic Resonance in Medicine, 2014, 72, 1151-1161.	1.9	22
47	A ranking of diffusion MRI compartment models with in vivo human brain data. Magnetic Resonance in Medicine, 2014, 72, 1785-1792.	1.9	73
48	Ranking diffusion-MRI models with in-vivo human brain data. , 2013, , .		1
49	Diffusion MRI-based cortical complexity alterations associated with executive function in multiple sclerosis. Journal of Magnetic Resonance Imaging, 2013, 38, 54-63.	1.9	17
50	The Importance of Being Dispersed: A Ranking of Diffusion MRI Models for Fibre Dispersion Using In Vivo Human Brain Data. Lecture Notes in Computer Science, 2013, 16, 74-81.	1.0	13
51	Compartment models of the diffusion MR signal in brain white matter: A taxonomy and comparison. NeuroImage, 2012, 59, 2241-2254.	2.1	372
52	NODDI: Practical in vivo neurite orientation dispersion and density imaging of the human brain. NeuroImage, 2012, 61, 1000-1016.	2.1	2,398
53	Degeneration of the Injured Cervical Cord Is Associated with Remote Changes in Corticospinal Tract Integrity and Upper Limb Impairment. PLoS ONE, 2012, 7, e51729.	1.1	62
54	A new approach to structural integrity assessment based on axial and radial diffusivities. Functional Neurology, 2012, 27, 85-90.	1.3	20

#	Article	IF	Citations
55	In-Vivo Estimates of Axonal Characteristics Using Optimized Diffusion MRI Protocols for Single Fibre Orientation. Lecture Notes in Computer Science, 2010, 13, 623-630.	1.0	4