

# Torben Schneider

## List of Publications by Year in descending order

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Version: 2024-02-01

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	NODDI: Practical in vivo neurite orientation dispersion and density imaging of the human brain. <i>NeuroImage</i> , 2012, 61, 1000-1016.	2.1	2,398
2	Compartment models of the diffusion MR signal in brain white matter: A taxonomy and comparison. <i>NeuroImage</i> , 2012, 59, 2241-2254.	2.1	372
3	Neurite dispersion: a new marker of multiple sclerosis spinal cord pathology?. <i>Annals of Clinical and Translational Neurology</i> , 2017, 4, 663-679.	1.7	238
4	Binghamâ€œNODDI: Mapping anisotropic orientation dispersion of neurites using diffusion MRI. <i>NeuroImage</i> , 2016, 133, 207-223.	2.1	143
5	Nonconventional MRI and microstructural cerebral changes in multiple sclerosis. <i>Nature Reviews Neurology</i> , 2015, 11, 676-686.	4.9	109
6	Neurite orientation dispersion and density imaging of the healthy cervical spinal cord in vivo. <i>NeuroImage</i> , 2015, 111, 590-601.	2.1	106
7	Sensitivity of multi-shell NODDI to multiple sclerosis white matter changes: a pilot study. <i>Functional Neurology</i> , 2017, 32, 97.	1.3	87
8	A ranking of diffusion MRI compartment models with in vivo human brain data. <i>Magnetic Resonance in Medicine</i> , 2014, 72, 1785-1792.	1.9	73
9	Machine learning based compartment models with permeability for white matter microstructure imaging. <i>NeuroImage</i> , 2017, 150, 119-135.	2.1	70
10	In vivo mapping of human spinal cord microstructure at 300 mT/m. <i>NeuroImage</i> , 2015, 118, 494-507.	2.1	69
11	Degeneration of the Injured Cervical Cord Is Associated with Remote Changes in Corticospinal Tract Integrity and Upper Limb Impairment. <i>PLoS ONE</i> , 2012, 7, e51729.	1.1	62
12	ZOOM or Non-ZOOM? Assessing Spinal Cord Diffusion Tensor Imaging Protocols for Multi-Centre Studies. <i>PLoS ONE</i> , 2016, 11, e0155557.	1.1	58
13	White matter compartment models for in vivo diffusion MRI at 300 mT/m. <i>NeuroImage</i> , 2015, 118, 468-483.	2.1	53
14	Evidence for early neurodegeneration in the cervical cord of patients with primary progressive multiple sclerosis. <i>Brain</i> , 2015, 138, 1568-1582.	3.7	51
15	Multiâ€œparametric liver tissue characterization using MR fingerprinting: Simultaneous $T_{1\rho}$ , $T_{2\rho}$ , $T_{2\rho}^*$ , and fat fraction mapping. <i>Magnetic Resonance in Medicine</i> , 2020, 84, 2625-2635.	1.9	50
16	Reduced neurite density in the brain and cervical spinal cord in relapsingâ€œremitting multiple sclerosis: A NODDI study. <i>Multiple Sclerosis Journal</i> , 2020, 26, 1647-1657.	1.4	48
17	Waterâ€œfat Dixon cardiac magnetic resonance fingerprinting. <i>Magnetic Resonance in Medicine</i> , 2020, 83, 2107-2123.	1.9	48
18	Sparsity and locally low rank regularization for MR fingerprinting. <i>Magnetic Resonance in Medicine</i> , 2019, 81, 3530-3543.	1.9	46

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19	3D myocardial $T_1$ mapping using saturation recovery. <i>Journal of Magnetic Resonance Imaging</i> , 2017, 46, 218-227.	1.9	43
20	Rigid motion-corrected magnetic resonance fingerprinting. <i>Magnetic Resonance in Medicine</i> , 2019, 81, 947-961.	1.9	37
21	3D free-breathing cardiac magnetic resonance fingerprinting. <i>NMR in Biomedicine</i> , 2020, 33, e4370.	1.6	37
22	Quiet echo planar imaging for functional and diffusion MRI. <i>Magnetic Resonance in Medicine</i> , 2018, 79, 1447-1459.	1.9	35
23	Multi-parametric quantitative in vivo spinal cord MRI with unified signal readout and image denoising. <i>NeuroImage</i> , 2020, 217, 116884.	2.1	34
24	Diffusion MRI microstructure models with in vivo human brain Connectome data: results from a multi-group comparison. <i>NMR in Biomedicine</i> , 2017, 30, e3734.	1.6	33
25	Relevance of time-dependence for clinically viable diffusion imaging of the spinal cord. <i>Magnetic Resonance in Medicine</i> , 2019, 81, 1247-1264.	1.9	29
26	A framework for optimal whole-sample histological quantification of neurite orientation dispersion in the human spinal cord. <i>Journal of Neuroscience Methods</i> , 2016, 273, 20-32.	1.3	27
27	$T_1$ , $T_2$ and Fat Fraction Cardiac MR Fingerprinting: Preliminary Clinical Evaluation. <i>Journal of Magnetic Resonance Imaging</i> , 2021, 53, 1253-1265.	1.9	27
28	Viable and fixed white matter: Diffusion magnetic resonance comparisons and contrasts at physiological temperature. <i>Magnetic Resonance in Medicine</i> , 2014, 72, 1151-1161.	1.9	22
29	Slice-level diffusion encoding for motion and distortion correction. <i>Medical Image Analysis</i> , 2018, 48, 214-229.	7.0	22
30	Generalized low-rank nonrigid motion-corrected reconstruction for MR fingerprinting. <i>Magnetic Resonance in Medicine</i> , 2022, 87, 746-763.	1.9	22
31	Fast and reproducible in vivo $T_1$ mapping of the human cervical spinal cord. <i>Magnetic Resonance in Medicine</i> , 2018, 79, 2142-2148.	1.9	20
32	A new approach to structural integrity assessment based on axial and radial diffusivities. <i>Functional Neurology</i> , 2012, 27, 85-90.	1.3	20
33	Technical note: Accelerated nonrigid motion-compensated isotropic 3D coronary MR angiography. <i>Medical Physics</i> , 2018, 45, 214-222.	1.6	19
34	Diffusion MRI-based cortical complexity alterations associated with executive function in multiple sclerosis. <i>Journal of Magnetic Resonance Imaging</i> , 2013, 38, 54-63.	1.9	17
35	An optimized framework for quantitative magnetization transfer imaging of the cervical spinal cord in vivo. <i>Magnetic Resonance in Medicine</i> , 2018, 79, 2576-2588.	1.9	15
36	Accelerated magnetic resonance fingerprinting using soft-weighted key-hole (MRF-SOHO). <i>PLoS ONE</i> , 2018, 13, e0201808.	1.1	14

#	ARTICLE	IF	CITATIONS
37	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
38	Multiband RF pulse design for realistic gradient performance. Magnetic Resonance in Medicine, 2019, 81, 362-376.	1.9	11
39	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
40	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
41	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
42	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
43	An MR fingerprinting approach for quantitative inhomogeneous magnetization transfer imaging. Magnetic Resonance in Medicine, 2022, 87, 220-235.	1.9	7
44	Whole-heart T1 mapping using a 2D fat image navigator for respiratory motion compensation. Magnetic Resonance in Medicine, 2020, 83, 178-187.	1.9	6
45	Influence of the arterial input sampling location on the diagnostic accuracy of cardiovascular magnetic resonance stress-myocardial perfusion quantification. Journal of Cardiovascular Magnetic Resonance, 2021, 23, 35.	1.6	6
46	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
47	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
48	Deep Learning Model Fitting for Diffusion-Relaxometry: A Comparative Study. Mathematics and Visualization, 2021, , 159-172.	0.4	5
49	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
50	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
51	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
52	An Integrated Software Application for Non-invasive Assessment of Local Aortic Haemodynamic Parameters. Procedia Computer Science, 2016, 90, 2-8.	1.2	2
53	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
54	Ranking diffusion-MRI models with in-vivo human brain data. , 2013, , .		1

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55	Translating pH-sensitive PROgressive saturation for QUantifying Exchange rates using Saturation Times (PROQUEST) MRI to a 3T clinical scanner. Magnetic Resonance in Medicine, 2020, 84, 1734-1746.	1.9	1