Chantal M W Tax

List of Publications by Year
in descending order

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46 papers	3,083 citations	361413 20 h-index	214800 47 g-index
60 all docs	60 docs citations	60 times ranked	4496 citing authors

#	Article	IF	Citations
1	The challenge of mapping the human connectome based on diffusion tractography. Nature Communications, 2017, 8, 1349.	12.8	956
2	Methodological considerations on tract-based spatial statistics (TBSS). NeuroImage, 2014, 100, 358-369.	4.2	395
3	The importance of correcting for signal drift in diffusion MRI. Magnetic Resonance in Medicine, 2017, 77, 285-299.	3.0	174
4	Recursive calibration of the fiber response function for spherical deconvolution of diffusion MRI data. NeuroImage, 2014, 86, 67-80.	4.2	163
5	REKINDLE: Robust extraction of kurtosis INDices with linear estimation. Magnetic Resonance in Medicine, 2015, 73, 794-808.	3.0	139
6	Tractography dissection variability: What happens when 42 groups dissect 14 white matter bundles on the same dataset?. NeuroImage, 2021, 243, 118502.	4.2	94
7	Cross-scanner and cross-protocol diffusion MRI data harmonisation: A benchmark database and evaluation of algorithms. NeuroImage, 2019, 195, 285-299.	4.2	92
8	Dimensionality reduction of diffusion MRI measures for improved tractometry of the human brain. NeuroImage, 2019, 200, 89-100.	4.2	84
9	Scanner invariant representations for diffusion MRI harmonization. Magnetic Resonance in Medicine, 2020, 84, 2174-2189.	3.0	78
10	â€œMASSIVEâ€•brain dataset: Multiple acquisitions for standardization of structural imaging validation and evaluation. Magnetic Resonance in Medicine, 2017, 77, 1797-1809.	3.0	65
11	Impact of bâ€value on estimates of apparent fibre density. Human Brain Mapping, 2020, 41, 2583-2595.	3.6	64
12	The dot-compartment revealed? Diffusion MRI with ultra-strong gradients and spherical tensor encoding in the living human brain. NeuroImage, 2020, 210, 116534.	4.2	64
13	Tractostorm: The what, why, and how of tractography dissection reproducibility. Human Brain Mapping, 2020, 41, 1859-1874.	3.6	59
14	Cross-scanner and cross-protocol multi-shell diffusion MRI data harmonization: Algorithms and results. NeuroImage, 2020, 221, 117128.	4.2	54
15	Whatâ€™s new and whatâ€™s next in diffusion MRI preprocessing. NeuroImage, 2022, 249, 118830.	4.2	43
16	Computing and visualising intraâ€voxel orientationâ€specific relaxationâ€“diffusion features in the human brain. Human Brain Mapping, 2021, 42, 310-328.	3.6	35
17	Fiber tractography bundle segmentation depends on scanner effects, vendor effects, acquisition resolution, diffusion sampling scheme, diffusion sensitization, and bundle segmentation workflow. NeuroImage, 2021, 242, 118451.	4.2	35
18	Prevalence of white matter pathways coming into a single white matter voxel orientation: The bottleneck issue in tractography. Human Brain Mapping, 2022, 43, 1196-1213.	3.6	34

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19	Meyer's loop tractography for image-guided surgery depends on imaging protocol and hardware. NeuroImage: Clinical, 2018, 20, 458-465.	2.7	30
20	Measuring compartmental <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si4.svg"><mml:msub><mml:mi>T</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math>-orientational dependence in human brain white matter using a tiltable RF coil and diffusion-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si4.svg"><mml:msub><mml:mi>T</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math> correlation MRI. NeuroImage, 2021, 236, 117967.	4.2	30
21	Detecting microstructural deviations in individuals with deep diffusion MRI tractometry. Nature Computational Science, 2021, 1, 598-606.	8.0	30
22	Microstructural brain abnormalities in Huntington's disease: A twoâ€year followâ€up. Human Brain Mapping, 2015, 36, 2061-2074.	3.6	29
23	Resolving bundle-specific intra-axonal T2 values within a voxel using diffusion-relaxation tract-based estimation. NeuroImage, 2021, 227, 117617.	4.2	28
24	Transferring principles of solid-state and Laplace NMR to the field of in vivo brain MRI. Magnetic Resonance, 2020, 1, 27-43.	1.9	22
25	Strong diffusion gradients allow the separation of intra- and extra-axonal gradient-echo signals in the human brain. NeuroImage, 2020, 217, 116793.	4.2	21
26	Evaluating Contextual Processing in Diffusion MRI: Application to Optic Radiation Reconstruction for Epilepsy Surgery. PLoS ONE, 2014, 9, e101524.	2.5	21
27	Automated characterization of noise distributions in diffusion MRI data. Medical Image Analysis, 2020, 65, 101758.	11.6	20
28	MICRA: Microstructural image compilation with repeated acquisitions. NeuroImage, 2021, 225, 117406.	4.2	20
29	Mapping the human connectome using diffusion MRI at 300 mT/m gradient strength: Methodological advances and scientific impact. NeuroImage, 2022, 254, 118958.	4.2	18
30	Sheet Probability Index (SPI): Characterizing the geometrical organization of the white matter with diffusion MRI. NeuroImage, 2016, 142, 260-279.	4.2	17
31	Surface-based tracking for short association fibre tractography. NeuroImage, 2022, 260, 119423.	4.2	17
32	Quantifying the brain's sheet structure with normalized convolution. Medical Image Analysis, 2017, 39, 162-177.	11.6	15
33	Image Registration to Compensate for EPI Distortion in Patients with Brain Tumors: An Evaluation of Tractâ€Specific Effects. Journal of Neuroimaging, 2018, 28, 173-182.	2.0	15
34	Seeing More by Showing Less: Orientation-Dependent Transparency Rendering for Fiber Tractography Visualization. PLoS ONE, 2015, 10, e0139434.	2.5	14
35	The effect of gradient nonlinearities on fiber orientation estimates from spherical deconvolution of diffusion magnetic resonance imaging data. Human Brain Mapping, 2021, 42, 367-383.	3.6	13
36	A deep learningâ€“based method for improving reliability of multicenter diffusion kurtosis imaging with varied acquisition protocols. Magnetic Resonance Imaging, 2020, 73, 31-44.	1.8	12

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37	Structural magnetic resonance imaging in dystonia: A systematic review of methodological approaches and findings. European Journal of Neurology, 2022, 29, 3418-3448.	3.3	10
38	Multi-stage Prediction Networks for Data Harmonization. Lecture Notes in Computer Science, 2019, , 411-419.	1.3	9
39	Obtaining Representative Core Streamlines for White Matter Tractometry of the Human Brain. Mathematics and Visualization, 2019, , 359-366.	0.6	8
40	Chapter 7. Estimating Chemical and Microstructural Heterogeneity by Correlating Relaxation and Diffusion. New Developments in NMR, 2020, , 186-227.	0.1	6
41	Fiber orientation distribution from diffusion MRI: Effects of inaccurate response function calibration. Journal of Neuroimaging, 2021, 31, 1082-1098.	2.0	4
42	Effects of tDCS on Language Recovery in Post-Stroke Aphasia: A Pilot Study Investigating Clinical Parameters and White Matter Change with Diffusion Imaging. Brain Sciences, 2021, 11, 1277.	2.3	4
43	Repeatability of Soma and Neurite Metrics in Cortical and Subcortical Grey Matter. Mathematics and Visualization, 2021, , 135-145.	0.6	2
44	Diffusion Magnetic Resonance Imaging and Fiber Tractography. PET Clinics, 2013, 8, 279-293.	3.0	1
45	Improved neonatal brain MRI segmentation by interpolation of motion corrupted slices. Journal of Neuroimaging, 2022, 32, 480-492.	2.0	1
46	Physiological effects of human body imaging with 300 mT/m gradients. Magnetic Resonance in Medicine, 2022, 87, 2512-2520.	3.0	1