

Chantal M W Tax

List of Publications by Year in descending order

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46
papers

3,083
citations

361296

20
h-index

214721

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. <i>Nature Communications</i> , 2017, 8, 1349.	5.8	956
2	Methodological considerations on tract-based spatial statistics (TBSS). <i>NeuroImage</i> , 2014, 100, 358-369.	2.1	395
3	The importance of correcting for signal drift in diffusion MRI. <i>Magnetic Resonance in Medicine</i> , 2017, 77, 285-299.	1.9	174
4	Recursive calibration of the fiber response function for spherical deconvolution of diffusion MRI data. <i>NeuroImage</i> , 2014, 86, 67-80.	2.1	163
5	REKINDLE: Robust extraction of kurtosis INDices with linear estimation. <i>Magnetic Resonance in Medicine</i> , 2015, 73, 794-808.	1.9	139
6	Tractography dissection variability: What happens when 42 groups dissect 14 white matter bundles on the same dataset?. <i>NeuroImage</i> , 2021, 243, 118502.	2.1	94
7	Cross-scanner and cross-protocol diffusion MRI data harmonisation: A benchmark database and evaluation of algorithms. <i>NeuroImage</i> , 2019, 195, 285-299.	2.1	92
8	Dimensionality reduction of diffusion MRI measures for improved tractometry of the human brain. <i>NeuroImage</i> , 2019, 200, 89-100.	2.1	84
9	Scanner invariant representations for diffusion MRI harmonization. <i>Magnetic Resonance in Medicine</i> , 2020, 84, 2174-2189.	1.9	78
10	“MASSIVE” brain dataset: Multiple acquisitions for standardization of structural imaging validation and evaluation. <i>Magnetic Resonance in Medicine</i> , 2017, 77, 1797-1809.	1.9	65
11	Impact of b -value on estimates of apparent fibre density. <i>Human Brain Mapping</i> , 2020, 41, 2583-2595.	1.9	64
12	The dot-compartment revealed? Diffusion MRI with ultra-strong gradients and spherical tensor encoding in the living human brain. <i>NeuroImage</i> , 2020, 210, 116534.	2.1	64
13	Tractostorm: The what, why, and how of tractography dissection reproducibility. <i>Human Brain Mapping</i> , 2020, 41, 1859-1874.	1.9	59
14	Cross-scanner and cross-protocol multi-shell diffusion MRI data harmonization: Algorithms and results. <i>NeuroImage</i> , 2020, 221, 117128.	2.1	54
15	What’s new and what’s next in diffusion MRI preprocessing. <i>NeuroImage</i> , 2022, 249, 118830.	2.1	43
16	Computing and visualising intra-voxel orientation-specific relaxation “diffusion features” in the human brain. <i>Human Brain Mapping</i> , 2021, 42, 310-328.	1.9	35
17	Fiber tractography bundle segmentation depends on scanner effects, vendor effects, acquisition resolution, diffusion sampling scheme, diffusion sensitization, and bundle segmentation workflow. <i>NeuroImage</i> , 2021, 242, 118451.	2.1	35
18	Prevalence of white matter pathways coming into a single white matter voxel orientation: The bottleneck issue in tractography. <i>Human Brain Mapping</i> , 2022, 43, 1196-1213.	1.9	34

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19	Meyer's loop tractography for image-guided surgery depends on imaging protocol and hardware. <i>NeuroImage: Clinical</i> , 2018, 20, 458-465.	1.4	30
20	Measuring compartmental T_2 -orientational dependence in human brain white matter using a tiltable RF coil and diffusion-correlation MRI. <i>NeuroImage</i> , 2021, 236, 117967.	2.1	30
21	Detecting microstructural deviations in individuals with deep diffusion MRI tractometry. <i>Nature Computational Science</i> , 2021, 1, 598-606.	3.8	30
22	Microstructural brain abnormalities in Huntington's disease: A two-year follow-up. <i>Human Brain Mapping</i> , 2015, 36, 2061-2074.	1.9	29
23	Resolving bundle-specific intra-axonal T2 values within a voxel using diffusion-relaxation tract-based estimation. <i>NeuroImage</i> , 2021, 227, 117617.	2.1	28
24	Transferring principles of solid-state and Laplace NMR to the field of in vivo brain MRI. <i>Magnetic Resonance</i> , 2020, 1, 27-43.	0.8	22
25	Strong diffusion gradients allow the separation of intra- and extra-axonal gradient-echo signals in the human brain. <i>NeuroImage</i> , 2020, 217, 116793.	2.1	21
26	Evaluating Contextual Processing in Diffusion MRI: Application to Optic Radiation Reconstruction for Epilepsy Surgery. <i>PLoS ONE</i> , 2014, 9, e101524.	1.1	21
27	Automated characterization of noise distributions in diffusion MRI data. <i>Medical Image Analysis</i> , 2020, 65, 101758.	7.0	20
28	MICRA: Microstructural image compilation with repeated acquisitions. <i>NeuroImage</i> , 2021, 225, 117406.	2.1	20
29	Mapping the human connectome using diffusion MRI at 300 mT/m gradient strength: Methodological advances and scientific impact. <i>NeuroImage</i> , 2022, 254, 118958.	2.1	18
30	Sheet Probability Index (SPI): Characterizing the geometrical organization of the white matter with diffusion MRI. <i>NeuroImage</i> , 2016, 142, 260-279.	2.1	17
31	Surface-based tracking for short association fibre tractography. <i>NeuroImage</i> , 2022, 260, 119423.	2.1	17
32	Quantifying the brain's sheet structure with normalized convolution. <i>Medical Image Analysis</i> , 2017, 39, 162-177.	7.0	15
33	Image Registration to Compensate for EPI Distortion in Patients with Brain Tumors: An Evaluation of Tract-specific Effects. <i>Journal of Neuroimaging</i> , 2018, 28, 173-182.	1.0	15
34	Seeing More by Showing Less: Orientation-Dependent Transparency Rendering for Fiber Tractography Visualization. <i>PLoS ONE</i> , 2015, 10, e0139434.	1.1	14
35	The effect of gradient nonlinearities on fiber orientation estimates from spherical deconvolution of diffusion magnetic resonance imaging data. <i>Human Brain Mapping</i> , 2021, 42, 367-383.	1.9	13
36	A deep learning-based method for improving reliability of multicenter diffusion kurtosis imaging with varied acquisition protocols. <i>Magnetic Resonance Imaging</i> , 2020, 73, 31-44.	1.0	12

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37	Structural magnetic resonance imaging in dystonia: A systematic review of methodological approaches and findings. <i>European Journal of Neurology</i> , 2022, 29, 3418-3448.	1.7	10
38	Multi-stage Prediction Networks for Data Harmonization. <i>Lecture Notes in Computer Science</i> , 2019, , 411-419.	1.0	9
39	Obtaining Representative Core Streamlines for White Matter Tractometry of the Human Brain. <i>Mathematics and Visualization</i> , 2019, , 359-366.	0.4	8
40	Chapter 7. Estimating Chemical and Microstructural Heterogeneity by Correlating Relaxation and Diffusion. <i>New Developments in NMR</i> , 2020, , 186-227.	0.1	6
41	Fiber orientation distribution from diffusion MRI: Effects of inaccurate response function calibration. <i>Journal of Neuroimaging</i> , 2021, 31, 1082-1098.	1.0	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. <i>Brain Sciences</i> , 2021, 11, 1277.	1.1	4
43	Repeatability of Soma and Neurite Metrics in Cortical and Subcortical Grey Matter. <i>Mathematics and Visualization</i> , 2021, , 135-145.	0.4	2
44	Diffusion Magnetic Resonance Imaging and Fiber Tractography. <i>PET Clinics</i> , 2013, 8, 279-293.	1.5	1
45	Improved neonatal brain MRI segmentation by interpolation of motion corrupted slices. <i>Journal of Neuroimaging</i> , 2022, 32, 480-492.	1.0	1
46	Physiological effects of human body imaging with 300 mT/m gradients. <i>Magnetic Resonance in Medicine</i> , 2022, 87, 2512-2520.	1.9	1