Maxime Chamberland

List of Publications by Year
in descending order

37 papers	2,139 citations	430874 18 h-index	434195 31 g-index
51 all docs	51 docs citations	51 times ranked	2971 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	Limits to anatomical accuracy of diffusion tractography using modern approaches. NeuroImage, 2019, 185, 1-11.	4.2	200
3	Tractography dissection variability: What happens when 42 groups dissect 14 white matter bundles on the same dataset?. NeuroImage, 2021, 243, 118502.	4.2	94
4	Dimensionality reduction of diffusion MRI measures for improved tractometry of the human brain. NeuroImage, 2019, 200, 89-100.	4.2	84
5	Collaborative patch-based super-resolution for diffusion-weighted images. NeuroImage, 2013, 83, 245-261.	4.2	83
6	Real-time multi-peak tractography for instantaneous connectivity display. Frontiers in Neuroinformatics, 2014, 8, 59.	2.5	67
7	Mapping population-based structural connectomes. NeuroImage, 2018, 172, 130-145.	4.2	66
8	Impact of bâ€value on estimates of apparent fibre density. Human Brain Mapping, 2020, 41, 2583-2595.	3.6	64
9	Tractostorm: The what, why, and how of tractography dissection reproducibility. Human Brain Mapping, 2020, 41, 1859-1874.	3.6	59
10	Active delineation of Meyer's loop using oriented priors through MAGNEtic tractography (MAGNET). Human Brain Mapping, 2017, 38, 509-527.	3.6	42
11	Computing and visualising intraâ€voxel orientationâ€specific relaxationâ€“diffusion features in the human brain. Human Brain Mapping, 2021, 42, 310-328.	3.6	35
12	3D interactive tractography-informed resting-state fMRI connectivity. Frontiers in Neuroscience, 2015, 9, 275.	2.8	33
13	Multimodal principal component analysis to identify major features of white matter structure and links to reading. PLoS ONE, 2020, 15, e0233244.	2.5	32
14	Meyer's loop tractography for image-guided surgery depends on imaging protocol and hardware. NeuroImage: Clinical, 2018, 20, 458-465.	2.7	30
15	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
16	Detecting microstructural deviations in individuals with deep diffusion MRI tractometry. Nature Computational Science, 2021, 1, 598-606.	8.0	30
17	Resolving bundle-specific intra-axonal T2 values within a voxel using diffusion-relaxation tract-based estimation. NeuroImage, 2021, 227, 117617.	4.2	28
18	On the Origin of Individual Functional Connectivity Variability: The Role of White Matter Architecture. Brain Connectivity, 2017, 7, 491-503.	1.7	27

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19	Using fMRI non-local means denoising to uncover activation in sub-cortical structures at 1.5 T for guided HARDI tractography. Frontiers in Human Neuroscience, 2014, 8, 715.	2.0	23
20	MICRA: Microstructural image compilation with repeated acquisitions. NeuroImage, 2021, 225, 117406.	4.2	20
21	Surface-based tracking for short association fibre tractography. NeuroImage, 2022, 260, 119423.	4.2	17
22	Seeing More by Showing Less: Orientation-Dependent Transparency Rendering for Fiber Tractography Visualization. PLoS ONE, 2015, 10, e0139434.	2.5	14
23	Reducing variability in along-tract analysis with diffusion profile realignment. NeuroImage, 2019, 199, 663-679.	4.2	10
24	Tract-specific MRI measures explain learning and recall differences in multiple sclerosis. Brain Communications, 2021, 3, fcab065.	3.3	9
25	Obtaining Representative Core Streamlines for White Matter Tractometry of the Human Brain. Mathematics and Visualization, 2019, , 359-366.	0.6	8
26	Acquiring and Predicting Multidimensional Diffusion (MUDI) Data: An Open Challenge. Mathematics and Visualization, 2020, , 195-208.	0.6	8
27	Mutationâ€related magnetizationâ€transfer, not axon density, drives white matter differences in premanifest Huntington disease: Evidence from in vivo ultraâ€strong gradient <scp>MRI</scp>. Human Brain Mapping, 2022, 43, 3439-3460.	3.6	5
28	Neurophysiological evidence of preserved connectivity in tuber tissue. Epilepsy & Behavior Case Reports, 2017, 7, 64-68.	1.5	4
29	Beyond Lesion-Load: Tractometry-Based Metrics for Characterizing White Matter Lesions within Fibre Pathways. Mathematics and Visualization, 2021, , 227-237.	0.6	4
30	Visualization of Diffusion Propagator and Multiple Parameter Diffusion Signal. Mathematics and Visualization, 2015, , 191-212.	0.6	3
31	Interactive Computation and Visualization of Structural Connectomes in Real-Time. Lecture Notes in Computer Science, 2017, , 35-41.	1.3	0
32	Magnetic Resonance Imaging of $$T_2$$- and Diffusion Anisotropy Using a Tiltable Receive Coil. Mathematics and Visualization, 2021, , 247-262.	0.6	0
33	E05â€…Mutation-related apparent myelin, not axon density, drives white matter pathology in premanifest huntingtonâ€™s disease: evidence from in vivo ultra-strong gradient MRI. , 2021, , .		0
34	Title is missing!. , 2020, 15, e0233244.		0
35	Title is missing!. , 2020, 15, e0233244.		0
36	Title is missing!. , 2020, 15, e0233244.		0

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37	Title is missing!. , 2020, 15, e0233244.		0