

# Tim B Dyrby

## List of Publications by Year in descending order

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Version: 2024-02-01

78  
papers

5,596  
citations

159585

30  
h-index

95266

68  
g-index

93  
all docs

93  
docs citations

93  
times ranked

6259  
citing authors

#	ARTICLE	IF	CITATIONS
1	Does powder averaging remove dispersion bias in diffusion MRI diameter estimates within real 3D axonal architectures?. <i>NeuroImage</i> , 2022, 248, 118718.	4.2	12
2	Axonal T2 estimation using the spherical variance of the strongly diffusion-weighted MRI signal. <i>Magnetic Resonance Imaging</i> , 2022, 86, 118-134.	1.8	4
3	Editorial: Computational Neuroimage Analysis Tools for Brain (Diseases) Biomarkers. <i>Frontiers in Neuroscience</i> , 2022, 16, 841807.	2.8	0
4	Uncovering Cortical Units of Processing From Multi-Layered Connectomes. <i>Frontiers in Neuroscience</i> , 2022, 16, 836259.	2.8	0
5	An Optimized Mouse Brain Atlas for Automated Mapping and Quantification of Neuronal Activity Using iDISCO+ and Light Sheet Fluorescence Microscopy. <i>Neuroinformatics</i> , 2021, 19, 433-446.	2.8	33
6	Cytosolic diffusivity and microscopic anisotropy of $\gamma$ -acetyl aspartate in human white matter with diffusion-weighted MRS at 7 T. <i>NMR in Biomedicine</i> , 2021, 34, e4304.	2.8	9
7	Comparative Study Of Voxel-Based Statistical Analysis Methods For Fluorescently Labelled And Light Sheet Imaged Whole-Brain Samples. , 2021, , .		3
8	No detectable effect on visual responses using functional MRI in a rodent model of $\alpha$ -synuclein expression. <i>ENeuro</i> , 2021, 8, ENEURO.0516-20.2021.	1.9	0
9	Using connectomics for predictive assessment of brain parcellations. <i>NeuroImage</i> , 2021, 238, 118170.	4.2	9
10	In vivo tensor-valued diffusion MRI of focal demyelination in white and deep grey matter of rodents. <i>NeuroImage: Clinical</i> , 2021, 30, 102675.	2.7	7
11	Tractography reproducibility challenge with empirical data (TraCED): The 2017 ISMRM diffusion study group challenge. <i>Journal of Magnetic Resonance Imaging</i> , 2020, 51, 234-249.	3.4	38
12	Validation of structural brain connectivity networks: The impact of scanning parameters. <i>NeuroImage</i> , 2020, 204, 116207.	4.2	31
13	ActiveAx <sub>ADD</sub> : Toward non-parametric and orientationally invariant axon diameter distribution mapping using PGSE. <i>Magnetic Resonance in Medicine</i> , 2020, 83, 2322-2330.	3.0	9
14	Limited Colocalization of Microbleeds and Microstructural Changes after Severe Traumatic Brain Injury. <i>Journal of Neurotrauma</i> , 2020, 37, 581-592.	3.4	12
15	Motor fatigue is associated with asymmetric connectivity properties of the corticospinal tract in multiple sclerosis. <i>NeuroImage: Clinical</i> , 2020, 28, 102393.	2.7	5
16	Design and Implementation of Solenoid and Alderman-Grant Coils for Magnetic Resonance Microscopy at 7T. , 2020, , .		1
17	Disentangling white-matter damage from physiological fibre orientation dispersion in multiple sclerosis. <i>Brain Communications</i> , 2020, 2, fcaa077.	3.3	55
18	On the cortical connectivity in the macaque brain: A comparison of diffusion tractography and histological tracing data. <i>NeuroImage</i> , 2020, 221, 117201.	4.2	52

#	ARTICLE	IF	CITATIONS
19	Functional and Structural Plasticity Co-express in a Left Premotor Region During Early Bimanual Skill Learning. <i>Frontiers in Human Neuroscience</i> , 2020, 14, 310.	2.0	8
20	Two Coarse Spatial Patterns of Altered Brain Microstructure Predict Post-traumatic Amnesia in the Subacute Stage of Severe Traumatic Brain Injury. <i>Frontiers in Neurology</i> , 2020, 11, 800.	2.4	0
21	Differences in Frontal Network Anatomy Across Primate Species. <i>Journal of Neuroscience</i> , 2020, 40, 2094-2107.	3.6	37
22	Ex vivo diffusion-weighted MRI tractography of the Göttingen minipig limbic system. <i>Brain Structure and Function</i> , 2020, 225, 1055-1071.	2.3	9
23	Axon morphology is modulated by the local environment and impacts the noninvasive investigation of its structureâ€”function relationship. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 33649-33659.	7.1	53
24	Uncovering the inferior fronto-occipital fascicle and its topological organization in non-human primates: the missing connection for language evolution. <i>Brain Structure and Function</i> , 2019, 224, 1553-1567.	2.3	31
25	Muscle fibre morphology and microarchitecture in cerebral palsy patients obtained by 3D synchrotron X-ray computed tomography. <i>Computers in Biology and Medicine</i> , 2019, 107, 265-269.	7.0	11
26	Topological principles and developmental algorithms might refine diffusion tractography. <i>Brain Structure and Function</i> , 2019, 224, 1-8.	2.3	9
27	Limits to anatomical accuracy of diffusion tractography using modern approaches. <i>NeuroImage</i> , 2019, 185, 1-11.	4.2	200
28	Imaging brain microstructure with diffusion MRI: practicality and applications. <i>NMR in Biomedicine</i> , 2019, 32, e3841.	2.8	266
29	Diversity of Cortico-descending Projections: Histological and Diffusion MRI Characterization in the Monkey. <i>Cerebral Cortex</i> , 2019, 29, 788-801.	2.9	27
30	Magnetic resonance temporal diffusion tensor spectroscopy of disordered anisotropic tissue. <i>Scientific Reports</i> , 2018, 8, 2930.	3.3	9
31	Disability in progressive MS is associated with T2 lesion changes. <i>Multiple Sclerosis and Related Disorders</i> , 2018, 20, 73-77.	2.0	6
32	Sleep patterning changes in a prenatal stress model of depression. <i>Journal of Developmental Origins of Health and Disease</i> , 2018, 9, 102-111.	1.4	4
33	Effects of imaging gradients in sequences with varying longitudinal storage timeâ€”Case of diffusion exchange imaging. <i>Magnetic Resonance in Medicine</i> , 2018, 79, 2228-2235.	3.0	10
34	Validation strategies for the interpretation of microstructure imaging using diffusion MRI. <i>NeuroImage</i> , 2018, 182, 62-79.	4.2	73
35	The porcine corticospinal decussation: A combined neuronal tracing and tractography study. <i>Brain Research Bulletin</i> , 2018, 142, 253-262.	3.0	14
36	Image quality transfer and applications in diffusion MRI. <i>NeuroImage</i> , 2017, 152, 283-298.	4.2	91

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37	The challenge of mapping the human connectome based on diffusion tractography. <i>Nature Communications</i> , 2017, 8, 1349.	12.8	956
38	Short parietal lobe connections of the human and monkey brain. <i>Cortex</i> , 2017, 97, 339-357.	2.4	74
39	Thalamocortical Connectivity and Microstructural Changes in Congenital and Late Blindness. <i>Neural Plasticity</i> , 2017, 2017, 1-11.	2.2	31
40	Individual Differences in the Alignment of Structural and Functional Markers of the V5/MT Complex in Primates. <i>Cerebral Cortex</i> , 2016, 26, 3928-3944.	2.9	35
41	Simultaneous Assessment of White Matter Changes in Microstructure and Connectedness in the Blind Brain. <i>Neural Plasticity</i> , 2016, 2016, 1-12.	2.2	32
42	The Diameters of Cortical Axons and Their Relevance to Neural Computing. , 2016, , 317-335.		7
43	Conventions and nomenclature for double diffusion encoding NMR and MRI. <i>Magnetic Resonance in Medicine</i> , 2016, 75, 82-87.	3.0	154
44	The Crossed Projection to the Striatum in Two Species of Monkey and in Humans: Behavioral and Evolutionary Significance. <i>Cerebral Cortex</i> , 2016, 27, bhw161.	2.9	30
45	Using Diffusion Tractography to Predict Cortical Connection Strength and Distance: A Quantitative Comparison with Tracers in the Monkey. <i>Journal of Neuroscience</i> , 2016, 36, 6758-6770.	3.6	318
46	Blindness alters the microstructure of the ventral but not the dorsal visual stream. <i>Brain Structure and Function</i> , 2016, 221, 2891-2903.	2.3	28
47	Monthly oral methylprednisolone pulse treatment in progressive multiple sclerosis. <i>Multiple Sclerosis Journal</i> , 2016, 22, 926-934.	3.0	23
48	Prenatal stress produces sex-specific changes in depression-like behavior in rats: implications for increased vulnerability in females. <i>Journal of Developmental Origins of Health and Disease</i> , 2015, 6, 462-474.	1.4	27
49	Validation of tractography: Comparison with manganese tracing. <i>Human Brain Mapping</i> , 2015, 36, 4116-4134.	3.6	110
50	Diffusion weighted imaging with circularly polarized oscillating gradients. <i>Magnetic Resonance in Medicine</i> , 2015, 73, 1171-1176.	3.0	29
51	Accelerated Microstructure Imaging via Convex Optimization (AMICO) from diffusion MRI data. <i>NeuroImage</i> , 2015, 105, 32-44.	4.2	377
52	Shape Abnormalities of the Caudate Nucleus Correlate with Poorer Gait and Balance: Results from a Subset of the LADIS Study. <i>American Journal of Geriatric Psychiatry</i> , 2015, 23, 59-71.e1.	1.2	16
53	Secondary Progressive and Relapsing Remitting Multiple Sclerosis Leads to Motor-Related Decreased Anatomical Connectivity. <i>PLoS ONE</i> , 2014, 9, e95540.	2.5	17
54	Addressing the Path-Length-Dependency Confound in White Matter Tract Segmentation. <i>PLoS ONE</i> , 2014, 9, e96247.	2.5	22

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55	Commentary on "Microanisotropy imaging: quantification of microscopic diffusion anisotropy and orientation of order parameter by diffusion MRI with magic-angle spinning of the q-vector" Frontiers in Physics, 2014, 2, .	2.1	16
56	Nonparametric Bayesian clustering of structural whole brain connectivity in full image resolution. , 2014, , .		2
57	Natalizumab in progressive MS. Neurology, 2014, 82, 1499-1507.	1.1	110
58	Interpolation of diffusion weighted imaging datasets. NeuroImage, 2014, 103, 202-213.	4.2	122
59	High angular resolution diffusion imaging with stimulated echoes: compensation and correction in experiment design and analysis. NMR in Biomedicine, 2014, 27, 918-925.	2.8	35
60	Apparent exchange rate imaging in anisotropic systems. Magnetic Resonance in Medicine, 2014, 72, 756-762.	3.0	26
61	Fast diffusion tensor imaging and tractography of the whole cervical spinal cord using point spread function corrected echo planar imaging. Magnetic Resonance in Medicine, 2013, 69, 144-149.	3.0	12
62	The CONNECT project: Combining macro- and micro-structure. NeuroImage, 2013, 80, 273-282.	4.2	121
63	Comparing Structural Brain Connectivity by the Infinite Relational Model. , 2013, , .		8
64	Resting-state connectivity of pre-motor cortex reflects disability in multiple sclerosis. Acta Neurologica Scandinavica, 2013, 128, n/a-n/a.	2.1	33
65	Expanded functional coupling of subcortical nuclei with the motor resting-state network in multiple sclerosis. Multiple Sclerosis Journal, 2013, 19, 559-566.	3.0	39
66	Orientationally invariant metrics of apparent compartment eccentricity from double pulsed field gradient diffusion experiments. NMR in Biomedicine, 2013, 26, 1647-1662.	2.8	175
67	Tract-oriented statistical group comparison of diffusion in sheet-like white matter. , 2013, , .		0
68	Diagnostic Approach to Functional Recovery: Diffusion-Weighted Imaging and Tractography. Frontiers of Neurology and Neuroscience, 2013, 32, 26-35.	2.8	6
69	Contrast and stability of the axon diameter index from microstructure imaging with diffusion MRI. Magnetic Resonance in Medicine, 2013, 70, 711-721.	3.0	120
70	Distribution of collateral fibers in the monkey cervical spinal cord detected with diffusion-weighted magnetic resonance imaging. NeuroImage, 2011, 56, 923-929.	4.2	24
71	Independent spinal cord atrophy measures correlate to motor and sensory deficits in individuals with spinal cord injury. Spinal Cord, 2011, 49, 70-75.	1.9	73
72	An ex vivo imaging pipeline for producing high-quality and high-resolution diffusion-weighted imaging datasets. Human Brain Mapping, 2011, 32, 544-563.	3.6	199

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73	Axon Diameter Mapping in Crossing Fibers with Diffusion MRI. Lecture Notes in Computer Science, 2011, 14, 82-89.	1.3	16
74	Orientationally invariant indices of axon diameter and density from diffusion MRI. NeuroImage, 2010, 52, 1374-1389.	4.2	629
75	Segmentation of age-related white matter changes in a clinical multi-center study. NeuroImage, 2008, 41, 335-345.	4.2	51
76	Validation of in vitro probabilistic tractography. NeuroImage, 2007, 37, 1267-1277.	4.2	212
77	Reproducibility of 5-HT <sub>2A</sub> receptor measurements and sample size estimations with [18F]altanserin PET using a bolus/infusion approach. European Journal of Nuclear Medicine and Molecular Imaging, 2007, 34, 910-915.	6.4	39
78	The prefrontal cortex in the Göttingen minipig brain defined by neural projection criteria and cytoarchitecture. Brain Research Bulletin, 2006, 70, 322-336.	3.0	56