

Tim B Dyrby

List of Publications by Year in descending order

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Version: 2024-02-01

78
papers

5,596
citations

159358

30
h-index

95083

68
g-index

93
all docs

93
docs citations

93
times ranked

6259
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	Orientationally invariant indices of axon diameter and density from diffusion MRI. <i>NeuroImage</i> , 2010, 52, 1374-1389.	2.1	629
3	Accelerated Microstructure Imaging via Convex Optimization (AMICO) from diffusion MRI data. <i>NeuroImage</i> , 2015, 105, 32-44.	2.1	377
4	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.	1.7	318
5	Imaging brain microstructure with diffusion MRI: practicality and applications. <i>NMR in Biomedicine</i> , 2019, 32, e3841.	1.6	266
6	Validation of in vitro probabilistic tractography. <i>NeuroImage</i> , 2007, 37, 1267-1277.	2.1	212
7	Limits to anatomical accuracy of diffusion tractography using modern approaches. <i>NeuroImage</i> , 2019, 185, 1-11.	2.1	200
8	An ex vivo imaging pipeline for producing high-quality and high-resolution diffusion-weighted imaging datasets. <i>Human Brain Mapping</i> , 2011, 32, 544-563.	1.9	199
9	Orientationally invariant metrics of apparent compartment eccentricity from double pulsed field gradient diffusion experiments. <i>NMR in Biomedicine</i> , 2013, 26, 1647-1662.	1.6	175
10	Conventions and nomenclature for double diffusion encoding NMR and MRI. <i>Magnetic Resonance in Medicine</i> , 2016, 75, 82-87.	1.9	154
11	Interpolation of diffusion weighted imaging datasets. <i>NeuroImage</i> , 2014, 103, 202-213.	2.1	122
12	The CONNECT project: Combining macro- and micro-structure. <i>NeuroImage</i> , 2013, 80, 273-282.	2.1	121
13	Contrast and stability of the axon diameter index from microstructure imaging with diffusion MRI. <i>Magnetic Resonance in Medicine</i> , 2013, 70, 711-721.	1.9	120
14	Natalizumab in progressive MS. <i>Neurology</i> , 2014, 82, 1499-1507.	1.5	110
15	Validation of tractography: Comparison with manganese tracing. <i>Human Brain Mapping</i> , 2015, 36, 4116-4134.	1.9	110
16	Image quality transfer and applications in diffusion MRI. <i>NeuroImage</i> , 2017, 152, 283-298.	2.1	91
17	Short parietal lobe connections of the human and monkey brain. <i>Cortex</i> , 2017, 97, 339-357.	1.1	74
18	Independent spinal cord atrophy measures correlate to motor and sensory deficits in individuals with spinal cord injury. <i>Spinal Cord</i> , 2011, 49, 70-75.	0.9	73

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19	Validation strategies for the interpretation of microstructure imaging using diffusion MRI. <i>NeuroImage</i> , 2018, 182, 62-79.	2.1	73
20	The prefrontal cortex in the Göttingen minipig brain defined by neural projection criteria and cytoarchitecture. <i>Brain Research Bulletin</i> , 2006, 70, 322-336.	1.4	56
21	Disentangling white-matter damage from physiological fibre orientation dispersion in multiple sclerosis. <i>Brain Communications</i> , 2020, 2, fcaa077.	1.5	55
22	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.	3.3	53
23	On the cortical connectivity in the macaque brain: A comparison of diffusion tractography and histological tracing data. <i>NeuroImage</i> , 2020, 221, 117201.	2.1	52
24	Segmentation of age-related white matter changes in a clinical multi-center study. <i>NeuroImage</i> , 2008, 41, 335-345.	2.1	51
25	Reproducibility of 5-HT2A receptor measurements and sample size estimations with [18F]altanserin PET using a bolus/infusion approach. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2007, 34, 910-915.	3.3	39
26	Expanded functional coupling of subcortical nuclei with the motor resting-state network in multiple sclerosis. <i>Multiple Sclerosis Journal</i> , 2013, 19, 559-566.	1.4	39
27	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.	1.9	38
28	Differences in Frontal Network Anatomy Across Primate Species. <i>Journal of Neuroscience</i> , 2020, 40, 2094-2107.	1.7	37
29	High angular resolution diffusion imaging with stimulated echoes: compensation and correction in experiment design and analysis. <i>NMR in Biomedicine</i> , 2014, 27, 918-925.	1.6	35
30	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.	1.6	35
31	Resting-state connectivity of pre-motor cortex reflects disability in multiple sclerosis. <i>Acta Neurologica Scandinavica</i> , 2013, 128, n/a-n/a.	1.0	33
32	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.	1.5	33
33	Simultaneous Assessment of White Matter Changes in Microstructure and Connectedness in the Blind Brain. <i>Neural Plasticity</i> , 2016, 2016, 1-12.	1.0	32
34	Thalamocortical Connectivity and Microstructural Changes in Congenital and Late Blindness. <i>Neural Plasticity</i> , 2017, 2017, 1-11.	1.0	31
35	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.	1.2	31
36	Validation of structural brain connectivity networks: The impact of scanning parameters. <i>NeuroImage</i> , 2020, 204, 116207.	2.1	31

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37	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.	1.6	30
38	Diffusion weighted imaging with circularly polarized oscillating gradients. <i>Magnetic Resonance in Medicine</i> , 2015, 73, 1171-1176.	1.9	29
39	Blindness alters the microstructure of the ventral but not the dorsal visual stream. <i>Brain Structure and Function</i> , 2016, 221, 2891-2903.	1.2	28
40	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.	0.7	27
41	Diversity of Cortico-descending Projections: Histological and Diffusion MRI Characterization in the Monkey. <i>Cerebral Cortex</i> , 2019, 29, 788-801.	1.6	27
42	Apparent exchange rate imaging in anisotropic systems. <i>Magnetic Resonance in Medicine</i> , 2014, 72, 756-762.	1.9	26
43	Distribution of collateral fibers in the monkey cervical spinal cord detected with diffusion-weighted magnetic resonance imaging. <i>NeuroImage</i> , 2011, 56, 923-929.	2.1	24
44	Monthly oral methylprednisolone pulse treatment in progressive multiple sclerosis. <i>Multiple Sclerosis Journal</i> , 2016, 22, 926-934.	1.4	23
45	Addressing the Path-Length-Dependency Confound in White Matter Tract Segmentation. <i>PLoS ONE</i> , 2014, 9, e96247.	1.1	22
46	Secondary Progressive and Relapsing Remitting Multiple Sclerosis Leads to Motor-Related Decreased Anatomical Connectivity. <i>PLoS ONE</i> , 2014, 9, e95540.	1.1	17
47	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" <i>Frontiers in Physics</i> , 2014, 2, .	1.0	16
48	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.	0.6	16
49	Axon Diameter Mapping in Crossing Fibers with Diffusion MRI. <i>Lecture Notes in Computer Science</i> , 2011, 14, 82-89.	1.0	16
50	The porcine corticospinal decussation: A combined neuronal tracing and tractography study. <i>Brain Research Bulletin</i> , 2018, 142, 253-262.	1.4	14
51	Fast diffusion tensor imaging and tractography of the whole cervical spinal cord using point spread function corrected echo planar imaging. <i>Magnetic Resonance in Medicine</i> , 2013, 69, 144-149.	1.9	12
52	Limited Colocalization of Microbleeds and Microstructural Changes after Severe Traumatic Brain Injury. <i>Journal of Neurotrauma</i> , 2020, 37, 581-592.	1.7	12
53	Does powder averaging remove dispersion bias in diffusion MRI diameter estimates within real 3D axonal architectures?. <i>NeuroImage</i> , 2022, 248, 118718.	2.1	12
54	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.	3.9	11

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55	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.	1.9	10
56	Magnetic resonance temporal diffusion tensor spectroscopy of disordered anisotropic tissue. <i>Scientific Reports</i> , 2018, 8, 2930.	1.6	9
57	Topological principles and developmental algorithms might refine diffusion tractography. <i>Brain Structure and Function</i> , 2019, 224, 1-8.	1.2	9
58	ActiveAx_{ADD}: Toward nonâ€”parametric and orientationally invariant axon diameter distribution mapping using PGSE. <i>Magnetic Resonance in Medicine</i> , 2020, 83, 2322-2330.	1.9	9
59	Ex vivo diffusion-weighted MRI tractography of the GÃ¼ttingen minipig limbic system. <i>Brain Structure and Function</i> , 2020, 225, 1055-1071.	1.2	9
60	Cytosolic diffusivity and microscopic anisotropy of <i>N</i>-acetyl aspartate in human white matter with diffusionâ€”weighted MRS at 7 T. <i>NMR in Biomedicine</i> , 2021, 34, e4304.	1.6	9
61	Using connectomics for predictive assessment of brain parcellations. <i>NeuroImage</i> , 2021, 238, 118170.	2.1	9
62	Comparing Structural Brain Connectivity by the Infinite Relational Model. , 2013, , .		8
63	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.	1.0	8
64	The Diameters of Cortical Axons and Their Relevance to Neural Computing. , 2016, , 317-335.		7
65	In vivo tensor-valued diffusion MRI of focal demyelination in white and deep grey matter of rodents. <i>NeuroImage: Clinical</i> , 2021, 30, 102675.	1.4	7
66	Diagnostic Approach to Functional Recovery: Diffusion-Weighted Imaging and Tractography. <i>Frontiers of Neurology and Neuroscience</i> , 2013, 32, 26-35.	3.0	6
67	Disability in progressive MS is associated with T2 lesion changes. <i>Multiple Sclerosis and Related Disorders</i> , 2018, 20, 73-77.	0.9	6
68	Motor fatigue is associated with asymmetric connectivity properties of the corticospinal tract in multiple sclerosis. <i>NeuroImage: Clinical</i> , 2020, 28, 102393.	1.4	5
69	Sleep patterning changes in a prenatal stress model of depression. <i>Journal of Developmental Origins of Health and Disease</i> , 2018, 9, 102-111.	0.7	4
70	Axonal T2 estimation using the spherical variance of the strongly diffusion-weighted MRI signal. <i>Magnetic Resonance Imaging</i> , 2022, 86, 118-134.	1.0	4
71	Comparative Study Of Voxel-Based Statistical Analysis Methods For Fluorescently Labelled And Light Sheet Imaged Whole-Brain Samples. , 2021, , .		3
72	Nonparametric Bayesian clustering of structural whole brain connectivity in full image resolution. , 2014, , .		2

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73	Design and Implementation of Solenoid and Alderman-Grant Coils for Magnetic Resonance Microscopy at 7T. , 2020, , .		1
74	Tract-oriented statistical group comparison of diffusion in sheet-like white matter. , 2013, , .		0
75	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.	1.1	0
76	No detectable effect on visual responses using functional MRI in a rodent model of α -synuclein expression. <i>ENeuro</i> , 2021, 8, ENEURO.0516-20.2021.	0.9	0
77	Editorial: Computational Neuroimage Analysis Tools for Brain (Diseases) Biomarkers. <i>Frontiers in Neuroscience</i> , 2022, 16, 841807.	1.4	0
78	Uncovering Cortical Units of Processing From Multi-Layered Connectomes. <i>Frontiers in Neuroscience</i> , 2022, 16, 836259.	1.4	0