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List of Publications by Year
in descending order

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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	Does powder averaging remove dispersion bias in diffusion MRI diameter estimates within real 3D axonal architectures?. NeuroImage, 2022, 248, 118718.	2.1	12
2	Axonal T2 estimation using the spherical variance of the strongly diffusion-weighted MRI signal. Magnetic Resonance Imaging, 2022, 86, 118-134.	1.0	4
3	Editorial: Computational Neuroimage Analysis Tools for Brain (Diseases) Biomarkers. Frontiers in Neuroscience, 2022, 16, 841807.	1.4	0
4	Uncovering Cortical Units of Processing From Multi-Layered Connectomes. Frontiers in Neuroscience, 2022, 16, 836259.	1.4	0
5	An Optimized Mouse Brain Atlas for Automated Mapping and Quantification of Neuronal Activity Using iDISCO+ and Light Sheet Fluorescence Microscopy. Neuroinformatics, 2021, 19, 433-446.	1.5	33
6	Cytosolic diffusivity and microscopic anisotropy of Nâ€acetyl aspartate in human white matter with diffusionâ€weighted MRS at 7 T. NMR in Biomedicine, 2021, 34, e4304.	1.6	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 Î±-synuclein expression. ENeuro, 2021, 8, ENEURO.0516-20.2021.	0.9	0
9	Using connectomics for predictive assessment of brain parcellations. NeuroImage, 2021, 238, 118170.	2.1	9
10	In vivo tensor-valued diffusion MRI of focal demyelination in white and deep grey matter of rodents. NeuroImage: Clinical, 2021, 30, 102675.	1.4	7
11	Tractography reproducibility challenge with empirical data (TraCED): The 2017 ISMRM diffusion study group challenge. Journal of Magnetic Resonance Imaging, 2020, 51, 234-249.	1.9	38
12	Validation of structural brain connectivity networks: The impact of scanning parameters. NeuroImage, 2020, 204, 116207.	2.1	31
13	ActiveAx_{ADD}: Toward nonâ€parametric and orientationally invariant axon diameter distribution mapping using PGSE. Magnetic Resonance in Medicine, 2020, 83, 2322-2330.	1.9	9
14	Limited Colocalization of Microbleeds and Microstructural Changes after Severe Traumatic Brain Injury. Journal of Neurotrauma, 2020, 37, 581-592.	1.7	12
15	Motor fatigue is associated with asymmetric connectivity properties of the corticospinal tract in multiple sclerosis. NeuroImage: Clinical, 2020, 28, 102393.	1.4	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. Brain Communications, 2020, 2, fcaa077.	1.5	55
18	On the cortical connectivity in the macaque brain: A comparison of diffusion tractography and histological tracing data. NeuroImage, 2020, 221, 117201.	2.1	52

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19	Functional and Structural Plasticity Co-express in a Left Premotor Region During Early Bimanual Skill Learning. Frontiers in Human Neuroscience, 2020, 14, 310.	1.0	8
20	Two Coarse Spatial Patterns of Altered Brain Microstructure Predict Post-traumatic Amnesia in the Subacute Stage of Severe Traumatic Brain Injury. Frontiers in Neurology, 2020, 11, 800.	1.1	0
21	Differences in Frontal Network Anatomy Across Primate Species. Journal of Neuroscience, 2020, 40, 2094-2107.	1.7	37
22	Ex vivo diffusion-weighted MRI tractography of the GÃ¶ttingen minipig limbic system. Brain Structure and Function, 2020, 225, 1055-1071.	1.2	9
23	Axon morphology is modulated by the local environment and impacts the noninvasive investigation of its structureâ€“function relationship. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 33649-33659.	3.3	53
24	Uncovering the inferior fronto-occipital fascicle and its topological organization in non-human primates: the missing connection for language evolution. Brain Structure and Function, 2019, 224, 1553-1567.	1.2	31
25	Muscle fibre morphology and microarchitecture in cerebral palsy patients obtained by 3D synchrotron X-ray computed tomography. Computers in Biology and Medicine, 2019, 107, 265-269.	3.9	11
26	Topological principles and developmental algorithms might refine diffusion tractography. Brain Structure and Function, 2019, 224, 1-8.	1.2	9
27	Limits to anatomical accuracy of diffusion tractography using modern approaches. NeuroImage, 2019, 185, 1-11.	2.1	200
28	Imaging brain microstructure with diffusion MRI: practicality and applications. NMR in Biomedicine, 2019, 32, e3841.	1.6	266
29	Diversity of Cortico-descending Projections: Histological and Diffusion MRI Characterization in the Monkey. Cerebral Cortex, 2019, 29, 788-801.	1.6	27
30	Magnetic resonance temporal diffusion tensor spectroscopy of disordered anisotropic tissue. Scientific Reports, 2018, 8, 2930.	1.6	9
31	Disability in progressive MS is associated with T2 lesion changes. Multiple Sclerosis and Related Disorders, 2018, 20, 73-77.	0.9	6
32	Sleep patterning changes in a prenatal stress model of depression. Journal of Developmental Origins of Health and Disease, 2018, 9, 102-111.	0.7	4
33	Effects of imaging gradients in sequences with varying longitudinal storage timeâ€”Case of diffusion exchange imaging. Magnetic Resonance in Medicine, 2018, 79, 2228-2235.	1.9	10
34	Validation strategies for the interpretation of microstructure imaging using diffusion MRI. NeuroImage, 2018, 182, 62-79.	2.1	73
35	The porcine corticospinal decussation: A combined neuronal tracing and tractography study. Brain Research Bulletin, 2018, 142, 253-262.	1.4	14
36	Image quality transfer and applications in diffusion MRI. NeuroImage, 2017, 152, 283-298.	2.1	91

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37	The challenge of mapping the human connectome based on diffusion tractography. Nature Communications, 2017, 8, 1349.	5.8	956
38	Short parietal lobe connections of the human and monkey brain. Cortex, 2017, 97, 339-357.	1.1	74
39	Thalamocortical Connectivity and Microstructural Changes in Congenital and Late Blindness. Neural Plasticity, 2017, 2017, 1-11.	1.0	31
40	Individual Differences in the Alignment of Structural and Functional Markers of the V5/MT Complex in Primates. Cerebral Cortex, 2016, 26, 3928-3944.	1.6	35
41	Simultaneous Assessment of White Matter Changes in Microstructure and Connectedness in the Blind Brain. Neural Plasticity, 2016, 2016, 1-12.	1.0	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. Magnetic Resonance in Medicine, 2016, 75, 82-87.	1.9	154
44	The Crossed Projection to the Striatum in Two Species of Monkey and in Humans: Behavioral and Evolutionary Significance. Cerebral Cortex, 2016, 27, bhw161.	1.6	30
45	Using Diffusion Tractography to Predict Cortical Connection Strength and Distance: A Quantitative Comparison with Tracers in the Monkey. Journal of Neuroscience, 2016, 36, 6758-6770.	1.7	318
46	Blindness alters the microstructure of the ventral but not the dorsal visual stream. Brain Structure and Function, 2016, 221, 2891-2903.	1.2	28
47	Monthly oral methylprednisolone pulse treatment in progressive multiple sclerosis. Multiple Sclerosis Journal, 2016, 22, 926-934.	1.4	23
48	Prenatal stress produces sex-specific changes in depression-like behavior in rats: implications for increased vulnerability in females. Journal of Developmental Origins of Health and Disease, 2015, 6, 462-474.	0.7	27
49	Validation of tractography: Comparison with manganese tracing. Human Brain Mapping, 2015, 36, 4116-4134.	1.9	110
50	Diffusion weighted imaging with circularly polarized oscillating gradients. Magnetic Resonance in Medicine, 2015, 73, 1171-1176.	1.9	29
51	Accelerated Microstructure Imaging via Convex Optimization (AMICO) from diffusion MRI data. NeuroImage, 2015, 105, 32-44.	2.1	377
52	Shape Abnormalities of the Caudate Nucleus Correlate with Poorer Gait and Balance: Results from a Subset of the LADIS Study. American Journal of Geriatric Psychiatry, 2015, 23, 59-71.e1.	0.6	16
53	Secondary Progressive and Relapsing Remitting Multiple Sclerosis Leads to Motor-Related Decreased Anatomical Connectivity. PLoS ONE, 2014, 9, e95540.	1.1	17
54	Addressing the Path-Length-Dependency Confound in White Matter Tract Segmentation. PLoS ONE, 2014, 9, e96247.	1.1	22

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55	Commentary on Ã¢â‚¬Å“Microanisotropy imaging: quantification of microscopic diffusion anisotropy and orientation of order parameter by diffusion MRI with magic-angle spinning of the q-vectorÃ¢â‚¬Â•. Frontiers in Physics, 2014, 2, .	1.0	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.	1.5	110
58	Interpolation of diffusion weighted imaging datasets. NeuroImage, 2014, 103, 202-213.	2.1	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.	1.6	35
60	Apparent exchange rate imaging in anisotropic systems. Magnetic Resonance in Medicine, 2014, 72, 756-762.	1.9	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.	1.9	12
62	The CONNECT project: Combining macro- and micro-structure. NeuroImage, 2013, 80, 273-282.	2.1	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.	1.0	33
65	Expanded functional coupling of subcortical nuclei with the motor resting-state network in multiple sclerosis. Multiple Sclerosis Journal, 2013, 19, 559-566.	1.4	39
66	Orientationally invariant metrics of apparent compartment eccentricity from double pulsed field gradient diffusion experiments. NMR in Biomedicine, 2013, 26, 1647-1662.	1.6	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.	3.0	6
69	Contrast and stability of the axon diameter index from microstructure imaging with diffusion MRI. Magnetic Resonance in Medicine, 2013, 70, 711-721.	1.9	120
70	Distribution of collateral fibers in the monkey cervical spinal cord detected with diffusion-weighted magnetic resonance imaging. NeuroImage, 2011, 56, 923-929.	2.1	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.	0.9	73
72	An ex vivo imaging pipeline for producing highâ€quality and highâ€resolution diffusionâ€weighted imaging datasets. Human Brain Mapping, 2011, 32, 544-563.	1.9	199

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73	Axon Diameter Mapping in Crossing Fibers with Diffusion MRI. Lecture Notes in Computer Science, 2011, 14, 82-89.	1.0	16
74	Orientationally invariant indices of axon diameter and density from diffusion MRI. NeuroImage, 2010, 52, 1374-1389.	2.1	629
75	Segmentation of age-related white matter changes in a clinical multi-center study. NeuroImage, 2008, 41, 335-345.	2.1	51
76	Validation of in vitro probabilistic tractography. NeuroImage, 2007, 37, 1267-1277.	2.1	212
77	Reproducibility of 5-HT2A 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.	3.3	39
78	The prefrontal cortex in the GÃ¶ttingen minipig brain defined by neural projection criteria and cytoarchitecture. Brain Research Bulletin, 2006, 70, 322-336.	1.4	56