

Alexander Leemans

List of Publications by Year in descending order

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Version: 2024-02-01

243
papers

18,505
citations

19657

61
h-index

17105

122
g-index

264
all docs

264
docs citations

264
times ranked

19328
citing authors

#	ARTICLE	IF	CITATIONS
1	REPIMPACT - a prospective longitudinal multisite study on the effects of repetitive head impacts in youth soccer. <i>Brain Imaging and Behavior</i> , 2022, 16, 492-502.	2.1	6
2	Association between Motor Planning and the Frontoparietal Network in Children: An Exploratory Multimodal Study. <i>Journal of the International Neuropsychological Society</i> , 2022, 28, 926-936.	1.8	2
3	Association of Superficial White Matter Alterations with Cerebrospinal Fluid Biomarkers and Cognitive Decline in Neurodegenerative Dementia. <i>Journal of Alzheimer's Disease</i> , 2022, 85, 431-442.	2.6	2
4	Neuroanatomical markers of psychotic experiences in adolescents: A machine-learning approach in a longitudinal population-based sample. <i>NeuroImage: Clinical</i> , 2022, 34, 102983.	2.7	0
5	Improved neonatal brain MRI segmentation by interpolation of motion corrupted slices. <i>Journal of Neuroimaging</i> , 2022, 32, 480-492.	2.0	1
6	Impact of thresholding on the consistency and sensitivity of diffusion MRI-based brain networks in patients with cerebral small vessel disease. <i>Brain and Behavior</i> , 2022, , e2523.	2.2	1
7	Insights from the IronTract challenge: Optimal methods for mapping brain pathways from multi-shell diffusion MRI. <i>NeuroImage</i> , 2022, 257, 119327.	4.2	17
8	Cross-site harmonization of multi-shell diffusion MRI measures based on rotational invariant spherical harmonics (RISH). <i>NeuroImage</i> , 2022, 259, 119439.	4.2	8
9	Dose-dependent volume loss in subcortical deep grey matter structures after cranial radiotherapy. <i>Clinical and Translational Radiation Oncology</i> , 2021, 26, 35-41.	1.7	24
10	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.	3.6	13
11	Iranian Brain Imaging Database: A Neuropsychiatric Database of Healthy Brain. <i>Basic and Clinical Neuroscience</i> , 2021, 12, 115-132.	0.6	6
12	White matter microstructure of the neural emotion regulation circuitry in mild traumatic brain injury. <i>European Journal of Neuroscience</i> , 2021, 53, 3463-3475.	2.6	7
13	Fiber orientation distribution from diffusion MRI: Effects of inaccurate response function calibration. <i>Journal of Neuroimaging</i> , 2021, 31, 1082-1098.	2.0	4
14	On the generalizability of diffusion MRI signal representations across acquisition parameters, sequences and tissue types: Chronicles of the MEMENTO challenge. <i>NeuroImage</i> , 2021, 240, 118367.	4.2	10
15	Diffusion kurtosis imaging of white matter in bipolar disorder. <i>Psychiatry Research - Neuroimaging</i> , 2021, 317, 111341.	1.8	6
16	Tractography dissection variability: What happens when 42 groups dissect 14 white matter bundles on the same dataset?. <i>NeuroImage</i> , 2021, 243, 118502.	4.2	94
17	Diffusion MRI harmonization enables joint-analysis of multicentre data of patients with cerebral small vessel disease. <i>NeuroImage: Clinical</i> , 2021, 32, 102886.	2.7	4
18	Diffusion MRI analysis methods. <i>Advances in Magnetic Resonance Technology and Applications</i> , 2021, , 147-156.	0.1	1

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19	Tracking the Corticospinal Tract in Patients With High-Grade Glioma: Clinical Evaluation of Multi-Level Fiber Tracking and Comparison to Conventional Deterministic Approaches. <i>Frontiers in Oncology</i> , 2021, 11, 761169.	2.8	6
20	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
21	The adverse effect of gradient nonlinearities on diffusion MRI: From voxels to group studies. <i>NeuroImage</i> , 2020, 205, 116127.	4.2	32
22	Psychotic experiences in childhood are associated with increased structural integrity of the left arcuate fasciculus – A population-based case-control study. <i>Schizophrenia Research</i> , 2020, 215, 378-384.	2.0	10
23	Regions of white matter abnormalities in the arcuate fasciculus in veterans with anger and aggression problems. <i>Brain Structure and Function</i> , 2020, 225, 1401-1411.	2.3	10
24	Early prediction of unilateral cerebral palsy in infants at risk: MRI versus the hand assessment for infants. <i>Pediatric Research</i> , 2020, 87, 932-939.	2.3	10
25	The YOUth cohort study: MRI protocol and test-retest reliability in adults. <i>Developmental Cognitive Neuroscience</i> , 2020, 45, 100816.	4.0	23
26	Spherical deconvolution with tissue-specific response functions and multi-shell diffusion MRI to estimate multiple fiber orientation distributions (mFODs). <i>NeuroImage</i> , 2020, 222, 117206.	4.2	16
27	Data-Driven Identification of the Regions of Interest for Fiber Tracking in Patients with Brain Tumors. <i>World Neurosurgery</i> , 2020, 143, e275-e284.	1.3	1
28	Structural Network Analysis Using Diffusion MRI Tractography in Parkinson's Disease and Correlations With Motor Impairment. <i>Frontiers in Neurology</i> , 2020, 11, 841.	2.4	7
29	Harmonization of diffusion $\langle \text{scp} \rangle \text{MRI} \langle / \text{scp} \rangle$ data sets with adaptive dictionary learning. <i>Human Brain Mapping</i> , 2020, 41, 4478-4499.	3.6	14
30	Indirect frontocingulate structural connectivity predicts clinical response to accelerated rTMS in major depressive disorder. <i>Journal of Psychiatry and Neuroscience</i> , 2020, 45, 243-252.	2.4	15
31	Variability in the analysis of a single neuroimaging dataset by many teams. <i>Nature</i> , 2020, 582, 84-88.	27.8	634
32	Reduced hippocampal volume in adolescents with psychotic experiences: A longitudinal population-based study. <i>PLoS ONE</i> , 2020, 15, e0233670.	2.5	14
33	Perinatal thalamic injury: MRI predictors of electrical status epilepticus in sleep and long-term neurodevelopment. <i>NeuroImage: Clinical</i> , 2020, 26, 102227.	2.7	15
34	Automated characterization of noise distributions in diffusion MRI data. <i>Medical Image Analysis</i> , 2020, 65, 101758.	11.6	20
35	Effect of radiation therapy on cerebral cortical thickness in glioma patients: Treatment-induced thinning of the healthy cortex. <i>Neuro-Oncology Advances</i> , 2020, 2, vdaa060.	0.7	17
36	Generalized Richardson-Lucy (GRL) for analyzing multi-shell diffusion MRI data. <i>NeuroImage</i> , 2020, 218, 116948.	4.2	16

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37	Effect of Fixed-Density Thresholding on Structural Brain Networks: A Demonstration in Cerebral Small Vessel Disease. <i>Brain Connectivity</i> , 2020, 10, 121-133.	1.7	6
38	Accelerated intermittent theta burst stimulation in major depression induces decreases in modularity: A connectome analysis. <i>Network Neuroscience</i> , 2019, 3, 157-172.	2.6	20
39	On the sensitivity of the diffusion MRI signal to brain activity in response to a motor cortex paradigm. <i>Human Brain Mapping</i> , 2019, 40, 5069-5082.	3.6	10
40	Widespread white matter connectivity abnormalities in narcolepsy type 1: A diffusion tensor imaging study. <i>NeuroImage: Clinical</i> , 2019, 24, 101963.	2.7	13
41	Magnetic resonance imaging of the cervical spinal cord in spinal muscular atrophy. <i>NeuroImage: Clinical</i> , 2019, 24, 102002.	2.7	7
42	Histopathology of diffusion imaging abnormalities in cerebral amyloid angiopathy. <i>Neurology</i> , 2019, 92, e933-e943.	1.1	32
43	Cross-scanner and cross-protocol diffusion MRI data harmonisation: A benchmark database and evaluation of algorithms. <i>NeuroImage</i> , 2019, 195, 285-299.	4.2	92
44	Reducing variability in along-tract analysis with diffusion profile realignment. <i>NeuroImage</i> , 2019, 199, 663-679.	4.2	10
45	Diffusion Tensor Imaging Biomarkers to Predict Motor Outcomes in Stroke: A Narrative Review. <i>Frontiers in Neurology</i> , 2019, 10, 445.	2.4	65
46	Evaluation of the 3D fractal dimension as a marker of structural brain complexity in multipleâ€œacquisition MRI. <i>Human Brain Mapping</i> , 2019, 40, 3299-3320.	3.6	33
47	Changes in cortical thickness and volume after cranial radiation treatment: A systematic review. <i>Radiotherapy and Oncology</i> , 2019, 135, 33-42.	0.6	27
48	Diffusion MRI of the brain: The naked truth. <i>NMR in Biomedicine</i> , 2019, 32, e4084.	2.8	6
49	The Superoanterior Fasciculus (SAF): A Novel White Matter Pathway in the Human Brain?. <i>Frontiers in Neuroanatomy</i> , 2019, 13, 24.	1.7	22
50	Weight loss, behavioral change, and structural neuroplasticity in children with obesity through a multidisciplinary treatment program. <i>Human Brain Mapping</i> , 2019, 40, 137-150.	3.6	16
51	Reproducibility and intercorrelation of graph theoretical measures in structural brain connectivity networks. <i>Medical Image Analysis</i> , 2019, 52, 56-67.	11.6	57
52	Diffusion MRI fiber tractography of the brain. <i>NMR in Biomedicine</i> , 2019, 32, e3785.	2.8	346
53	Comparative characteristics of anthropometric indicators, level of physical and technical readiness of young players of 12 and 15 years of different playing fields. <i>Health Sport Rehabilitation</i> , 2019, 5, 44.	1.1	1
54	Diffusion MRI-based cortical connectome reconstruction: dependency on tractography procedures and neuroanatomical characteristics. <i>Brain Structure and Function</i> , 2018, 223, 2269-2285.	2.3	60

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55	Progressive microstructural changes of the occipital cortex in Huntington's disease. <i>Brain Imaging and Behavior</i> , 2018, 12, 1786-1794.	2.1	9
56	Post-mortem diffusion MRI of the cervical spine and its nerve roots. <i>Journal of Forensic Radiology and Imaging</i> , 2018, 12, 50-56.	1.2	5
57	White matter hyperintensity shape and location feature analysis on brain MRI; proof of principle study in patients with diabetes. <i>Scientific Reports</i> , 2018, 8, 1893.	3.3	39
58	Multicenter reproducibility study of diffusion MRI and fiber tractography of the lumbosacral nerves. <i>Journal of Magnetic Resonance Imaging</i> , 2018, 48, 951-963.	3.4	13
59	Evidence for Training-Dependent Structural Neuroplasticity in Brain-Injured Patients: A Critical Review. <i>Neurorehabilitation and Neural Repair</i> , 2018, 32, 99-114.	2.9	35
60	Mild cerebellar injury does not significantly affect cerebral white matter microstructural organization and neurodevelopmental outcome in a contemporary cohort of preterm infants. <i>Pediatric Research</i> , 2018, 83, 1004-1010.	2.3	7
61	Recovery from chemotherapy-induced white matter changes in young breast cancer survivors?. <i>Brain Imaging and Behavior</i> , 2018, 12, 64-77.	2.1	52
62	Associations between prenatal, childhood, and adolescent stress and variations in white-matter properties in young men. <i>NeuroImage</i> , 2018, 182, 389-397.	4.2	33
63	Abnormal frontoparietal white matter organisation in the superior longitudinal fasciculus branches in autism spectrum disorders. <i>European Journal of Neuroscience</i> , 2018, 47, 652-661.	2.6	39
64	Effects of early nutrition and growth on brain volumes, white matter microstructure, and neurodevelopmental outcome in preterm newborns. <i>Pediatric Research</i> , 2018, 83, 102-110.	2.3	118
65	Changes in brain morphology and microstructure in relation to early brain activity in extremely preterm infants. <i>Pediatric Research</i> , 2018, 83, 834-842.	2.3	18
66	White matter network alterations in patients with depersonalization/derealization disorder. <i>Journal of Psychiatry and Neuroscience</i> , 2018, 43, 347-357.	2.4	20
67	Automatic, Fast and Robust Characterization of Noise Distributions for Diffusion MRI. <i>Lecture Notes in Computer Science</i> , 2018, , 304-312.	1.3	2
68	A Different Brain: Anomalies of Functional and Structural Connections in Williams Syndrome. <i>Frontiers in Neurology</i> , 2018, 9, 721.	2.4	10
69	Microstructural White Matter Abnormalities and Cognitive Impairment After Aneurysmal Subarachnoid Hemorrhage. <i>Stroke</i> , 2018, 49, 2040-2045.	2.0	26
70	Diffusion imaging markers of bipolar versus general psychopathology risk in youth at-risk. <i>Neuropsychopharmacology</i> , 2018, 43, 2212-2220.	5.4	15
71	The cumulative effect of small vessel disease lesions is reflected in structural brain networks of memory clinic patients. <i>NeuroImage: Clinical</i> , 2018, 19, 963-969.	2.7	30
72	A robust deconvolution method to disentangle multiple water pools in diffusion MRI. <i>NMR in Biomedicine</i> , 2018, 31, e3965.	2.8	23

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73	Fast and accurate Slicewise Outlier Detection (SOLID) with informed model estimation for diffusion MRI data. <i>NeuroImage</i> , 2018, 181, 331-346.	4.2	41
74	Multiparametric quantitative MRI assessment of thigh muscles in limb-girdle muscular dystrophy 2A and 2B. <i>Muscle and Nerve</i> , 2018, 58, 550-558.	2.2	37
75	“MASSIVE” brain dataset: Multiple acquisitions for standardization of structural imaging validation and evaluation. <i>Magnetic Resonance in Medicine</i> , 2017, 77, 1797-1809.	3.0	65
76	Anatomical integration and rich-club connectivity in euthymic bipolar disorder. <i>Psychological Medicine</i> , 2017, 47, 1609-1623.	4.5	49
77	Structural and Functional Cortical Connectivity Mediating Cross Education of Motor Function. <i>Journal of Neuroscience</i> , 2017, 37, 2555-2564.	3.6	38
78	Changes in Brain Structural Networks and Cognitive Functions in Testicular Cancer Patients Receiving Cisplatin-Based Chemotherapy. <i>Journal of the National Cancer Institute</i> , 2017, 109, .	6.3	66
79	Quantifying the brain's sheet structure with normalized convolution. <i>Medical Image Analysis</i> , 2017, 39, 162-177.	11.6	15
80	Intravoxel incoherent motion modeling in the kidneys: Comparison of mono-, bi-, and triexponential fit. <i>Journal of Magnetic Resonance Imaging</i> , 2017, 46, 228-239.	3.4	48
81	The Default Mode Network as a Biomarker of Persistent Complaints after Mild Traumatic Brain Injury: A Longitudinal Functional Magnetic Resonance Imaging Study. <i>Journal of Neurotrauma</i> , 2017, 34, 3262-3269.	3.4	39
82	White matter maturation in the neonatal brain is predictive of school age cognitive capacities in children born very preterm. <i>Developmental Medicine and Child Neurology</i> , 2017, 59, 939-946.	2.1	36
83	The challenge of mapping the human connectome based on diffusion tractography. <i>Nature Communications</i> , 2017, 8, 1349.	12.8	956
84	Transcallosal connectivity of the human cortical motor network. <i>Brain Structure and Function</i> , 2017, 222, 1243-1252.	2.3	53
85	The importance of correcting for signal drift in diffusion MRI. <i>Magnetic Resonance in Medicine</i> , 2017, 77, 285-299.	3.0	174
86	MRI shows thickening and altered diffusion in the median and ulnar nerves in multifocal motor neuropathy. <i>European Radiology</i> , 2017, 27, 2216-2224.	4.5	37
87	Altered Wiring of the Human Structural Connectome in Adults with Mild Traumatic Brain Injury. <i>Journal of Neurotrauma</i> , 2017, 34, 1035-1044.	3.4	30
88	Microstructure of Strategic White Matter Tracts and Cognition in Memory Clinic Patients with Vascular Brain Injury. <i>Dementia and Geriatric Cognitive Disorders</i> , 2017, 44, 268-282.	1.5	17
89	The arcuate fasciculus network and verbal deficits in psychosis. <i>Translational Neuroscience</i> , 2017, 8, 117-126.	1.4	4
90	Learning Morse Code Alters Microstructural Properties in the Inferior Longitudinal Fasciculus: A DTI Study. <i>Frontiers in Human Neuroscience</i> , 2017, 11, 383.	2.0	9

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91	Small vessel disease and cognitive impairment: The relevance of central network connections. Human Brain Mapping, 2016, 37, 2446-2454.	3.6	39
92	Alterations in brain white matter contributing to age-related slowing of task switching performance: The role of radial diffusivity and magnetization transfer ratio. Human Brain Mapping, 2016, 37, 4084-4098.	3.6	12
93	Multimodal MRI reveals structural connectivity differences in 22q11 deletion syndrome related to impaired spatial working memory. Human Brain Mapping, 2016, 37, 4689-4705.	3.6	8
94	Sheet Probability Index (SPI): Characterizing the geometrical organization of the white matter with diffusion MRI. NeuroImage, 2016, 142, 260-279.	4.2	17
95	Choosing the polarity of the phase-encoding direction in diffusion MRI: Does it matter for group analysis?. NeuroImage: Clinical, 2016, 11, 539-547.	2.7	15
96	Diffusion tensor imaging of peripheral nerves in non-fixed post-mortem subjects. Forensic Science International, 2016, 263, 139-146.	2.2	14
97	Axon density and axon orientation dispersion in children born preterm. Human Brain Mapping, 2016, 37, 3080-3102.	3.6	50
98	DTI Analysis Methods: Voxel-Based Analysis. , 2016, , 183-203.		11
99	Quantitative DTI Measures. , 2016, , 65-87.		22
100	Trade-off between angular and spatial resolutions in in vivo fiber tractography. NeuroImage, 2016, 129, 117-132.	4.2	27
101	Frontal networks in adults with autism spectrum disorder. Brain, 2016, 139, 616-630.	7.6	118
102	Brain Connectomics of Visual-Motor Deficits in Children with Developmental Coordination Disorder. Journal of Pediatrics, 2016, 169, 21-27.e2.	1.8	46
103	PCA-based groupwise image registration for quantitative MRI. Medical Image Analysis, 2016, 29, 65-78.	11.6	118
104	Checking and Correcting DTI Data. , 2016, , 127-150.		4
105	DTI Analysis Methods: Region of Interest Analysis. , 2016, , 175-182.		18
106	White matter abnormalities and impaired attention abilities in children born very preterm. NeuroImage, 2016, 124, 75-84.	4.2	54
107	Moderate and late preterm infants exhibit widespread brain white matter microstructure alterations at term-equivalent age relative to term-born controls. Brain Imaging and Behavior, 2016, 10, 41-49.	2.1	66
108	D-BRAIN: Anatomically Accurate Simulated Diffusion MRI Brain Data. PLoS ONE, 2016, 11, e0149778.	2.5	11

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109	Hippocampal Disconnection in Early Alzheimer's Disease: A 7 Tesla MRI Study. <i>Journal of Alzheimer's Disease</i> , 2015, 45, 1247-1256.	2.6	37
110	Abnormal wiring of the connectome in adults with high-functioning autism spectrum disorder. <i>Molecular Autism</i> , 2015, 6, 65.	4.9	38
111	Accelerated corpus callosum development in prematurity predicts improved outcome. <i>Human Brain Mapping</i> , 2015, 36, 3733-3748.	3.6	27
112	Hierarchical non-negative matrix factorization to characterize brain tumor heterogeneity using multi-parametric MRI. <i>NMR in Biomedicine</i> , 2015, 28, 1599-1624.	2.8	29
113	Seeing More by Showing Less: Orientation-Dependent Transparency Rendering for Fiber Tractography Visualization. <i>PLoS ONE</i> , 2015, 10, e0139434.	2.5	14
114	Comparative Fitness of a Parent <i>Leishmania donovani</i> Clinical Isolate and Its Experimentally Derived Paromomycin-Resistant Strain. <i>PLoS ONE</i> , 2015, 10, e0140139.	2.5	21
115	White Matter Differences Among Adolescents Reporting Psychotic Experiences. <i>JAMA Psychiatry</i> , 2015, 72, 668.	11.0	54
116	Decoupling of structural and functional brain connectivity in older adults with white matter hyperintensities. <i>NeuroImage</i> , 2015, 117, 222-229.	4.2	57
117	Long-term neural and physiological phenotyping of a single human. <i>Nature Communications</i> , 2015, 6, 8885.	12.8	353
118	Diffusion tensor imaging of the auditory nerve in patients with long-term single-sided deafness. <i>Hearing Research</i> , 2015, 323, 1-8.	2.0	24
119	Training-induced improvements in postural control are accompanied by alterations in cerebellar white matter in brain injured patients. <i>NeuroImage: Clinical</i> , 2015, 7, 240-251.	2.7	50
120	Informed constrained spherical deconvolution (iCSD). <i>Medical Image Analysis</i> , 2015, 24, 269-281.	11.6	36
121	Effective electric fields along realistic DTI-based neural trajectories for modelling the stimulation mechanisms of TMS. <i>Physics in Medicine and Biology</i> , 2015, 60, 453-471.	3.0	35
122	Microstructural brain abnormalities in Huntington's disease: A two-year follow-up. <i>Human Brain Mapping</i> , 2015, 36, 2061-2074.	3.6	29
123	White Matter Structure in Youth With Behavioral and Emotional Dysregulation Disorders. <i>JAMA Psychiatry</i> , 2015, 72, 367.	11.0	32
124	Layered genetic control of DNA methylation and gene expression: a locus of multiple sclerosis in healthy individuals. <i>Human Molecular Genetics</i> , 2015, 24, 5733-5745.	2.9	26
125	Data quality in diffusion tensor imaging studies of the preterm brain: a systematic review. <i>Pediatric Radiology</i> , 2015, 45, 1372-1381.	2.0	8
126	Constrained spherical deconvolution-based tractography and tract-based spatial statistics show abnormal microstructural organization in Asperger syndrome. <i>Molecular Autism</i> , 2015, 6, 4.	4.9	31

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127	Neonatal DTI early after birth predicts motor outcome in preterm infants with periventricular hemorrhagic infarction. <i>Pediatric Research</i> , 2015, 78, 298-303.	2.3	39
128	The effect of Gibbs ringing artifacts on measures derived from diffusion MRI. <i>NeuroImage</i> , 2015, 120, 441-455.	4.2	94
129	Structural brain network analysis in families multiply affected with bipolar I disorder. <i>Psychiatry Research - Neuroimaging</i> , 2015, 234, 44-51.	1.8	48
130	Diffusion Tensor Imaging and Fiber Tractography in Children with Craniosynostosis Syndromes. <i>American Journal of Neuroradiology</i> , 2015, 36, 1558-1564.	2.4	18
131	Dynamics of the connectome in Huntington's disease: A longitudinal diffusion MRI study. <i>NeuroImage: Clinical</i> , 2015, 9, 32-43.	2.7	23
132	Bimanual motor deficits in older adults predicted by diffusion tensor imaging metrics of corpus callosum subregions. <i>Brain Structure and Function</i> , 2015, 220, 273-290.	2.3	64
133	Structural network alterations and neurological dysfunction in cerebral amyloid angiopathy. <i>Brain</i> , 2015, 138, 179-188.	7.6	145
134	REKINDLE: Robust extraction of kurtosis INDICES with linear estimation. <i>Magnetic Resonance in Medicine</i> , 2015, 73, 794-808.	3.0	139
135	Microstructural White Matter Tissue Characteristics Are Modulated by Homocysteine: A Diffusion Tensor Imaging Study. <i>PLoS ONE</i> , 2015, 10, e0116330.	2.5	5
136	Isotropic non-white matter partial volume effects in constrained spherical deconvolution. <i>Frontiers in Neuroinformatics</i> , 2014, 8, 28.	2.5	51
137	Altered Interhemispheric and Temporal Lobe White Matter Microstructural Organization in Severe Chronic Schizophrenia. <i>Neuropsychopharmacology</i> , 2014, 39, 944-954.	5.4	68
138	White matter microstructural abnormalities in families multiply affected with bipolar I disorder: a diffusion tensor tractography study. <i>Psychological Medicine</i> , 2014, 44, 2139-2150.	4.5	42
139	Automated longitudinal intra-subject analysis (ALISA) for diffusion MRI tractography. <i>NeuroImage</i> , 2014, 86, 404-416.	4.2	13
140	MP7-03 IMAGING MICROSTRUCTURAL PROPERTIES OF THE KIDNEYS USING DIFFUSION TENSOR- MRI. <i>Journal of Urology</i> , 2014, 191, .	0.4	0
141	Can diffusion kurtosis imaging improve the sensitivity and specificity of detecting microstructural alterations in brain tissue chronically after experimental stroke? Comparisons with diffusion tensor imaging and histology. <i>NeuroImage</i> , 2014, 97, 363-373.	4.2	101
142	Characterizing the microstructural basis of "unidentified bright objects" in neurofibromatosis type 1: A combined in vivo multicomponent T2 relaxation and multi-shell diffusion MRI analysis. <i>NeuroImage: Clinical</i> , 2014, 4, 649-658.	2.7	92
143	White matter organization in relation to upper limb motor control in healthy subjects: exploring the added value of diffusion kurtosis imaging. <i>Brain Structure and Function</i> , 2014, 219, 1627-1638.	2.3	17
144	Altered structural networks and executive deficits in traumatic brain injury patients. <i>Brain Structure and Function</i> , 2014, 219, 193-209.	2.3	143

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145	Cerebral Microvascular Lesions on High-Resolution 7-Tesla MRI in Patients With Type 2 Diabetes. <i>Diabetes</i> , 2014, 63, 3523-3529.	0.6	51
146	Diffusion Tensor Magnetic Resonance Imaging and Fiber Tractography of the Sacral Plexus in Children with Spina Bifida. <i>Journal of Urology</i> , 2014, 192, 927-933.	0.4	17
147	Hemispheric lateralization of topological organization in structural brain networks. <i>Human Brain Mapping</i> , 2014, 35, 4944-4957.	3.6	77
148	Microstructural brain development between 30 and 40 weeks corrected age in a longitudinal cohort of extremely preterm infants. <i>NeuroImage</i> , 2014, 103, 214-224.	4.2	65
149	Methodological considerations on tract-based spatial statistics (TBSS). <i>NeuroImage</i> , 2014, 100, 358-369.	4.2	395
150	Distribution of tract deficits in schizophrenia. <i>BMC Psychiatry</i> , 2014, 14, 99.	2.6	43
151	Choice of Diffusion Tensor Estimation Approach Affects Fiber Tractography of the Fornix in Preterm Brain. <i>American Journal of Neuroradiology</i> , 2014, 35, 1219-1225.	2.4	10
152	Integrating diffusion kurtosis imaging, dynamic susceptibility-weighted contrast-enhanced MRI, and short echo time chemical shift imaging for grading gliomas. <i>Neuro-Oncology</i> , 2014, 16, 1010-1021.	1.2	64
153	Structural neuroimaging correlates of allelic variation of the BDNF val66met polymorphism. <i>NeuroImage</i> , 2014, 90, 280-289.	4.2	36
154	Alterations in the optic radiations of very preterm children – Perinatal predictors and relationships with visual outcomes. <i>NeuroImage: Clinical</i> , 2014, 4, 145-153.	2.7	35
155	Recursive calibration of the fiber response function for spherical deconvolution of diffusion MRI data. <i>NeuroImage</i> , 2014, 86, 67-80.	4.2	163
156	Automated correction of improperly rotated diffusion gradient orientations in diffusion weighted MRI. <i>Medical Image Analysis</i> , 2014, 18, 953-962.	11.6	29
157	E18 Diffusion Tensor Imaging In Hd: A Two Year Follow-up - Results From The Track-hd Study. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2014, 85, A42-A42.	1.9	0
158	Recent advancements in diffusion MRI for investigating cortical development after preterm birth – potential and pitfalls. <i>Frontiers in Human Neuroscience</i> , 2014, 8, 1066.	2.0	9
159	Non-rigid Groupwise Image Registration for Motion Compensation in Quantitative MRI. <i>Lecture Notes in Computer Science</i> , 2014, , 184-193.	1.3	4
160	Evaluating Contextual Processing in Diffusion MRI: Application to Optic Radiation Reconstruction for Epilepsy Surgery. <i>PLoS ONE</i> , 2014, 9, e101524.	2.5	21
161	Groupwise Registration for Correcting Subject Motion and Eddy Current Distortions in Diffusion MRI Using a PCA Based Dissimilarity Metric. <i>Mathematics and Visualization</i> , 2014, , 163-174.	0.6	2
162	The Added Value of Diffusion Tensor Imaging for Automated White Matter Hyperintensity Segmentation. <i>Mathematics and Visualization</i> , 2014, , 45-53.	0.6	5

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163	Diffusion tensor imaging metrics of the corpus callosum in relation to bimanual coordination: Effect of task complexity and sensory feedback. <i>Human Brain Mapping</i> , 2013, 34, 241-252.	3.6	57
164	Investigating the prevalence of complex fiber configurations in white matter tissue with diffusion magnetic resonance imaging. <i>Human Brain Mapping</i> , 2013, 34, 2747-2766.	3.6	887
165	Diffusion tensor MRI of chemotherapy-induced cognitive impairment in non-CNS cancer patients: a review. <i>Brain Imaging and Behavior</i> , 2013, 7, 409-435.	2.1	93
166	Investigating the need of triggering the acquisition for infant diffusion MRI: A quantitative study including bootstrap statistics. <i>NeuroImage</i> , 2013, 69, 198-205.	4.2	6
167	Variability in diffusion kurtosis imaging: Impact on study design, statistical power and interpretation. <i>NeuroImage</i> , 2013, 76, 145-154.	4.2	62
168	Increased Coherence of White Matter Fiber Tract Organization in Adults with Asperger Syndrome: A Diffusion Tensor Imaging Study. <i>Autism Research</i> , 2013, 6, 642-650.	3.8	18
169	Does the use of hormonal contraceptives cause microstructural changes in cerebral white matter? Preliminary results of a DTI and tractography study. <i>European Radiology</i> , 2013, 23, 57-64.	4.5	54
170	Reliability of the corticospinal tract and arcuate fasciculus reconstructed with DTI-based tractography: implications for clinical practice. <i>European Radiology</i> , 2013, 23, 28-36.	4.5	24
171	Diffusion Magnetic Resonance Imaging and Fiber Tractography. <i>PET Clinics</i> , 2013, 8, 279-293.	3.0	1
172	Weighted linear least squares estimation of diffusion MRI parameters: Strengths, limitations, and pitfalls. <i>NeuroImage</i> , 2013, 81, 335-346.	4.2	407
173	White matter differences in euthymic bipolar I disorder: a combined magnetic resonance imaging and diffusion tensor imaging voxel-based study. <i>Bipolar Disorders</i> , 2013, 15, 365-376.	1.9	50
174	Limbic and Callosal White Matter Changes in Euthymic Bipolar I Disorder: An Advanced Diffusion Magnetic Resonance Imaging Tractography Study. <i>Biological Psychiatry</i> , 2013, 73, 194-201.	1.3	116
175	Assessment of quantitative cortical biomarkers in the developing brain of preterm infants. <i>Proceedings of SPIE</i> , 2013, , .	0.8	2
176	The Effect of Lacunar Infarcts on White Matter Tract Integrity. <i>Stroke</i> , 2013, 44, 2019-2021.	2.0	77
177	Acquisition Guidelines and Quality Assessment Tools for Analyzing Neonatal Diffusion Tensor MRI Data. <i>American Journal of Neuroradiology</i> , 2013, 34, 1496-1505.	2.4	26
178	Microstructural White Matter Abnormalities and Cognitive Functioning in Type 2 Diabetes. <i>Diabetes Care</i> , 2013, 36, 137-144.	8.6	206
179	White Matter and Visuospatial Processing in Autism: A Constrained Spherical Deconvolution Tractography Study. <i>Autism Research</i> , 2013, 6, 307-319.	3.8	36
180	Disruption of cerebral networks and cognitive impairment in Alzheimer disease. <i>Neurology</i> , 2013, 80, 1370-1377.	1.1	125

#	ARTICLE	IF	CITATIONS
181	Disruption of the Cerebral White Matter Network Is Related to Slowing of Information Processing Speed in Patients With Type 2 Diabetes. <i>Diabetes</i> , 2013, 62, 2112-2115.	0.6	135
182	Assessment of methods to extract the mid-sagittal plane from brain MR images. <i>Proceedings of SPIE</i> , 2013, , .	0.8	4
183	Reliability of two clinically relevant fiber pathways reconstructed with constrained spherical deconvolution. <i>Magnetic Resonance in Medicine</i> , 2013, 70, 1544-1556.	3.0	38
184	Comprehensive framework for accurate diffusion MRI parameter estimation. <i>Magnetic Resonance in Medicine</i> , 2013, 70, 972-984.	3.0	89
185	Multiple Microbleeds are Related to Cerebral Network Disruptions in Patients with Early Alzheimer's Disease. <i>Journal of Alzheimer's Disease</i> , 2013, 38, 211-221.	2.6	89
186	Assessment of Global and Regional Diffusion Changes along White Matter Tracts in Parkinsonian Disorders by MR Tractography. <i>PLoS ONE</i> , 2013, 8, e66022.	2.5	29
187	Multi-Fiber Tractography Visualizations for Diffusion MRI Data. <i>PLoS ONE</i> , 2013, 8, e81453.	2.5	24
188	Bimanual Motor Coordination in Older Adults Is Associated with Increased Functional Brain Connectivity – A Graph-Theoretical Analysis. <i>PLoS ONE</i> , 2013, 8, e62133.	2.5	43
189	Abnormal functional connectivity during visuospatial processing is associated with disrupted organisation of white matter in autism. <i>Frontiers in Human Neuroscience</i> , 2013, 7, 434.	2.0	26
190	Topological correlations of structural and functional networks in patients with traumatic brain injury. <i>Frontiers in Human Neuroscience</i> , 2013, 7, 726.	2.0	77
191	Cortical Network for Gaze Control in Humans Revealed Using Multimodal MRI. <i>Cerebral Cortex</i> , 2012, 22, 765-775.	2.9	44
192	Is There a Common Neuroanatomical Substrate of Language Deficit between Autism Spectrum Disorder and Specific Language Impairment?. <i>Cerebral Cortex</i> , 2012, 22, 2263-2271.	2.9	69
193	Temporal association tracts and the breakdown of episodic memory in mild cognitive impairment. <i>Neurology</i> , 2012, 79, 2233-2240.	1.1	88
194	Longitudinal Assessment of Chemotherapy-Induced Structural Changes in Cerebral White Matter and Its Correlation With Impaired Cognitive Functioning. <i>Journal of Clinical Oncology</i> , 2012, 30, 274-281.	1.6	334
195	Graph analysis of functional brain networks for cognitive control of action in traumatic brain injury. <i>Brain</i> , 2012, 135, 1293-1307.	7.6	117
196	Cerebral white matter and neurodevelopment of preterm infants after coagulase-negative staphylococcal sepsis. <i>Pediatric Critical Care Medicine</i> , 2012, 13, 678-684.	0.5	18
197	Diffusion Tensor Imaging of Vascular Parkinsonism. <i>Archives of Neurology</i> , 2012, 69, 1340.	4.5	41
198	Brain connectivity and postural control in young traumatic brain injury patients: A diffusion MRI based network analysis. <i>NeuroImage: Clinical</i> , 2012, 1, 106-115.	2.7	84

#	ARTICLE	IF	CITATIONS
199	2045 DIFFUSION TENSOR MRI AND TRACTOGRAPHY OF THE SACRAL PLEXUS. <i>Journal of Urology</i> , 2012, 187, .	0.4	0
200	A DTI-based model for TMS using the independent impedance method with frequency-dependent tissue parameters. <i>Physics in Medicine and Biology</i> , 2012, 57, 2169-2188.	3.0	41
201	Fronto-striatal circuitry and inhibitory control in autism: Findings from diffusion tensor imaging tractography. <i>Cortex</i> , 2012, 48, 183-193.	2.4	208
202	Microstructural white matter abnormalities in type 2 diabetes mellitus: A diffusion tensor imaging study. <i>NeuroImage</i> , 2012, 59, 1098-1105.	4.2	170
203	The influence of complex white matter architecture on the mean diffusivity in diffusion tensor MRI of the human brain. <i>NeuroImage</i> , 2012, 59, 2208-2216.	4.2	183
204	Architectural configuration and microstructural properties of the sacral plexus: A diffusion tensor MRI and fiber tractography study. <i>NeuroImage</i> , 2012, 62, 1792-1799.	4.2	59
205	Uncertainty estimations for quantitative in vivo MRI T1 mapping. <i>Journal of Magnetic Resonance</i> , 2012, 224, 53-60.	2.1	20
206	Improved Sensitivity to Cerebral White Matter Abnormalities in Alzheimer's Disease with Spherical Deconvolution Based Tractography. <i>PLoS ONE</i> , 2012, 7, e44074.	2.5	77
207	Microstructural organization of corpus callosum projections to prefrontal cortex predicts bimanual motor learning. <i>Learning and Memory</i> , 2012, 19, 351-357.	1.3	51
208	Reduced fractional anisotropy in the uncinate fasciculus in patients with major depression carrying the meta-allele of the Val66Met brain-derived neurotrophic factor genotype. <i>American Journal of Medical Genetics Part B: Neuropsychiatric Genetics</i> , 2012, 159B, 537-548.	1.7	82
209	Bimanual Coordination and Corpus Callosum Microstructure in Young Adults with Traumatic Brain Injury: A Diffusion Tensor Imaging Study. <i>Journal of Neurotrauma</i> , 2011, 28, 897-913.	3.4	58
210	Partial volume effect as a hidden covariate in DTI analyses. <i>NeuroImage</i> , 2011, 55, 1566-1576.	4.2	308
211	A comparison of MR based segmentation methods for measuring brain atrophy progression. <i>NeuroImage</i> , 2011, 54, 760-768.	4.2	50
212	The effect of template selection on diffusion tensor voxel-based analysis results. <i>NeuroImage</i> , 2011, 55, 566-573.	4.2	57
213	Diffusion Tensor Imaging. <i>Methods in Molecular Biology</i> , 2011, 711, 127-144.	0.9	197
214	Signal to noise ratio and uncertainty in diffusion tensor imaging at 1.5, 3.0, and 7.0 Tesla. <i>Journal of Magnetic Resonance Imaging</i> , 2011, 33, 1456-1463.	3.4	114
215	Diffusion tensor imaging and beyond. <i>Magnetic Resonance in Medicine</i> , 2011, 65, 1532-1556.	3.0	771
216	Probabilistic fiber tracking using the residual bootstrap with constrained spherical deconvolution. <i>Human Brain Mapping</i> , 2011, 32, 461-479.	3.6	335

#	ARTICLE	IF	CITATIONS
217	Chemotherapy-induced structural changes in cerebral white matter and its correlation with impaired cognitive functioning in breast cancer patients. <i>Human Brain Mapping</i> , 2011, 32, 480-493.	3.6	228
218	Correlations Between White Matter Integrity and Motor Function in Traumatic Brain Injury Patients. <i>Neurorehabilitation and Neural Repair</i> , 2011, 25, 492-502.	2.9	55
219	Does Diffusion Tensor Imaging-Based Tractography at 3 Months of Age Contribute to the Prediction of Motor Outcome After Perinatal Arterial Ischemic Stroke?. <i>Stroke</i> , 2011, 42, 3410-3414.	2.0	54
220	Differential corticospinal tract degeneration in homozygous 'D90A' SOD-1 ALS and sporadic ALS. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2011, 82, 843-849.	1.9	43
221	Comparing isotropic and anisotropic smoothing for voxel-based DTI analyses: A simulation study. <i>Human Brain Mapping</i> , 2010, 31, 98-114.	3.6	89
222	Construction of a stereotaxic DTI atlas with full diffusion tensor information for studying white matter maturation from childhood to adolescence using tractography-based segmentations. <i>Human Brain Mapping</i> , 2010, 31, 470-486.	3.6	81
223	Brain-behavior relationships in young traumatic brain injury patients: DTI metrics are highly correlated with postural control. <i>Human Brain Mapping</i> , 2010, 31, 992-1002.	3.6	87
224	Brain-behavior relationships in young traumatic brain injury patients: Fractional anisotropy measures are highly correlated with dynamic visuomotor tracking performance. <i>Neuropsychologia</i> , 2010, 48, 1472-1482.	1.6	72
225	Correlation of cognitive dysfunction and diffusion tensor MRI measures in patients with mild and moderate multiple sclerosis. <i>Journal of Magnetic Resonance Imaging</i> , 2010, 31, 1492-1498.	3.4	70
226	Theory and applications of diffusion MRI. , 2010, , .		1
227	Microstructural white matter changes in normal aging: A diffusion tensor imaging study with higher-order polynomial regression models. <i>NeuroImage</i> , 2010, 49, 32-43.	4.2	93
228	Structural Changes between Seasons in the Songbird Auditory Forebrain. <i>Journal of Neuroscience</i> , 2009, 29, 13557-13565.	3.6	48
229	Quantitative diffusion tensor imaging in amyotrophic lateral sclerosis: Revisited. <i>Human Brain Mapping</i> , 2009, 30, 3657-3675.	3.6	122
230	A diffusion tensor imaging group study of the spinal cord in multiple sclerosis patients with and without T ₂ spinal cord lesions. <i>Journal of Magnetic Resonance Imaging</i> , 2009, 30, 25-34.	3.4	57
231	The <i>B</i> -matrix must be rotated when correcting for subject motion in DTI data. <i>Magnetic Resonance in Medicine</i> , 2009, 61, 1336-1349.	3.0	1,204
232	Diffusion tensor imaging in a rat model of Parkinson's disease after lesioning of the nigrostriatal tract. <i>NMR in Biomedicine</i> , 2009, 22, 697-706.	2.8	65
233	On the construction of a ground truth framework for evaluating voxel-based diffusion tensor MRI analysis methods. <i>NeuroImage</i> , 2009, 46, 692-707.	4.2	52
234	Iterative Co-linearity Filtering and Parameterization of Fiber Tracts in the Entire Cingulum. <i>Lecture Notes in Computer Science</i> , 2009, 12, 853-860.	1.3	3

#	ARTICLE	IF	CITATIONS
235	A tracking-based diffusion tensor imaging segmentation method for the detection of diffusion-related changes of the cervical spinal cord with aging. <i>Journal of Magnetic Resonance Imaging</i> , 2008, 27, 978-991.	3.4	70
236	Gender differences and age-related white matter changes of the human brain: A diffusion tensor imaging study. <i>NeuroImage</i> , 2008, 39, 566-577.	4.2	274
237	Microstructural maturation of the human brain from childhood to adulthood. <i>NeuroImage</i> , 2008, 40, 1044-1055.	4.2	1,223
238	On the construction of an inter-subject diffusion tensor magnetic resonance atlas of the healthy human brain. <i>NeuroImage</i> , 2008, 43, 69-80.	4.2	76
239	Estimation of uncertainty in constrained spherical deconvolution fiber orientations. , 2008, , .		5
240	The evaluation of a population based diffusion tensor image atlas using a ground truth method. <i>Proceedings of SPIE</i> , 2008, , .	0.8	0
241	Nonrigid Coregistration of Diffusion Tensor Images Using a Viscous Fluid Model and Mutual Information. <i>IEEE Transactions on Medical Imaging</i> , 2007, 26, 1598-1612.	8.9	105
242	In vivo diffusion tensor imaging (DTI) of brain subdivisions and vocal pathways in songbirds. <i>NeuroImage</i> , 2006, 29, 754-763.	4.2	39
243	Affine Coregistration of Diffusion Tensor Magnetic Resonance Images Using Mutual Information. <i>Lecture Notes in Computer Science</i> , 2005, , 523-530.	1.3	39