

Derek K Jones

List of Publications by Citations

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166
papers

20,120
citations

56
h-index

141
g-index

186
ext. papers

23,303
ext. citations

5.3
avg, IF

7.3
L-index

#	Paper	IF	Citations
166	White matter integrity, fiber count, and other fallacies: the doBs and donBs of diffusion MRI. <i>NeuroImage</i> , 2013 , 73, 239-54	7.9	1584
165	Perisylvian language networks of the human brain. <i>Annals of Neurology</i> , 2005 , 57, 8-16	9.4	1404
164	Virtual in vivo interactive dissection of white matter fasciculi in the human brain. <i>NeuroImage</i> , 2002 , 17, 77-94	7.9	1288
163	Diffusion-tensor MRI: theory, experimental design and data analysis - a technical review. <i>NMR in Biomedicine</i> , 2002 , 15, 456-67	4.4	1114
162	The B-matrix must be rotated when correcting for subject motion in DTI data. <i>Magnetic Resonance in Medicine</i> , 2009 , 61, 1336-49	4.4	974
161	Occipito-temporal connections in the human brain. <i>Brain</i> , 2003 , 126, 2093-107	11.2	698
160	Investigating the prevalence of complex fiber configurations in white matter tissue with diffusion magnetic resonance imaging. <i>Human Brain Mapping</i> , 2013 , 34, 2747-66	5.9	635
159	The effect of gradient sampling schemes on measures derived from diffusion tensor MRI: a Monte Carlo study. <i>Magnetic Resonance in Medicine</i> , 2004 , 51, 807-15	4.4	624
158	Twenty-five pitfalls in the analysis of diffusion MRI data. <i>NMR in Biomedicine</i> , 2010 , 23, 803-20	4.4	585
157	The effect of filter size on VBM analyses of DT-MRI data. <i>NeuroImage</i> , 2005 , 26, 546-54	7.9	503
156	Non-invasive assessment of axonal fiber connectivity in the human brain via diffusion tensor MRI. <i>Magnetic Resonance in Medicine</i> , 1999 , 42, 37-41	4.4	493
155	Symmetries in human brain language pathways correlate with verbal recall. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 17163-8	11.5	480
154	RESTORE: robust estimation of tensors by outlier rejection. <i>Magnetic Resonance in Medicine</i> , 2005 , 53, 1088-95	4.4	476
153	Acquisition and voxelwise analysis of multi-subject diffusion data with tract-based spatial statistics. <i>Nature Protocols</i> , 2007 , 2, 499-503	18.8	472
152	"Squashing peanuts and smashing pumpkins": how noise distorts diffusion-weighted MR data. <i>Magnetic Resonance in Medicine</i> , 2004 , 52, 979-93	4.4	444
151	Resting GABA concentration predicts peak gamma frequency and fMRI amplitude in response to visual stimulation in humans. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 8356-61	11.5	440
150	Studying connections in the living human brain with diffusion MRI. <i>Cortex</i> , 2008 , 44, 936-52	3.8	373

149	Applications of diffusion-weighted and diffusion tensor MRI to white matter diseases - a review. <i>NMR in Biomedicine</i> , 2002 , 15, 570-7	4.4	370
148	Cleaning multicomponent T1 and T2 information from steady-state imaging data. <i>Magnetic Resonance in Medicine</i> , 2008 , 60, 1372-87	4.4	346
147	Determining and visualizing uncertainty in estimates of fiber orientation from diffusion tensor MRI. <i>Magnetic Resonance in Medicine</i> , 2003 , 49, 7-12	4.4	296
146	Probabilistic fiber tracking using the residual bootstrap with constrained spherical deconvolution. <i>Human Brain Mapping</i> , 2011 , 32, 461-79	5.9	279
145	Partial volume effect as a hidden covariate in DTI analyses. <i>NeuroImage</i> , 2011 , 55, 1566-76	7.9	268
144	Characterization of white matter damage in ischemic leukoaraiosis with diffusion tensor MRI. <i>Stroke</i> , 1999 , 30, 393-7	6.7	242
143	Altered cerebellar feedback projections in Asperger syndrome. <i>NeuroImage</i> , 2008 , 41, 1184-91	7.9	222
142	Challenges and limitations of quantifying brain connectivity in vivo with diffusion MRI. <i>Imaging in Medicine</i> , 2010 , 2, 341-355	1	209
141	How and how not to correct for CSF-contamination in diffusion MRI. <i>NeuroImage</i> , 2012 , 59, 1394-403	7.9	208
140	A diffusion tensor imaging study of fasciculi in schizophrenia. <i>American Journal of Psychiatry</i> , 2007 , 164, 467-73	11.9	208
139	Age effects on diffusion tensor magnetic resonance imaging tractography measures of frontal cortex connections in schizophrenia. <i>Human Brain Mapping</i> , 2006 , 27, 230-8	5.9	201
138	Frontotemporal connections in episodic memory and aging: a diffusion MRI tractography study. <i>Journal of Neuroscience</i> , 2011 , 31, 13236-45	6.6	165
137	Why diffusion tensor MRI does well only some of the time: variance and covariance of white matter tissue microstructure attributes in the living human brain. <i>NeuroImage</i> , 2014 , 89, 35-44	7.9	154
136	Diffusion tensor imaging. <i>Methods in Molecular Biology</i> , 2011 , 711, 127-44	1.4	154
135	The influence of complex white matter architecture on the mean diffusivity in diffusion tensor MRI of the human brain. <i>NeuroImage</i> , 2012 , 59, 2208-16	7.9	146
134	Tract-specific anisotropy measurements in diffusion tensor imaging. <i>Psychiatry Research - Neuroimaging</i> , 2006 , 146, 73-82	2.9	132
133	Visual gamma oscillations and evoked responses: variability, repeatability and structural MRI correlates. <i>NeuroImage</i> , 2010 , 49, 3349-57	7.9	128
132	Confidence mapping in diffusion tensor magnetic resonance imaging tractography using a bootstrap approach. <i>Magnetic Resonance in Medicine</i> , 2005 , 53, 1143-9	4.4	118

131	Cingulum microstructure predicts cognitive control in older age and mild cognitive impairment. <i>Journal of Neuroscience</i> , 2012 , 32, 17612-9	6.6	116
130	A systematic review of diffusion tensor imaging findings in sports-related concussion. <i>Journal of Neurotrauma</i> , 2012 , 29, 2521-38	5.4	115
129	Tractography gone wild: probabilistic fibre tracking using the wild bootstrap with diffusion tensor MRI. <i>IEEE Transactions on Medical Imaging</i> , 2008 , 27, 1268-74	11.7	105
128	Neuroplasticity and functional recovery in multiple sclerosis. <i>Nature Reviews Neurology</i> , 2012 , 8, 635-46	15	100
127	Standardized structural magnetic resonance imaging in multicentre studies using quantitative T1 and T2 imaging at 1.5 T. <i>NeuroImage</i> , 2008 , 40, 662-671	7.9	97
126	The CONNECT project: Combining macro- and micro-structure. <i>NeuroImage</i> , 2013 , 80, 273-82	7.9	93
125	Task complexity and location specific changes of cortical thickness in executive and salience networks after working memory training. <i>NeuroImage</i> , 2016 , 130, 48-62	7.9	91
124	PASTA: pointwise assessment of streamline tractography attributes. <i>Magnetic Resonance in Medicine</i> , 2005 , 53, 1462-7	4.4	88
123	Cingulum white matter in young women at risk of depression: the effect of family history and anhedonia. <i>Biological Psychiatry</i> , 2012 , 72, 296-302	7.9	78
122	Emotion regulation deficits in euthymic bipolar I versus bipolar II disorder: a functional and diffusion-tensor imaging study. <i>Bipolar Disorders</i> , 2015 , 17, 461-70	3.8	77
121	Including diffusion time dependence in the extra-axonal space improves in vivo estimates of axonal diameter and density in human white matter. <i>NeuroImage</i> , 2016 , 130, 91-103	7.9	73
120	Temporal association tracts and the breakdown of episodic memory in mild cognitive impairment. <i>Neurology</i> , 2012 , 79, 2233-40	6.5	70
119	Noninvasive quantification of axon radii using diffusion MRI. <i>ELife</i> , 2020 , 9,	8.9	67
118	White matter integrity in Asperger syndrome: a preliminary diffusion tensor magnetic resonance imaging study in adults. <i>Autism Research</i> , 2010 , 3, 203-13	5.1	65
117	A longitudinal study of diffusion tensor MRI in ALS. <i>Amyotrophic Lateral Sclerosis and Other Motor Neuron Disorders</i> , 2007 , 8, 348-55		65
116	Diffusion tensor MRI of the corpus callosum and cognitive function in adults born preterm. <i>NeuroReport</i> , 2009 , 20, 424-8	1.7	64
115	A Diffusion Tensor Magnetic Resonance Imaging Study of Frontal Cortex Connections in Very-Late-Onset Schizophrenia-Like Psychosis. <i>American Journal of Geriatric Psychiatry</i> , 2005 , 13, 1092-1099	6.5	64
114	Relationships between cortical myeloarchitecture and electrophysiological networks. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 13510-13515	11.5	63

113	Precision and accuracy in diffusion tensor magnetic resonance imaging. <i>Topics in Magnetic Resonance Imaging</i> , 2010 , 21, 87-99	2.3	59
112	Dynamics of the Human Structural Connectome Underlying Working Memory Training. <i>Journal of Neuroscience</i> , 2016 , 36, 4056-66	6.6	57
111	Motion correction and registration of high b-value diffusion weighted images. <i>Magnetic Resonance in Medicine</i> , 2012 , 67, 1694-702	4.4	55
110	Cluster analysis of diffusion tensor magnetic resonance images in human head injury. <i>Neurosurgery</i> , 2000 , 47, 306-13; discussion 313-4	3.2	53
109	CSF contamination contributes to apparent microstructural alterations in mild cognitive impairment. <i>NeuroImage</i> , 2014 , 92, 27-35	7.9	51
108	Schizophrenia-like topological changes in the structural connectome of individuals with subclinical psychotic experiences. <i>Human Brain Mapping</i> , 2015 , 36, 2629-43	5.9	50
107	Neural self-representation in autistic women and association with compensatory camouflaging. <i>Autism</i> , 2019 , 23, 1210-1223	6.6	49
106	Cross-scanner and cross-protocol diffusion MRI data harmonisation: A benchmark database and evaluation of algorithms. <i>NeuroImage</i> , 2019 , 195, 285-299	7.9	46
105	Spatial and orientational heterogeneity in the statistical sensitivity of skeleton-based analyses of diffusion tensor MR imaging data. <i>Journal of Neuroscience Methods</i> , 2011 , 201, 213-9	3	46
104	Resolving relaxometry and diffusion properties within the same voxel in the presence of crossing fibres by combining inversion recovery and diffusion-weighted acquisitions. <i>Magnetic Resonance in Medicine</i> , 2016 , 75, 372-80	4.4	45
103	MRI based diffusion and perfusion predictive model to estimate stroke evolution. <i>Magnetic Resonance Imaging</i> , 2001 , 19, 1043-53	3.3	43
102	Microstructural organization of cerebellar tracts in schizophrenia. <i>Biological Psychiatry</i> , 2009 , 66, 1067-97.9		42
101	Cortical network for gaze control in humans revealed using multimodal MRI. <i>Cerebral Cortex</i> , 2012 , 22, 765-75	5.1	41
100	Dynamics of White Matter Plasticity Underlying Working Memory Training: Multimodal Evidence from Diffusion MRI and Relaxometry. <i>Journal of Cognitive Neuroscience</i> , 2017 , 29, 1509-1520	3.1	39
99	The dot-compartment revealed? Diffusion MRI with ultra-strong gradients and spherical tensor encoding in the living human brain. <i>NeuroImage</i> , 2020 , 210, 116534	7.9	39
98	Dimensionality reduction of diffusion MRI measures for improved tractometry of the human brain. <i>NeuroImage</i> , 2019 , 200, 89-100	7.9	38
97	T1 relaxometry of crossing fibres in the human brain. <i>NeuroImage</i> , 2016 , 141, 133-142	7.9	38
96	Resolving degeneracy in diffusion MRI biophysical model parameter estimation using double diffusion encoding. <i>Magnetic Resonance in Medicine</i> , 2019 , 82, 395-410	4.4	37

95	White matter microstructure in 22q11 deletion syndrome: a pilot diffusion tensor imaging and voxel-based morphometry study of children and adolescents. <i>Journal of Neurodevelopmental Disorders</i> , 2010 , 2, 77-92	4.6	37
94	Investigating exchange and multicomponent relaxation in fully-balanced steady-state free precession imaging. <i>Journal of Magnetic Resonance Imaging</i> , 2008 , 27, 1421-9	5.6	34
93	Impact of b-value on estimates of apparent fibre density. <i>Human Brain Mapping</i> , 2020 , 41, 2583-2595	5.9	33
92	Cholinergic basal forebrain structure influences the reconfiguration of white matter connections to support residual memory in mild cognitive impairment. <i>Journal of Neuroscience</i> , 2015 , 35, 739-47	6.6	32
91	Improving the Reliability of Network Metrics in Structural Brain Networks by Integrating Different Network Weighting Strategies into a Single Graph. <i>Frontiers in Neuroscience</i> , 2017 , 11, 694	5.1	32
90	Mapping Structural Connectivity Using Diffusion MRI: Challenges and Opportunities. <i>Journal of Magnetic Resonance Imaging</i> , 2021 , 53, 1666-1682	5.6	31
89	Limbic white matter microstructure plasticity reflects recovery from depression. <i>Journal of Affective Disorders</i> , 2015 , 170, 143-9	6.6	30
88	Exploring neural dysfunction in clinical high risk for psychosis: a quantitative review of fMRI studies. <i>Journal of Psychiatric Research</i> , 2015 , 61, 122-34	5.2	30
87	Global Efficiency of Structural Networks Mediates Cognitive Control in Mild Cognitive Impairment. <i>Frontiers in Aging Neuroscience</i> , 2016 , 8, 292	5.3	30
86	Estimating axon conduction velocity in vivo from microstructural MRI. <i>NeuroImage</i> , 2019 , 203, 116186	7.9	29
85	Spatial Normalization and Averaging of Diffusion Tensor MRI Data Sets 2002 , 17, 592-592		29
84	The structural connectome in traumatic brain injury: A meta-analysis of graph metrics. <i>Neuroscience and Biobehavioral Reviews</i> , 2019 , 99, 128-137	9	29
83	Myelin Breakdown in Human Huntington's Disease: Multi-Modal Evidence from Diffusion MRI and Quantitative Magnetization Transfer. <i>Neuroscience</i> , 2019 , 403, 79-92	3.9	29
82	White Matter Microstructure and Cognitive Function in Young Women With Polycystic Ovary Syndrome. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2016 , 101, 314-23	5.6	28
81	Individual differences in fornix microstructure and body mass index. <i>PLoS ONE</i> , 2013 , 8, e59849	3.7	28
80	Evidence for Training-Dependent Structural Neuroplasticity in Brain-Injured Patients: A Critical Review. <i>Neurorehabilitation and Neural Repair</i> , 2018 , 32, 99-114	4.7	27
79	Dissociable roles of the inferior longitudinal fasciculus and fornix in face and place perception. <i>ELife</i> , 2015 , 4,	8.9	26
78	Fornix white matter glia damage causes hippocampal gray matter damage during age-dependent limbic decline. <i>Scientific Reports</i> , 2019 , 9, 1060	4.9	25

77	Mediation of Developmental Risk Factors for Psychosis by White Matter Microstructure in Young Adults With Psychotic Experiences. <i>JAMA Psychiatry</i> , 2016 , 73, 396-406	14.5	25
76	Improved Executive Function and Callosal White Matter Microstructure after Rhythm Exercise in Huntington's Disease. <i>Journal of Huntington's Disease</i> , 2014 , 3, 273-83	1.9	24
75	Interindividual variation in fornix microstructure and macrostructure is related to visual discrimination accuracy for scenes but not faces. <i>Journal of Neuroscience</i> , 2014 , 34, 12121-6	6.6	24
74	Using the biophysical CHARMED model to elucidate the underpinnings of contrast in diffusional kurtosis analysis of diffusion-weighted MRI. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2012 , 25, 267-76	2.8	24
73	The future for diffusion tensor imaging in neuropsychiatry. <i>Journal of Neuropsychiatry and Clinical Neurosciences</i> , 2002 , 14, 1-5	2.7	24
72	Comparing MRI metrics to quantify white matter microstructural damage in multiple sclerosis. <i>Human Brain Mapping</i> , 2019 , 40, 2917-2932	5.9	23
71	Subgenual Cingulum Microstructure Supports Control of Emotional Conflict. <i>Cerebral Cortex</i> , 2016 , 26, 2850-62	5.1	23
70	Parsimonious model selection for tissue segmentation and classification applications: a study using simulated and experimental DTI data. <i>IEEE Transactions on Medical Imaging</i> , 2007 , 26, 1576-84	11.7	22
69	Meyer's loop tractography for image-guided surgery depends on imaging protocol and hardware. <i>NeuroImage: Clinical</i> , 2018 , 20, 458-465	5.3	21
68	Investigating the effect of exchange and multicomponent T(1) relaxation on the short repetition time spoiled steady-state signal and the DESPOT1 T(1) quantification method. <i>Journal of Magnetic Resonance Imaging</i> , 2007 , 25, 570-8	5.6	21
67	Tractography in the presence of multiple sclerosis lesions. <i>NeuroImage</i> , 2020 , 209, 116471	7.9	20
66	Optimization of graph construction can significantly increase the power of structural brain network studies. <i>NeuroImage</i> , 2019 , 199, 495-511	7.9	19
65	Psychotic Experiences, Working Memory, and the Developing Brain: A Multimodal Neuroimaging Study. <i>Cerebral Cortex</i> , 2015 , 25, 4828-38	5.1	19
64	ADHD severity is associated with white matter microstructure in the subgenual cingulum. <i>NeuroImage: Clinical</i> , 2015 , 7, 653-60	5.3	18
63	Just how much data need to be collected for reliable bootstrap DT-MRI?. <i>Magnetic Resonance in Medicine</i> , 2006 , 56, 884-90	4.4	18
62	Myelination of the right parahippocampal cingulum is associated with physical activity in young healthy adults. <i>Brain Structure and Function</i> , 2016 , 221, 4537-4548	4	18
61	Cross-scanner and cross-protocol multi-shell diffusion MRI data harmonization: Algorithms and results. <i>NeuroImage</i> , 2020 , 221, 117128	7.9	17
60	Structural and Functional Neuroimaging of Polygenic Risk for Schizophrenia: A Recall-by-Genotype-Based Approach. <i>Schizophrenia Bulletin</i> , 2019 , 45, 405-414	1.3	17

59	A Critical Review of White Matter Changes in Huntington's Disease. <i>Movement Disorders</i> , 2020 , 35, 1302-1311	16
58	Network diffusion modeling predicts neurodegeneration in traumatic brain injury. <i>Annals of Clinical and Translational Neurology</i> , 2020 , 7, 270-279	5.3 15
57	A comparative study of gradient nonlinearity correction strategies for processing diffusion data obtained with ultra-strong gradient MRI scanners. <i>Magnetic Resonance in Medicine</i> , 2021 , 85, 1104-1113	4.4 15
56	Robust MR-based approaches to quantifying white matter structure and structure/function alterations in Huntington's disease. <i>Journal of Neuroscience Methods</i> , 2016 , 265, 2-12	3 13
55	The sensitivity of diffusion MRI to microstructural properties and experimental factors. <i>Journal of Neuroscience Methods</i> , 2021 , 347, 108951	3 13
54	Longitudinal in vivo MRI in a Huntington's disease mouse model: Global atrophy in the absence of white matter microstructural damage. <i>Scientific Reports</i> , 2016 , 6, 32423	4.9 12
53	White matter microstructure predicts autistic traits in attention-deficit/hyperactivity disorder. <i>Journal of Autism and Developmental Disorders</i> , 2014 , 44, 2742-54	4.6 12
52	Computing and visualising intra-voxel orientation-specific relaxation-diffusion features in the human brain. <i>Human Brain Mapping</i> , 2021 , 42, 310-328	5.9 12
51	Topographic separation of fornical fibers associated with the anterior and posterior hippocampus in the human brain: An MRI-diffusion study. <i>Brain and Behavior</i> , 2017 , 7, e00604	3.4 11
50	White matter organization in developmental coordination disorder: A pilot study exploring the added value of constrained spherical deconvolution. <i>NeuroImage: Clinical</i> , 2019 , 21, 101625	5.3 11
49	Sex-specific effects of central adiposity and inflammatory markers on limbic microstructure. <i>NeuroImage</i> , 2019 , 189, 793-803	7.9 11
48	Genetic risk for schizophrenia and developmental delay is associated with shape and microstructure of midline white-matter structures. <i>Translational Psychiatry</i> , 2019 , 9, 102	8.6 11
47	Strong diffusion gradients allow the separation of intra- and extra-axonal gradient-echo signals in the human brain. <i>NeuroImage</i> , 2020 , 217, 116793	7.9 11
46	Direction-averaged diffusion-weighted MRI signal using different axisymmetric B-tensor encoding schemes. <i>Magnetic Resonance in Medicine</i> , 2020 , 84, 1579-1591	4.4 11
45	A diffusion model-free framework with echo time dependence for free-water elimination and brain tissue microstructure characterization. <i>Magnetic Resonance in Medicine</i> , 2018 , 80, 2155-2172	4.4 11
44	The Superoanterior Fasciculus (SAF): A Novel White Matter Pathway in the Human Brain?. <i>Frontiers in Neuroanatomy</i> , 2019 , 13, 24	3.6 11
43	The variability of MR axon radii estimates in the human white matter. <i>Human Brain Mapping</i> , 2021 , 42, 2201-2213	5.9 11
42	Resolving bundle-specific intra-axonal T values within a voxel using diffusion-relaxation tract-based estimation. <i>NeuroImage</i> , 2021 , 227, 117617	7.9 11

41	Muti-shell Diffusion MRI Harmonisation and Enhancement Challenge (MUSHAC): Progress and Results. <i>Mathematics and Visualization</i> , 2019 , 217-224	0.6	10
40	Imaging Alzheimer's genetic risk using diffusion MRI: A systematic review. <i>NeuroImage: Clinical</i> , 2020 , 27, 102359	5.3	9
39	Volumetric, relaxometric and diffusometric correlates of psychotic experiences in a non-clinical sample of young adults. <i>NeuroImage: Clinical</i> , 2016 , 12, 550-558	5.3	9
38	MICRA: Microstructural image compilation with repeated acquisitions. <i>NeuroImage</i> , 2021 , 225, 117406	7.9	9
37	Predicting MEG resting-state functional connectivity from microstructural information. <i>Network Neuroscience</i> , 2021 , 5, 477-504	5.6	8
36	q-Space Novelty Detection with Variational Autoencoders. <i>Mathematics and Visualization</i> , 2020 , 113-124	0.6	7
35	Toward more robust and reproducible diffusion kurtosis imaging. <i>Magnetic Resonance in Medicine</i> , 2021 , 86, 1600-1613	4.4	7
34	Measuring compartmental T-orientational dependence in human brain white matter using a tiltable RF coil and diffusion-T correlation MRI. <i>NeuroImage</i> , 2021 , 236, 117967	7.9	7
33	Acquiring and Predicting Multidimensional Diffusion (MUDI) Data: An Open Challenge. <i>Mathematics and Visualization</i> , 2020 , 195-208	0.6	6
32	MRI Indices of Cortical Development in Young People With Psychotic Experiences: Influence of Genetic Risk and Persistence of Symptoms. <i>Schizophrenia Bulletin</i> , 2019 , 45, 169-179	1.3	6
31	In Vivo MRI Evidence that Neuropathology is Attenuated by Cognitive Enrichment in the Yac128 Huntington's Disease Mouse Model. <i>Journal of Huntington's Disease</i> , 2015 , 4, 149-60	1.9	5
30	Gaussian Modeling of the Diffusion Signal 2014 , 87-104		5
29	Microscopic susceptibility anisotropy imaging. <i>Magnetic Resonance in Medicine</i> , 2020 , 84, 2739-2753	4.4	4
28	Application of diffusion tensor MRI to neurological segmentation. <i>International Journal of Imaging Systems and Technology</i> , 1999 , 10, 273-286	2.5	4
27	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	5.9	4
26	SPHERIOUSLY? The challenges of estimating sphere radius non-invasively in the human brain from diffusion MRI. <i>NeuroImage</i> , 2021 , 237, 118183	7.9	4
25	Comparison of Different Tensor Encoding Combinations in Microstructural Parameter Estimation 2019 ,		3
24	Obtaining Representative Core Streamlines for White Matter Tractometry of the Human Brain. <i>Mathematics and Visualization</i> , 2019 , 359-366	0.6	3

23	Simultaneous Parameter Mapping, Modality Synthesis, and Anatomical Labeling of the Brain with MR Fingerprinting. <i>Lecture Notes in Computer Science</i> , 2016 , 579-586	0.9	3
22	The impact of graph construction scheme and community detection algorithm on the repeatability of community and hub identification in structural brain networks. <i>Human Brain Mapping</i> , 2021 , 42, 4261-4280	5.9	3
21	Predictors of training-related improvement in visuomotor performance in patients with multiple sclerosis: A behavioural and MRI study. <i>Multiple Sclerosis Journal</i> , 2021 , 27, 1088-1101	5	3
20	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	7.9	3
19	Drumming Motor Sequence Training Induces Apparent Myelin Remodelling in Huntington's Disease: A Longitudinal Diffusion MRI and Quantitative Magnetization Transfer Study. <i>Journal of Huntington's Disease</i> , 2020 , 9, 303-320	1.9	2
18	The Impact of Graph Construction Scheme and Community Detection Algorithm on the Repeatability of Community and Hub Identification in Structural Brain Networks		2
17	Validating pore size estimates in a complex microfiber environment on a human MRI system. <i>Magnetic Resonance in Medicine</i> , 2021 , 86, 1514-1530	4.4	2
16	Apparent propagator anisotropy from single-shell diffusion MRI acquisitions. <i>Magnetic Resonance in Medicine</i> , 2021 , 85, 2869-2881	4.4	2
15	Computing the orientational-average of diffusion-weighted MRI signals: a comparison of different techniques. <i>Scientific Reports</i> , 2021 , 11, 14345	4.9	2
14	Detecting microstructural deviations in individuals with deep diffusion MRI tractometry. <i>Nature Computational Science</i> , 2021 , 1, 598-606		2
13	Full-field MRI measurements of in-vivo positional brain shift reveal the significance of intra-cranial geometry and head orientation for stereotactic surgery. <i>Scientific Reports</i> , 2021 , 11, 17684	4.9	2
12	Population neuroimaging: generation of a comprehensive data resource within the ALSPAC pregnancy and birth cohort. <i>Wellcome Open Research</i> , 2020 , 5, 203	4.8	1
11	DWI Simulation-Assisted Machine Learning Models for Microstructure Estimation. <i>Mathematics and Visualization</i> , 2020 , 125-134	0.6	1
10	Joint Reconstruction of Multi-Contrast MRI for Multiple Sclerosis Lesion Segmentation. <i>Informatik Aktuell</i> , 2015 , 155-160	0.3	1
9	Longitudinal data on cortical thickness before and after working memory training. <i>Data in Brief</i> , 2016 , 7, 1143-7	1.2	1
8	Multi-compartment analysis of the complex gradient-echo signal quantifies myelin breakdown in premanifest Huntington's disease. <i>NeuroImage: Clinical</i> , 2021 , 30, 102658	5.3	1
7	Improving the Predictions of Computational Models of Convection-Enhanced Drug Delivery by Accounting for Diffusion Non-gaussianity. <i>Frontiers in Neurology</i> , 2018 , 9, 1092	4.1	1
6	Global Brain Flexibility During Working Memory Is Reduced in a High-Genetic-Risk Group for Schizophrenia. <i>Biological Psychiatry: Cognitive Neuroscience and Neuroimaging</i> , 2021 , 6, 1176-1184	3.4	0

- 5 Interactive Computation and Visualization of Structural Connectomes in Real-Time. *Lecture Notes in Computer Science*, **2017**, 35-41 0.9
- 4 Fundamentals of diffusion MR imaging 44-67
- 3 Alternative Diffusion Anisotropy Metric from Reduced MRI Acquisitions. *Mathematics and Visualization*, **2020**, 13-24 0.6
- 2 Magnetic Resonance Imaging of (T₂)- and Diffusion Anisotropy Using a Tilttable Receive Coil. *Mathematics and Visualization*, **2021**, 247-262 0.6
- 1 Q-Space Quantitative Diffusion MRI Measures Using a Stretched-Exponential Representation. *Mathematics and Visualization*, **2021**, 121-133 0.6