Derek K Jones

List of Publications by Year
in descending order

172	25,092	59	151
papers	citations	h-index	g-index
		22153	7518

186	186	186	20206
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	White matter integrity, fiber count, and other fallacies: The do's and don'ts of diffusion MRI. NeuroImage, 2013, 73, 239-254.	4.2	2,042
2	Perisylvian language networks of the human brain. Annals of Neurology, 2005, 57, 8-16.	5.3	1,684
3	Virtual in Vivo Interactive Dissection of White Matter Fasciculi in the Human Brain. NeuroImage, 2002, 17, 77-94.	4.2	1,515
4	Diffusion-tensor MRI: theory, experimental design and data analysis - a technical review. NMR in Biomedicine, 2002, 15, 456-467.	2.8	1,291
5	The <i>B</i>â€matrix must be rotated when correcting for subject motion in DTI data. Magnetic Resonance in Medicine, 2009, 61, 1336-1349.	3.0	1,204
6	Investigating the prevalence of complex fiber configurations in white matter tissue with diffusion magnetic resonance imaging. Human Brain Mapping, 2013, 34, 2747-2766.	3.6	887
7	Occipito-temporal connections in the human brain. Brain, 2003, 126, 2093-2107.	7.6	829
8	Twentyâ€five pitfalls in the analysis of diffusion MRI data. NMR in Biomedicine, 2010, 23, 803-820.	2.8	717
9	The effect of gradient sampling schemes on measures derived from diffusion tensor MRI: A Monte Carlo studyâ€. Magnetic Resonance in Medicine, 2004, 51, 807-815.	3.0	714
10	RESTORE: Robust estimation of tensors by outlier rejection. Magnetic Resonance in Medicine, 2005, 53, 1088-1095.	3.0	573
11	Symmetries in human brain language pathways correlate with verbal recall. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 17163-17168.	7.1	558
12	The effect of filter size on VBM analyses of DT-MRI data. NeuroImage, 2005, 26, 546-554.	4.2	549
13	Non-invasive assessment of axonal fiber connectivity in the human brain via diffusion tensor MRI. Magnetic Resonance in Medicine, 1999, 42, 37-41.	3.0	544
14	?Squashing peanuts and smashing pumpkins?: How noise distorts diffusion-weighted MR data. Magnetic Resonance in Medicine, 2004, 52, 979-993.	3.0	527
15	Acquisition and voxelwise analysis of multi-subject diffusion data with Tract-Based Spatial Statistics. Nature Protocols, 2007, 2, 499-503.	12.0	526
16	Resting GABA concentration predicts peak gamma frequency and fMRI amplitude in response to visual stimulation in humans. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 8356-8361.	7.1	503
17	Applications of diffusion-weighted and diffusion tensor MRI to white matter diseases - a review. NMR in Biomedicine, 2002, 15, 570-577.	2.8	435
18	Studying connections in the living human brain with diffusion MRI. Cortex, 2008, 44, 936-952.	2.4	435

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19	Gleaning multicomponent <i>T</i>₁ and <i>T</i>₂ information from steadyâ€state imaging data. Magnetic Resonance in Medicine, 2008, 60, 1372-1387.	3.0	413
20	Probabilistic fiber tracking using the residual bootstrap with constrained spherical deconvolution. Human Brain Mapping, 2011, 32, 461-479.	3.6	335
21	Determining and visualizing uncertainty in estimates of fiber orientation from diffusion tensor MRI. Magnetic Resonance in Medicine, 2003, 49, 7-12.	3.0	332
22	Partial volume effect as a hidden covariate in DTI analyses. NeuroImage, 2011, 55, 1566-1576.	4.2	308
23	Characterization of White Matter Damage in Ischemic Leukoaraiosis with Diffusion Tensor MRI. Stroke, 1999, 30, 393-397.	2.0	302
24	Challenges and limitations of quantifying brain connectivity<i>in vivo</i>with diffusion MRI. Imaging in Medicine, 2010, 2, 341-355.	0.0	284
25	Altered cerebellar feedback projections in Asperger syndrome. NeuroImage, 2008, 41, 1184-1191.	4.2	259
26	How and how not to correct for CSF-contamination in diffusion MRI. NeuroImage, 2012, 59, 1394-1403.	4.2	257
27	Age effects on diffusion tensor magnetic resonance imaging tractography measures of frontal cortex connections in schizophrenia. Human Brain Mapping, 2006, 27, 230-238.	3.6	224
28	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. NeuroImage, 2014, 89, 35-44.	4.2	224
29	A Diffusion Tensor Imaging Study of Fasciculi in Schizophrenia. American Journal of Psychiatry, 2007, 164, 467-473.	7.2	223
30	Frontotemporal Connections in Episodic Memory and Aging: A Diffusion MRI Tractography Study. Journal of Neuroscience, 2011, 31, 13236-13245.	3.6	205
31	Diffusion Tensor Imaging. Methods in Molecular Biology, 2011, 711, 127-144.	0.9	197
32	The influence of complex white matter architecture on the mean diffusivity in diffusion tensor MRI of the human brain. NeuroImage, 2012, 59, 2208-2216.	4.2	183
33	Visual gamma oscillations and evoked responses: Variability, repeatability and structural MRI correlates. NeuroImage, 2010, 49, 3349-3357.	4.2	158
34	Tract-specific anisotropy measurements in diffusion tensor imaging. Psychiatry Research - Neuroimaging, 2006, 146, 73-82.	1.8	148
35	Cingulum Microstructure Predicts Cognitive Control in Older Age and Mild Cognitive Impairment. Journal of Neuroscience, 2012, 32, 17612-17619.	3.6	148
36	Noninvasive quantification of axon radii using diffusion MRI. ELife, 2020, 9, .	6.0	137

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37	Confidence mapping in diffusion tensor magnetic resonance imaging tractography using a bootstrap approach. Magnetic Resonance in Medicine, 2005, 53, 1143-1149.	3.0	133
38	Tractography Gone Wild: Probabilistic Fibre Tracking Using the Wild Bootstrap With Diffusion Tensor MRI. IEEE Transactions on Medical Imaging, 2008, 27, 1268-1274.	8.9	133
39	A Systematic Review of Diffusion Tensor Imaging Findings in Sports-Related Concussion. Journal of Neurotrauma, 2012, 29, 2521-2538.	3.4	131
40	Neuroplasticity and functional recovery in multiple sclerosis. Nature Reviews Neurology, 2012, 8, 635-646.	10.1	128
41	The CONNECT project: Combining macro- and micro-structure. NeuroImage, 2013, 80, 273-282.	4.2	121
42	PASTA: Pointwise assessment of streamline tractography attributes. Magnetic Resonance in Medicine, 2005, 53, 1462-1467.	3.0	113
43	Standardized structural magnetic resonance imaging in multicentre studies using quantitative T 1 and T 2 imaging at 1.5ÂT. NeuroImage, 2008, 40, 662-671.	4.2	110
44	Task complexity and location specific changes of cortical thickness in executive and salience networks after working memory training. NeuroImage, 2016, 130, 48-62.	4.2	105
45	Relationships between cortical myeloarchitecture and electrophysiological networks. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 13510-13515.	7.1	96
46	Cingulum White Matter in Young Women at Risk of Depression: The Effect of Family History and Anhedonia. Biological Psychiatry, 2012, 72, 296-302.	1.3	95
47	Mapping Structural Connectivity Using Diffusion <scp>MRI</scp>: Challenges and Opportunities. Journal of Magnetic Resonance Imaging, 2021, 53, 1666-1682.	3.4	95
48	Emotion regulation deficits in euthymic bipolar I versus bipolar <scp>II</scp> disorder: a functional and diffusionâ€tensor imaging study. Bipolar Disorders, 2015, 17, 461-470.	1.9	93
49	Including diffusion time dependence in the extra-axonal space improves in vivo estimates of axonal diameter and density in human white matter. NeuroImage, 2016, 130, 91-103.	4.2	92
50	Cross-scanner and cross-protocol diffusion MRI data harmonisation: A benchmark database and evaluation of algorithms. NeuroImage, 2019, 195, 285-299.	4.2	92
51	Temporal association tracts and the breakdown of episodic memory in mild cognitive impairment. Neurology, 2012, 79, 2233-2240.	1.1	88
52	Neural self-representation in autistic women and association with â€˜compensatory camouflagingâ€™. Autism, 2019, 23, 1210-1223.	4.1	86
53	Dimensionality reduction of diffusion MRI measures for improved tractometry of the human brain. NeuroImage, 2019, 200, 89-100.	4.2	84
54	Dynamics of the Human Structural Connectome Underlying Working Memory Training. Journal of Neuroscience, 2016, 36, 4056-4066.	3.6	82

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55	Diffusion tensor MRI of the corpus callosum and cognitive function in adults born preterm. NeuroReport, 2009, 20, 424-428.	1.2	76
56	A Diffusion Tensor Magnetic Resonance Imaging Study of Frontal Cortex Connections in Very-Late-Onset Schizophrenia-Like Psychosis. American Journal of Geriatric Psychiatry, 2005, 13, 1092-1099.	1.2	71
57	A longitudinal study of diffusion tensor MRI in ALS. Amyotrophic Lateral Sclerosis and Other Motor Neuron Disorders, 2007, 8, 348-355.	2.1	71
58	White matter integrity in Asperger syndrome: a preliminary diffusion tensor magnetic resonance imaging study in adults. Autism Research, 2010, 3, 203-213.	3.8	71
59	Precision and Accuracy in Diffusion Tensor Magnetic Resonance Imaging. Topics in Magnetic Resonance Imaging, 2010, 21, 87-99.	1.2	69
60	Motion correction and registration of high <i>b</i>â€value diffusion weighted images. Magnetic Resonance in Medicine, 2012, 67, 1694-1702.	3.0	69
61	Schizophreniaâ€like topological changes in the structural connectome of individuals with subclinical psychotic experiences. Human Brain Mapping, 2015, 36, 2629-2643.	3.6	66
62	CSF contamination contributes to apparent microstructural alterations in mild cognitive impairment. NeuroImage, 2014, 92, 27-35.	4.2	64
63	Impact of <i>b</i>â€value on estimates of apparent fibre density. Human Brain Mapping, 2020, 41, 2583-2595.	3.6	64
64	The dot-compartment revealed? Diffusion MRI with ultra-strong gradients and spherical tensor encoding in the living human brain. NeuroImage, 2020, 210, 116534.	4.2	64
65	Spatial and orientational heterogeneity in the statistical sensitivity of skeleton-based analyses of diffusion tensor MR imaging data. Journal of Neuroscience Methods, 2011, 201, 213-219.	2.5	63
66	Dynamics of White Matter Plasticity Underlying Working Memory Training: Multimodal Evidence from Diffusion MRI and Relaxometry. Journal of Cognitive Neuroscience, 2017, 29, 1509-1520.	2.3	61
67	Estimating axon conduction velocity in vivo from microstructural MRI. NeuroImage, 2019, 203, 116186.	4.2	60
68	Cluster Analysis of Diffusion Tensor Magnetic Resonance Images in Human Head Injury. Neurosurgery, 2000, 47, 306-314.	1.1	57
69	Resolving relaxometry and diffusion properties within the same voxel in the presence of crossing fibres by combining inversion recovery and diffusionâ€weighted acquisitions. Magnetic Resonance in Medicine, 2016, 75, 372-380.	3.0	55
70	The structural connectome in traumatic brain injury: A meta-analysis of graph metrics. Neuroscience and Biobehavioral Reviews, 2019, 99, 128-137.	6.1	54
71	Cross-scanner and cross-protocol multi-shell diffusion MRI data harmonization: Algorithms and results. NeuroImage, 2020, 221, 117128.	4.2	54
72	The sensitivity of diffusion MRI to microstructural properties and experimental factors. Journal of Neuroscience Methods, 2021, 347, 108951.	2.5	53

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73	Resolving degeneracy in diffusion MRI biophysical model parameter estimation using double diffusion encoding. Magnetic Resonance in Medicine, 2019, 82, 395-410.	3.0	52
74	MRI based diffusion and perfusion predictive model to estimate stroke evolution. Magnetic Resonance Imaging, 2001, 19, 1043-1053.	1.8	51
75	Global Efficiency of Structural Networks Mediates Cognitive Control in Mild Cognitive Impairment. Frontiers in Aging Neuroscience, 2016, 08, 292.	3.4	51
76	Myelin Breakdown in Human Huntingtonâ€™s Disease: Multi-Modal Evidence from Diffusion MRI and Quantitative Magnetization Transfer. Neuroscience, 2019, 403, 79-92.	2.3	51
77	T 1 relaxometry of crossing fibres in the human brain. NeuroImage, 2016, 141, 133-142.	4.2	50
78	Microstructural Organization of Cerebellar Tracts in Schizophrenia. Biological Psychiatry, 2009, 66, 1067-1069.	1.3	49
79	Improving the Reliability of Network Metrics in Structural Brain Networks by Integrating Different Network Weighting Strategies into a Single Graph. Frontiers in Neuroscience, 2017, 11, 694.	2.8	48
80	Improved Executive Function and Callosal White Matter Microstructure after Rhythm Exercise in Huntington's Disease. Journal of Huntington's Disease, 2014, 3, 273-283.	1.9	46
81	Cholinergic Basal Forebrain Structure Influences the Reconfiguration of White Matter Connections to Support Residual Memory in Mild Cognitive Impairment. Journal of Neuroscience, 2015, 35, 739-747.	3.6	45
82	Cortical Network for Gaze Control in Humans Revealed Using Multimodal MRI. Cerebral Cortex, 2012, 22, 765-775.	2.9	44
83	Mediation of Developmental Risk Factors for Psychosis by White Matter Microstructure in Young Adults With Psychotic Experiences. JAMA Psychiatry, 2016, 73, 396.	11.0	44
84	Fornix white matter glia damage causes hippocampal gray matter damage during age-dependent limbic decline. Scientific Reports, 2019, 9, 1060.	3.3	44
85	Dissociable roles of the inferior longitudinal fasciculus and fornix in face and place perception. ELife, 2015, 4, .	6.0	43
86	A Critical Review of White Matter Changes in Huntingtonâ€™s Disease. Movement Disorders, 2020, 35, 1302-1311.	3.9	41
87	White Matter Microstructure and Cognitive Function in Young Women With Polycystic Ovary Syndrome. Journal of Clinical Endocrinology and Metabolism, 2016, 101, 314-323.	3.6	40
88	White matter microstructure in 22q11 deletion syndrome: a pilot diffusion tensor imaging and voxel-based morphometry study of children and adolescents. Journal of Neurodevelopmental Disorders, 2010, 2, 77-92.	3.1	38
89	Limbic white matter microstructure plasticity reflects recovery from depression. Journal of Affective Disorders, 2015, 170, 143-149.	4.1	38
90	Spatial Normalization and Averaging of Diffusion Tensor MRI Data Sets. NeuroImage, 2002, 17, 592-617.	4.2	38

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91	Optimization of graph construction can significantly increase the power of structural brain network studies. NeuroImage, 2019, 199, 495-511.	4.2	37
92	Investigating exchange and multicomponent relaxation in fullyâ€balanced steadyâ€state free precession imaging. Journal of Magnetic Resonance Imaging, 2008, 27, 1421-1429.	3.4	36
93	Exploring neural dysfunction in â€˜clinical high riskâ€™ for psychosis: A quantitative review of fMRI studies. Journal of Psychiatric Research, 2015, 61, 122-134.	3.1	36
94	Comparing MRI metrics to quantify white matter microstructural damage in multiple sclerosis. Human Brain Mapping, 2019, 40, 2917-2932.	3.6	36
95	Tractography in the presence of multiple sclerosis lesions. NeuroImage, 2020, 209, 116471.	4.2	36
96	Individual Differences in Fornix Microstructure and Body Mass Index. PLoS ONE, 2013, 8, e59849.	2.5	36
97	Interindividual Variation in Fornix Microstructure and Macrostructure Is Related to Visual Discrimination Accuracy for Scenes But Not Faces. Journal of Neuroscience, 2014, 34, 12121-12126.	3.6	35
98	Evidence for Training-Dependent Structural Neuroplasticity in Brain-Injured Patients: A Critical Review. Neurorehabilitation and Neural Repair, 2018, 32, 99-114.	2.9	35
99	Structural and Functional Neuroimaging of Polygenic Risk for Schizophrenia: A Recall-by-Genotypeâ€“Based Approach. Schizophrenia Bulletin, 2019, 45, 405-414.	4.3	35
100	Computing and visualising intraâ€voxel orientationâ€specific relaxationâ€“diffusion features in the human brain. Human Brain Mapping, 2021, 42, 310-328.	3.6	35
101	The Future for Diffusion Tensor Imaging in Neuropsychiatry. Journal of Neuropsychiatry and Clinical Neurosciences, 2002, 14, 1-5.	1.8	30
102	Meyer's loop tractography for image-guided surgery depends on imaging protocol and hardware. NeuroImage: Clinical, 2018, 20, 458-465.	2.7	30
103	The variability of MR axon radii estimates in the human white matter. Human Brain Mapping, 2021, 42, 2201-2213.	3.6	30
104	Measuring compartmental <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si4.svg"><mml:msub><mml:mi>T</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math>-orientational dependence in human brain white matter using a tiltable RF coil and diffusion-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si4.svg"><mml:msub><mml:mi>T</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math> correlation MRI. NeuroImage, 2021, 236, 117967.	4.2	30
105	Detecting microstructural deviations in individuals with deep diffusion MRI tractometry. Nature Computational Science, 2021, 1, 598-606.	8.0	30
106	Mapping microglia and astrocyte activation in vivo using diffusion MRI. Science Advances, 2022, 8, .	10.3	30
107	Using the biophysical CHARMED model to elucidate the underpinnings of contrast in diffusional kurtosis analysis of diffusion-weighted MRI. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2012, 25, 267-276.	2.0	29
108	Network diffusion modeling predicts neurodegeneration in traumatic brain injury. Annals of Clinical and Translational Neurology, 2020, 7, 270-279.	3.7	29

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109	Parsimonious Model Selection for Tissue Segmentation and Classification Applications: A Study Using Simulated and Experimental DTI Data. IEEE Transactions on Medical Imaging, 2007, 26, 1576-1584.	8.9	28
110	Myelination of the right parahippocampal cingulum is associated with physical activity in young healthy adults. Brain Structure and Function, 2016, 221, 4537-4548.	2.3	28
111	A comparative study of gradient nonlinearity correction strategies for processing diffusion data obtained with ultraâ€strong gradient MRI scanners. Magnetic Resonance in Medicine, 2021, 85, 1104-1113.	3.0	28
112	Resolving bundle-specific intra-axonal T2 values within a voxel using diffusion-relaxation tract-based estimation. NeuroImage, 2021, 227, 117617.	4.2	28
113	ADHD severity is associated with white matter microstructure in the subgenual cingulum. NeuroImage: Clinical, 2015, 7, 653-660.	2.7	27
114	Longitudinal in vivo MRI in a Huntingtonâ€™s disease mouse model: Global atrophy in the absence of white matter microstructural damage. Scientific Reports, 2016, 6, 32423.	3.3	26
115	Toward more robust and reproducible diffusion kurtosis imaging. Magnetic Resonance in Medicine, 2021, 86, 1600-1613.	3.0	25
116	Subgenual Cingulum Microstructure Supports Control of Emotional Conflict. Cerebral Cortex, 2016, 26, 2850-2862.	2.9	24
117	Imaging Alzheimer's genetic risk using diffusion MRI: A systematic review. NeuroImage: Clinical, 2020, 27, 102359.	2.7	24
118	Psychotic Experiences, Working Memory, and the Developing Brain: A Multimodal Neuroimaging Study. Cerebral Cortex, 2015, 25, 4828-4838.	2.9	23
119	Investigating the effect of exchange and multicomponentT1 relaxation on the short repetition time spoiled steady-state signal and the DESPOT1T1 quantification method. Journal of Magnetic Resonance Imaging, 2007, 25, 570-578.	3.4	22
120	Sex-specific effects of central adiposity and inflammatory markers on limbic microstructure. NeuroImage, 2019, 189, 793-803.	4.2	22
121	The Superoanterior Fasciculus (SAF): A Novel White Matter Pathway in the Human Brain?. Frontiers in Neuroanatomy, 2019, 13, 24.	1.7	22
122	Strong diffusion gradients allow the separation of intra- and extra-axonal gradient-echo signals in the human brain. NeuroImage, 2020, 217, 116793.	4.2	21
123	Genetic risk for schizophrenia and developmental delay is associated with shape and microstructure of midline white-matter structures. Translational Psychiatry, 2019, 9, 102.	4.8	20
124	MICRA: Microstructural image compilation with repeated acquisitions. NeuroImage, 2021, 225, 117406.	4.2	20
125	Predicting MEG resting-state functional connectivity from microstructural information. Network Neuroscience, 2021, 5, 477-504.	2.6	20
126	q-Space Novelty Detection with Variational Autoencoders. Mathematics and Visualization, 2020, , 113-124.	0.6	20

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127	Just how much data need to be collected for reliable bootstrap DT-MRI?. Magnetic Resonance in Medicine, 2006, 56, 884-890.	3.0	19
128	Robust MR-based approaches to quantifying white matter structure and structure/function alterations in Huntington's disease. Journal of Neuroscience Methods, 2016, 265, 2-12.	2.5	17
129	Topographic separation of fornical fibers associated with the anterior and posterior hippocampus in the human brain: An <scp>MRI</scp>â€diffusion study. Brain and Behavior, 2017, 7, e00604.	2.2	17
130	White matter organization in developmental coordination disorder: A pilot study exploring the added value of constrained spherical deconvolution. NeuroImage: Clinical, 2019, 21, 101625.	2.7	16
131	SPHERIOUSLY? The challenges of estimating sphere radius non-invasively in the human brain from diffusion MRI. NeuroImage, 2021, 237, 118183.	4.2	16
132	Volumetric, relaxometric and diffusometric correlates of psychotic experiences in a non-clinical sample of young adults. NeuroImage: Clinical, 2016, 12, 550-558.	2.7	15
133	MRI Indices of Cortical Development in Young People With Psychotic Experiences: Influence of Genetic Risk and Persistence of Symptoms. Schizophrenia Bulletin, 2019, 45, 169-179.	4.3	15
134	White Matter Microstructure Predicts Autistic Traits in Attention-Deficit/Hyperactivity Disorder. Journal of Autism and Developmental Disorders, 2014, 44, 2742-2754.	2.7	14
135	A diffusion modelâ€free framework with echo time dependence for freeâ€water elimination and brain tissue microstructure characterization. Magnetic Resonance in Medicine, 2018, 80, 2155-2172.	3.0	14
136	The effect of gradient nonlinearities on fiber orientation estimates from spherical deconvolution of diffusion magnetic resonance imaging data. Human Brain Mapping, 2021, 42, 367-383.	3.6	13
137	Muti-shell Diffusion MRI Harmonisation and Enhancement Challenge (MUSHAC): Progress and Results. Mathematics and Visualization, 2019, , 217-224.	0.6	12
138	Drumming Motor Sequence Training Induces Apparent Myelin Remodelling in Huntingtonâ€™s Disease: A Longitudinal Diffusion MRI and Quantitative Magnetization Transfer Study. Journal of Huntington's Disease, 2020, 9, 303-320.	1.9	12
139	Directionâ€averaged diffusionâ€weighted MRI signal using different axisymmetric Bâ€tensor encoding schemes. Magnetic Resonance in Medicine, 2020, 84, 1579-1591.	3.0	12
140	Population neuroimaging: generation of a comprehensive data resource within the ALSPAC pregnancy and birth cohort. Wellcome Open Research, 2020, 5, 203.	1.8	12
141	<scp>MR</scp> Fingerprinting with bâ€Tensor Encoding for Simultaneous Quantification of Relaxation and Diffusion in a Single Scan. Magnetic Resonance in Medicine, 2022, 88, 2043-2057.	3.0	11
142	Computing the orientational-average of diffusion-weighted MRI signals: a comparison of different techniques. Scientific Reports, 2021, 11, 14345.	3.3	10
143	On the generalizability of diffusion MRI signal representations across acquisition parameters, sequences and tissue types: Chronicles of the MEMENTO challenge. NeuroImage, 2021, 240, 118367.	4.2	10
144	Obtaining Representative Core Streamlines for White Matter Tractometry of the Human Brain. Mathematics and Visualization, 2019, , 359-366.	0.6	8

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145	Predictors of training-related improvement in visuomotor performance in patients with multiple sclerosis: A behavioural and MRI study. Multiple Sclerosis Journal, 2021, 27, 1088-1101.	3.0	8
146	Apparent propagator anisotropy from singleâ€shell diffusion MRI acquisitions. Magnetic Resonance in Medicine, 2021, 85, 2869-2881.	3.0	8
147	Acquiring and Predicting Multidimensional Diffusion (MUDI) Data: An Open Challenge. Mathematics and Visualization, 2020, , 195-208.	0.6	8
148	The impact of graph construction scheme and community detection algorithm on the repeatability of community and hub identification in structural brain networks. Human Brain Mapping, 2021, 42, 4261-4280.	3.6	7
149	Gaussian Modeling of the Diffusion Signal. , 2014, , 87-104.		6
150	In Vivo MRI Evidence that Neuropathology is Attenuated by Cognitive Enrichment in the Yac128 Huntingtonâ€™s Disease Mouse Model. Journal of Huntington's Disease, 2015, 4, 149-160.	1.9	6
151	Microscopic susceptibility anisotropy imaging. Magnetic Resonance in Medicine, 2020, 84, 2739-2753.	3.0	6
152	Multi-compartment analysis of the complex gradient-echo signal quantifies myelin breakdown in premanifest Huntington's disease. NeuroImage: Clinical, 2021, 30, 102658.	2.7	6
153	Full-field MRI measurements of in-vivo positional brain shift reveal the significance of intra-cranial geometry and head orientation for stereotactic surgery. Scientific Reports, 2021, 11, 17684.	3.3	6
154	Global Brain Flexibility During Working Memory Is Reduced in a High-Genetic-Risk Group for Schizophrenia. Biological Psychiatry: Cognitive Neuroscience and Neuroimaging, 2021, 6, 1176-1184.	1.5	6
155	Application of diffusion tensor MRI to neurological segmentation. International Journal of Imaging Systems and Technology, 1999, 10, 273-286.	4.1	5
156	Validating pore size estimates in a complex microfiber environment on a human MRI system. Magnetic Resonance in Medicine, 2021, 86, 1514-1530.	3.0	5
157	Simultaneous Parameter Mapping, Modality Synthesis, and Anatomical Labeling of the Brain with MR Fingerprinting. Lecture Notes in Computer Science, 2016, , 579-586.	1.3	5
158	Mutationâ€related magnetizationâ€transfer, not axon density, drives white matter differences in premanifest Huntington disease: Evidence from in vivo ultraâ€strong gradient <scp>MRI</scp>. Human Brain Mapping, 2022, 43, 3439-3460.	3.6	5
159	Comparison of Different Tensor Encoding Combinations in Microstructural Parameter Estimation. , 2019, , .		4
160	Improving the Predictions of Computational Models of Convection-Enhanced Drug Delivery by Accounting for Diffusion Non-gaussianity. Frontiers in Neurology, 2018, 9, 1092.	2.4	3
161	Longitudinal data on cortical thickness before and after working memory training. Data in Brief, 2016, 7, 1143-1147.	1.0	2
162	DWI Simulation-Assisted Machine Learning Models for Microstructure Estimation. Mathematics and Visualization, 2020, , 125-134.	0.6	2

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163	Mapping Structural Connectivity Using Diffusion <scp>MRI</scp>: Challenges and Opportunities. Journal of Magnetic Resonance Imaging, 2021, 53, .	3.4	1
164	Joint Reconstruction of Multi-Contrast MRI for Multiple Sclerosis Lesion Segmentation. Informatik Aktuell, 2015, , 155-160.	0.6	1
165	Physiological effects of human body imaging with 300 mT/m gradients. Magnetic Resonance in Medicine, 2022, 87, 2512-2520.	3.0	1
166	Fundamentals of diffusion MR imaging. , 0, , 44-67.		0
167	Magnetic Resonance in Medicine at 30. Magnetic Resonance in Medicine, 2014, 71, 901-902.	3.0	0
168	Interactive Computation and Visualization of Structural Connectomes in Real-Time. Lecture Notes in Computer Science, 2017, , 35-41.	1.3	0
169	Magnetic Resonance Imaging of $$T_2$$- and Diffusion Anisotropy Using a Tiltable Receive Coil. Mathematics and Visualization, 2021, , 247-262.	0.6	0
170	E05â€…Mutation-related apparent myelin, not axon density, drives white matter pathology in premanifest huntingtonâ€™s disease: evidence from in vivo ultra-strong gradient MRI. , 2021, , .		0
171	Alternative Diffusion Anisotropy Metric from Reduced MRI Acquisitions. Mathematics and Visualization, 2020, , 13-24.	0.6	0
172	Anisotropy measure from three diffusion-encoding gradient directions. Magnetic Resonance Imaging, 2022, 88, 38-43.	1.8	0