

Ben Jeurissen

List of Publications by Year in descending order

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62
papers

7,336
citations

147566
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docs citations

67
times ranked

7395
citing authors

#	ARTICLE	IF	CITATIONS
1	MRtrix3: A fast, flexible and open software framework for medical image processing and visualisation. <i>NeuroImage</i> , 2019, 202, 116137.	2.1	1,555
2	Multi-tissue constrained spherical deconvolution for improved analysis of multi-shell diffusion MRI data. <i>NeuroImage</i> , 2014, 103, 411-426.	2.1	1,063
3	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.	1.9	887
4	Weighted linear least squares estimation of diffusion MRI parameters: Strengths, limitations, and pitfalls. <i>NeuroImage</i> , 2013, 81, 335-346.	2.1	407
5	Quantitative evaluation of 10 tractography algorithms on a realistic diffusion MR phantom. <i>NeuroImage</i> , 2011, 56, 220-234.	2.1	376
6	Diffusion MRI fiber tractography of the brain. <i>NMR in Biomedicine</i> , 2019, 32, e3785.	1.6	346
7	Probabilistic fiber tracking using the residual bootstrap with constrained spherical deconvolution. <i>Human Brain Mapping</i> , 2011, 32, 461-479.	1.9	335
8	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.	2.1	183
9	Recursive calibration of the fiber response function for spherical deconvolution of diffusion MRI data. <i>NeuroImage</i> , 2014, 86, 67-80.	2.1	163
10	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.	0.7	116
11	The effect of spaceflight and microgravity on the human brain. <i>Journal of Neurology</i> , 2017, 264, 18-22.	1.8	113
12	Cortical reorganization in an astronaut's brain after long-duration spaceflight. <i>Brain Structure and Function</i> , 2016, 221, 2873-2876.	1.2	103
13	The effect of Gibbs ringing artifacts on measures derived from diffusion MRI. <i>NeuroImage</i> , 2015, 120, 441-455.	2.1	94
14	Brain ventricular volume changes induced by long-duration spaceflight. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 10531-10536.	3.3	94
15	Comparing isotropic and anisotropic smoothing for voxel-based DTI analyses: A simulation study. <i>Human Brain Mapping</i> , 2010, 31, 98-114.	1.9	89
16	Brain Tissue's Volume Changes in Cosmonauts. <i>New England Journal of Medicine</i> , 2018, 379, 1678-1680.	13.9	88
17	Improved Sensitivity to Cerebral White Matter Abnormalities in Alzheimer's Disease with Spherical Deconvolution Based Tractography. <i>PLoS ONE</i> , 2012, 7, e44074.	1.1	77
18	Alterations of Functional Brain Connectivity After Long-Duration Spaceflight as Revealed by fMRI. <i>Frontiers in Physiology</i> , 2019, 10, 761.	1.3	63

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19	Maximum likelihood estimation-based denoising of magnetic resonance images using restricted local neighborhoods. <i>Physics in Medicine and Biology</i> , 2011, 56, 5221-5234.	1.6	60
20	Reproducibility and intercorrelation of graph theoretical measures in structural brain connectivity networks. <i>Medical Image Analysis</i> , 2019, 52, 56-67.	7.0	57
21	Macro- and microstructural changes in cosmonauts'™ brains after long-duration spaceflight. <i>Science Advances</i> , 2020, 6, .	4.7	56
22	Altered functional brain connectivity in patients with visually induced dizziness. <i>NeuroImage: Clinical</i> , 2017, 14, 538-545.	1.4	55
23	Isotropic non-white matter partial volume effects in constrained spherical deconvolution. <i>Frontiers in Neuroinformatics</i> , 2014, 8, 28.	1.3	51
24	Super-resolution for multislice diffusion tensor imaging. <i>Magnetic Resonance in Medicine</i> , 2013, 69, 103-113.	1.9	50
25	T1 relaxometry of crossing fibres in the human brain. <i>NeuroImage</i> , 2016, 141, 133-142.	2.1	50
26	Anatomical integration and rich-club connectivity in euthymic bipolar disorder. <i>Psychological Medicine</i> , 2017, 47, 1609-1623.	2.7	49
27	Iterative reweighted linear least squares for accurate, fast, and robust estimation of diffusion magnetic resonance parameters. <i>Magnetic Resonance in Medicine</i> , 2015, 73, 2174-2184.	1.9	48
28	Structural brain network analysis in families multiply affected with bipolar I disorder. <i>Psychiatry Research - Neuroimaging</i> , 2015, 234, 44-51.	0.9	48
29	Modeling Brain Dynamics in Brain Tumor Patients Using the Virtual Brain. <i>ENeuro</i> , 2018, 5, ENEURO.0083-18.2018.	0.9	42
30	Modeling brain dynamics after tumor resection using The Virtual Brain. <i>NeuroImage</i> , 2020, 213, 116738.	2.1	41
31	Super-resolution reconstruction of diffusion parameters from diffusion-weighted images with different slice orientations. <i>Magnetic Resonance in Medicine</i> , 2016, 75, 181-195.	1.9	40
32	Structural neuroimaging correlates of allelic variation of the BDNF val66met polymorphism. <i>NeuroImage</i> , 2014, 90, 280-289.	2.1	36
33	Informed constrained spherical deconvolution (ICSD). <i>Medical Image Analysis</i> , 2015, 24, 269-281.	7.0	36
34	Identification and characterization of Huntington related pathology: An in vivo DKI imaging study. <i>NeuroImage</i> , 2012, 63, 653-662.	2.1	34
35	Population-averaged diffusion tensor imaging atlas of the Sprague Dawley rat brain. <i>NeuroImage</i> , 2011, 58, 975-983.	2.1	33
36	The role of whole-brain diffusion MRI as a tool for studying human in vivo cortical segregation based on a measure of neurite density. <i>Magnetic Resonance in Medicine</i> , 2018, 79, 2738-2744.	1.9	33

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37	Automated correction of improperly rotated diffusion gradient orientations in diffusion weighted MRI. <i>Medical Image Analysis</i> , 2014, 18, 953-962.	7.0	29
38	The effect of prolonged spaceflight on cerebrospinal fluid and perivascular spaces of astronauts and cosmonauts. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, e2120439119.	3.3	26
39	Cognitive Training in Young Patients With Traumatic Brain Injury: A Fixel-Based Analysis. <i>Neurorehabilitation and Neural Repair</i> , 2019, 33, 813-824.	1.4	24
40	Diffusion tensor imaging of the anterior cruciate ligament graft. <i>Journal of Magnetic Resonance Imaging</i> , 2017, 46, 1423-1432.	1.9	23
41	Diffusion kurtosis imaging with free water elimination: A bayesian estimation approach. <i>Magnetic Resonance in Medicine</i> , 2018, 80, 802-813.	1.9	20
42	Intrinsic functional connectivity reduces after first-time exposure to short-term gravitational alterations induced by parabolic flight. <i>Scientific Reports</i> , 2017, 7, 3061.	1.6	18
43	Exploring sex differences in the adult zebra finch brain: In vivo diffusion tensor imaging and ex vivo super-resolution track density imaging. <i>NeuroImage</i> , 2017, 146, 789-803.	2.1	18
44	A Unified Maximum Likelihood Framework for Simultaneous Motion and ST_{1} Estimation in Quantitative MR ST_{1} Mapping. <i>IEEE Transactions on Medical Imaging</i> , 2017, 36, 433-446.	5.4	17
45	Brain Connectometry Changes in Space Travelers After Long-Duration Spaceflight. <i>Frontiers in Neural Circuits</i> , 2022, 16, 815838.	1.4	17
46	Super-resolution T_{1} estimation: Quantitative high resolution T_{1} mapping from a set of low resolution T_{1} -weighted images with different slice orientations. <i>Magnetic Resonance in Medicine</i> , 2017, 77, 1818-1830.	1.9	14
47	Constrained spherical deconvolution of nonspherically sampled diffusion scp MRI data. <i>Human Brain Mapping</i> , 2021, 42, 521-538.	1.9	14
48	Super-Resolution Magnetic Resonance Imaging of the Knee Using 2-Dimensional Turbo Spin Echo Imaging. <i>Investigative Radiology</i> , 2020, 55, 481-493.	3.5	13
49	D-BRAIN: Anatomically Accurate Simulated Diffusion MRI Brain Data. <i>PLoS ONE</i> , 2016, 11, e0149778.	1.1	11
50	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.	2.1	10
51	White matter microstructural organisation of interhemispheric pathways predicts different stages of bimanual coordination learning in young and older adults. <i>European Journal of Neuroscience</i> , 2018, 47, 446-459.	1.2	9
52	Multi-tissue spherical deconvolution of tensor-valued diffusion MRI. <i>NeuroImage</i> , 2021, 245, 118717.	2.1	9
53	A three-dimensional digital neurological atlas of the mustached bat (<i>Pteronotus parnellii</i>). <i>NeuroImage</i> , 2018, 183, 300-313.	2.1	8
54	Model-based super-resolution reconstruction with joint motion estimation for improved quantitative MRI parameter mapping. <i>Computerized Medical Imaging and Graphics</i> , 2022, 100, 102071.	3.5	7

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55	Estimation of uncertainty in constrained spherical deconvolution fiber orientations. , 2008, , .		5
56	Denosing Magnetic Resonance Images Using Fourth Order Complex Diffusion. , 2009, , .		5
57	Associations between different white matter properties and reward-based performance modulation. Brain Structure and Function, 2021, 226, 1007-1021.	1.2	5
58	The arcuate fasciculus network and verbal deficits in psychosis. Translational Neuroscience, 2017, 8, 117-126.	0.7	4
59	Joint Maximum Likelihood Estimation of Motion and T1 Parameters from Magnetic Resonance Images in a Super-resolution Framework: a Simulation Study. Fundamenta Informaticae, 2020, 172, 105-128.	0.3	4
60	Improved diffusion parameter estimation by incorporating T2 relaxation properties into the DKI-FWE model. NeuroImage, 2022, 256, 119219.	2.1	4
61	High resolution T1 estimation from multiple low resolution magnetic resonance images. , 2015, , .		0
62	P.3.033 Lateralisation of the arcuate fasciculus in psychosis & the role in verbal learning & auditory verbal hallucinations. European Neuropsychopharmacology, 2016, 26, S76-S77.	0.3	0