

Ben Jeurissen

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

65
papers

4,467
citations

29
h-index

66
g-index

67
ext. papers

6,200
ext. citations

7.2
avg, IF

5.69
L-index

#	Paper	IF	Citations
65	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
64	Multi-tissue constrained spherical deconvolution for improved analysis of multi-shell diffusion MRI data. <i>NeuroImage</i> , 2014 , 103, 411-426	7.9	605
63	MRtrix3: A fast, flexible and open software framework for medical image processing and visualisation. <i>NeuroImage</i> , 2019 , 202, 116137	7.9	563
62	Quantitative evaluation of 10 tractography algorithms on a realistic diffusion MR phantom. <i>NeuroImage</i> , 2011 , 56, 220-34	7.9	312
61	Probabilistic fiber tracking using the residual bootstrap with constrained spherical deconvolution. <i>Human Brain Mapping</i> , 2011 , 32, 461-79	5.9	279
60	Weighted linear least squares estimation of diffusion MRI parameters: strengths, limitations, and pitfalls. <i>NeuroImage</i> , 2013 , 81, 335-346	7.9	276
59	Diffusion MRI fiber tractography of the brain. <i>NMR in Biomedicine</i> , 2019 , 32, e3785	4.4	175
58	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
57	Recursive calibration of the fiber response function for spherical deconvolution of diffusion MRI data. <i>NeuroImage</i> , 2014 , 86, 67-80	7.9	123
56	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	7.9	101
55	Comparing isotropic and anisotropic smoothing for voxel-based DTI analyses: A simulation study. <i>Human Brain Mapping</i> , 2010 , 31, 98-114	5.9	77
54	Cortical reorganization in an astronaut's brain after long-duration spaceflight. <i>Brain Structure and Function</i> , 2016 , 221, 2873-6	4	66
53	The effect of spaceflight and microgravity on the human brain. <i>Journal of Neurology</i> , 2017 , 264, 18-22	5.5	66
52	Improved sensitivity to cerebral white matter abnormalities in Alzheimer's disease with spherical deconvolution based tractography. <i>PLoS ONE</i> , 2012 , 7, e44074	3.7	66
51	The effect of Gibbs ringing artifacts on measures derived from diffusion MRI. <i>NeuroImage</i> , 2015 , 120, 441-55	7.9	62
50	Brain Tissue-Volume Changes in Cosmonauts. <i>New England Journal of Medicine</i> , 2018 , 379, 1678-1680	59.2	62
49	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	11.5	58

48	Maximum likelihood estimation-based denoising of magnetic resonance images using restricted local neighborhoods. <i>Physics in Medicine and Biology</i> , 2011 , 56, 5221-34	3.8	50
47	Structural brain network analysis in families multiply affected with bipolar I disorder. <i>Psychiatry Research - Neuroimaging</i> , 2015 , 234, 44-51	2.9	42
46	Isotropic non-white matter partial volume effects in constrained spherical deconvolution. <i>Frontiers in Neuroinformatics</i> , 2014 , 8, 28	3.9	41
45	Iterative reweighted linear least squares for accurate, fast, and robust estimation of diffusion magnetic resonance parameters. <i>Magnetic Resonance in Medicine</i> , 2015 , 73, 2174-84	4.4	39
44	Anatomical integration and rich-club connectivity in euthymic bipolar disorder. <i>Psychological Medicine</i> , 2017 , 47, 1609-1623	6.9	38
43	T1 relaxometry of crossing fibres in the human brain. <i>NeuroImage</i> , 2016 , 141, 133-142	7.9	38
42	Altered functional brain connectivity in patients with visually induced dizziness. <i>NeuroImage: Clinical</i> , 2017 , 14, 538-545	5.3	34
41	Structural neuroimaging correlates of allelic variation of the BDNF val66met polymorphism. <i>NeuroImage</i> , 2014 , 90, 280-9	7.9	34
40	Super-resolution for multislice diffusion tensor imaging. <i>Magnetic Resonance in Medicine</i> , 2013 , 69, 103-114	7.4	34
39	Alterations of Functional Brain Connectivity After Long-Duration Spaceflight as Revealed by fMRI. <i>Frontiers in Physiology</i> , 2019 , 10, 761	4.6	33
38	Reproducibility and intercorrelation of graph theoretical measures in structural brain connectivity networks. <i>Medical Image Analysis</i> , 2019 , 52, 56-67	15.4	30
37	Super-resolution reconstruction of diffusion parameters from diffusion-weighted images with different slice orientations. <i>Magnetic Resonance in Medicine</i> , 2016 , 75, 181-95	4.4	29
36	Informed constrained spherical deconvolution (iCSD). <i>Medical Image Analysis</i> , 2015 , 24, 269-281	15.4	27
35	Identification and characterization of Huntington related pathology: an in vivo DKI imaging study. <i>NeuroImage</i> , 2012 , 63, 653-62	7.9	27
34	Population-averaged diffusion tensor imaging atlas of the Sprague Dawley rat brain. <i>NeuroImage</i> , 2011 , 58, 975-83	7.9	26
33	Modeling Brain Dynamics in Brain Tumor Patients Using the Virtual Brain. <i>ENeuro</i> , 2018 , 5,	3.9	26
32	Automated correction of improperly rotated diffusion gradient orientations in diffusion weighted MRI. <i>Medical Image Analysis</i> , 2014 , 18, 953-62	15.4	24
31	Macro- and microstructural changes in cosmonauts brains after long-duration spaceflight. <i>Science Advances</i> , 2020 , 6,	14.3	24

30	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	4.4	22
29	MRtrix3: A fast, flexible and open software framework for medical image processing and visualisation		20
28	Modeling brain dynamics after tumor resection using The Virtual Brain. <i>NeuroImage</i> , 2020 , 213, 116738	7.9	16
27	Diffusion tensor imaging of the anterior cruciate ligament graft. <i>Journal of Magnetic Resonance Imaging</i> , 2017 , 46, 1423-1432	5.6	14
26	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	7.9	14
25	Diffusion kurtosis imaging with free water elimination: A bayesian estimation approach. <i>Magnetic Resonance in Medicine</i> , 2018 , 80, 802-813	4.4	13
24	Cognitive Training in Young Patients With Traumatic Brain Injury: A Fixel-Based Analysis. <i>Neurorehabilitation and Neural Repair</i> , 2019 , 33, 813-824	4.7	12
23	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	11.7	11
22	Intrinsic functional connectivity reduces after first-time exposure to short-term gravitational alterations induced by parabolic flight. <i>Scientific Reports</i> , 2017 , 7, 3061	4.9	10
21	D-BRAIN: Anatomically Accurate Simulated Diffusion MRI Brain Data. <i>PLoS ONE</i> , 2016 , 11, e0149778	3.7	10
20	Super-resolution T estimation: Quantitative high resolution T mapping from a set of low resolution T-weighted images with different slice orientations. <i>Magnetic Resonance in Medicine</i> , 2017 , 77, 1818-1830	4.4	9
19	Constrained spherical deconvolution of nonspherically sampled diffusion MRI data. <i>Human Brain Mapping</i> , 2021 , 42, 521-538	5.9	6
18	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	3.5	5
17	Estimation of uncertainty in constrained spherical deconvolution fiber orientations 2008 ,		5
16	Denosing Magnetic Resonance Images Using Fourth Order Complex Diffusion 2009 ,		4
15	Modeling brain dynamics in brain tumor patients using The Virtual Brain		4
14	A three-dimensional digital neurological atlas of the mustached bat (<i>Pteronotus parnellii</i>). <i>NeuroImage</i> , 2018 , 183, 300-313	7.9	3
13	The Arcuate Fasciculus Network and Verbal Deficits in Psychosis. <i>Translational Neuroscience</i> , 2017 , 8, 117-126	1.2	3

12	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
11	Joint Maximum Likelihood Estimation of Motion and T1 Parameters from Magnetic Resonance Images in a Super-resolution Framework: a Simulation Study. <i>Fundamenta Informaticae</i> , 2020 , 172, 105-128		2
10	Multi-tissue spherical deconvolution of tensor-valued diffusion MRI. <i>NeuroImage</i> , 2021 , 245, 118717	7.9	2
9	Modeling brain dynamics after tumor resection using The Virtual Brain		2
8	On the generalizability of diffusion MRI signal representations across acquisition parameters, sequences and tissue types: chronicles of the MEMENTO challenge		2
7	Associations between different white matter properties and reward-based performance modulation. <i>Brain Structure and Function</i> , 2021 , 226, 1007-1021	4	2
6	Brain Connectometry Changes in Space Travelers After Long-Duration Spaceflight.. <i>Frontiers in Neural Circuits</i> , 2022 , 16, 815838	3.5	2
5	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	11.5	2
4	Super-Resolution Magnetic Resonance Imaging of the Knee Using 2-Dimensional Turbo Spin Echo Imaging. <i>Investigative Radiology</i> , 2020 , 55, 481-493	10.1	1
3	Model-based super-resolution reconstruction with joint motion estimation for improved quantitative MRI parameter mapping. <i>Computerized Medical Imaging and Graphics</i> , 2022 , 102071	7.6	0
2	P.3.033 Lateralisation of the arcuate fasciculus in psychosis & the role in verbal learning & auditory verbal hallucinations. <i>European Neuropsychopharmacology</i> , 2016 , 26, S76-S77	1.2	
1	Improved diffusion parameter estimation by incorporating T relaxation properties into the DKI-FWE model.. <i>NeuroImage</i> , 2022 , 119219	7.9	