

Jelle Veraart

List of Publications by Year in descending order

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66
papers

6,107
citations

134610

34
h-index

124990

64
g-index

72
all docs

72
docs citations

72
times ranked

7537
citing authors

#	ARTICLE	IF	CITATIONS
1	What's new and what's next in diffusion MRI preprocessing. <i>NeuroImage</i> , 2022, 249, 118830.	2.1	43
2	Improved diffusion parameter estimation by incorporating T2 relaxation properties into the DKI-FWE model. <i>NeuroImage</i> , 2022, 256, 119219.	2.1	4
3	Reproducibility of the Standard Model of diffusion in white matter on clinical MRI systems. <i>NeuroImage</i> , 2022, 257, 119290.	2.1	15
4	Improved Task-based Functional MRI Language Mapping in Patients with Brain Tumors through Marchenko-Pastur Principal Component Analysis Denoising. <i>Radiology</i> , 2021, 298, 365-373.	3.6	19
5	The variability of MR axon radii estimates in the human white matter. <i>Human Brain Mapping</i> , 2021, 42, 2201-2213.	1.9	30
6	Toward more robust and reproducible diffusion kurtosis imaging. <i>Magnetic Resonance in Medicine</i> , 2021, 86, 1600-1613.	1.9	25
7	Nanostructure-specific X-ray tomography reveals myelin levels, integrity and axon orientations in mouse and human nervous tissue. <i>Nature Communications</i> , 2021, 12, 2941.	5.8	33
8	On the need for bundle-specific microstructure kernels in diffusion MRI. <i>NeuroImage</i> , 2020, 208, 116460.	2.1	9
9	Cross-scanner and cross-protocol multi-shell diffusion MRI data harmonization: Algorithms and results. <i>NeuroImage</i> , 2020, 221, 117128.	2.1	54
10	The diagnostic role of diffusional kurtosis imaging in glioma grading and differentiation of gliomas from other intra-axial brain tumours: a systematic review with critical appraisal and meta-analysis. <i>Neuroradiology</i> , 2020, 62, 791-802.	1.1	23
11	Multi-parametric quantitative in vivo spinal cord MRI with unified signal readout and image denoising. <i>NeuroImage</i> , 2020, 217, 116884.	2.1	34
12	Noninvasive quantification of axon radii using diffusion MRI. <i>ELife</i> , 2020, 9, .	2.8	137
13	Cross-scanner and cross-protocol diffusion MRI data harmonisation: A benchmark database and evaluation of algorithms. <i>NeuroImage</i> , 2019, 195, 285-299.	2.1	92
14	Muti-shell Diffusion MRI Harmonisation and Enhancement Challenge (MUSHAC): Progress and Results. <i>Mathematics and Visualization</i> , 2019, , 217-224.	0.4	12
15	Along-axon diameter variation and axonal orientation dispersion revealed with 3D electron microscopy: implications for quantifying brain white matter microstructure with histology and diffusion MRI. <i>Brain Structure and Function</i> , 2019, 224, 1469-1488.	1.2	77
16	A resting state fMRI analysis pipeline for pooling inference across diverse cohorts: an ENIGMA rs-fMRI protocol. <i>Brain Imaging and Behavior</i> , 2019, 13, 1453-1467.	1.1	49
17	On the scaling behavior of water diffusion in human brain white matter. <i>NeuroImage</i> , 2019, 185, 379-387.	2.1	109
18	Diffusion kurtosis imaging with free water elimination: A bayesian estimation approach. <i>Magnetic Resonance in Medicine</i> , 2018, 80, 802-813.	1.9	20

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19	Miniature pig model of human adolescent brain white matter development. <i>Journal of Neuroscience Methods</i> , 2018, 296, 99-108.	1.3	22
20	Rotationally-invariant mapping of scalar and orientational metrics of neuronal microstructure with diffusion MRI. <i>NeuroImage</i> , 2018, 174, 518-538.	2.1	173
21	TE dependent Diffusion Imaging (TEdDI) distinguishes between compartmental T2 relaxation times. <i>NeuroImage</i> , 2018, 182, 360-369.	2.1	160
22	Integration of routine QA data into mega-analysis may improve quality and sensitivity of multisite diffusion tensor imaging studies. <i>Human Brain Mapping</i> , 2018, 39, 1015-1023.	1.9	20
23	Characterization of Prostate Microstructure Using Water Diffusion and NMR Relaxation. <i>Frontiers in Physics</i> , 2018, 6, .	1.0	40
24	Evaluation of the accuracy and precision of the diffusion parameter Estimation with Gibbs and Noise removal pipeline. <i>NeuroImage</i> , 2018, 183, 532-543.	2.1	123
25	Comparison of heritability estimates on resting state fMRI connectivity phenotypes using the ENIGMA analysis pipeline. <i>Human Brain Mapping</i> , 2018, 39, 4893-4902.	1.9	45
26	Heritability estimates on resting state fMRI data using ENIGMA analysis pipeline. <i>Pacific Symposium on Biocomputing Pacific Symposium on Biocomputing</i> , 2018, 23, 307-318.	0.7	14
27	Time-Dependent Diffusion in Prostate Cancer. <i>Investigative Radiology</i> , 2017, 52, 405-411.	3.5	58
28	Lipid Metabolism, Abdominal Adiposity, and Cerebral Health in the Amish. <i>Obesity</i> , 2017, 25, 1876-1880.	1.5	8
29	Semi-automated brain tumor segmentation on multi-parametric MRI using regularized non-negative matrix factorization. <i>BMC Medical Imaging</i> , 2017, 17, 29.	1.4	34
30	<i>In vivo</i> measurement of membrane permeability and myofiber size in human muscle using time-dependent diffusion tensor imaging and the random permeable barrier model. <i>NMR in Biomedicine</i> , 2017, 30, e3612.	1.6	44
31	The successive projection algorithm as an initialization method for brain tumor segmentation using non-negative matrix factorization. <i>PLoS ONE</i> , 2017, 12, e0180268.	1.1	11
32	Diffusion MRI noise mapping using random matrix theory. <i>Magnetic Resonance in Medicine</i> , 2016, 76, 1582-1593.	1.9	541
33	Comparison of unsupervised classification methods for brain tumor segmentation using multi-parametric MRI. <i>NeuroImage: Clinical</i> , 2016, 12, 753-764.	1.4	64
34	Gibbs ringing in diffusion MRI. <i>Magnetic Resonance in Medicine</i> , 2016, 76, 301-314.	1.9	108
35	Denoising of diffusion MRI using random matrix theory. <i>NeuroImage</i> , 2016, 142, 394-406.	2.1	1,208
36	Diffusion-weighted imaging uncovers likely sources of processing-speed deficits in schizophrenia. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 13504-13509.	3.3	43

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37	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
38	Diffusion kurtosis imaging probes cortical alterations and white matter pathology following cuprizone induced demyelination and spontaneous remyelination. <i>NeuroImage</i> , 2016, 125, 363-377.	2.1	122
39	Degeneracy in model parameter estimation for multi-compartmental diffusion in neuronal tissue. <i>NMR in Biomedicine</i> , 2016, 29, 33-47.	1.6	252
40	In vivo quantification of demyelination and recovery using compartment-specific diffusion MRI metrics validated by electron microscopy. <i>NeuroImage</i> , 2016, 132, 104-114.	2.1	156
41	In vivo observation and biophysical interpretation of time-dependent diffusion in human white matter. <i>NeuroImage</i> , 2016, 129, 414-427.	2.1	147
42	Diffusion Kurtosis Imaging. , 2016, , 407-418.		3
43	Diffusion Kurtosis Imaging: A Possible MRI Biomarker for AD Diagnosis?. <i>Journal of Alzheimer's Disease</i> , 2015, 48, 937-948.	1.2	50
44	Hierarchical non-negative matrix factorization to characterize brain tumor heterogeneity using multi-parametric MRI. <i>NMR in Biomedicine</i> , 2015, 28, 1599-1624.	1.6	29
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, 2174-2184.	1.9	48
46	One diffusion acquisition and different white matter models: How does microstructure change in human early development based on WMTI and NODDI?. <i>NeuroImage</i> , 2015, 107, 242-256.	2.1	179
47	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.	0.6	64
48	Super-resolution for multislice diffusion tensor imaging. <i>Magnetic Resonance in Medicine</i> , 2013, 69, 103-113.	1.9	50
49	Subchronic memantine induced concurrent functional disconnectivity and altered ultra-structural tissue integrity in the rodent brain: revealed by multimodal MRI. <i>Psychopharmacology</i> , 2013, 227, 479-491.	1.5	18
50	Altered diffusion tensor imaging measurements in aged transgenic Huntington disease rats. <i>Brain Structure and Function</i> , 2013, 218, 767-778.	1.2	19
51	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.	2.3	54
52	Weighted linear least squares estimation of diffusion MRI parameters: Strengths, limitations, and pitfalls. <i>NeuroImage</i> , 2013, 81, 335-346.	2.1	407
53	Diffusion kurtosis imaging to detect amyloidosis in an APP/PS1 mouse model for Alzheimer's disease. <i>Magnetic Resonance in Medicine</i> , 2013, 69, 1115-1121.	1.9	46
54	Comprehensive framework for accurate diffusion MRI parameter estimation. <i>Magnetic Resonance in Medicine</i> , 2013, 70, 972-984.	1.9	89

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55	Gliomas: Diffusion Kurtosis MR Imaging in Grading. Radiology, 2012, 263, 492-501.	3.6	311
56	Four-point-algorithm for the recovery of the pose of a one-dimensional camera with unknown focal length. IET Computer Vision, 2012, 6, 314.	1.3	3
57	A complementary diffusion tensor imaging (DTI)-histological study in a model of Huntington's disease. Neurobiology of Aging, 2012, 33, 945-959.	1.5	29
58	Identification and characterization of Huntington related pathology: An in vivo DKI imaging study. NeuroImage, 2012, 63, 653-662.	2.1	34
59	Nonlocal maximum likelihood estimation method for denoising multiple-coil magnetic resonance images. Magnetic Resonance Imaging, 2012, 30, 1512-1518.	1.0	59
60	Population-averaged diffusion tensor imaging atlas of the Sprague Dawley rat brain. NeuroImage, 2011, 58, 975-983.	2.1	33
61	The effect of template selection on diffusion tensor voxel-based analysis results. NeuroImage, 2011, 55, 566-573.	2.1	57
62	More accurate estimation of diffusion tensor parameters using diffusion kurtosis imaging. Magnetic Resonance in Medicine, 2011, 65, 138-145.	1.9	202
63	Constrained maximum likelihood estimation of the diffusion kurtosis tensor using a Rician noise model. Magnetic Resonance in Medicine, 2011, 66, 678-686.	1.9	77
64	Feasibility and Advantages of Diffusion Weighted Imaging Atlas Construction in Q-Space. Lecture Notes in Computer Science, 2011, 14, 166-173.	1.0	13
65	Mobile Camera Localization Using Apollonius Circles and Virtual Landmarks. Journal of Intelligent and Robotic Systems: Theory and Applications, 2010, 58, 287-308.	2.0	4
66	Non-rigid coregistration of diffusion kurtosis data. , 2010, , .		0