

Jelle Veraart

List of Publications by Year in descending order

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Version: 2024-02-01

66
papers

6,107
citations

117625

34
h-index

110387

64
g-index

72
all docs

72
docs citations

72
times ranked

6756
citing authors

#	ARTICLE	IF	CITATIONS
1	Denoising of diffusion MRI using random matrix theory. <i>NeuroImage</i> , 2016, 142, 394-406.	4.2	1,208
2	Diffusion MRI noise mapping using random matrix theory. <i>Magnetic Resonance in Medicine</i> , 2016, 76, 1582-1593.	3.0	541
3	Weighted linear least squares estimation of diffusion MRI parameters: Strengths, limitations, and pitfalls. <i>NeuroImage</i> , 2013, 81, 335-346.	4.2	407
4	Gliomas: Diffusion Kurtosis MR Imaging in Grading. <i>Radiology</i> , 2012, 263, 492-501.	7.3	311
5	Degeneracy in model parameter estimation for multi-compartmental diffusion in neuronal tissue. <i>NMR in Biomedicine</i> , 2016, 29, 33-47.	2.8	252
6	More accurate estimation of diffusion tensor parameters using diffusion kurtosis imaging. <i>Magnetic Resonance in Medicine</i> , 2011, 65, 138-145.	3.0	202
7	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.	4.2	179
8	Rotationally-invariant mapping of scalar and orientational metrics of neuronal microstructure with diffusion MRI. <i>NeuroImage</i> , 2018, 174, 518-538.	4.2	173
9	TE dependent Diffusion Imaging (TEdDI) distinguishes between compartmental T2 relaxation times. <i>NeuroImage</i> , 2018, 182, 360-369.	4.2	160
10	In vivo quantification of demyelination and recovery using compartment-specific diffusion MRI metrics validated by electron microscopy. <i>NeuroImage</i> , 2016, 132, 104-114.	4.2	156
11	In vivo observation and biophysical interpretation of time-dependent diffusion in human white matter. <i>NeuroImage</i> , 2016, 129, 414-427.	4.2	147
12	Noninvasive quantification of axon radii using diffusion MRI. <i>ELife</i> , 2020, 9, .	6.0	137
13	Evaluation of the accuracy and precision of the diffusion parameter Estimation with Gibbs and Noise removal pipeline. <i>NeuroImage</i> , 2018, 183, 532-543.	4.2	123
14	Diffusion kurtosis imaging probes cortical alterations and white matter pathology following cuprizone induced demyelination and spontaneous remyelination. <i>NeuroImage</i> , 2016, 125, 363-377.	4.2	122
15	On the scaling behavior of water diffusion in human brain white matter. <i>NeuroImage</i> , 2019, 185, 379-387.	4.2	109
16	Gibbs ringing in diffusion MRI. <i>Magnetic Resonance in Medicine</i> , 2016, 76, 301-314.	3.0	108
17	Cross-scanner and cross-protocol diffusion MRI data harmonisation: A benchmark database and evaluation of algorithms. <i>NeuroImage</i> , 2019, 195, 285-299.	4.2	92
18	Comprehensive framework for accurate diffusion MRI parameter estimation. <i>Magnetic Resonance in Medicine</i> , 2013, 70, 972-984.	3.0	89

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19	Constrained maximum likelihood estimation of the diffusion kurtosis tensor using a Rician noise model. <i>Magnetic Resonance in Medicine</i> , 2011, 66, 678-686.	3.0	77
20	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.	2.3	77
21	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.	1.2	64
22	Comparison of unsupervised classification methods for brain tumor segmentation using multi-parametric MRI. <i>NeuroImage: Clinical</i> , 2016, 12, 753-764.	2.7	64
23	Nonlocal maximum likelihood estimation method for denoising multiple-coil magnetic resonance images. <i>Magnetic Resonance Imaging</i> , 2012, 30, 1512-1518.	1.8	59
24	Time-Dependent Diffusion in Prostate Cancer. <i>Investigative Radiology</i> , 2017, 52, 405-411.	6.2	58
25	The effect of template selection on diffusion tensor voxel-based analysis results. <i>NeuroImage</i> , 2011, 55, 566-573.	4.2	57
26	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.	4.5	54
27	Cross-scanner and cross-protocol multi-shell diffusion MRI data harmonization: Algorithms and results. <i>NeuroImage</i> , 2020, 221, 117128.	4.2	54
28	Super-resolution for multislice diffusion tensor imaging. <i>Magnetic Resonance in Medicine</i> , 2013, 69, 103-113.	3.0	50
29	Diffusion Kurtosis Imaging: A Possible MRI Biomarker for AD Diagnosis?. <i>Journal of Alzheimer's Disease</i> , 2015, 48, 937-948.	2.6	50
30	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.	2.1	49
31	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.	3.0	48
32	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.	3.0	46
33	Comparison of heritability estimates on resting state fMRI connectivity phenotypes using the ENIGMA analysis pipeline. <i>Human Brain Mapping</i> , 2018, 39, 4893-4902.	3.6	45
34	<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.	2.8	44
35	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.	7.1	43
36	What's new and what's next in diffusion MRI preprocessing. <i>NeuroImage</i> , 2022, 249, 118830.	4.2	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.	3.0	40
38	Characterization of Prostate Microstructure Using Water Diffusion and NMR Relaxation. <i>Frontiers in Physics</i> , 2018, 6, .	2.1	40
39	Identification and characterization of Huntington related pathology: An in vivo DKI imaging study. <i>NeuroImage</i> , 2012, 63, 653-662.	4.2	34
40	Semi-automated brain tumor segmentation on multi-parametric MRI using regularized non-negative matrix factorization. <i>BMC Medical Imaging</i> , 2017, 17, 29.	2.7	34
41	Multi-parametric quantitative in vivo spinal cord MRI with unified signal readout and image denoising. <i>NeuroImage</i> , 2020, 217, 116884.	4.2	34
42	Population-averaged diffusion tensor imaging atlas of the Sprague Dawley rat brain. <i>NeuroImage</i> , 2011, 58, 975-983.	4.2	33
43	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.	12.8	33
44	The variability of MR axon radii estimates in the human white matter. <i>Human Brain Mapping</i> , 2021, 42, 2201-2213.	3.6	30
45	A complementary diffusion tensor imaging (DTI)-histological study in a model of Huntington's disease. <i>Neurobiology of Aging</i> , 2012, 33, 945-959.	3.1	29
46	Hierarchical non-negative matrix factorization to characterize brain tumor heterogeneity using multi-parametric MRI. <i>NMR in Biomedicine</i> , 2015, 28, 1599-1624.	2.8	29
47	Toward more robust and reproducible diffusion kurtosis imaging. <i>Magnetic Resonance in Medicine</i> , 2021, 86, 1600-1613.	3.0	25
48	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.	2.2	23
49	Miniature pig model of human adolescent brain white matter development. <i>Journal of Neuroscience Methods</i> , 2018, 296, 99-108.	2.5	22
50	Diffusion kurtosis imaging with free water elimination: A bayesian estimation approach. <i>Magnetic Resonance in Medicine</i> , 2018, 80, 802-813.	3.0	20
51	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.	3.6	20
52	Altered diffusion tensor imaging measurements in aged transgenic Huntington disease rats. <i>Brain Structure and Function</i> , 2013, 218, 767-778.	2.3	19
53	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.	7.3	19
54	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.	3.1	18

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55	Reproducibility of the Standard Model of diffusion in white matter on clinical MRI systems. <i>NeuroImage</i> , 2022, 257, 119290.	4.2	15
56	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
57	Feasibility and Advantages of Diffusion Weighted Imaging Atlas Construction in Q-Space. <i>Lecture Notes in Computer Science</i> , 2011, 14, 166-173.	1.3	13
58	Muti-shell Diffusion MRI Harmonisation and Enhancement Challenge (MUSHAC): Progress and Results. <i>Mathematics and Visualization</i> , 2019, , 217-224.	0.6	12
59	The successive projection algorithm as an initialization method for brain tumor segmentation using non-negative matrix factorization. <i>PLoS ONE</i> , 2017, 12, e0180268.	2.5	11
60	On the need for bundle-specific microstructure kernels in diffusion MRI. <i>NeuroImage</i> , 2020, 208, 116460.	4.2	9
61	Lipid Metabolism, Abdominal Adiposity, and Cerebral Health in the Amish. <i>Obesity</i> , 2017, 25, 1876-1880.	3.0	8
62	Mobile Camera Localization Using Apollonius Circles and Virtual Landmarks. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2010, 58, 287-308.	3.4	4
63	Improved diffusion parameter estimation by incorporating T2 relaxation properties into the DKI-FWE model. <i>NeuroImage</i> , 2022, 256, 119219.	4.2	4
64	Four-point-algorithm for the recovery of the pose of a one-dimensional camera with unknown focal length. <i>IET Computer Vision</i> , 2012, 6, 314.	2.0	3
65	Diffusion Kurtosis Imaging. , 2016, , 407-418.		3
66	Non-rigid coregistration of diffusion kurtosis data. , 2010, , .		0