

Daan Christiaens

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

4,495
citations

361045

20
h-index

197535

49
g-index

63
all docs

63
docs citations

63
times ranked

5335
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	Denosing of diffusion MRI using random matrix theory. <i>NeuroImage</i> , 2016, 142, 394-406.	2.1	1,208
3	ISLES 2015 - A public evaluation benchmark for ischemic stroke lesion segmentation from multispectral MRI. <i>Medical Image Analysis</i> , 2017, 35, 250-269.	7.0	360
4	Complex diffusion-weighted image estimation via matrix recovery under general noise models. <i>NeuroImage</i> , 2019, 200, 391-404.	2.1	184
5	Global tractography of multi-shell diffusion-weighted imaging data using a multi-tissue model. <i>NeuroImage</i> , 2015, 123, 89-101.	2.1	128
6	Integrated and efficient diffusion-relaxometry using ZEBRA. <i>Scientific Reports</i> , 2018, 8, 15138.	1.6	82
7	Diffusion MRI-based cortical connectome reconstruction: dependency on tractography procedures and neuroanatomical characteristics. <i>Brain Structure and Function</i> , 2018, 223, 2269-2285.	1.2	60
8	Development of human white matter pathways in utero over the second and third trimester. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	55
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	Heterogeneity in Brain Microstructural Development Following Preterm Birth. <i>Cerebral Cortex</i> , 2020, 30, 4800-4810.	1.6	54
11	Recovery from chemotherapy-induced white matter changes in young breast cancer survivors?. <i>Brain Imaging and Behavior</i> , 2018, 12, 64-77.	1.1	52
12	Abnormal Microstructural Development of the Cerebral Cortex in Neonates With Congenital Heart Disease Is Associated With Impaired Cerebral Oxygen Delivery. <i>Journal of the American Heart Association</i> , 2019, 8, e009893.	1.6	48
13	A framework for multi-component analysis of diffusion MRI data over the neonatal period. <i>NeuroImage</i> , 2019, 186, 321-337.	2.1	47
14	Scattered slice SHARD reconstruction for motion correction in multi-shell diffusion MRI. <i>NeuroImage</i> , 2021, 225, 117437.	2.1	44
15	Development of Microstructural and Morphological Cortical Profiles in the Neonatal Brain. <i>Cerebral Cortex</i> , 2020, 30, 5767-5779.	1.6	42
16	The Developing Human Connectome Project Neonatal Data Release. <i>Frontiers in Neuroscience</i> , 2022, 16, .	1.4	42
17	Preterm birth alters the development of cortical microstructure and morphology at term-equivalent age. <i>NeuroImage</i> , 2021, 243, 118488.	2.1	40
18	Cortical morphology at birth reflects spatiotemporal patterns of gene expression in the fetal human brain. <i>PLoS Biology</i> , 2020, 18, e3000976.	2.6	38

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19	Quiet echo planar imaging for functional and diffusion MRI. <i>Magnetic Resonance in Medicine</i> , 2018, 79, 1447-1459.	1.9	35
20	Corpus callosum macro and microstructure in late-life depression. <i>Journal of Affective Disorders</i> , 2017, 222, 63-70.	2.0	27
21	Fixel-based analysis of the preterm brain: Disentangling bundle-specific white matter microstructural and macrostructural changes in relation to clinical risk factors. <i>NeuroImage: Clinical</i> , 2019, 23, 101820.	1.4	27
22	Advanced MR diffusion imaging and chemotherapy-related changes in cerebral white matter microstructure of survivors of childhood bone and soft tissue sarcoma?. <i>Human Brain Mapping</i> , 2018, 39, 3375-3387.	1.9	23
23	Slice-level diffusion encoding for motion and distortion correction. <i>Medical Image Analysis</i> , 2018, 48, 214-229.	7.0	22
24	Higher Order Spherical Harmonics Reconstruction of Fetal Diffusion MRI With Intensity Correction. <i>IEEE Transactions on Medical Imaging</i> , 2020, 39, 1104-1113.	5.4	20
25	Learning Compact q -Space Representations for Multi-Shell Diffusion-Weighted MRI. <i>IEEE Transactions on Medical Imaging</i> , 2019, 38, 834-843.	5.4	19
26	Convexity-constrained and nonnegativity-constrained spherical factorization in diffusion-weighted imaging. <i>NeuroImage</i> , 2017, 146, 507-517.	2.1	18
27	A data-driven approach to optimising the encoding for multi-shell diffusion MRI with application to neonatal imaging. <i>NMR in Biomedicine</i> , 2020, 33, e4348.	1.6	18
28	Reduced structural connectivity in cortico-striatal-thalamic network in neonates with congenital heart disease. <i>NeuroImage: Clinical</i> , 2020, 28, 102423.	1.4	14
29	Muti-shell Diffusion MRI Harmonisation and Enhancement Challenge (MUSHAC): Progress and Results. <i>Mathematics and Visualization</i> , 2019, , 217-224.	0.4	12
30	Parental age effects on neonatal white matter development. <i>NeuroImage: Clinical</i> , 2020, 27, 102283.	1.4	12
31	In Utero Diffusion MRI. <i>Topics in Magnetic Resonance Imaging</i> , 2019, 28, 255-264.	0.7	11
32	Neonatal multi-modal cortical profiles predict 18-month developmental outcomes. <i>Developmental Cognitive Neuroscience</i> , 2022, 54, 101103.	1.9	11
33	Predicting age and clinical risk from the neonatal connectome. <i>NeuroImage</i> , 2022, 257, 119319.	2.1	11
34	On the need for bundle-specific microstructure kernels in diffusion MRI. <i>NeuroImage</i> , 2020, 208, 116460.	2.1	9
35	Multi-Channel 4D Parametrized Atlas of Macro- and Microstructural Neonatal Brain Development. <i>Frontiers in Neuroscience</i> , 2021, 15, 661704.	1.4	8
36	Fiber Bundle Segmentation Using Spectral Embedding and Supervised Learning. <i>Mathematics and Visualization</i> , 2014, , 103-114.	0.4	7

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37	Brain network hubs and cognitive performance of survivors of childhood infratentorial tumors. <i>Radiotherapy and Oncology</i> , 2021, 161, 118-125.	0.3	5
38	Diffusion Tensor Driven Image Registration: A Deep Learning Approach. <i>Lecture Notes in Computer Science</i> , 2020, , 131-140.	1.0	5
39	Dynamic Field Mapping and Motion Correction Using Interleaved Double Spin-Echo Diffusion MRI. <i>Lecture Notes in Computer Science</i> , 2017, , 523-531.	1.0	5
40	The developing brain structural and functional connectome fingerprint. <i>Developmental Cognitive Neuroscience</i> , 2022, 55, 101117.	1.9	5
41	dStripe: Slice artefact correction in diffusion MRI via constrained neural network. <i>Medical Image Analysis</i> , 2021, 74, 102255.	7.0	3
42	Multi-channel Registration for Diffusion MRI: Longitudinal Analysis for the Neonatal Brain. <i>Lecture Notes in Computer Science</i> , 2020, , 111-121.	1.0	3
43	Atlas-Guided Global Tractography: Imposing a Prior on the Local Track Orientation. <i>Mathematics and Visualization</i> , 2014, , 115-123.	0.4	3
44	A Voxel-Wise, Cascaded Classification Approach to Ischemic Stroke Lesion Segmentation. <i>Lecture Notes in Computer Science</i> , 2016, , 254-265.	1.0	3
45	Effects of gestational age at birth on perinatal structural brain development in healthy term-born babies. <i>Human Brain Mapping</i> , 2022, 43, 1577-1589.	1.9	3
46	Groupwise Deformable Registration of Fiber Track Sets Using Track Orientation Distributions. <i>Mathematics and Visualization</i> , 2014, , 151-161.	0.4	2
47	Uncertainty-Aware Deep Learning Based Deformable Registration. <i>Lecture Notes in Computer Science</i> , 2021, , 54-63.	1.0	1
48	Unsupervised Diffeomorphic Surface Registration and Non-linear Modelling. <i>Lecture Notes in Computer Science</i> , 2021, , 118-128.	1.0	1
49	Grey Matter Biomarker Identification in Schizophrenia: Detecting Regional Alterations and Their Underlying Substrates. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
50	Modeling Fiber Orientations Using Diffusion MRI. <i>Advances in Magnetic Resonance Technology and Applications</i> , 2020, 1, 509-532.	0.0	0