Marco Pizzolato

List of Publications by Year
in descending order

Version: 2024-02-01

37 papers	504 citations	1163117 8 h-index	794594 19 g-index
41 all docs	41 docs citations	41 times ranked	813 citing authors

#	Article	IF	Citations
1	Does powder averaging remove dispersion bias in diffusion MRI diameter estimates within real 3D axonal architectures?. NeuroImage, 2022, 248, 118718.	4.2	12
2	Axonal T2 estimation using the spherical variance of the strongly diffusion-weighted MRI signal. Magnetic Resonance Imaging, 2022, 86, 118-134.	1.8	4
3	Diffusion-relaxation scattered MR signal representation in a multi-parametric sequence. Magnetic Resonance Imaging, 2022, , .	1.8	1
4	Insights from the IronTract challenge: Optimal methods for mapping brain pathways from multi-shell diffusion MRI. NeuroImage, 2022, 257, 119327.	4.2	17
5	Evaluating reproducibility and subject-specificity of microstructure-informed connectivity. NeuroImage, 2022, 258, 119356.	4.2	4
6	Fast and highâ€resolution myelin water imaging: Accelerating multiâ€echo GRASE with CAIPIRINHA. Magnetic Resonance in Medicine, 2021, 85, 209-222.	3.0	16
7	The Microstructural Features of the Diffusion-Simulated Connectivity (DiSCo) Dataset. Lecture Notes in Computer Science, 2021, , 159-170.	1.3	1
8	A Signal Peak Separation Index for Axisymmetric B-Tensor Encoding. Mathematics and Visualization, 2021, , 29-42.	0.6	1
9	Model-informed machine learning for multi-component<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.svg"><mml:msub><mml:mi>T</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math>relaxometry. Medical Image Analysis, 2021, 69, 101940.	11.6	26
10	Multi-Compartment Diffusion Mri, T2 Relaxometry And Myelin Water Imaging As Neuroimaging Descriptors For Anomalous Tissue Detection. , 2021, , .		2
11	Comparison of non-parametric T2 relaxometry methods for myelin water quantification. Medical Image Analysis, 2021, 69, 101959.	11.6	16
12	Tractography dissection variability: What happens when 42 groups dissect 14 white matter bundles on the same dataset?. NeuroImage, 2021, 243, 118502.	4.2	94
13	Revisiting the T2 spectrum imaging inverse problem: Bayesian regularized non-negative least squares. NeuroImage, 2021, 244, 118582.	4.2	8
14	Quantitative Evaluation of Enhanced Multi-plane Clinical Fetal Diffusion MRI with a Crossing-Fiber Phantom. Lecture Notes in Computer Science, 2021, , 12-22.	1.3	2
15	Dataâ€driven myelin water imaging based on T ₁ and T ₂ relaxometry. NMR in Biomedicine, 2021, , e4668.	2.8	0
16	Adaptive phase correction of diffusion-weighted images. NeuroImage, 2020, 206, 116274.	4.2	14
17	DWI Simulation-Assisted Machine Learning Models for Microstructure Estimation. Mathematics and Visualization, 2020, , 125-134.	0.6	2
18	Acquiring and Predicting Multidimensional Diffusion (MUDI) Data: An Open Challenge. Mathematics and Visualization, 2020, , 195-208.	0.6	8

#	Article	IF	Citations
19	An Evolutionary Framework for Microstructure-Sensitive Generalized Diffusion Gradient Waveforms. Lecture Notes in Computer Science, 2020, , 94-103.	1.3	0
20	Spatially Varying Monte Carlo Sure for the Regularization of Biomedical Images. , 2019, , .		0
21	Robust T2 Relaxometry With Hamiltonian MCMC for Myelin Water Fraction Estimation. , 2019, , .		0
22	Sparse wars: A survey and comparative study of spherical deconvolution algorithms for diffusion MRI. NeuroImage, 2019, 184, 140-160.	4.2	29
23	Limits to anatomical accuracy of diffusion tractography using modern approaches. NeuroImage, 2019, 185, 1-11.	4.2	200
24	Orientation-Dispersed Apparent Axon Diameter via Multi-Stage Spherical Mean Optimization. Mathematics and Visualization, 2019, , 91-101.	0.6	2
25	Robust Biophysical Parameter Estimation with a Neural Network Enhanced Hamiltonian Markov Chain Monte Carlo Sampler. Lecture Notes in Computer Science, 2019, , 818-829.	1.3	1
26	Perfusion deconvolution in DSC-MRI with dispersion-compliant bases. Medical Image Analysis, 2017, 36, 197-215.	11.6	5
27	Assessing the feasibility of estimating axon diameter using diffusion models and machine learning. , 2017, , .		4
28	Solving the inclination sign ambiguity in three dimensional Polarized Light Imaging with a PDE-based method. , 2017, , .		3
29	Comparison of Biomarkers in Transgenic Alzheimer Rats Using Multi-Shell Diffusion MRI. Mathematics and Visualization, 2017, , 187-199.	0.6	11
30	Noise Floor Removal via Phase Correction of Complex Diffusion-Weighted Images: Influence on DTI and q-Space Metrics. Mathematics and Visualization, 2017, , 21-34.	0.6	3
31	Diffusion MRI Anisotropy: Modeling, Analysis and Interpretation. Mathematics and Visualization, 2017, , 203-228.	0.6	0
32	Elucidating dispersion effects in perfusion MRI by means of dispersion-compliant bases. , 2016, , .		0
33	A Temperature Phantom to Probe the Ensemble Average Propagator Asymmetry: An In-Silico Study. Mathematics and Visualization, 2016, , 183-194.	0.6	1
34	Perfusion MRI deconvolution with delay estimation and non-negativity constraints. , 2015, , .		1
35	A Unifying Framework for Spatial and Temporal Diffusion in Diffusion MRI. Lecture Notes in Computer Science, 2015, 24, 167-178.	1.3	5
36	Exploiting the Phase in Diffusion MRI forÂMicrostructure Recovery: Towards Axonal Tortuosity via Asymmetric Diffusion Processes. Lecture Notes in Computer Science, 2015, , 109-116.	1.3	1

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37	Magnitude and Complex Based Diffusion Signal Reconstruction. Mathematics and Visualization, 2014, , 127-140.	0.6	1