

Muhamed Barakovic

List of Publications by Year in descending order

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Version: 2024-02-01

26
papers

2,090
citations

471371

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26
g-index

32
all docs

32
docs citations

32
times ranked

2729
citing authors

#	ARTICLE	IF	CITATIONS
1	Microstructure-Weighted Connectomics in Multiple Sclerosis. Brain Connectivity, 2022, 12, 6-17.	0.8	4
2	The functional characterization of callosal connections. Progress in Neurobiology, 2022, 208, 102186.	2.8	28
3	Choroid Plexus Volume in Multiple Sclerosis vs Neuromyelitis Optica Spectrum Disorder. Neurology: Neuroimmunology and Neuroinflammation, 2022, 9, .	3.1	32
4	Serum neurofilament light chain for individual prognostication of disease activity in people with multiple sclerosis: a retrospective modelling and validation study. Lancet Neurology, The, 2022, 21, 246-257.	4.9	210
5	Association of Brain Atrophy With Disease Progression Independent of Relapse Activity in Patients With Relapsing Multiple Sclerosis. JAMA Neurology, 2022, 79, 682.	4.5	41
6	Insights from the IronTract challenge: Optimal methods for mapping brain pathways from multi-shell diffusion MRI. NeuroImage, 2022, 257, 119327.	2.1	17
7	A New Advanced MRI Biomarker for Remyelinated Lesions in Multiple Sclerosis. Annals of Neurology, 2022, 92, 486-502.	2.8	28
8	Resolving bundle-specific intra-axonal T2 values within a voxel using diffusion-relaxation tract-based estimation. NeuroImage, 2021, 227, 117617.	2.1	28
9	Normalization of Spinal Cord Total Cross-Sectional and Gray Matter Areas as Quantified With Radially Sampled Averaged Magnetization Inversion Recovery Acquisitions. Frontiers in Neurology, 2021, 12, 637198.	1.1	5
10	Comparison of diffusion MRI and CLARITY fiber orientation estimates in both gray and white matter regions of human and primate brain. NeuroImage, 2021, 228, 117692.	2.1	20
11	Myelin and axon pathology in multiple sclerosis assessed by myelin water and multi-shell diffusion imaging. Brain, 2021, 144, 1684-1696.	3.7	61
12	GAMER-MRI in Multiple Sclerosis Identifies the Diffusion-Based Microstructural Measures That Are Most Sensitive to Focal Damage: A Deep-Learning-Based Analysis and Clinico-Biological Validation. Frontiers in Neuroscience, 2021, 15, 647535.	1.4	4
13	Model-informed machine learning for multi-component T_2 relaxometry. Medical Image Analysis, 2021, 69, 101940.	7.0	26
14	Bundle-Specific Axon Diameter Index as a New Contrast to Differentiate White Matter Tracts. Frontiers in Neuroscience, 2021, 15, 646034.	1.4	11
15	Intrathecal Immunoglobulin M Synthesis is an Independent Biomarker for Higher Disease Activity and Severity in Multiple Sclerosis. Annals of Neurology, 2021, 90, 477-489.	2.8	16
16	Measuring compartmental T_2 -orientational dependence in human brain white matter using a tiltable RF coil and diffusion-correlation MRI. NeuroImage, 2021, 236, 117967.	2.1	30
17	Tractography dissection variability: What happens when 42 groups dissect 14 white matter bundles on the same dataset?. NeuroImage, 2021, 243, 118502.	2.1	94
18	Tractography reproducibility challenge with empirical data (TraCED): The 2017 ISMRM diffusion study group challenge. Journal of Magnetic Resonance Imaging, 2020, 51, 234-249.	1.9	38

#	ARTICLE	IF	CITATIONS
19	ActiveAx_{ADD}: Toward non- ϵ parametric and orientationally invariant axon diameter distribution mapping using PGSE. Magnetic Resonance in Medicine, 2020, 83, 2322-2330.	1.9	9
20	Tractostorm: The what, why, and how of tractography dissection reproducibility. Human Brain Mapping, 2020, 41, 1859-1874.	1.9	59
21	Multiple sclerosis cortical and WM lesion segmentation at 3T MRI: a deep learning method based on FLAIR and MP2RAGE. NeuroImage: Clinical, 2020, 27, 102335.	1.4	54
22	A new method for accurate in vivo mapping of human brain connections using microstructural and anatomical information. Science Advances, 2020, 6, eaba8245.	4.7	64
23	Learning Global Brain Microstructure Maps Using Trainable Sparse Encoders. , 2019, , .		0
24	Sparse wars: A survey and comparative study of spherical deconvolution algorithms for diffusion MRI. NeuroImage, 2019, 184, 140-160.	2.1	29
25	Limits to anatomical accuracy of diffusion tractography using modern approaches. NeuroImage, 2019, 185, 1-11.	2.1	200
26	The challenge of mapping the human connectome based on diffusion tractography. Nature Communications, 2017, 8, 1349.	5.8	956