

Nikola Stikov

List of Publications by Year in descending order

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Version: 2024-02-01

51
papers

2,880
citations

304743

22
h-index

206112

48
g-index

60
all docs

60
docs citations

60
times ranked

3775
citing authors

#	ARTICLE	IF	CITATIONS
1	SCT: Spinal Cord Toolbox, an open-source software for processing spinal cord MRI data. <i>NeuroImage</i> , 2017, 145, 24-43.	4.2	390
2	Quantifying the local tissue volume and composition in individual brains with magnetic resonance imaging. <i>Nature Medicine</i> , 2013, 19, 1667-1672.	30.7	261
3	In vivo histology of the myelin g-ratio with magnetic resonance imaging. <i>NeuroImage</i> , 2015, 118, 397-405.	4.2	256
4	On the accuracy of T_1 mapping: Searching for common ground. <i>Magnetic Resonance in Medicine</i> , 2015, 73, 514-522.	3.0	204
5	Practical medical applications of quantitative MR relaxometry. <i>Journal of Magnetic Resonance Imaging</i> , 2012, 36, 805-824.	3.4	176
6	A robust methodology for in vivo T_1 mapping. <i>Magnetic Resonance in Medicine</i> , 2010, 64, 1057-1067.	3.0	175
7	PAM50: Unbiased multimodal template of the brainstem and spinal cord aligned with the ICBM152 space. <i>NeuroImage</i> , 2018, 165, 170-179.	4.2	143
8	Bound pool fractions complement diffusion measures to describe white matter micro and macrostructure. <i>NeuroImage</i> , 2011, 54, 1112-1121.	4.2	133
9	Promise and pitfalls of g-ratio estimation with MRI. <i>NeuroImage</i> , 2018, 182, 80-96.	4.2	101
10	An interactive meta-analysis of MRI biomarkers of myelin. <i>ELife</i> , 2020, 9, .	6.0	99
11	Histological Underpinnings of Grey Matter Changes in Fibromyalgia Investigated Using Multimodal Brain Imaging. <i>Journal of Neuroscience</i> , 2017, 37, 1090-1101.	3.6	69
12	g-Ratio weighted imaging of the human spinal cord in vivo. <i>NeuroImage</i> , 2017, 145, 11-23.	4.2	66
13	Axon and Myelin Morphology in Animal and Human Spinal Cord. <i>Frontiers in Neuroanatomy</i> , 2017, 11, 129.	1.7	62
14	Quantitative analysis of the myelin g-ratio from electron microscopy images of the macaque corpus callosum. <i>Data in Brief</i> , 2015, 4, 368-373.	1.0	56
15	T_1 mapping for bias correction in quantitative T_1 imaging of the brain at 3T using standard pulse sequences. <i>Journal of Magnetic Resonance Imaging</i> , 2017, 46, 1673-1682.	3.4	53
16	AxonSeg: Open Source Software for Axon and Myelin Segmentation and Morphometric Analysis. <i>Frontiers in Neuroinformatics</i> , 2016, 10, 37.	2.5	46
17	Comparison of different cardiovascular magnetic resonance sequences for native myocardial T_1 mapping at 3T. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2016, 18, 65.	3.3	44
18	Fully-integrated framework for the segmentation and registration of the spinal cord white and gray matter. <i>NeuroImage</i> , 2017, 150, 358-372.	4.2	41

#	ARTICLE	IF	CITATIONS
19	Quantitative magnetization transfer imaging <i>made</i> easy with <i>q</i> MTL: Software for data simulation, analysis, and visualization. Concepts in Magnetic Resonance Part A: Bridging Education and Research, 2015, 44A, 263-277.	0.5	39
20	qMRLab: Quantitative MRI analysis, under one umbrella. Journal of Open Source Software, 2020, 5, 2343.	4.6	36
21	A 24-channel shim array for the human spinal cord: Design, evaluation, and application. Magnetic Resonance in Medicine, 2016, 76, 1604-1611.	3.0	29
22	Reproducibility and the future of MRI research. Magnetic Resonance in Medicine, 2019, 82, 1981-1983.	3.0	28
23	Cross-relaxation imaging of human articular cartilage. Magnetic Resonance in Medicine, 2011, 66, 725-734.	3.0	22
24	Topologically preserving straightening of spinal cord MRI. Journal of Magnetic Resonance Imaging, 2017, 46, 1209-1219.	3.4	22
25	Test-retest reliability of myelin imaging in the human spinal cord: Measurement errors versus region- and aging-induced variations. PLoS ONE, 2018, 13, e0189944.	2.5	20
26	Arterial stiffness and white matter integrity in the elderly: A diffusion tensor and magnetization transfer imaging study. NeuroImage, 2019, 186, 577-585.	4.2	19
27	Axons morphometry in the human spinal cord. NeuroImage, 2019, 185, 119-128.	4.2	19
28	Steady-state MRI: methods for neuroimaging. Imaging in Medicine, 2011, 3, 93-105.	0.0	17
29	Real-time correction of respiration-induced distortions in the human spinal cord using a 24-channel shim array. Magnetic Resonance in Medicine, 2018, 80, 935-946.	3.0	17
30	Scan-rescan of axcaliber, macromolecular tissue volume, and g-ratio in the spinal cord. Magnetic Resonance in Medicine, 2018, 79, 2759-2765.	3.0	17
31	The R1-weighted connectome: complementing brain networks with a myelin-sensitive measure. Network Neuroscience, 2021, 5, 358-372.	2.6	17
32	Vendor-neutral sequences and fully transparent workflows improve inter-vendor reproducibility of quantitative MRI. Magnetic Resonance in Medicine, 2022, 88, 1212-1228.	3.0	17
33	MTR recovery in brain lesions in the BECOME study of glatiramer acetate vs interferon β -1b. Neurology, 2016, 87, 905-911.	1.1	16
34	Changes in structural network are associated with cortical demyelination in early multiple sclerosis. Human Brain Mapping, 2018, 39, 2133-2146.	3.6	16
35	Graphlet characteristics in directed networks. Scientific Reports, 2016, 6, 37057.	3.3	14
36	Beyond advertising: New infrastructures for publishing integrated research objects. PLoS Computational Biology, 2022, 18, e1009651.	3.2	14

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37	AxonPacking: An Open-Source Software to Simulate Arrangements of Axons in White Matter. <i>Frontiers in Neuroinformatics</i> , 2017, 11, 5.	2.5	12
38	Machine Learning and Multiparametric Brain MRI to Differentiate Hereditary Diffuse Leukodystrophy with Spheroids from Multiple Sclerosis. <i>Journal of Neuroimaging</i> , 2020, 30, 674-682.	2.0	12
39	Arterial stiffness cut-off value and white matter integrity in the elderly. <i>NeuroImage: Clinical</i> , 2020, 26, 102007.	2.7	11
40	A Cross-Sectional Study on the Impact of Arterial Stiffness on the Corpus Callosum, a Key White Matter Tract Implicated in Alzheimer's Disease. <i>Journal of Alzheimer's Disease</i> , 2020, 77, 591-605.	2.6	11
41	B ₁ -sensitivity analysis of quantitative magnetization transfer imaging. <i>Magnetic Resonance in Medicine</i> , 2018, 79, 276-285.	3.0	10
42	The Myelin-Weighted Connectome in Parkinson's Disease. <i>Movement Disorders</i> , 2022, 37, 724-733.	3.9	10
43	On the open-source landscape of PLOS Computational Biology. <i>PLoS Computational Biology</i> , 2021, 17, e1008725.	3.2	9
44	A pneumatic phantom for mimicking respiration-induced artifacts in spinal MRI. <i>Magnetic Resonance in Medicine</i> , 2018, 79, 600-605.	3.0	7
45	Construction of a rat spinal cord atlas of axon morphometry. <i>NeuroImage</i> , 2019, 202, 116156.	4.2	7
46	Design and construction of an optimized transmit/receive hybrid birdcage resonator to improve full body images of medium-sized animals in 7T scanner. <i>PLoS ONE</i> , 2018, 13, e0192035.	2.5	7
47	Quantitative T1 and T1 Mapping. <i>Advances in Magnetic Resonance Technology and Applications</i> , 2020, , 19-45.	0.1	4
48	Improving the accuracy of cross-relaxation imaging. <i>International Journal of Imaging Systems and Technology</i> , 2012, 22, 67-72.	4.1	1
49	An interactive meta-analysis of MRI biomarkers of myelin. , 2022, 1, 4.		1
50	Fundamentals of Cardiac T1 Mapping. , 2018, , 1-14.		0
51	The first seminar for magnetic resonance imaging in the Republic of Macedonia (Meeting Report). <i>Prilozi / Makedonska Akademija Na Naukite I Umetnostite, Oddelenie Za Bioloiki I Medicinski Nauki = Contributions / Macedonian Academy of Sciences and Arts, Section of Biological and Medical Sciences</i> . 2010, 31, 269-73.	0.2	0