

# Siawoosh Mohammadi

## List of Publications by Year in descending order

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Version: 2024-02-01

67  
papers

3,178  
citations

136950

32  
h-index

175258

52  
g-index

79  
all docs

79  
docs citations

79  
times ranked

4613  
citing authors

#	ARTICLE	IF	CITATIONS
1	Finding the best clearing approach - Towards 3D wide-scale multimodal imaging of aged human brain tissue. <i>NeuroImage</i> , 2022, 247, 118832.	4.2	7
2	Towards a representative reference for MRI-based human axon radius assessment using light microscopy. <i>NeuroImage</i> , 2022, 249, 118906.	4.2	2
3	Towards in vivo g-ratio mapping using MRI: Unifying myelin and diffusion imaging. <i>Journal of Neuroscience Methods</i> , 2021, 348, 108990.	2.5	40
4	Quantitative magnetic resonance imaging of brain anatomy and in vivo histology. <i>Nature Reviews Physics</i> , 2021, 3, 570-588.	26.6	115
5	The Influence of Radio-Frequency Transmit Field Inhomogeneities on the Accuracy of G-ratio Weighted Imaging. <i>Frontiers in Neuroscience</i> , 2021, 15, 674719.	2.8	5
6	Reducing Susceptibility Distortion Related Image Blurring in Diffusion MRI EPI Data. <i>Frontiers in Neuroscience</i> , 2021, 15, 706473.	2.8	5
7	Longitudinal changes of spinal cord grey and white matter following spinal cord injury. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2021, 92, 1222-1230.	1.9	20
8	Example dataset for the hMRI toolbox. <i>Data in Brief</i> , 2019, 25, 104132.	1.0	24
9	Biophysically motivated efficient estimation of the spatially isotropic component from a single gradient-recalled echo measurement. <i>Magnetic Resonance in Medicine</i> , 2019, 82, 1804-1811.	3.0	10
10	Traumatic and nontraumatic spinal cord injury: pathological insights from neuroimaging. <i>Nature Reviews Neurology</i> , 2019, 15, 718-731.	10.1	125
11	hMRI – A toolbox for quantitative MRI in neuroscience and clinical research. <i>NeuroImage</i> , 2019, 194, 191-210.	4.2	161
12	In vivo evidence of remote neural degeneration in the lumbar enlargement after cervical injury. <i>Neurology</i> , 2019, 92, e1367-e1377.	1.1	29
13	Dynamic changes in white matter microstructure in anorexia nervosa: findings from a longitudinal study. <i>Psychological Medicine</i> , 2019, 49, 1555-1564.	4.5	33
14	Dorsal and ventral horn atrophy is associated with clinical outcome after spinal cord injury. <i>Neurology</i> , 2018, 90, e1510-e1522.	1.1	44
15	Microstructural imaging of human neocortex in vivo. <i>NeuroImage</i> , 2018, 182, 184-206.	4.2	101
16	Four in vivo <i>g</i> -ratio-weighted imaging methods: Comparability and repeatability at the group level. <i>Human Brain Mapping</i> , 2018, 39, 24-41.	3.6	34
17	Neurodegeneration in the Spinal Ventral Horn Prior to Motor Impairment in Cervical Spondylotic Myelopathy. <i>Journal of Neurotrauma</i> , 2017, 34, 2329-2334.	3.4	30
18	The efficiency of retrospective artifact correction methods in improving the statistical power of between-group differences in spinal cord DTI. <i>NeuroImage</i> , 2017, 158, 296-307.	4.2	25

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19	NODDI-DTI: Estimating Neurite Orientation and Dispersion Parameters from a Diffusion Tensor in Healthy White Matter. <i>Frontiers in Neuroscience</i> , 2017, 11, 720.	2.8	54
20	Local striatal reward signals can be predicted from corticostriatal connectivity. <i>NeuroImage</i> , 2017, 159, 9-17.	4.2	15
21	Voxel-based analysis of grey and white matter degeneration in cervical spondylotic myelopathy. <i>Scientific Reports</i> , 2016, 6, 24636.	3.3	52
22	Synthetic quantitative MRI through relaxometry modelling. <i>NMR in Biomedicine</i> , 2016, 29, 1729-1738.	2.8	25
23	Embodied neurology: an integrative framework for neurological disorders. <i>Brain</i> , 2016, 139, 1855-1861.	7.6	39
24	Vascular autoresizing of fMRI (VasA fMRI) improves sensitivity of population studies: A pilot study. <i>NeuroImage</i> , 2016, 124, 794-805.	4.2	33
25	A general linear relaxometry model of $R_1$ using imaging data. <i>Magnetic Resonance in Medicine</i> , 2015, 73, 1309-1314.	3.0	90
26	Local but not long-range microstructural differences of the ventral temporal cortex in developmental prosopagnosia. <i>Neuropsychologia</i> , 2015, 78, 195-206.	1.6	67
27	Deficits in tongue motor control are linked to microstructural brain damage in multiple sclerosis: a pilot study. <i>BMC Neurology</i> , 2015, 15, 190.	1.8	4
28	Advances in MRI-based computational neuroanatomy. <i>Current Opinion in Neurology</i> , 2015, 28, 313-322.	3.6	166
29	Whole-Brain In-vivo Measurements of the Axonal G-Ratio in a Group of 37 Healthy Volunteers. <i>Frontiers in Neuroscience</i> , 2015, 9, 441.	2.8	97
30	POAS4SPM: A Toolbox for SPM to Denoise Diffusion MRI Data. <i>Neuroinformatics</i> , 2015, 13, 19-29.	2.8	12
31	Structure predicts function: Combining non-invasive electrophysiology with in-vivo histology. <i>NeuroImage</i> , 2015, 108, 377-385.	4.2	23
32	Estimating the apparent transverse relaxation time ( $R_2^*$ ) from images with different contrasts (ESTATICS) reduces motion artifacts. <i>Frontiers in Neuroscience</i> , 2014, 8, 278.	2.8	68
33	A new method for joint susceptibility artefact correction and super-resolution for dMRI. , 2014, , .		2
34	Adaptive smoothing of multi-shell diffusion weighted magnetic resonance data by msPOAS. <i>NeuroImage</i> , 2014, 95, 90-105.	4.2	36
35	High-resolution diffusion kurtosis imaging at 3T enabled by advanced post-processing. <i>Frontiers in Neuroscience</i> , 2014, 8, 427.	2.8	22
36	Voxel-Based Statistical Analysis of Fractional Anisotropy and Mean Diffusivity in Patients with Unilateral Temporal Lobe Epilepsy of Unknown Cause. <i>Journal of Neuroimaging</i> , 2013, 23, 352-359.	2.0	31

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37	Grasping multiple sclerosis: do quantitative motor assessments provide a link between structure and function?. <i>Journal of Neurology</i> , 2013, 260, 407-414.	3.6	10
38	The impact of post-processing on spinal cord diffusion tensor imaging. <i>NeuroImage</i> , 2013, 70, 377-385.	4.2	59
39	Retrospective correction of physiological noise in DTI using an extended tensor model and peripheral measurements. <i>Magnetic Resonance in Medicine</i> , 2013, 70, 358-369.	3.0	32
40	Hyperelastic Susceptibility Artifact Correction of DTI in SPM. <i>Informatik Aktuell</i> , 2013, , 344-349.	0.6	21
41	Progression of microstructural putamen alterations in a case of symptomatic recurrent seizures using diffusion tensor imaging. <i>Seizure: the Journal of the British Epilepsy Association</i> , 2012, 21, 478-481.	2.0	12
42	Early microstructural white matter changes in patients with HIV: A diffusion tensor imaging study. <i>BMC Neurology</i> , 2012, 12, 23.	1.8	51
43	The effect of local perturbation fields on human DTI: Characterisation, measurement and correction. <i>NeuroImage</i> , 2012, 60, 562-570.	4.2	33
44	Volume Estimation of the Thalamus Using Freesurfer and Stereology: Consistency between Methods. <i>Neuroinformatics</i> , 2012, 10, 341-350.	2.8	77
45	Correction of vibration artifacts in DTI using phase-encoding reversal (COVIPER). <i>Magnetic Resonance in Medicine</i> , 2012, 68, 882-889.	3.0	40
46	The Influence of Spatial Registration on Detection of Cerebral Asymmetries Using Voxel-Based Statistics of Fractional Anisotropy Images and TBSS. <i>PLoS ONE</i> , 2012, 7, e36851.	2.5	36
47	Can the Language-dominant Hemisphere Be Predicted by Brain Anatomy?. <i>Journal of Cognitive Neuroscience</i> , 2011, 23, 2013-2029.	2.3	61
48	G-CSF Prevents the Progression of Structural Disintegration of White Matter Tracts in Amyotrophic Lateral Sclerosis: A Pilot Trial. <i>PLoS ONE</i> , 2011, 6, e17770.	2.5	39
49	Microstructural and volumetric abnormalities of the putamen in juvenile myoclonic epilepsy. <i>Epilepsia</i> , 2011, 52, 1715-1724.	5.1	76
50	Sex-Dependent Influences of Obesity on Cerebral White Matter Investigated by Diffusion-Tensor Imaging. <i>PLoS ONE</i> , 2011, 6, e18544.	2.5	121
51	A novel splice site mutation in the <i>SPG7</i> gene causing widespread fiber damage in homozygous and heterozygous subjects. <i>Movement Disorders</i> , 2010, 25, 413-420.	3.9	25
52	Specific pattern of early white-matter changes in pure hereditary spastic paraplegia. <i>Movement Disorders</i> , 2010, 25, 1986-1992.	3.9	37
53	Correcting eddy current and motion effects by affine whole-brain registrations: Evaluation of three-dimensional distortions and comparison with slice-wise correction. <i>Magnetic Resonance in Medicine</i> , 2010, 64, 1047-1056.	3.0	129
54	Serum C-reactive protein is linked to cerebral microstructural integrity and cognitive function. <i>Neurology</i> , 2010, 74, 1022-1029.	1.1	196

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55	Individual white matter fractional anisotropy analysis on patients with MRI negative partial epilepsy. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2010, 81, 136-139.	1.9	18
56	Neuroimaging in Susac's syndrome: Focus on DTI. <i>Journal of the Neurological Sciences</i> , 2010, 299, 92-96.	0.6	24
57	Integrity of the hippocampus and surrounding white matter is correlated with language training success in aphasia. <i>NeuroImage</i> , 2010, 53, 283-290.	4.2	93
58	Gelastic seizures: A case of lateral frontal lobe epilepsy and review of the literature. <i>Epilepsy and Behavior</i> , 2009, 15, 249-253.	1.7	35
59	Diffusion tensor imaging demonstrates fiber impairment in Susac's syndrome. <i>Journal of the Neurological Sciences</i> , 2009, 283, 254.	0.6	0
60	Diffusion tensor imaging in a case of Kearns-Sayre syndrome: Striking brainstem involvement as a possible cause of oculomotor symptoms. <i>Journal of the Neurological Sciences</i> , 2009, 281, 110-112.	0.6	9
61	Transient lesion in the splenium related to antiepileptic drug: Case report and new pathophysiological insights. <i>Seizure: the Journal of the British Epilepsy Association</i> , 2008, 17, 654-657.	2.0	25
62	Pattern and progression of white-matter changes in a case of posterior cortical atrophy using diffusion tensor imaging. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2008, 80, 432-436.	1.9	22
63	Nerve fiber impairment of anterior thalamocortical circuitry in juvenile myoclonic epilepsy. <i>Neurology</i> , 2008, 71, 1981-1985.	1.1	126
64	DIFFUSION TENSOR IMAGING DEMONSTRATES FIBER IMPAIRMENT IN SUSAC SYNDROME. <i>Neurology</i> , 2008, 70, 1867-1869.	1.1	50
65	Diffusion-Tensor Imaging at 3 T. <i>Investigative Radiology</i> , 2007, 42, 338-345.	6.2	49
66	Interhemispheric Dissociation of Language Regions in a Healthy Subject. <i>Archives of Neurology</i> , 2006, 63, 1344.	4.5	14
67	Confinement-induced depletion of the enhancedg-factor in quantum wires. <i>Physical Review B</i> , 2005, 72, .	3.2	6