

Siawoosh Mohammadi

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

69
papers

2,224
citations

28
h-index

45
g-index

79
ext. papers

2,815
ext. citations

5.4
avg, IF

4.93
L-index

#	Paper	IF	Citations
69	Serum C-reactive protein is linked to cerebral microstructural integrity and cognitive function. <i>Neurology</i> , 2010 , 74, 1022-9	6.5	165
68	Nerve fiber impairment of anterior thalamocortical circuitry in juvenile myoclonic epilepsy. <i>Neurology</i> , 2008 , 71, 1981-5	6.5	114
67	Advances in MRI-based computational neuroanatomy: from morphometry to in-vivo histology. <i>Current Opinion in Neurology</i> , 2015 , 28, 313-22	7.1	112
66	Sex-dependent influences of obesity on cerebral white matter investigated by diffusion-tensor imaging. <i>PLoS ONE</i> , 2011 , 6, e18544	3.7	107
65	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, 1047-56	4.4	105
64	Integrity of the hippocampus and surrounding white matter is correlated with language training success in aphasia. <i>NeuroImage</i> , 2010 , 53, 283-90	7.9	79
63	hMRI - A toolbox for quantitative MRI in neuroscience and clinical research. <i>NeuroImage</i> , 2019 , 194, 191-210	7.1	73
62	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	5.1	67
61	A general linear relaxometry model of R1 using imaging data. <i>Magnetic Resonance in Medicine</i> , 2015 , 73, 1309-14	4.4	66
60	Microstructural and volumetric abnormalities of the putamen in juvenile myoclonic epilepsy. <i>Epilepsia</i> , 2011 , 52, 1715-24	6.4	62
59	Traumatic and nontraumatic spinal cord injury: pathological insights from neuroimaging. <i>Nature Reviews Neurology</i> , 2019 , 15, 718-731	15	57
58	Microstructural imaging of human neocortex in vivo. <i>NeuroImage</i> , 2018 , 182, 184-206	7.9	55
57	Volume estimation of the thalamus using freesurfer and stereology: consistency between methods. <i>Neuroinformatics</i> , 2012 , 10, 341-50	3.2	55
56	Can the language-dominant hemisphere be predicted by brain anatomy?. <i>Journal of Cognitive Neuroscience</i> , 2011 , 23, 2013-29	3.1	53
55	Local but not long-range microstructural differences of the ventral temporal cortex in developmental prosopagnosia. <i>Neuropsychologia</i> , 2015 , 78, 195-206	3.2	52
54	The impact of post-processing on spinal cord diffusion tensor imaging. <i>NeuroImage</i> , 2013 , 70, 377-85	7.9	47
53	Diffusion-tensor imaging at 3 T: detection of white matter alterations in neurological patients on the basis of normal values. <i>Investigative Radiology</i> , 2007 , 42, 338-45	10.1	46

52	Diffusion tensor imaging demonstrates fiber impairment in Susac syndrome. <i>Neurology</i> , 2008 , 70, 1867-9	6.5	42
51	Estimating the apparent transverse relaxation time (R2 [*]) from images with different contrasts (ESTATICS) reduces motion artifacts. <i>Frontiers in Neuroscience</i> , 2014 , 8, 278	5.1	39
50	Early microstructural white matter changes in patients with HIV: a diffusion tensor imaging study. <i>BMC Neurology</i> , 2012 , 12, 23	3.1	39
49	Correction of vibration artifacts in DTI using phase-encoding reversal (COVIPER). <i>Magnetic Resonance in Medicine</i> , 2012 , 68, 882-9	4.4	38
48	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	3.7	35
47	NODDI-DTI: Estimating Neurite Orientation and Dispersion Parameters from a Diffusion Tensor in Healthy White Matter. <i>Frontiers in Neuroscience</i> , 2017 , 11, 720	5.1	33
46	Embodied neurology: an integrative framework for neurological disorders. <i>Brain</i> , 2016 , 139, 1855-61	11.2	32
45	Voxel-based analysis of grey and white matter degeneration in cervical spondylotic myelopathy. <i>Scientific Reports</i> , 2016 , 6, 24636	4.9	31
44	The effect of local perturbation fields on human DTI: characterisation, measurement and correction. <i>NeuroImage</i> , 2012 , 60, 562-70	7.9	29
43	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	3.7	29
42	Gelastic seizures: A case of lateral frontal lobe epilepsy and review of the literature. <i>Epilepsy and Behavior</i> , 2009 , 15, 249-53	3.2	29
41	Specific pattern of early white-matter changes in pure hereditary spastic paraplegia. <i>Movement Disorders</i> , 2010 , 25, 1986-92	7	28
40	Adaptive smoothing of multi-shell diffusion weighted magnetic resonance data by msPOAS. <i>NeuroImage</i> , 2014 , 95, 90-105	7.9	27
39	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, 352-9	2.8	26
38	Retrospective correction of physiological noise in DTI using an extended tensor model and peripheral measurements. <i>Magnetic Resonance in Medicine</i> , 2013 , 70, 358-69	4.4	26
37	Vascular autorescaling of fMRI (VasA fMRI) improves sensitivity of population studies: A pilot study. <i>NeuroImage</i> , 2016 , 124, 794-805	7.9	23
36	Four in vivo g-ratio-weighted imaging methods: Comparability and repeatability at the group level. <i>Human Brain Mapping</i> , 2018 , 39, 24-41	5.9	22
35	A novel splice site mutation in the SPG7 gene causing widespread fiber damage in homozygous and heterozygous subjects. <i>Movement Disorders</i> , 2010 , 25, 413-20	7	22

34	Quantitative magnetic resonance imaging of brain anatomy and in vivo histology. <i>Nature Reviews Physics</i> , 2021 , 3, 570-588	23.6	22
33	Dynamic changes in white matter microstructure in anorexia nervosa: findings from a longitudinal study. <i>Psychological Medicine</i> , 2019 , 49, 1555-1564	6.9	22
32	Dorsal and ventral horn atrophy is associated with clinical outcome after spinal cord injury. <i>Neurology</i> , 2018 , 90, e1510-e1522	6.5	21
31	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, 654-7	3.2	20
30	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> , 2009 , 80, 432-6	5.5	20
29	Structure predicts function: combining non-invasive electrophysiology with in-vivo histology. <i>NeuroImage</i> , 2015 , 108, 377-85	7.9	19
28	Neuroimaging in Susac syndrome: focus on DTI. <i>Journal of the Neurological Sciences</i> , 2010 , 299, 92-6	3.2	19
27	Synthetic quantitative MRI through relaxometry modelling. <i>NMR in Biomedicine</i> , 2016 , 29, 1729-1738	4.4	18
26	High-resolution diffusion kurtosis imaging at 3T enabled by advanced post-processing. <i>Frontiers in Neuroscience</i> , 2014 , 8, 427	5.1	16
25	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	7.9	15
24	Individual white matter fractional anisotropy analysis on patients with MRI negative partial epilepsy. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2010 , 81, 136-9	5.5	15
23	Hyperelastic Susceptibility Artifact Correction of DTI in SPM. <i>Informatik Aktuell</i> , 2013 , 344-349	0.3	15
22	Neurodegeneration in the Spinal Ventral Horn Prior to Motor Impairment in Cervical Spondylotic Myelopathy. <i>Journal of Neurotrauma</i> , 2017 , 34, 2329-2334	5.4	14
21	In vivo evidence of remote neural degeneration in the lumbar enlargement after cervical injury. <i>Neurology</i> , 2019 , 92, e1367-e1377	6.5	14
20	Interhemispheric dissociation of language regions in a healthy subject. <i>Archives of Neurology</i> , 2006 , 63, 1344-6		13
19	Example dataset for the hMRI toolbox. <i>Data in Brief</i> , 2019 , 25, 104132	1.2	12
18	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, 478-81	3.2	11
17	Grasping multiple sclerosis: do quantitative motor assessments provide a link between structure and function?. <i>Journal of Neurology</i> , 2013 , 260, 407-14	5.5	10

16	Local striatal reward signals can be predicted from corticostriatal connectivity. <i>NeuroImage</i> , 2017 , 159, 9-17	7.9	10
15	Towards in vivo g-ratio mapping using MRI: Unifying myelin and diffusion imaging. <i>Journal of Neuroscience Methods</i> , 2021 , 348, 108990	3	10
14	POAS4SPM: a toolbox for SPM to denoise diffusion MRI data. <i>Neuroinformatics</i> , 2015 , 13, 19-29	3.2	9
13	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, 110-2	3.2	8
12	Confinement-induced depletion of the enhanced g-factor in quantum wires. <i>Physical Review B</i> , 2005 , 72,	3.3	6
11	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	4.4	5
10	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	5.5	4
9	Deficits in tongue motor control are linked to microstructural brain damage in multiple sclerosis: a pilot study. <i>BMC Neurology</i> , 2015 , 15, 190	3.1	3
8	Finding the best clearing approach - Towards 3D wide-scale multimodal imaging of aged human brain tissue.. <i>NeuroImage</i> , 2021 , 247, 118832	7.9	2
7	Reducing susceptibility distortion related image blurring in diffusion MRI EPI data		2
6	A new method for joint susceptibility artefact correction and super-resolution for dMRI 2014 ,		1
5	NODDI-DTI: extracting neurite orientation and dispersion parameters from a diffusion tensor		1
4	Reducing Susceptibility Distortion Related Image Blurring in Diffusion MRI EPI Data. <i>Frontiers in Neuroscience</i> , 2021 , 15, 706473	5.1	1
3	The Influence of Radio-Frequency Transmit Field Inhomogeneities on the Accuracy of G-ratio Weighted Imaging. <i>Frontiers in Neuroscience</i> , 2021 , 15, 674719	5.1	0
2	Human Axon Radii Estimation at MRI Scale. <i>Informatik Aktuell</i> , 2021 , 180-185	0.3	0
1	Towards a representative reference for MRI-based human axon radius assessment using light microscopy.. <i>NeuroImage</i> , 2022 , 118906	7.9	