

Martina F Callaghan

List of Publications by Year in descending order

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Version: 2024-02-01

72
papers

3,486
citations

218677

26
h-index

175258

52
g-index

102
all docs

102
docs citations

102
times ranked

5100
citing authors

#	ARTICLE	IF	CITATIONS
1	Restoring statistical validity in group analyses of motion-corrupted <scp>MRI</scp> data. Human Brain Mapping, 2022, 43, 1973-1983.	3.6	20
2	Correcting inter-scan motion artifacts in quantitative T_1 mapping at 7T. Magnetic Resonance in Medicine, 2022, .	3.0	5
3	Combining navigator and optical prospective motion correction for high-quality 500 μ m resolution quantitative multi-parameter mapping at <scp>7T</scp>. Magnetic Resonance in Medicine, 2022, 88, 787-801.	3.0	12
4	Universal pulses for homogeneous excitation using single channel coils. Magnetic Resonance Imaging, 2022, 92, 180-186.	1.8	2
5	Towards in vivo g-ratio mapping using MRI: Unifying myelin and diffusion imaging. Journal of Neuroscience Methods, 2021, 348, 108990.	2.5	40
6	Simultaneous voxel-wise analysis of brain and spinal cord morphometry and microstructure within the <scp>SPM</scp> framework. Human Brain Mapping, 2021, 42, 220-232.	3.6	10
7	The relationship between hippocampal-dependent task performance and hippocampal grey matter myelination and iron content. Brain and Neuroscience Advances, 2021, 5, 239821282110119.	3.4	7
8	Imperfect spoiling in variable flip angle T_1 mapping at 7T: Quantifying and minimizing impact. Magnetic Resonance in Medicine, 2021, 86, 693-708.	3.0	14
9	Interruptions of the FXN GAA Repeat Tract Delay the Age at Onset of Friedreich's Ataxia in a Location Dependent Manner. International Journal of Molecular Sciences, 2021, 22, 7507.	4.1	10
10	Reducing Susceptibility Distortion Related Image Blurring in Diffusion MRI EPI Data. Frontiers in Neuroscience, 2021, 15, 706473.	2.8	5
11	Model-based multi-parameter mapping. Medical Image Analysis, 2021, 73, 102149.	11.6	3
12	Reassessing associations between white matter and behaviour with multimodal microstructural imaging. Cortex, 2021, 145, 187-200.	2.4	10
13	Functional MRI principles and acquisition strategies. Advances in Magnetic Resonance Technology and Applications, 2021, 4, 231-245.	0.1	0
14	Does hippocampal volume explain performance differences on hippocampal-dependant tasks?. NeuroImage, 2020, 221, 117211.	4.2	30
15	Functional indicators of a decline in the noradrenergic locus coeruleus in ageing. Alzheimer's and Dementia, 2020, 16, e044582.	0.8	0
16	Prior expectations evoke stimulus-specific activity in the deep layers of the primary visual cortex. PLoS Biology, 2020, 18, e3001023.	5.6	43
17	Joint Total Variation ESTATICS for Robust Multi-parameter Mapping. Lecture Notes in Computer Science, 2020, , 53-63.	1.3	1
18	Robust 3D Bloch-Siegert based mapping using multi-echo general linear modeling. Magnetic Resonance in Medicine, 2019, 82, 2003-2015.	3.0	11

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19	Example dataset for the hMRI toolbox. Data in Brief, 2019, 25, 104132.	1.0	24
20	Biophysically motivated efficient estimation of the spatially isotropic component from a single gradient-recalled echo measurement. Magnetic Resonance in Medicine, 2019, 82, 1804-1811.	3.0	10
21	Locus coeruleus imaging as a biomarker for noradrenergic dysfunction in neurodegenerative diseases. Brain, 2019, 142, 2558-2571.	7.6	219
22	Safety of Tattoos in Persons Undergoing MRI. New England Journal of Medicine, 2019, 380, 495-496.	27.0	11
23	hMRI – A toolbox for quantitative MRI in neuroscience and clinical research. NeuroImage, 2019, 194, 191-210.	4.2	161
24	Spatial gradients of healthy aging: a study of myelin-sensitive maps. Neurobiology of Aging, 2019, 79, 83-92.	3.1	5
25	ICP-19: TARGETING THE NORADRENERGIC SYSTEM IN AGING AND EARLY ALZHEIMER'S DISEASE. Alzheimer's and Dementia, 2019, 15, P100.	0.8	1
26	Establishing intra- and inter-vendor reproducibility of T ₁ relaxation time measurements with 3T MRI. Magnetic Resonance in Medicine, 2019, 81, 454-465.	3.0	37
27	Maximising BOLD sensitivity through automated EPI protocol optimisation. NeuroImage, 2019, 189, 159-170.	4.2	17
28	Locus coeruleus integrity in old age is selectively related to memories linked with salient negative events. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 2228-2233.	7.1	104
29	Lesion-site-dependent responses to therapy after aphasic stroke. Journal of Neurology, Neurosurgery and Psychiatry, 2018, 89, 1352-1354.	1.9	13
30	Controlling motion artefact levels in MR images by suspending data acquisition during periods of head motion. Magnetic Resonance in Medicine, 2018, 80, 2415-2426.	3.0	33
31	Quantitative MRI provides markers of intra-, inter-regional, and age-related differences in young adult cortical microstructure. NeuroImage, 2018, 182, 429-440.	4.2	71
32	Non-invasive laminar inference with MEG: Comparison of methods and source inversion algorithms. NeuroImage, 2018, 167, 372-383.	4.2	47
33	Melody Processing Characterizes Functional Neuroanatomy in the Aging Brain. Frontiers in Neuroscience, 2018, 12, 815.	2.8	12
34	A group-level comparison of volumetric and combined volumetric-surface normalization for whole brain analyses of myelin and iron maps. Magnetic Resonance Imaging, 2018, 54, 225-240.	1.8	5
35	Dorsal and ventral visual stream contributions to preserved reading ability in patients with central alexia. Cortex, 2018, 106, 200-212.	2.4	14
36	A robust multi-scale approach to quantitative susceptibility mapping. NeuroImage, 2018, 183, 7-24.	4.2	60

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37	Accurate modeling of temporal correlations in rapidly sampled fMRI time series. <i>Human Brain Mapping</i> , 2018, 39, 3884-3897.	3.6	84
38	Optimizing Data for Modeling Neuronal Responses. <i>Frontiers in Neuroscience</i> , 2018, 12, 986.	2.8	11
39	Lamina-specific cortical dynamics in human visual and sensorimotor cortices. <i>ELife</i> , 2018, 7, .	6.0	45
40	The Brain Basis for Misophonia. <i>Current Biology</i> , 2017, 27, 527-533.	3.9	148
41	Functional and Quantitative MRI Mapping of Somatomotor Representations of Human Supralaryngeal Vocal Tract. <i>Cerebral Cortex</i> , 2017, 27, 265-278.	2.9	49
42	Metacognitive ability correlates with hippocampal and prefrontal microstructure. <i>NeuroImage</i> , 2017, 149, 415-423.	4.2	66
43	Insula and somatosensory cortical myelination and iron markers underlie individual differences in empathy. <i>Scientific Reports</i> , 2017, 7, 43316.	3.3	25
44	373. Adolescence is Associated with Genomically Patterned Consolidation of the Hubs of the Human Brain Connectome. <i>Biological Psychiatry</i> , 2017, 81, S152-S153.	1.3	5
45	Extensive Tonotopic Mapping across Auditory Cortex Is Recapitulated by Spectrally Directed Attention and Systematically Related to Cortical Myeloarchitecture. <i>Journal of Neuroscience</i> , 2017, 37, 12187-12201.	3.6	27
46	Flexible head-casts for high spatial precision MEG. <i>Journal of Neuroscience Methods</i> , 2017, 276, 38-45.	2.5	69
47	Analysis of the Precision of Variable Flip Angle T1 Mapping with Emphasis on the Noise Propagated from RF Transmit Field Maps. <i>Frontiers in Neuroscience</i> , 2017, 11, 106.	2.8	21
48	ICâ€â€161: Phenotypic Differences in Quantitative MRI Parameters in Typical Amnesic Alzheimerâ€™s Disease and PCA in a Youngâ€Onset Alzheimerâ€™s Cohort. <i>Alzheimer's and Dementia</i> , 2016, 12, P119.	0.8	1
49	Correction of interâ€scan motion artifacts in quantitative R1 mapping by accounting for receive coil sensitivity effects. <i>Magnetic Resonance in Medicine</i> , 2016, 76, 1478-1485.	3.0	30
50	Adolescence is associated with genomically patterned consolidation of the hubs of the human brain connectome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 9105-9110.	7.1	415
51	Synthetic quantitative MRI through relaxometry modelling. <i>NMR in Biomedicine</i> , 2016, 29, 1729-1738.	2.8	25
52	Association of pain and CNS structural changes after spinal cord injury. <i>Scientific Reports</i> , 2016, 6, 18534.	3.3	84
53	Vascular autoresizing of fMRI (VasA fMRI) improves sensitivity of population studies: A pilot study. <i>NeuroImage</i> , 2016, 124, 794-805.	4.2	33
54	Specific white matter tissue microstructure changes associated with obesity. <i>NeuroImage</i> , 2016, 125, 36-44.	4.2	106

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55	Advances in MRI-based computational neuroanatomy. <i>Current Opinion in Neurology</i> , 2015, 28, 547.	3.6	2
56	A general linear relaxometry model of R_1 using imaging data. <i>Magnetic Resonance in Medicine</i> , 2015, 73, 1309-1314.	3.0	90
57	Tracking sensory system atrophy and outcome prediction in spinal cord injury. <i>Annals of Neurology</i> , 2015, 78, 751-761.	5.3	77
58	Advances in MRI-based computational neuroanatomy. <i>Current Opinion in Neurology</i> , 2015, 28, 313-322.	3.6	166
59	An evaluation of prospective motion correction (PMC) for high resolution quantitative MRI. <i>Frontiers in Neuroscience</i> , 2015, 9, 97.	2.8	84
60	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
61	Prospective motion correction of 3D echo-planar imaging data for functional MRI using optical tracking. <i>NeuroImage</i> , 2015, 113, 1-12.	4.2	68
62	Structure predicts function: Combining non-invasive electrophysiology with in-vivo histology. <i>NeuroImage</i> , 2015, 108, 377-385.	4.2	23
63	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
64	Widespread age-related differences in the human brain microstructure revealed by quantitative magnetic resonance imaging. <i>Neurobiology of Aging</i> , 2014, 35, 1862-1872.	3.1	248
65	The influence of ligand organization on the rate of uptake of gold nanoparticles by colorectal cancer cells. <i>Biomaterials</i> , 2011, 32, 9776-9784.	11.4	50
66	An investigation of the impedance properties of gold nanoparticles. <i>Journal of Physics: Conference Series</i> , 2010, 224, 012058.	0.4	6
67	Tracking Conductivity Variations in the Absence of Accurate State Evolution Models in Electrical Impedance Tomography. <i>International Conference on Bioinformatics and Biomedical Engineering: [proceedings] International Conference on Bioinformatics and Biomedical Engineering, 2010, , .</i>	0.0	1
68	Positive phase error from parallel conductance in tetrapolar bio-impedance measurements and its compensation. <i>Journal of Electrical Bioimpedance</i> , 2010, 1, 71-79.	0.9	6
69	Cardiac T_2^* and lipid measurement at 3.0 T-initial experience. <i>European Radiology</i> , 2008, 18, 800-805.	4.5	19
70	Liver Fat Content and T_2^* : Simultaneous Measurement by Using Breath-hold Multiecho MR Imaging at 3.0 T-Feasibility. <i>Radiology</i> , 2008, 247, 550-557.	7.3	114
71	Pad \hat{A} methods for reconstruction and feature extraction in magnetic resonance imaging. <i>Magnetic Resonance in Medicine</i> , 2005, 54, 1490-1502.	3.0	14
72	Transcranial direct current stimulation with functional magnetic resonance imaging: a detailed validation and operational guide. <i>Wellcome Open Research</i> , 0, 6, 143.	1.8	4