

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	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
2	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
3	Locus coeruleus imaging as a biomarker for noradrenergic dysfunction in neurodegenerative diseases. <i>Brain</i> , 2019, 142, 2558-2571.	7.6	219
4	Advances in MRI-based computational neuroanatomy. <i>Current Opinion in Neurology</i> , 2015, 28, 313-322.	3.6	166
5	hMRI – A toolbox for quantitative MRI in neuroscience and clinical research. <i>NeuroImage</i> , 2019, 194, 191-210.	4.2	161
6	The Brain Basis for Misophonia. <i>Current Biology</i> , 2017, 27, 527-533.	3.9	148
7	Liver Fat Content and T2*: Simultaneous Measurement by Using Breath-hold Multiecho MR Imaging at 3.0 T – Feasibility. <i>Radiology</i> , 2008, 247, 550-557.	7.3	114
8	Specific white matter tissue microstructure changes associated with obesity. <i>NeuroImage</i> , 2016, 125, 36-44.	4.2	106
9	Locus coeruleus integrity in old age is selectively related to memories linked with salient negative events. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 2228-2233.	7.1	104
10	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
11	A general linear relaxometry model of R_1 using imaging data. <i>Magnetic Resonance in Medicine</i> , 2015, 73, 1309-1314.	3.0	90
12	An evaluation of prospective motion correction (PMC) for high resolution quantitative MRI. <i>Frontiers in Neuroscience</i> , 2015, 9, 97.	2.8	84
13	Association of pain and CNS structural changes after spinal cord injury. <i>Scientific Reports</i> , 2016, 6, 18534.	3.3	84
14	Accurate modeling of temporal correlations in rapidly sampled fMRI time series. <i>Human Brain Mapping</i> , 2018, 39, 3884-3897.	3.6	84
15	Tracking sensory system atrophy and outcome prediction in spinal cord injury. <i>Annals of Neurology</i> , 2015, 78, 751-761.	5.3	77
16	Quantitative MRI provides markers of intra-, inter-regional, and age-related differences in young adult cortical microstructure. <i>NeuroImage</i> , 2018, 182, 429-440.	4.2	71
17	Flexible head-casts for high spatial precision MEG. <i>Journal of Neuroscience Methods</i> , 2017, 276, 38-45.	2.5	69
18	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

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19	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
20	Metacognitive ability correlates with hippocampal and prefrontal microstructure. <i>NeuroImage</i> , 2017, 149, 415-423.	4.2	66
21	A robust multi-scale approach to quantitative susceptibility mapping. <i>NeuroImage</i> , 2018, 183, 7-24.	4.2	60
22	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
23	Functional and Quantitative MRI Mapping of Somatomotor Representations of Human Supralaryngeal Vocal Tract. <i>Cerebral Cortex</i> , 2017, 27, 265-278.	2.9	49
24	Non-invasive laminar inference with MEG: Comparison of methods and source inversion algorithms. <i>NeuroImage</i> , 2018, 167, 372-383.	4.2	47
25	Lamina-specific cortical dynamics in human visual and sensorimotor cortices. <i>ELife</i> , 2018, 7, .	6.0	45
26	Prior expectations evoke stimulus-specific activity in the deep layers of the primary visual cortex. <i>PLoS Biology</i> , 2020, 18, e3001023.	5.6	43
27	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
28	Establishing intra- and inter-vendor reproducibility of T_1 relaxation time measurements with 3T MRI. <i>Magnetic Resonance in Medicine</i> , 2019, 81, 454-465.	3.0	37
29	Vascular autoresizing of fMRI (VasA fMRI) improves sensitivity of population studies: A pilot study. <i>NeuroImage</i> , 2016, 124, 794-805.	4.2	33
30	Controlling motion artefact levels in MR images by suspending data acquisition during periods of head motion. <i>Magnetic Resonance in Medicine</i> , 2018, 80, 2415-2426.	3.0	33
31	Correction of inter-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
32	Does hippocampal volume explain performance differences on hippocampal-dependant tasks?. <i>NeuroImage</i> , 2020, 221, 117211.	4.2	30
33	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
34	Synthetic quantitative MRI through relaxometry modelling. <i>NMR in Biomedicine</i> , 2016, 29, 1729-1738.	2.8	25
35	Insula and somatosensory cortical myelination and iron markers underlie individual differences in empathy. <i>Scientific Reports</i> , 2017, 7, 43316.	3.3	25
36	Example dataset for the hMRI toolbox. <i>Data in Brief</i> , 2019, 25, 104132.	1.0	24

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37	Structure predicts function: Combining non-invasive electrophysiology with in-vivo histology. <i>NeuroImage</i> , 2015, 108, 377-385.	4.2	23
38	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
39	Restoring statistical validity in group analyses of motion-corrupted MRI data. <i>Human Brain Mapping</i> , 2022, 43, 1973-1983.	3.6	20
40	Cardiac T2* and lipid measurement at 3.0 T-initial experience. <i>European Radiology</i> , 2008, 18, 800-805.	4.5	19
41	Maximising BOLD sensitivity through automated EPI protocol optimisation. <i>NeuroImage</i> , 2019, 189, 159-170.	4.2	17
42	Padlock methods for reconstruction and feature extraction in magnetic resonance imaging. <i>Magnetic Resonance in Medicine</i> , 2005, 54, 1490-1502.	3.0	14
43	Dorsal and ventral visual stream contributions to preserved reading ability in patients with central alexia. <i>Cortex</i> , 2018, 106, 200-212.	2.4	14
44	Imperfect spoiling in variable flip angle T ₁ mapping at 7T: Quantifying and minimizing impact. <i>Magnetic Resonance in Medicine</i> , 2021, 86, 693-708.	3.0	14
45	Lesion-site-dependent responses to therapy after aphasic stroke. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2018, 89, 1352-1354.	1.9	13
46	Melody Processing Characterizes Functional Neuroanatomy in the Aging Brain. <i>Frontiers in Neuroscience</i> , 2018, 12, 815.	2.8	12
47	Combining navigator and optical prospective motion correction for high-quality 500 μ m resolution quantitative multi-parameter mapping at 7T. <i>Magnetic Resonance in Medicine</i> , 2022, 88, 787-801.	3.0	12
48	Robust 3D Bloch-Siegert based mapping using multi-echo general linear modeling. <i>Magnetic Resonance in Medicine</i> , 2019, 82, 2003-2015.	3.0	11
49	Safety of Tattoos in Persons Undergoing MRI. <i>New England Journal of Medicine</i> , 2019, 380, 495-496.	27.0	11
50	Optimizing Data for Modeling Neuronal Responses. <i>Frontiers in Neuroscience</i> , 2018, 12, 986.	2.8	11
51	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
52	Simultaneous voxel-wise analysis of brain and spinal cord morphometry and microstructure within the SPM framework. <i>Human Brain Mapping</i> , 2021, 42, 220-232.	3.6	10
53	Interruptions of the FXN GAA Repeat Tract Delay the Age at Onset of Friedreich's Ataxia in a Location Dependent Manner. <i>International Journal of Molecular Sciences</i> , 2021, 22, 7507.	4.1	10
54	Reassessing associations between white matter and behaviour with multimodal microstructural imaging. <i>Cortex</i> , 2021, 145, 187-200.	2.4	10

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55	The relationship between hippocampal-dependent task performance and hippocampal grey matter myelination and iron content. <i>Brain and Neuroscience Advances</i> , 2021, 5, 239821282110119.	3.4	7
56	An investigation of the impedance properties of gold nanoparticles. <i>Journal of Physics: Conference Series</i> , 2010, 224, 012058.	0.4	6
57	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
58	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
59	A group-level comparison of volumetric and combined volumetric-surface normalization for whole brain analyses of myelin and iron maps. <i>Magnetic Resonance Imaging</i> , 2018, 54, 225-240.	1.8	5
60	Spatial gradients of healthy aging: a study of myelin-sensitive maps. <i>Neurobiology of Aging</i> , 2019, 79, 83-92.	3.1	5
61	Reducing Susceptibility Distortion Related Image Blurring in Diffusion MRI EPI Data. <i>Frontiers in Neuroscience</i> , 2021, 15, 706473.	2.8	5
62	Correcting inter-scan motion artifacts in quantitative R_2^* mapping at 7T. <i>Magnetic Resonance in Medicine</i> , 2022, , .	3.0	5
63	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
64	Model-based multi-parameter mapping. <i>Medical Image Analysis</i> , 2021, 73, 102149.	11.6	3
65	Advances in MRI-based computational neuroanatomy. <i>Current Opinion in Neurology</i> , 2015, 28, 547.	3.6	2
66	Universal pulses for homogeneous excitation using single channel coils. <i>Magnetic Resonance Imaging</i> , 2022, 92, 180-186.	1.8	2
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</i> , 2010, , .	0.0	1
68	ICPâ€¢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
69	ICâ€¢119: TARGETING THE NORADRENERGIC SYSTEM IN AGEING AND EARLY ALZHEIMER'S DISEASE. <i>Alzheimer's and Dementia</i> , 2019, 15, P100.	0.8	1
70	Joint Total Variation ESTATICS for Robust Multi-parameter Mapping. <i>Lecture Notes in Computer Science</i> , 2020, , 53-63.	1.3	1
71	Functional indicators of a decline in the noradrenergic locus coeruleus in ageing. <i>Alzheimer's and Dementia</i> , 2020, 16, e044582.	0.8	0
72	Functional MRI principles and acquisition strategies. <i>Advances in Magnetic Resonance Technology and Applications</i> , 2021, 4, 231-245.	0.1	0