

Karla L Miller

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.

132
papers

17,558
citations

51
h-index

132
g-index

151
ext. papers

22,765
ext. citations

8.2
avg, IF

6.39
L-index

#	Paper	IF	Citations
132	Correspondence of the brain's functional architecture during activation and rest. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 13040-5	11.5	3661
131	Network modelling methods for FMRI. <i>NeuroImage</i> , 2011 , 54, 875-91	7.9	1254
130	Multiplexed echo planar imaging for sub-second whole brain FMRI and fast diffusion imaging. <i>PLoS ONE</i> , 2010 , 5, e15710	3.7	889
129	Resting-state fMRI in the Human Connectome Project. <i>NeuroImage</i> , 2013 , 80, 144-68	7.9	865
128	Multimodal population brain imaging in the UK Biobank prospective epidemiological study. <i>Nature Neuroscience</i> , 2016 , 19, 1523-1536	25.5	739
127	ICA-based artefact removal and accelerated fMRI acquisition for improved resting state network imaging. <i>NeuroImage</i> , 2014 , 95, 232-47	7.9	708
126	Functional connectomics from resting-state fMRI. <i>Trends in Cognitive Sciences</i> , 2013 , 17, 666-82	14	560
125	Temporally-independent functional modes of spontaneous brain activity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 3131-6	11.5	555
124	A positive-negative mode of population covariation links brain connectivity, demographics and behavior. <i>Nature Neuroscience</i> , 2015 , 18, 1565-7	25.5	551
123	Pushing spatial and temporal resolution for functional and diffusion MRI in the Human Connectome Project. <i>NeuroImage</i> , 2013 , 80, 80-104	7.9	534
122	Acquisition and voxelwise analysis of multi-subject diffusion data with tract-based spatial statistics. <i>Nature Protocols</i> , 2007 , 2, 499-503	18.8	472
121	Image processing and Quality Control for the first 10,000 brain imaging datasets from UK Biobank. <i>NeuroImage</i> , 2018 , 166, 400-424	7.9	415
120	Diffusion-weighted imaging tractography-based parcellation of the human parietal cortex and comparison with human and macaque resting-state functional connectivity. <i>Journal of Neuroscience</i> , 2011 , 31, 4087-100	6.6	394
119	Social network size affects neural circuits in macaques. <i>Science</i> , 2011 , 334, 697-700	33.3	332
118	Genome-wide association studies of brain imaging phenotypes in UK Biobank. <i>Nature</i> , 2018 , 562, 210-216	30.4	282
117	Motor skill learning induces changes in white matter microstructure and myelination. <i>Journal of Neuroscience</i> , 2013 , 33, 19499-503	6.6	276
116	Discrepancies between BOLD and flow dynamics in primary and supplementary motor areas: application of the balloon model to the interpretation of BOLD transients. <i>NeuroImage</i> , 2004 , 21, 144-53	7.9	194

115	Diffusion imaging of whole, post-mortem human brains on a clinical MRI scanner. <i>NeuroImage</i> , 2011 , 57, 167-181	7.9	193
114	Medium-term effects of SARS-CoV-2 infection on multiple vital organs, exercise capacity, cognition, quality of life and mental health, post-hospital discharge. <i>EClinicalMedicine</i> , 2021 , 31, 100683	11.3	164
113	Nonlinear temporal dynamics of the cerebral blood flow response. <i>Human Brain Mapping</i> , 2001 , 13, 1-12	5.9	161
112	Physiological noise modelling for spinal functional magnetic resonance imaging studies. <i>NeuroImage</i> , 2008 , 39, 680-92	7.9	158
111	Group-PCA for very large fMRI datasets. <i>NeuroImage</i> , 2014 , 101, 738-49	7.9	157
110	Causal effect of disconnection lesions on interhemispheric functional connectivity in rhesus monkeys. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 13982-7	11.5	152
109	Studying neuroanatomy using MRI. <i>Nature Neuroscience</i> , 2017 , 20, 314-326	25.5	147
108	Nonlinear phase correction for navigated diffusion imaging. <i>Magnetic Resonance in Medicine</i> , 2003 , 50, 343-53	4.4	146
107	High resolution diffusion-weighted imaging in fixed human brain using diffusion-weighted steady state free precession. <i>NeuroImage</i> , 2009 , 46, 775-85	7.9	142
106	MRI characteristics of the substantia nigra in Parkinson's disease: a combined quantitative T1 and DTI study. <i>NeuroImage</i> , 2009 , 47, 435-41	7.9	142
105	Spectral characteristics of resting state networks. <i>Progress in Brain Research</i> , 2011 , 193, 259-76	2.9	140
104	Estimation of brain age delta from brain imaging. <i>NeuroImage</i> , 2019 , 200, 528-539	7.9	118
103	A combined post-mortem magnetic resonance imaging and quantitative histological study of multiple sclerosis pathology. <i>Brain</i> , 2012 , 135, 2938-51	11.2	111
102	Steady-state diffusion-weighted imaging of in vivo knee cartilage. <i>Magnetic Resonance in Medicine</i> , 2004 , 51, 394-8	4.4	107
101	A neural circuit covarying with social hierarchy in macaques. <i>PLoS Biology</i> , 2014 , 12, e1001940	9.7	106
100	Connectivity-based segmentation of the substantia nigra in human and its implications in Parkinson's disease. <i>NeuroImage</i> , 2010 , 52, 1175-80	7.9	102
99	Evaluating fibre orientation dispersion in white matter: Comparison of diffusion MRI, histology and polarized light imaging. <i>NeuroImage</i> , 2017 , 157, 561-574	7.9	95
98	DANTE-prepared pulse trains: a novel approach to motion-sensitized and motion-suppressed quantitative magnetic resonance imaging. <i>Magnetic Resonance in Medicine</i> , 2012 , 68, 1423-38	4.4	93

97	The UK Biobank imaging enhancement of 100,000 participants: rationale, data collection, management and future directions. <i>Nature Communications</i> , 2020 , 11, 2624	17.4	81
96	Measuring the effects of remifentanyl on cerebral blood flow and arterial arrival time using 3D GRASE MRI with pulsed arterial spin labelling. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2008 , 28, 1514-22	7.3	78
95	Microstructural imaging of the human brain with a Super-scanner: 10 key advantages of ultra-strong gradients for diffusion MRI. <i>NeuroImage</i> , 2018 , 182, 8-38	7.9	78
94	Addressing a systematic vibration artifact in diffusion-weighted MRI. <i>Human Brain Mapping</i> , 2010 , 31, 193-202	5.9	76
93	Cerebral blood flow, blood volume, and oxygen metabolism dynamics in human visual and motor cortex as measured by whole-brain multi-modal magnetic resonance imaging. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2009 , 29, 1856-66	7.3	76
92	SARS-CoV-2 is associated with changes in brain structure in UK Biobank.. <i>Nature</i> , 2022 ,	50.4	74
91	Functional brain imaging using a blood oxygenation sensitive steady state. <i>Magnetic Resonance in Medicine</i> , 2003 , 50, 675-83	4.4	73
90	The extreme capsule fiber complex in humans and macaque monkeys: a comparative diffusion MRI tractography study. <i>Brain Structure and Function</i> , 2016 , 221, 4059-4071	4	71
89	Evidence for a vascular contribution to diffusion FMRI at high b value. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 20967-72	11.5	70
88	Detecting microstructural properties of white matter based on compartmentalization of magnetic susceptibility. <i>NeuroImage</i> , 2013 , 70, 1-9	7.9	62
87	High-resolution FMRI at 1.5T using balanced SSFP. <i>Magnetic Resonance in Medicine</i> , 2006 , 55, 161-70	4.4	61
86	Diffusion tractography of post-mortem human brains: optimization and comparison of spin echo and steady-state free precession techniques. <i>NeuroImage</i> , 2012 , 59, 2284-97	7.9	59
85	Study protocol: The Whitehall II imaging sub-study. <i>BMC Psychiatry</i> , 2014 , 14, 159	4.2	58
84	Brain aging comprises many modes of structural and functional change with distinct genetic and biophysical associations. <i>ELife</i> , 2020 , 9,	8.9	56
83	Image formation in diffusion MRI: A review of recent technical developments. <i>Journal of Magnetic Resonance Imaging</i> , 2017 , 46, 646-662	5.6	52
82	Ex vivo diffusion MRI of the human brain: Technical challenges and recent advances. <i>NMR in Biomedicine</i> , 2019 , 32, e3941	4.4	52
81	Meaningful design and contrast estimability in FMRI. <i>NeuroImage</i> , 2007 , 34, 127-36	7.9	50
80	k-t FASTER: Acceleration of functional MRI data acquisition using low rank constraints. <i>Magnetic Resonance in Medicine</i> , 2015 , 74, 353-64	4.4	49

79	Scan time reduction for readout-segmented EPI using simultaneous multislice acceleration: Diffusion-weighted imaging at 3 and 7 Tesla. <i>Magnetic Resonance in Medicine</i> , 2015 , 74, 136-149	4.4	46
78	The danger of systematic bias in group-level fMRI-lag-based causality estimation. <i>NeuroImage</i> , 2012 , 59, 1228-9	7.9	44
77	High-resolution diffusion MRI at 7T using a three-dimensional multi-slab acquisition. <i>NeuroImage</i> , 2016 , 143, 1-14	7.9	41
76	Confound modelling in UK Biobank brain imaging. <i>NeuroImage</i> , 2021 , 224, 117002	7.9	40
75	Reducing distortions in diffusion-weighted echo planar imaging with a dual-echo blip-reversed sequence. <i>Magnetic Resonance in Medicine</i> , 2010 , 64, 382-90	4.4	39
74	Primate comparative neuroscience using magnetic resonance imaging: promises and challenges. <i>Frontiers in Neuroscience</i> , 2014 , 8, 298	5.1	38
73	Modeling SSFP functional MRI contrast in the brain. <i>Magnetic Resonance in Medicine</i> , 2008 , 60, 661-73	4.4	38
72	Signal and noise characteristics of SSFP fMRI: a comparison with GRE at multiple field strengths. <i>NeuroImage</i> , 2007 , 37, 1227-36	7.9	38
71	Steady-state diffusion-weighted imaging: theory, acquisition and analysis. <i>NMR in Biomedicine</i> , 2010 , 23, 781-93	4.4	35
70	Sensitivity of diffusion weighted steady state free precession to anisotropic diffusion. <i>Magnetic Resonance in Medicine</i> , 2008 , 60, 405-13	4.4	35
69	Respiration-induced B0 field fluctuation compensation in balanced SSFP: real-time approach for transition-band SSFP fMRI. <i>Magnetic Resonance in Medicine</i> , 2006 , 55, 1197-201	4.4	35
68	fMRI using balanced steady-state free precession (SSFP). <i>NeuroImage</i> , 2012 , 62, 713-9	7.9	33
67	The spatial correspondence and genetic influence of interhemispheric connectivity with white matter microstructure. <i>Nature Neuroscience</i> , 2019 , 22, 809-819	25.5	31
66	Dentatorubrothalamic tract localization with postmortem MR diffusion tractography compared to histological 3D reconstruction. <i>Brain Structure and Function</i> , 2016 , 221, 3487-501	4	31
65	3D steady-state diffusion-weighted imaging with trajectory using radially batched internal navigator echoes (TURBINE). <i>Magnetic Resonance in Medicine</i> , 2010 , 63, 235-42	4.4	31
64	Brain imaging before and after COVID-19 in UK Biobank 2021 ,		31
63	3D multi-slab diffusion-weighted readout-segmented EPI with real-time cardiac-reordered K-space acquisition. <i>Magnetic Resonance in Medicine</i> , 2014 , 72, 1565-79	4.4	30
62	Pathology of callosal damage in ALS: An , 7T diffusion tensor MRI study. <i>NeuroImage: Clinical</i> , 2017 , 15, 200-208	5.3	30

61	Improving diffusion-weighted imaging of post-mortem human brains: SSFP at 7 T. <i>NeuroImage</i> , 2014 , 102 Pt 2, 579-89	7.9	29
60	Implementation and assessment of diffusion-weighted partial Fourier readout-segmented echo-planar imaging. <i>Magnetic Resonance in Medicine</i> , 2012 , 68, 441-51	4.4	27
59	Asymmetries of the balanced SSFP profile. Part I: theory and observation. <i>Magnetic Resonance in Medicine</i> , 2010 , 63, 385-95	4.4	27
58	Dissecting the pathobiology of altered MRI signal in amyotrophic lateral sclerosis: A post mortem whole brain sampling strategy for the integration of ultra-high-field MRI and quantitative neuropathology. <i>BMC Neuroscience</i> , 2018 , 19, 11	3.2	26
57	Diffusion tensor imaging of dolphin brains reveals direct auditory pathway to temporal lobe. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2015 , 282,	4.4	26
56	The effect of realistic geometries on the susceptibility-weighted MR signal in white matter. <i>Magnetic Resonance in Medicine</i> , 2018 , 79, 489-500	4.4	25
55	Longitudinal connections and the organization of the temporal cortex in macaques, great apes, and humans. <i>PLoS Biology</i> , 2020 , 18, e3000810	9.7	25
54	Cortical and subcortical connections within the pedunclopontine nucleus of the primate <i>Macaca mulatta</i> determined using probabilistic diffusion tractography. <i>Journal of Clinical Neuroscience</i> , 2009 , 16, 413-20	2.2	24
53	Asymmetries of the balanced SSFP profile. Part II: white matter. <i>Magnetic Resonance in Medicine</i> , 2010 , 63, 396-406	4.4	23
52	Reduced limbic connections may contraindicate subgenual cingulate deep brain stimulation for intractable depression. <i>Journal of Neurosurgery</i> , 2009 , 111, 780-4	3.2	22
51	Accelerating functional MRI using fixed-rank approximations and radial-cartesian sampling. <i>Magnetic Resonance in Medicine</i> , 2016 , 76, 1825-1836	4.4	22
50	TREMR: Table-resonance elastography with MR. <i>Magnetic Resonance in Medicine</i> , 2009 , 62, 815-21	4.4	21
49	Optimization of 4D vessel-selective arterial spin labeling angiography using balanced steady-state free precession and vessel-encoding. <i>NMR in Biomedicine</i> , 2016 , 29, 776-86	4.4	21
48	White matter structure and myelin-related gene expression alterations with experience in adult rats. <i>Progress in Neurobiology</i> , 2020 , 187, 101770	10.9	20
47	Reducing slab boundary artifacts in three-dimensional multislabs diffusion MRI using nonlinear inversion for slab profile encoding (NPEN). <i>Magnetic Resonance in Medicine</i> , 2016 , 76, 1183-95	4.4	20
46	Motion correction for functional MRI with three-dimensional hybrid radial-Cartesian EPI. <i>Magnetic Resonance in Medicine</i> , 2017 , 78, 527-540	4.4	20
45	Spatiotemporal characterization of breathing-induced B field fluctuations in the cervical spinal cord at 7T. <i>NeuroImage</i> , 2018 , 167, 191-202	7.9	17
44	White matter changes in the perforant path area in patients with amyotrophic lateral sclerosis. <i>Neuropathology and Applied Neurobiology</i> , 2019 , 45, 570-585	5.2	16

43	A model for extra-axonal diffusion spectra with frequency-dependent restriction. <i>Magnetic Resonance in Medicine</i> , 2015 , 73, 2306-20	4.4	14
42	Steady-state MRI: methods for neuroimaging. <i>Imaging in Medicine</i> , 2011 , 3, 93-105	1	14
41	Methods for quantitative susceptibility and R2* mapping in whole post-mortem brains at 7T applied to amyotrophic lateral sclerosis. <i>NeuroImage</i> , 2020 , 222, 117216	7.9	14
40	Relating diffusion tensor imaging measurements to microstructural quantities in the cerebral cortex in multiple sclerosis. <i>Human Brain Mapping</i> , 2019 , 40, 4417-4431	5.9	12
39	Preserved extrastriate visual network in a monkey with substantial, naturally occurring damage to primary visual cortex. <i>ELife</i> , 2019 , 8,	8.9	11
38	Diffusion Acceleration with Gaussian process Estimated Reconstruction (DAGER). <i>Magnetic Resonance in Medicine</i> , 2019 , 82, 107-125	4.4	10
37	Joint modelling of diffusion MRI and microscopy. <i>NeuroImage</i> , 2019 , 201, 116014	7.9	10
36	Optimizing RetroCor and RetroKCor corrections for multi-shot 3D fMRI acquisitions. <i>NeuroImage</i> , 2014 , 84, 394-405	7.9	10
35	Real-time cardiac synchronization with fixed volume frame rate for reducing physiological instabilities in 3D fMRI. <i>NeuroImage</i> , 2011 , 57, 1364-75	7.9	10
34	Genome-wide association studies of brain structure and function in the UK Biobank		9
33	Recovering task fMRI signals from highly under-sampled data with low-rank and temporal subspace constraints. <i>NeuroImage</i> , 2018 , 174, 97-110	7.9	8
32	Modeling an equivalent b-value in diffusion-weighted steady-state free precession. <i>Magnetic Resonance in Medicine</i> , 2020 , 84, 873-884	4.4	7
31	PEAR: PERiodic And fixed Rank separation for fast fMRI. <i>Medical Physics</i> , 2017 , 44, 6166-6182	4.4	7
30	Image Processing and Quality Control for the first 10,000 Brain Imaging Datasets from UK Biobank		6
29	Estimation of Brain Age Delta from Brain Imaging		6
28	Tensor Image Registration Library: Automated Non-Linear Registration of Sparsely Sampled Histological Specimens to Post-Mortem MRI of the Whole Human Brain		6
27	A method for correcting breathing-induced field fluctuations in T2*-weighted spinal cord imaging using a respiratory trace. <i>Magnetic Resonance in Medicine</i> , 2019 , 81, 3745-3753	4.4	6
26	Diffusion MRI data, sulcal anatomy, and tractography for eight species from the Primate Brain Bank. <i>Brain Structure and Function</i> , 2021 , 226, 2497-2509	4	6

25	Confound modelling in UK Biobank brain imaging		4
24	Template-based field map prediction for rapid whole brain B shimming. <i>Magnetic Resonance in Medicine</i> , 2018 , 80, 171-180	4.4	3
23	Choice of reference measurements affects quantification of long diffusion time behaviour using stimulated echoes. <i>Magnetic Resonance in Medicine</i> , 2018 , 79, 952-959	4.4	3
22	Brain aging comprises many modes of structural and functional change with distinct genetic and biophysical associations		3
21	Use of multi-flip angle measurements to account for transmit inhomogeneity and non-Gaussian diffusion in DW-SSFP. <i>NeuroImage</i> , 2020 , 220, 117113	7.9	3
20	A method to remove the influence of fixative concentration on postmortem T maps using a kinetic tensor model. <i>Human Brain Mapping</i> , 2021 , 42, 5956-5972	5.9	3
19	Improved statistical efficiency of simultaneous multi-slice fMRI by reconstruction with spatially adaptive temporal smoothing. <i>NeuroImage</i> , 2019 , 203, 116165	7.9	2
18	A 3D k-space Fourier encoding and reconstruction framework for simultaneous multi-slab acquisition. <i>Magnetic Resonance in Medicine</i> , 2019 , 82, 1012-1024	4.4	2
17	Adapting the UK Biobank Brain Imaging Protocol and Analysis Pipeline for the C-MORE Multi-Organ Study of COVID-19 Survivors. <i>Frontiers in Neurology</i> , 2021 , 12, 753284	4.1	2
16	A semi-automated approach to dense segmentation of 3D white matter electron microscopy		2
15	Methods for quantitative susceptibility and R2* mapping in whole post-mortem brains at 7T		2
14	Joint modelling of diffusion MRI and microscopy		2
13	The Digital Brain Bank, an open access platform for post-mortem datasets		2
12	The Forget-Me-Not dHCP study: 7 Tesla high resolution diffusion imaging in the unfixed post-mortem neonatal brain		2
11	A method to remove the influence of fixative concentration on post-mortem T2 maps using a Kinetic Tensor model		1
10	Use of multi-flip angle measurements to account for transmit inhomogeneity and non-Gaussian diffusion in DW-SSFP		1
9	Phenotypic and genetic associations of quantitative magnetic susceptibility in UK Biobank brain imaging		1
8	Quantifying myelin in crossing fibers using diffusion-prepared phase imaging: Theory and simulations. <i>Magnetic Resonance in Medicine</i> , 2021 , 86, 2618-2634	4.4	1

7	Subspace-constrained approaches to low-rank fMRI acceleration. <i>NeuroImage</i> , 2021 , 238, 118235	7.9	1
6	The Digital Brain Bank, an open access platform for post-mortem datasets.. <i>ELife</i> , 2022 , 11,	8.9	1
5	Diffusion Acquisition 2014 , 35-61		0
4	Resonate: Reaching Excellence Through Equity, Diversity, and Inclusion in ISMRM. <i>Journal of Magnetic Resonance Imaging</i> , 2021 , 53, 1608-1611	5.6	0
3	Social connections predict brain structure in a multidimensional free-ranging primate society.. <i>Science Advances</i> , 2022 , 8, eabl5794	14.3	0
2	Advanced MRI Methods 2015 , 85-91		
1	Magnetic Resonance Imaging (MRI) Methods 2015 , 39-84		