

Laura M Parkes

List of Publications by Year in descending order

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75
papers

6,105
citations

117625

34
h-index

98798

67
g-index

78
all docs

78
docs citations

78
times ranked

8474
citing authors

#	ARTICLE	IF	CITATIONS
1	Recommended implementation of arterial spin-labeled perfusion MRI for clinical applications: A consensus of the ISMRM perfusion study group and the European consortium for ASL in dementia. <i>Magnetic Resonance in Medicine</i> , 2015, 73, 102-116.	3.0	1,663
2	Compulsory averaging of crowded orientation signals in human vision. <i>Nature Neuroscience</i> , 2001, 4, 739-744.	14.8	787
3	Localizing human visual gamma-band activity in frequency, time and space. <i>NeuroImage</i> , 2006, 29, 764-773.	4.2	439
4	Normal cerebral perfusion measurements using arterial spin labeling: Reproducibility, stability, and age and gender effects. <i>Magnetic Resonance in Medicine</i> , 2004, 51, 736-743.	3.0	395
5	Improved accuracy of human cerebral blood perfusion measurements using arterial spin labeling: Accounting for capillary water permeability. <i>Magnetic Resonance in Medicine</i> , 2002, 48, 27-41.	3.0	181
6	Quantifying the spatial resolution of the gradient echo and spin echo BOLD response at 3 Tesla. <i>Magnetic Resonance in Medicine</i> , 2005, 54, 1465-1472.	3.0	163
7	Combining EEG and fMRI to investigate the post-movement beta rebound. <i>NeuroImage</i> , 2006, 29, 685-696.	4.2	130
8	A comparison of dual gradient-echo and spin-echo fMRI of the inferior temporal lobe. <i>Human Brain Mapping</i> , 2014, 35, 4118-4128.	3.6	124
9	Blood-Brain Barrier Leakage Is Increased in Parkinson's Disease. <i>Frontiers in Physiology</i> , 2020, 11, 593026.	2.8	107
10	Depressive Disorders: Focally Altered Cerebral Perfusion Measured with Arterial Spin-labeling MR Imaging. <i>Radiology</i> , 2009, 251, 476-484.	7.3	106
11	Validation of High-Resolution Tractography Against <i>In Vivo</i> Tracing in the Macaque Visual Cortex. <i>Cerebral Cortex</i> , 2015, 25, 4299-4309.	2.9	101
12	Cobalt nanoparticles as a novel magnetic resonance contrast agent-relaxivities at 1.5 and 3 Tesla. <i>Contrast Media and Molecular Imaging</i> , 2008, 3, 150-156.	0.8	92
13	Cued Memory Reactivation during Slow-Wave Sleep Promotes Explicit Knowledge of a Motor Sequence. <i>Journal of Neuroscience</i> , 2014, 34, 15870-15876.	3.6	80
14	Multivoxel fMRI analysis of color tuning in human primary visual cortex. <i>Journal of Vision</i> , 2009, 9, 1-1.	0.3	76
15	Cued Reactivation of Motor Learning during Sleep Leads to Overnight Changes in Functional Brain Activity and Connectivity. <i>PLoS Biology</i> , 2016, 14, e1002451.	5.6	74
16	Calibrated fMRI during a cognitive Stroop task reveals reduced metabolic response with increasing age. <i>NeuroImage</i> , 2012, 59, 1143-1151.	4.2	73
17	Quantification of cerebral perfusion using arterial spin labeling: Two-compartment models. <i>Journal of Magnetic Resonance Imaging</i> , 2005, 22, 732-736.	3.4	64
18	Inability to directly detect magnetic field changes associated with neuronal activity. <i>Magnetic Resonance in Medicine</i> , 2007, 57, 411-416.	3.0	62

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19	Arterial spin labelling reveals prolonged arterial arrival time in idiopathic Parkinson's disease. <i>NeuroImage: Clinical</i> , 2014, 6, 1-8.	2.7	62
20	A Systematic Review of Glucose Transport Alterations in Alzheimer's Disease. <i>Frontiers in Neuroscience</i> , 2021, 15, 626636.	2.8	59
21	Quantification of GABA, glutamate and glutamine in a single measurement at 3T using GABA-edited MEGA-PRESS. <i>NMR in Biomedicine</i> , 2018, 31, e3847.	2.8	58
22	The Interleukin-1 Balance During Encephalitis Is Associated With Clinical Severity, Blood-Brain Barrier Permeability, Neuroimaging Changes, and Disease Outcome. <i>Journal of Infectious Diseases</i> , 2016, 213, 1651-1660.	4.0	55
23	International Multicenter Analysis of Brain Structure Across Clinical Stages of Parkinson's Disease. <i>Movement Disorders</i> , 2021, 36, 2583-2594.	3.9	54
24	Randomised controlled trial of simvastatin treatment for autism in young children with neurofibromatosis type 1 (SANTA). <i>Molecular Autism</i> , 2018, 9, 12.	4.9	52
25	Water-exchange MRI detects subtle blood-brain barrier breakdown in Alzheimer's disease rats. <i>NeuroImage</i> , 2019, 184, 349-358.	4.2	52
26	The effect of sex and handedness on white matter anisotropy: a diffusion tensor magnetic resonance imaging study. <i>Neuroscience</i> , 2012, 207, 227-242.	2.3	50
27	Prevalence and subtypes of radiological cerebrovascular disease in late-onset isolated seizures and epilepsy. <i>Clinical Neurology and Neurosurgery</i> , 2013, 115, 591-596.	1.4	50
28	Structural and physiological neurovascular changes in idiopathic Parkinson's disease and its clinical phenotypes. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2017, 37, 3409-3421.	4.3	50
29	Identification of memory reactivation during sleep by EEG classification. <i>NeuroImage</i> , 2018, 176, 203-214.	4.2	50
30	Measuring water exchange across the blood-brain barrier using MRI. <i>Progress in Nuclear Magnetic Resonance Spectroscopy</i> , 2020, 116, 19-39.	7.5	49
31	The Effect of Black Tea and Caffeine on Regional Cerebral Blood Flow Measured with Arterial Spin Labeling. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2013, 33, 963-968.	4.3	46
32	Quantification of glutathione in the human brain by ³ T MR spectroscopy at 3T: Comparison of PRESS and MEGA-PRESS. <i>Magnetic Resonance in Medicine</i> , 2017, 78, 1257-1266.	3.0	44
33	Reduced BOLD response to periodic visual stimulation. <i>NeuroImage</i> , 2004, 21, 236-243.	4.2	43
34	Systemic Inflammation Impairs Tissue Reperfusion Through Endothelin-Dependent Mechanisms in Cerebral Ischemia. <i>Stroke</i> , 2014, 45, 3412-3419.	2.0	42
35	Late-Onset Epilepsy and Occult Cerebrovascular Disease. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2014, 34, 564-570.	4.3	42
36	Cortical Resonance Frequencies Emerge from Network Size and Connectivity. <i>PLoS Computational Biology</i> , 2016, 12, e1004740.	3.2	39

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37	Increased gray matter volume of left pars opercularis in male orchestral musicians correlate positively with years of musical performance. <i>Journal of Magnetic Resonance Imaging</i> , 2011, 33, 24-32.	3.4	37
38	Plasticity of the Superior and Middle Cerebellar Peduncles in Musicians Revealed by Quantitative Analysis of Volume and Number of Streamlines Based on Diffusion Tensor Tractography. <i>Cerebellum</i> , 2011, 10, 611-623.	2.5	35
39	Dual-echo fMRI can detect activations in inferior temporal lobe during intelligible speech comprehension. <i>NeuroImage</i> , 2015, 122, 214-221.	4.2	33
40	Structural and physiological MRI correlates of occult cerebrovascular disease in late-onset epilepsy. <i>NeuroImage: Clinical</i> , 2015, 9, 128-133.	2.7	26
41	Quantitative fMRI using hyperoxia calibration: Reproducibility during a cognitive Stroop task. <i>NeuroImage</i> , 2009, 47, 573-580.	4.2	25
42	Premotor Cortex Is Sensitive to Auditory-Visual Congruence for Biological Motion. <i>Journal of Cognitive Neuroscience</i> , 2012, 24, 575-587.	2.3	24
43	Sources of systematic error in DCE-MRI estimation of low-level blood-brain barrier leakage. <i>Magnetic Resonance in Medicine</i> , 2021, 86, 1888-1903.	3.0	21
44	Re-wiring the brain: Increased functional connectivity within primary somatosensory cortex following synchronous co-activation. <i>NeuroImage</i> , 2014, 92, 19-26.	4.2	20
45	Alzheimer's disease pathology is associated with earlier alterations to blood-brain barrier water permeability compared with healthy ageing in TgF344-AD rats. <i>NMR in Biomedicine</i> , 2021, 34, e4510.	2.8	20
46	Recommended implementation of arterial spin-labeled perfusion MRI for clinical applications: A consensus of the ISMRM perfusion study group and the European consortium for ASL in dementia. <i>Magnetic Resonance in Medicine</i> , 2015, 73, spcone.	3.0	19
47	Mechanisms of Network Changes in Cognitive Impairment in Multiple Sclerosis. <i>Neurology</i> , 2021, 97, e1886-e1897.	1.1	18
48	Occult Cerebrovascular Disease and Late-Onset Epilepsy: Could Loss of Neurovascular Unit Integrity Be a Viable Model?. <i>Cardiovascular Psychiatry and Neurology</i> , 2011, 2011, 1-7.	0.8	17
49	Arterial spin labelling shows functional depression of non-lesion tissue in chronic Wernicke's aphasia. <i>Cortex</i> , 2017, 92, 249-260.	2.4	17
50	Evidence for frequency-dependent cortical plasticity in the human brain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 8871-8876.	7.1	17
51	Quantitative measurement of blood flow in paediatric brain tumours—a comparative study of dynamic susceptibility contrast and multi time-point arterial spin labelled MRI. <i>British Journal of Radiology</i> , 2016, 89, 20150624.	2.2	15
52	Assessing Inflammation in Acute Intracerebral Hemorrhage with PK11195 PET and Dynamic Contrast-Enhanced MRI. <i>Journal of Nuclear Medicine</i> , 2018, 28, 158-161.		15
53	Enzyme replacement therapy and white matter hyperintensity progression in Fabry disease. <i>Neurology</i> , 2018, 91, e1413-e1422.	1.1	13
54	A multimodal brain imaging study of repetition suppression in the human visual cortex. <i>NeuroImage</i> , 2010, 49, 1612-1621.	4.2	12

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55	Protocol for DexEnceph: a randomised controlled trial of dexamethasone therapy in adults with herpes simplex virus encephalitis. <i>BMJ Open</i> , 2021, 11, e041808.	1.9	12
56	<scp>Neuromelaninâ€MRI</scp> to Quantify and Track Nigral Depigmentation in Parkinson's Disease: A Multicenter Longitudinal Study Using Templateâ€Based Standardized Analysis. <i>Movement Disorders</i> , 2022, 37, 1028-1039.	3.9	12
57	Reproducibility of functional MRI localization within the human somatosensory cortex. <i>Journal of Magnetic Resonance Imaging</i> , 2011, 34, 1439-1444.	3.4	11
58	Effect of thyroxine on brain microstructure in extremely premature babies: magnetic resonance imaging findings in the TIPIT study. <i>Pediatric Radiology</i> , 2014, 44, 987-996.	2.0	11
59	Seizures in the context of occult cerebrovascular disease. <i>Epilepsy and Behavior</i> , 2020, 104, 106396.	1.7	11
60	Number of subjects required in common study designs for functional GABA magnetic resonance spectroscopy in the human brain at 3 Tesla. <i>European Journal of Neuroscience</i> , 2020, 51, 1784-1793.	2.6	9
61	GABA Modulates Frequency-Dependent Plasticity in Humans. <i>IScience</i> , 2020, 23, 101657.	4.1	7
62	A Feasibility Study of Quantifying Longitudinal Brain Changes in Herpes Simplex Virus (HSV) Encephalitis Using Magnetic Resonance Imaging (MRI) and Stereology. <i>PLoS ONE</i> , 2017, 12, e0170215.	2.5	5
63	Optimization of quantitative susceptibility mapping for regional estimation of oxygen extraction fraction in the brain. <i>Magnetic Resonance in Medicine</i> , 2021, 86, 1314-1329.	3.0	5
64	ASL: Blood Perfusion Measurements Using Arterial Spin Labelling. , 0, , 455-473.		4
65	TIPIT: A randomised controlled trial of thyroxine in preterm infants under 28 weeks gestation: Magnetic Resonance Imaging and Magnetic Resonance Angiography protocol. <i>BMC Pediatrics</i> , 2008, 8, 26.	1.7	4
66	Regional corpus callosum morphometry: Effect of field strength and pulse sequence. <i>Journal of Magnetic Resonance Imaging</i> , 2009, 30, 1184-1190.	3.4	3
67	Extracranial arterial wall volume is increased and shows relationships with vascular MRI measures in idiopathic Parkinsonâ€™s disease. <i>Clinical Neurology and Neurosurgery</i> , 2018, 167, 54-58.	1.4	3
68	Unique hues. , 2011, , 445-456.		3
69	Characterisation of microvessel blood velocity and segment length in the brain using multi-diffusion-time diffusion-weighted MRI. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2021, 41, 0271678X2097852.	4.3	3
70	Impact of Gas Delivery Systems on Imaging Studies of Human Cerebral Blood Flow. <i>Radiology Research and Practice</i> , 2013, 2013, 1-5.	1.3	1
71	Validation of a realistic simulation of the HRRT using SimSET. , 2017, , .		1
72	Quantitative kinetic modelling and mapping of cerebral glucose transport and metabolism using glucoCESL MRI. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2022, 42, 2066-2079.	4.3	1

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73	Evaluation of the Benefit of Partial Volume Correction for High Resolution PET Scanners. , 2019, , .		0
74	Multivoxel Pattern Analysis Using Information-Preserving EMD. Lecture Notes in Computer Science, 2012, , 19-26.	1.3	0
75	Neuroanatomical correlates of working memory performance in Neurofibromatosis 1. Cerebral Cortex Communications, 2022, 3, .	1.6	0