

Paul Gerald M Mullins

List of Publications by Year in descending order

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55
papers

4,415
citations

172457
29
h-index

189892
50
g-index

57
all docs

57
docs citations

57
times ranked

6083
citing authors

#	ARTICLE	IF	CITATIONS
1	The salience network is responsible for switching between the default mode network and the central executive network: Replication from DCM. <i>NeuroImage</i> , 2014, 99, 180-190.	4.2	562
2	Current practice in the use of MEGA-PRESS spectroscopy for the detection of GABA. <i>NeuroImage</i> , 2014, 86, 43-52.	4.2	448
3	Use of tissue water as a concentration reference for proton spectroscopic imaging. <i>Magnetic Resonance in Medicine</i> , 2006, 55, 1219-1226.	3.0	430
4	Effects of Ketamine on Anterior Cingulate Glutamate Metabolism in Healthy Humans: A 4-T Proton MRS Study. <i>American Journal of Psychiatry</i> , 2005, 162, 394-396.	7.2	287
5	Methodological consensus on clinical proton MRS of the brain: Review and recommendations. <i>Magnetic Resonance in Medicine</i> , 2019, 82, 527-550.	3.0	280
6	Closed-head minimal traumatic brain injury produces long-term cognitive deficits in mice. <i>Neuroscience</i> , 2003, 118, 949-955.	2.3	193
7	¹ H-MRS at 4 Tesla in minimally treated early schizophrenia. <i>Molecular Psychiatry</i> , 2010, 15, 629-636.	7.9	159
8	Minimum Reporting Standards for in vivo Magnetic Resonance Spectroscopy (MRSinMRS): Experts' consensus recommendations. <i>NMR in Biomedicine</i> , 2021, 34, e4484.	2.8	144
9	Habituation and sensitization to heat and cold pain in women with fibromyalgia and healthy controls. <i>Pain</i> , 2008, 140, 420-428.	4.2	119
10	Comparative reliability of proton spectroscopy techniques designed to improve detection of J-coupled metabolites. <i>Magnetic Resonance in Medicine</i> , 2008, 60, 964-969.	3.0	118
11	A novel technique to study the brain's response to pain: Proton magnetic resonance spectroscopy. <i>NeuroImage</i> , 2005, 26, 642-646.	4.2	115
12	Proton echo-planar spectroscopic imaging of J-coupled resonances in human brain at 3 and 4 Tesla. <i>Magnetic Resonance in Medicine</i> , 2007, 58, 236-244.	3.0	115
13	Glutamatergic correlates of gamma-band oscillatory activity during cognition: A concurrent ER-MRS and EEG study. <i>NeuroImage</i> , 2014, 85, 823-833.	4.2	105
14	Connectivity between the superior colliculus and the amygdala in humans and macaque monkeys: virtual dissection with probabilistic DTI tractography. <i>Journal of Neurophysiology</i> , 2015, 114, 1947-1962.	1.8	100
15	Glutamate as a Marker of Cognitive Function in Schizophrenia: A Proton Spectroscopic Imaging Study at 4 Tesla. <i>Biological Psychiatry</i> , 2011, 69, 19-27.	1.3	91
16	Anabolic exercise in haemodialysis patients: a randomised controlled pilot study. <i>Journal of Cachexia, Sarcopenia and Muscle</i> , 2014, 5, 199-207.	7.3	88
17	The Role of Resilience and Purpose in Life in Habituation to Heat and Cold Pain. <i>Journal of Pain</i> , 2009, 10, 493-500.	1.4	85
18	Event-related dynamics of glutamate and BOLD effects measured using functional magnetic resonance spectroscopy (fMRS) at 3 T in a repetition suppression paradigm. <i>NeuroImage</i> , 2015, 118, 292-300.	4.2	75

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19	Perturbation of the Glutamateâ€“Glutamine System in Alcohol Dependence and Remission. Neuropsychopharmacology, 2011, 36, 1359-1365.	5.4	71
20	The neural substrates for the different modalities of movement imagery. Brain and Cognition, 2015, 97, 22-31.	1.8	57
21	The Subjective Experience of Pain: An FMRI Study of Percept-Related Models and Functional Connectivity. Pain Medicine, 2015, 16, 2121-2133.	1.9	56
22	Towards a theory of functional magnetic resonance spectroscopy (<scp>fMRS</scp>): A metaâ€“analysis and discussion of using <scp>MRS</scp> to measure changes in neurotransmitters in real time. Scandinavian Journal of Psychology, 2018, 59, 91-103.	1.5	55
23	Normobaric hypoxia and symptoms of acute mountain sickness: Elevated brain volume and intracranial hypertension. Annals of Neurology, 2014, 75, 890-898.	5.3	50
24	Advances in MRI biomarkers for the diagnosis of Alzheimer's disease. Biomarkers in Medicine, 2014, 8, 1151-1169.	1.4	47
25	Neuroprotective and Nootropic Actions of a Novel Cyclized Dipeptide after Controlled Cortical Impact Injury in Mice. Journal of Cerebral Blood Flow and Metabolism, 2003, 23, 355-363.	4.3	43
26	Beyond static measures: A review of functional magnetic resonance spectroscopy and its potential to investigate dynamic glutamatergic abnormalities in schizophrenia. Journal of Psychopharmacology, 2018, 32, 497-508.	4.0	43
27	Reproducibility of ¹ H-MRS measurements in schizophrenic patients. Magnetic Resonance in Medicine, 2003, 50, 704-707.	3.0	42
28	Unexpected reductions in regional cerebral perfusion during prolonged hypoxia. Journal of Physiology, 2017, 595, 935-947.	2.9	42
29	Errors in ¹Hâ€“MRS estimates of brain metabolite concentrations caused by failing to take into account tissueâ€“specific signal relaxation. NMR in Biomedicine, 2018, 31, e3914.	2.8	39
30	The effect of sample freezing on proton magic-angle spinning NMR spectra of biological tissue. Magnetic Resonance in Medicine, 1998, 40, 166-169.	3.0	30
31	Elevated Cerebral Blood Flow and Volume in Systemic Lupus Measured by Dynamic Susceptibility Contrast Magnetic Resonance Imaging. Journal of Rheumatology, 2010, 37, 1834-1843.	2.0	29
32	Frequency drift in MR spectroscopy at 3T. NeuroImage, 2021, 241, 118430.	4.2	28
33	Quantitative spectroscopic imaging with in situ measurements of tissue water <i>T</i>₁, <i>T</i>₂, and density. Magnetic Resonance in Medicine, 2009, 62, 583-590.	3.0	27
34	The neural correlates of beauty comparison. Social Cognitive and Affective Neuroscience, 2014, 9, 681-688.	3.0	27
35	Optic Nerve Sheath Diameter Is Not Related to High Altitude Headache: A Randomized Controlled Trial. High Altitude Medicine and Biology, 2012, 13, 193-199.	0.9	25
36	Neuroprotective and Nootropic Actions of a Novel Cyclized Dipeptide After Controlled Cortical Impact Injury in Mice. Journal of Cerebral Blood Flow and Metabolism, 2003, , 355-363.	4.3	24

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37	Investigation of Whole-Brain White Matter Identifies Altered Water Mobility in the Pathogenesis of High-Altitude Headache. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2013, 33, 1286-1294.	4.3	20
38	Fornix White Matter is Correlated with Resting-State Functional Connectivity of the Thalamus and Hippocampus in Healthy Aging but Not in Mild Cognitive Impairment – A Preliminary Study. <i>Frontiers in Aging Neuroscience</i> , 2015, 7, 10.	3.4	18
39	Reversal of neurovascular coupling in the default mode network: Evidence from hypoxia. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2021, 41, 805-818.	4.3	18
40	Prolonged (9h) poikilocapnic hypoxia (12% O ₂) augments cutaneous thermal hyperaemia in healthy humans. <i>Experimental Physiology</i> , 2014, 99, 909-920.	2.0	17
41	Ischaemic preconditioning in the rat brain: a longitudinal magnetic resonance imaging (MRI) study. <i>NMR in Biomedicine</i> , 2001, 14, 204-209.	2.8	16
42	Aging-Related Microstructural Alterations Along the Length of the Cingulum Bundle. <i>Brain Connectivity</i> , 2017, 7, 366-372.	1.7	15
43	Regional Striatal Cholinergic Involvement in Human Behavioral Flexibility. <i>Journal of Neuroscience</i> , 2019, 39, 5740-5749.	3.6	15
44	Mitochondrial function in physically active elders with sarcopenia. <i>Mechanisms of Ageing and Development</i> , 2009, 130, 315-319.	4.6	12
45	Impulsive decision-making and gambling severity: The influence of γ -amino-butyric acid (GABA) and glutamate-glutamine (Glx). <i>European Neuropsychopharmacology</i> , 2020, 32, 36-46.	0.7	11
46	Localized ¹ H NMR spectroscopy of rat spinal cord <i>in Vivo</i> . <i>Magnetic Resonance in Medicine</i> , 1996, 35, 443-448.	3.0	10
47	Circadian circuits in humans: White matter microstructure predicts daytime sleepiness. <i>Cortex</i> , 2020, 122, 97-107.	2.4	6
48	Bilateral regional extracranial blood flow regulation to hypoxia and unilateral duplex ultrasound measurement error. <i>Experimental Physiology</i> , 2021, 106, 1535-1548.	2.0	4
49	Hypoxia alters posterior cingulate cortex metabolism during a memory task: A 1H fMRS study. <i>NeuroImage</i> , 2022, 260, 119397.	4.2	2
50	Neuroimaging referral for dementia diagnosis: The specialist's perspective in Ireland. <i>Alzheimer's and Dementia: Diagnosis, Assessment and Disease Monitoring</i> , 2015, 1, 41-47.	2.4	1
51	Arteriovenous fistula complication following MRI. <i>BMJ Case Reports</i> , 2012, 2012, bcr0320126103-bcr0320126103.	0.5	1
52	1H-MRS glutamate level predicts auditory sensory gating in alcohol dependence: Preliminary results. <i>Neuropsychiatric Electrophysiology</i> , 2015, 1, .	4.1	0
53	What do people with dementia and their carers want to know about neuroimaging for dementia?. <i>Dementia</i> , 2017, 16, 461-470.	2.0	0
54	Neurochemistry of response inhibition and interference in gambling disorder: a preliminary study of γ -aminobutyric acid (GABA+) and glutamate-glutamine (Glx). <i>CNS Spectrums</i> , 2021, , 1-11.	1.2	0

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55	Current Practice in the Referral of Individuals with Suspected Dementia for Neuroimaging by General Practitioners in Ireland and Wales. PLoS ONE, 2016, 11, e0151793.	2.5	0