Michael Jonathan Thrippleton

List of Publications by Year
in descending order

48	2,867	279487 23	205818 48
papers	citations	h-index	g-index

59	59	59	3804
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Elimination of Zero-Quantum Interference in Two-Dimensional NMR Spectra. Angewandte Chemie - International Edition, 2003, 42, 3938-3941.	7.2	382
2	Assessment of bloodâ€“brain barrier disruption using dynamic contrast-enhanced MRI. A systematic review. NeuroImage: Clinical, 2014, 6, 262-274.	1.4	285
3	Cerebral blood flow in small vessel disease: A systematic review and meta-analysis. Journal of Cerebral Blood Flow and Metabolism, 2016, 36, 1653-1667.	2.4	223
4	Bloodâ€brain barrier failure as a core mechanism in cerebral small vessel disease and dementia: evidence from a cohort study. Alzheimer's and Dementia, 2017, 13, 634-643.	0.4	190
5	Integrity of normal-appearing white matter: Influence of age, visible lesion burden and hypertension in patients with small-vessel disease. Journal of Cerebral Blood Flow and Metabolism, 2017, 37, 644-656.	2.4	147
6	Tracer kinetic modelling for DCE-MRI quantification of subtle bloodâ€“brain barrier permeability. NeuroImage, 2016, 125, 446-455.	2.1	138
7	Quantifying bloodâ€brain barrier leakage in small vessel disease: Review and consensus recommendations. Alzheimer's and Dementia, 2019, 15, 840-858.	0.4	134
8	White matter hyperintensity reduction and outcomes after minor stroke. Neurology, 2017, 89, 1003-1010.	1.5	120
9	Suppression of strong coupling artefacts in J-spectra. Journal of Magnetic Resonance, 2005, 174, 97-109.	1.2	99
10	Intracranial hemodynamic relationships in patients with cerebral small vessel disease. Neurology, 2020, 94, e2258-e2269.	1.5	86
11	A fast method for the measurement of diffusion coefficients: one-dimensional DOSY. Magnetic Resonance in Chemistry, 2003, 41, 441-447.	1.1	81
12	Small vessel disease is associated with altered cerebrovascular pulsatility but not resting cerebral blood flow. Journal of Cerebral Blood Flow and Metabolism, 2020, 40, 85-99.	2.4	77
13	Rationale, design and methodology of the image analysis protocol for studies of patients with cerebral small vessel disease and mild stroke. Brain and Behavior, 2015, 5, e00415.	1.0	65
14	Harmonizing brain magnetic resonance imaging methods for vascular contributions to neurodegeneration. Alzheimer's and Dementia: Diagnosis, Assessment and Disease Monitoring, 2019, 11, 191-204.	1.2	65
15	Single-scan longitudinal relaxation measurements in high-resolution NMR spectroscopy. Journal of Magnetic Resonance, 2003, 164, 321-328.	1.2	63
16	Advanced Neuroimaging of Cerebral Small Vessel Disease. Current Treatment Options in Cardiovascular Medicine, 2017, 19, 56.	0.4	55
17	Cerebrovascular reactivity measurement in cerebral small vessel disease: Rationale and reproducibility of a protocol for MRI acquisition and image processing. International Journal of Stroke, 2018, 13, 195-206.	2.9	47
18	A daily temperature rhythm in the human brain predicts survival after brain injury. Brain, 2022, 145, 2031-2048.	3.7	47

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19	Convolutional Neural Networks for Direct Inference of Pharmacokinetic Parameters: Application to Stroke Dynamic Contrast-Enhanced MRI. Frontiers in Neurology, 2018, 9, 1147.	1.1	43
20	Neonatal morphometric similarity mapping for predicting brain age and characterizing neuroanatomic variation associated with preterm birth. NeuroImage: Clinical, 2020, 25, 102195.	1.4	41
21	Tolerability, safety and intermediary pharmacological effects of cilostazol and isosorbide mononitrate, alone and combined, in patients with lacunar ischaemic stroke: The LACunar Intervention-1 (LACI-1) trial, a randomised clinical trial. EClinicalMedicine, 2019, 11, 34-43.	3.2	36
22	Impact of preterm birth on brain development and long-term outcome: protocol for a cohort study in Scotland. BMJ Open, 2020, 10, e035854.	0.8	34
23	Reliability of MRSI brain temperature mapping at 1.5 and 3 T. NMR in Biomedicine, 2014, 27, 183-190.	1.6	33
24	The prevalence of paramagnetic rim lesions in multiple sclerosis: A systematic review and meta-analysis. PLoS ONE, 2021, 16, e0256845.	1.1	27
25	Interleukin-8 dysregulation is implicated in brain dysmaturation following preterm birth. Brain, Behavior, and Immunity, 2020, 90, 311-318.	2.0	24
26	Preventing cognitive decline and dementia from cerebral small vessel disease: The LACI-1 Trial. Protocol and statistical analysis plan of a phase IIa dose escalation trial testing tolerability, safety and effect on intermediary endpoints of isosorbide mononitrate and cilostazol, separately and in combination. International Journal of Stroke, 2018, 13, 530-538.	2.9	22
27	Sources of systematic error in DCEâ€MRI estimation of lowâ€level bloodâ€brain barrier leakage. Magnetic Resonance in Medicine, 2021, 86, 1888-1903.	1.9	21
28	Relationship Between Venules and Perivascular Spaces in Sporadic Small Vessel Diseases. Stroke, 2020, 51, 1503-1506.	1.0	20
29	How does blood regulate cerebral temperatures during hypothermia?. Scientific Reports, 2018, 8, 7877.	1.6	19
30	Peak Width of Skeletonized Water Diffusion MRI in the Neonatal Brain. Frontiers in Neurology, 2020, 11, 235.	1.1	17
31	Rationale and design of a longitudinal study of cerebral small vessel diseases, clinical and imaging outcomes in patients presenting with mild ischaemic stroke: Mild Stroke Study 3. European Stroke Journal, 2021, 6, 81-88.	2.7	17
32	Direct Estimation of Pharmacokinetic Parameters from DCE-MRI Using Deep CNN with Forward Physical Model Loss. Lecture Notes in Computer Science, 2018, , 39-47.	1.0	16
33	A four-dimensional computational model of dynamic contrast-enhanced magnetic resonance imaging measurement of subtle blood-brain barrier leakage. NeuroImage, 2021, 230, 117786.	2.1	15
34	General factors of white matter microstructure from DTI and NODDI in the developing brain. NeuroImage, 2022, 254, 119169.	2.1	15
35	Quantitative magnetization transfer imaging in relapsing-remitting multiple sclerosis: a systematic review and meta-analysis. Brain Communications, 2022, 4, .	1.5	11
36	MRI Relaxometry for Quantitative Analysis of USPIO Uptake in Cerebral Small Vessel Disease. International Journal of Molecular Sciences, 2019, 20, 776.	1.8	10

#	Article	IF	Citations
37	Effects of Cilostazol and Isosorbide Mononitrate on Cerebral Hemodynamics in the LACI-1 Randomized Controlled Trial. Stroke, 2022, 53, 29-33.	1.0	10
38	A Comparison of CVR Magnitude and Delay Assessed at 1.5 and 3T in Patients With Cerebral Small Vessel Disease. Frontiers in Physiology, 2021, 12, 644837.	1.3	9
39	Zooming in on cerebral small vessel function in small vessel diseases with 7T MRI: Rationale and design of the â€œZOOM@SVDsâ€•study. Cerebral Circulation - Cognition and Behavior, 2021, 2, 100013.	0.4	8
40	Imaging neurovascular, endothelial and structural integrity in preparation to treat small vessel diseases. The INVESTIGATE-SVDs study protocol. Part of the SVDs@Target project. Cerebral Circulation - Cognition and Behavior, 2021, 2, 100020.	0.4	8
41	Tracer kinetic assessment of bloodâ€“brain barrier leakage and blood volume in cerebral small vessel disease: Associations with disease burden and vascular risk factors. NeuroImage: Clinical, 2021, 32, 102883.	1.4	7
42	Rationale and design of the brain magnetic resonance imaging protocol for FutureMS: a longitudinal multi-centre study of newly diagnosed patients with relapsing-remitting multiple sclerosis in Scotland. Wellcome Open Research, 0, 7, 94.	0.9	6
43	MRI measurement of bloodâ€“brain barrier leakage: minding the gaps. Journal of Physiology, 2019, 597, 667-668.	1.3	5
44	Relationship between inferior frontal sulcal hyperintensities on brain MRI, ageing and cerebral small vessel disease. Neurobiology of Aging, 2021, 106, 130-138.	1.5	5
45	Proton spectroscopic imaging of brain metabolites in basal ganglia of healthy older adults. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2015, 28, 251-257.	1.1	4
46	A Framework for Jointly Assessing and Reducing Imaging Artefacts Automatically Using Texture Analysis and Total Variation Optimisation for Improving Perivascular Spaces Quantification in Brain Magnetic Resonance Imaging. Communications in Computer and Information Science, 2020, , 171-183.	0.4	4
47	Selective Motion Artefact Reduction via Radiomics and k-space Reconstruction for Improving Perivascular Space Quantification in Brain Magnetic Resonance Imaging. Lecture Notes in Computer Science, 2021, , 151-164.	1.0	1
48	Variance components associated with long-echo-time MR spectroscopic imaging in human brain at 1.5T and 3T. PLoS ONE, 2017, 12, e0189872.	1.1	1