David Alexander Dickie

List of Publications by Year
in descending order

47 papers	1,924 citations	304368 22 h-index	276539 41 g-index
53 all docs	53 docs citations	53 times ranked	3793 citing authors

#	Article	IF	Citations
1	White matter hyperintensity and stroke lesion segmentation and differentiation using convolutional neural networks. NeuroImage: Clinical, 2018, 17, 918-934.	1.4	164
2	Whole Brain Magnetic Resonance Image Atlases: A Systematic Review of Existing Atlases and Caveats for Use in Population Imaging. Frontiers in Neuroinformatics, 2017, 11, 1.	1.3	120
3	Investigating the Relationship between Cerebral Blood Flow and Cognitive Function in Hemodialysis Patients. Journal of the American Society of Nephrology: JASN, 2019, 30, 147-158.	3.0	120
4	Vagus Nerve Stimulation Paired With Upper Limb Rehabilitation After Chronic Stroke. Stroke, 2018, 49, 2789-2792.	1.0	112
5	Mediterranean-type diet and brain structural change from 73 to 76 years in a Scottish cohort. Neurology, 2017, 88, 449-455.	1.5	109
6	Close Correlation between Quantitative and Qualitative Assessments of White Matter Lesions. Neuroepidemiology, 2013, 40, 13-22.	1.1	88
7	Processing speed and the relationship between Trail Making Test-B performance, cortical thinning and white matter microstructure in older adults. Cortex, 2017, 95, 92-103.	1.1	87
8	Impact of small vessel disease in the brain on gait and balance. Scientific Reports, 2017, 7, 41637.	1.6	86
9	Intracranial hemodynamic relationships in patients with cerebral small vessel disease. Neurology, 2020, 94, e2258-e2269.	1.5	86
10	Brain volumetric changes and cognitive ageing during the eighth decade of life. Human Brain Mapping, 2015, 36, 4910-4925.	1.9	79
11	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
12	Vascular risk factors and progression of white matter hyperintensities in the Lothian Birth Cohort 1936. Neurobiology of Aging, 2016, 42, 116-123.	1.5	72
13	Associations between education and brain structure at age 73 years, adjusted for age 11 IQ. Neurology, 2016, 87, 1820-1826.	1.5	46
14	A brain imaging repository of normal structural MRI across the life course: Brain Images of Normal Subjects (BRAINS). NeuroImage, 2017, 144, 299-304.	2.1	46
15	Brain cortical characteristics of lifetime cognitive ageing. Brain Structure and Function, 2018, 223, 509-518.	1.2	44
16	Cognitive abilities, brain white matter hyperintensity volume, and structural network connectivity in older age. Human Brain Mapping, 2018, 39, 622-632.	1.9	41
17	Risk and protective factors for structural brain ageing in the eighth decade of life. Brain Structure and Function, 2017, 222, 3477-3490.	1.2	40
18	Drivers' Understanding of Adaptive Cruise Control Limitations. Proceedings of the Human Factors and Ergonomics Society, 2009, 53, 1806-1810.	0.2	39

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19	Brain lesion segmentation through image synthesis and outlier detection. NeuroImage: Clinical, 2017, 16, 643-658.	1.4	38
20	Variance in Brain Volume with Advancing Age: Implications for Defining the Limits of Normality. PLoS ONE, 2013, 8, e84093.	1.1	36
21	Progression of White Matter Disease and Cortical Thinning Are Not Related in Older Community-Dwelling Subjects. Stroke, 2016, 47, 410-416.	1.0	35
22	Permutation and parametric tests for effect sizes in voxel-based morphometry of gray matter volume in brain structural MRI. Magnetic Resonance Imaging, 2015, 33, 1299-1305.	1.0	28
23	Xanthine oxidase inhibition for the improvement of long-term outcomes following ischaemic stroke and transient ischaemic attack (XILO-FIST) â€" Protocol for a randomised double blind placebo-controlled clinical trial. European Stroke Journal, 2018, 3, 281-290.	2.7	26
24	Widespread associations between trait conscientiousness and thickness of brain cortical regions. NeuroImage, 2018, 176, 22-28.	2.1	22
25	Use of Brain MRI Atlases to Determine Boundaries of Age-Related Pathology: The Importance of Statistical Method. PLoS ONE, 2015, 10, e0127939.	1.1	20
26	Interaction of APOE e4 and poor glycemic control predicts white matter hyperintensity growth from 73 to 76. Neurobiology of Aging, 2017, 54, 54-58.	1.5	20
27	Pseudo-healthy Image Synthesis for White Matter Lesion Segmentation. Lecture Notes in Computer Science, 2016, , 87-96.	1.0	19
28	Metric to quantify white matter damage on brain magnetic resonance images. Neuroradiology, 2017, 59, 951-962.	1.1	19
29	A large margin algorithm for automated segmentation of white matter hyperintensity. Pattern Recognition, 2018, 77, 150-159.	5.1	19
30	Cortical thickness, white matter hyperintensities, and cognition after stroke. International Journal of Stroke, 2020, 15, 46-54.	2.9	19
31	Predictors of gait speed and its change over three years in community-dwelling older people. Aging, 2018, 10, 144-153.	1.4	19
32	The brain health index: Towards a combined measure of neurovascular and neurodegenerative structural brain injury. International Journal of Stroke, 2018, 13, 849-856.	2.9	18
33	Differentiation of calcified regions and iron deposits in the ageing brain on conventional structural MR images. Journal of Magnetic Resonance Imaging, 2014, 40, 324-333.	1.9	17
34	Study protocol for a pivotal randomised study assessing vagus nerve stimulation during rehabilitation for improved upper limb motor function after stroke. European Stroke Journal, 2019, 4, 363-377.	2.7	14
35	Improving data availability for brain image biobanking in healthy subjects: Practice-based suggestions from an international multidisciplinary working group. NeuroImage, 2017, 153, 399-409.	2.1	13
36	Longitudinal serum S100Î² and brain aging in the Lothian Birth Cohort 1936. Neurobiology of Aging, 2018, 69, 274-282.	1.5	13

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37	Do brain image databanks support understanding of normal ageing brain structure? A systematic review. European Radiology, 2012, 22, 1385-1394.	2.3	11
38	Brain structural differences between 73- and 92-year olds matched for childhood intelligence, social background, and intracranial volume. Neurobiology of Aging, 2018, 62, 146-158.	1.5	11
39	An Exploratory Study of Predictors of Response to Vagus Nerve Stimulation Paired with Upper-Limb Rehabilitation After Ischemic Stroke. Scientific Reports, 2019, 9, 15902.	1.6	11
40	Characterisation of tissue-type metabolic content in secondary progressive multiple sclerosis: a magnetic resonance spectroscopic imaging study. Journal of Neurology, 2018, 265, 1795-1802.	1.8	7
41	Combining Neurovascular and Neurodegenerative Magnetic Resonance Imaging Measures in Stroke. Stroke, 2019, 50, 1136-1139.	1.0	6
42	Blood pressure variability and leukoaraiosis in acute ischemic stroke. International Journal of Stroke, 2018, 13, 473-480.	2.9	5
43	Brain imaging factors associated with progression of subcortical hyperintensities in CADASIL over 2â€year followâ€up. European Journal of Neurology, 2021, 28, 220-228.	1.7	5
44	Contribution of white matter hyperintensities to ventricular enlargement in older adults. NeuroImage: Clinical, 2022, 34, 103019.	1.4	4
45	Stroke aetiological classification reliability and effect on trial sample size: systematic review, meta-analysis and statistical modelling. Trials, 2019, 20, 107.	0.7	3
46	The Whole Picture: From Isolated to Global MRI Measures of Neurovascular and Neurodegenerative Disease. Advances in Experimental Medicine and Biology, 2019, 1205, 25-53.	0.8	1
47	Developing an Integrated Image Bank and Metadata for Large-scale Research in Cerebrovascular Disease: Our Experience from the Stroke Image Bank Project. Frontiers in ICT, 2016, 3, .	3.6	0