

Mark E Bastin

List of Publications by Year in descending order

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Version: 2024-02-01

246
papers

17,283
citations

16411

64
h-index

22102

113
g-index

293
all docs

293
docs citations

293
times ranked

20510
citing authors

#	ARTICLE	IF	CITATIONS
1	Common genetic variants influence human subcortical brain structures. <i>Nature</i> , 2015, 520, 224-229.	13.7	772
2	The ENIGMA Consortium: large-scale collaborative analyses of neuroimaging and genetic data. <i>Brain Imaging and Behavior</i> , 2014, 8, 153-182.	1.1	696
3	Identification of common variants associated with human hippocampal and intracranial volumes. <i>Nature Genetics</i> , 2012, 44, 552-561.	9.4	594
4	Sex Differences in the Adult Human Brain: Evidence from 5216 UK Biobank Participants. <i>Cerebral Cortex</i> , 2018, 28, 2959-2975.	1.6	594
5	Brain age predicts mortality. <i>Molecular Psychiatry</i> , 2018, 23, 1385-1392.	4.1	513
6	The genetic architecture of the human cerebral cortex. <i>Science</i> , 2020, 367, .	6.0	450
7	Ageing and brain white matter structure in 3,513 UK Biobank participants. <i>Nature Communications</i> , 2016, 7, 13629.	5.8	373
8	Multi-site genetic analysis of diffusion images and voxelwise heritability analysis: A pilot project of the ENIGMAâ€“DTI working group. <i>NeuroImage</i> , 2013, 81, 455-469.	2.1	354
9	Mapping cortical brain asymmetry in 17,141 healthy individuals worldwide via the ENIGMA Consortium. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E5154-E5163.	3.3	299
10	A General Factor of Brain White Matter Integrity Predicts Information Processing Speed in Healthy Older People. <i>Journal of Neuroscience</i> , 2010, 30, 7569-7574.	1.7	297
11	Brain white matter tract integrity as a neural foundation for general intelligence. <i>Molecular Psychiatry</i> , 2012, 17, 1026-1030.	4.1	282
12	White matter abnormalities in bipolar disorder and schizophrenia detected using diffusion tensor magnetic resonance imaging. <i>Bipolar Disorders</i> , 2009, 11, 11-18.	1.1	254
13	Novel genetic loci associated with hippocampal volume. <i>Nature Communications</i> , 2017, 8, 13624.	5.8	250
14	White Matter Tractography in Bipolar Disorder and Schizophrenia. <i>Biological Psychiatry</i> , 2008, 64, 1088-1092.	0.7	237
15	Heritability of fractional anisotropy in human white matter: A comparison of Human Connectome Project and ENIGMA-DTI data. <i>NeuroImage</i> , 2015, 111, 300-311.	2.1	227
16	Visualization of image data from cells to organisms. <i>Nature Methods</i> , 2010, 7, S26-S41.	9.0	226
17	White matter hyperintensities and normal-appearing white matter integrity in the aging brain. <i>Neurobiology of Aging</i> , 2015, 36, 909-918.	1.5	224
18	Novel genetic loci underlying human intracranial volume identified through genome-wide association. <i>Nature Neuroscience</i> , 2016, 19, 1569-1582.	7.1	213

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19	Associations between vascular risk factors and brain MRI indices in UK Biobank. <i>European Heart Journal</i> , 2019, 40, 2290-2300.	1.0	204
20	Total MRI load of cerebral small vessel disease and cognitive ability in older people. <i>Neurobiology of Aging</i> , 2015, 36, 2806-2811.	1.5	199
21	Genetic architecture of subcortical brain structures in 38,851 individuals. <i>Nature Genetics</i> , 2019, 51, 1624-1636.	9.4	192
22	Diffusion tensor MR imaging of high-grade cerebral gliomas. <i>American Journal of Neuroradiology</i> , 2002, 23, 520-7.	1.2	192
23	The effects of a neuregulin 1 variant on white matter density and integrity. <i>Molecular Psychiatry</i> , 2008, 13, 1054-1059.	4.1	190
24	Brain Aging, Cognition in Youth and Old Age and Vascular Disease in the Lothian Birth Cohort 1936: Rationale, Design and Methodology of the Imaging Protocol. <i>International Journal of Stroke</i> , 2011, 6, 547-559.	2.9	188
25	Vascular risk factors, large-artery atheroma, and brain white matter hyperintensities. <i>Neurology</i> , 2014, 82, 1331-1338.	1.5	181
26	A theoretical study of the effect of experimental noise on the measurement of anisotropy in diffusion imaging. <i>Magnetic Resonance Imaging</i> , 1998, 16, 773-785.	1.0	178
27	Neuroprotective lifestyles and the aging brain. <i>Neurology</i> , 2012, 79, 1802-1808.	1.5	168
28	Human subcortical brain asymmetries in 15,847 people worldwide reveal effects of age and sex. <i>Brain Imaging and Behavior</i> , 2017, 11, 1497-1514.	1.1	144
29	Test-retest reliability of structural brain networks from diffusion MRI. <i>NeuroImage</i> , 2014, 86, 231-243.	2.1	132
30	Diffusion tensor imaging (DTI) and proton magnetic resonance spectroscopy (1H MRS) in schizophrenic subjects and normal controls. <i>Psychiatry Research - Neuroimaging</i> , 2001, 106, 161-170.	0.9	128
31	Multi-site study of additive genetic effects on fractional anisotropy of cerebral white matter: Comparing meta and mega-analytical approaches for data pooling. <i>NeuroImage</i> , 2014, 95, 136-150.	2.1	127
32	White Matter Integrity in Individuals at High Genetic Risk of Bipolar Disorder. <i>Biological Psychiatry</i> , 2011, 70, 350-356.	0.7	125
33	Blood Pressure, Internal Carotid Artery Flow Parameters, and Age-Related White Matter Hyperintensities. <i>Hypertension</i> , 2014, 63, 1011-1018.	1.3	114
34	Circulating Inflammatory Markers Are Associated With Magnetic Resonance Imaging-Visible Perivascular Spaces But Not Directly With White Matter Hyperintensities. <i>Stroke</i> , 2014, 45, 605-607.	1.0	113
35	Polygenic Risk and White Matter Integrity in Individuals at High Risk of Mood Disorder. <i>Biological Psychiatry</i> , 2013, 74, 280-286.	0.7	110
36	Mediterranean-type diet and brain structural change from 73 to 76 years in a Scottish cohort. <i>Neurology</i> , 2017, 88, 449-455.	1.5	109

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37	MRI correlates of episodic memory in Alzheimer's disease, mild cognitive impairment, and healthy aging. <i>Psychiatry Research - Neuroimaging</i> , 2010, 184, 57-62.	0.9	106
38	Brain iron deposits are associated with general cognitive ability and cognitive aging. <i>Neurobiology of Aging</i> , 2012, 33, 510-517.e2.	1.5	104
39	Childhood cognitive ability accounts for associations between cognitive ability and brain cortical thickness in old age. <i>Molecular Psychiatry</i> , 2014, 19, 555-559.	4.1	104
40	Beyond a bigger brain: Multivariable structural brain imaging and intelligence. <i>Intelligence</i> , 2015, 51, 47-56.	1.6	101
41	Single subject fMRI test-retest reliability metrics and confounding factors. <i>NeuroImage</i> , 2013, 69, 231-243.	2.1	99
42	Correction of eddy current-induced artefacts in diffusion tensor imaging using iterative cross-correlation. <i>Magnetic Resonance Imaging</i> , 1999, 17, 1011-1024.	1.0	98
43	Coupled Changes in Brain White Matter Microstructure and Fluid Intelligence in Later Life. <i>Journal of Neuroscience</i> , 2015, 35, 8672-8682.	1.7	97
44	A diffusion tensor MRI study of white matter integrity in subjects at high genetic risk of schizophrenia. <i>Schizophrenia Research</i> , 2008, 106, 132-139.	1.1	96
45	Studying synapses in human brain with array tomography and electron microscopy. <i>Nature Protocols</i> , 2013, 8, 1366-1380.	5.5	95
46	Prenatal methadone exposure is associated with altered neonatal brain development. <i>NeuroImage: Clinical</i> , 2018, 18, 9-14.	1.4	93
47	Association between preterm brain injury and exposure to chorioamnionitis during fetal life. <i>Scientific Reports</i> , 2016, 6, 37932.	1.6	91
48	Subcortical volume and white matter integrity abnormalities in major depressive disorder: findings from UK Biobank imaging data. <i>Scientific Reports</i> , 2017, 7, 5547.	1.6	91
49	Early breast milk exposure modifies brain connectivity in preterm infants. <i>NeuroImage</i> , 2019, 184, 431-439.	2.1	90
50	Measurement of brain temperature with magnetic resonance spectroscopy in acute ischemic stroke. <i>Annals of Neurology</i> , 2006, 60, 438-446.	2.8	89
51	Cliovascular Disruption and Cognitive Deficits in a Mouse Model with Features of Small Vessel Disease. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2015, 35, 1005-1014.	2.4	89
52	Close Correlation between Quantitative and Qualitative Assessments of White Matter Lesions. <i>Neuroepidemiology</i> , 2013, 40, 13-22.	1.1	88
53	The effect of network thresholding and weighting on structural brain networks in the UK Biobank. <i>NeuroImage</i> , 2020, 211, 116443.	2.1	88
54	Processing speed and the relationship between Trail Making Test-B performance, cortical thinning and white matter microstructure in older adults. <i>Cortex</i> , 2017, 95, 92-103.	1.1	87

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55	Impact of small vessel disease in the brain on gait and balance. <i>Scientific Reports</i> , 2017, 7, 41637.	1.6	86
56	Measurements of water diffusion and T1 values in peritumoural oedematous brain. <i>NeuroReport</i> , 2002, 13, 1335-1340.	0.6	84
57	A Probabilistic Model-Based Approach to Consistent White Matter Tract Segmentation. <i>IEEE Transactions on Medical Imaging</i> , 2007, 26, 1555-1561.	5.4	83
58	Brain white matter damage in aging and cognitive ability in youth and older age. <i>Neurobiology of Aging</i> , 2013, 34, 2740-2747.	1.5	83
59	Brain volumetric changes and cognitive ageing during the eighth decade of life. <i>Human Brain Mapping</i> , 2015, 36, 4910-4925.	1.9	79
60	White matter microstructural abnormalities in euthymic bipolar disorder. <i>British Journal of Psychiatry</i> , 2010, 196, 52-58.	1.7	77
61	An epigenetic predictor of death captures multi-modal measures of brain health. <i>Molecular Psychiatry</i> , 2021, 26, 3806-3816.	4.1	77
62	Diffusion tensor and magnetization transfer MRI measurements of periventricular white matter hyperintensities in old age. <i>Neurobiology of Aging</i> , 2009, 30, 125-136.	1.5	76
63	A systematic review of the utility of 1.5 versus 3 Tesla magnetic resonance brain imaging in clinical practice and research. <i>European Radiology</i> , 2012, 22, 2295-2303.	2.3	75
64	Brain white matter structure and information processing speed in healthy older age. <i>Brain Structure and Function</i> , 2016, 221, 3223-3235.	1.2	75
65	Genetic variants associated with longitudinal changes in brain structure across the lifespan. <i>Nature Neuroscience</i> , 2022, 25, 421-432.	7.1	75
66	Estimated maximal and current brain volume predict cognitive ability in old age. <i>Neurobiology of Aging</i> , 2013, 34, 2726-2733.	1.5	73
67	Vascular risk factors and progression of white matter hyperintensities in the Lothian Birth Cohort 1936. <i>Neurobiology of Aging</i> , 2016, 42, 116-123.	1.5	72
68	TractoR : Magnetic Resonance Imaging and Tractography with <i>TractoR</i> . <i>Journal of Statistical Software</i> , 2011, 44, .	1.8	72
69	Brain atrophy associations with white matter lesions in the ageing brain: the Lothian Birth Cohort 1936. <i>European Radiology</i> , 2013, 23, 1084-1092.	2.3	71
70	Common Genetic Variation Indicates Separate Causes for Periventricular and Deep White Matter Hyperintensities. <i>Stroke</i> , 2020, 51, 2111-2121.	1.0	71
71	Measurement of regional brain temperature using proton spectroscopic imaging: validation and application to acute ischemic stroke. <i>Magnetic Resonance Imaging</i> , 2006, 24, 699-706.	1.0	70
72	Association of allostatic load with brain structure and cognitive ability in later life. <i>Neurobiology of Aging</i> , 2015, 36, 1390-1399.	1.5	67

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73	Higher Systolic Blood Pressure Is Associated With Increased Water Diffusivity in Normal-Appearing White Matter. <i>Stroke</i> , 2009, 40, 3869-3871.	1.0	66
74	The clinico-radiological paradox of cognitive function and MRI burden of white matter lesions in people with multiple sclerosis: A systematic review and meta-analysis. <i>PLoS ONE</i> , 2017, 12, e0177727.	1.1	65
75	Executive deficits, not processing speed relates to abnormalities in distinct prefrontal tracts in amyotrophic lateral sclerosis. <i>Brain</i> , 2013, 136, 3290-3304.	3.7	63
76	Memory binding and white matter integrity in familial Alzheimer's disease. <i>Brain</i> , 2015, 138, 1355-1369.	3.7	62
77	Quantitative assessment of intracranial tumor response to dexamethasone using diffusion, perfusion and permeability magnetic resonance imaging. <i>Magnetic Resonance Imaging</i> , 2007, 25, 303-310.	1.0	61
78	Genetic correlations and genome-wide associations of cortical structure in general population samples of 22,824 adults. <i>Nature Communications</i> , 2020, 11, 4796.	5.8	61
79	Early brain temperature elevation and anaerobic metabolism in human acute ischaemic stroke. <i>Brain</i> , 2008, 132, 955-964.	3.7	59
80	A Comparison of Location of Acute Symptomatic vs. "Silent" Small Vessel Lesions. <i>International Journal of Stroke</i> , 2015, 10, 1044-1050.	2.9	59
81	Alzheimer's disease susceptibility genes APOE and TOMM40, and brain white matter integrity in the Lothian Birth Cohort 1936. <i>Neurobiology of Aging</i> , 2014, 35, 1513.e25-1513.e33.	1.5	58
82	Quantifying the effects of normal ageing on white matter structure using unsupervised tract shape modelling. <i>NeuroImage</i> , 2010, 51, 1-10.	2.1	57
83	White matter integrity as an intermediate phenotype: Exploratory genome-wide association analysis in individuals at high risk of bipolar disorder. <i>Psychiatry Research</i> , 2013, 206, 223-231.	1.7	54
84	Can Musical Training Influence Brain Connectivity? Evidence from Diffusion Tensor MRI. <i>Brain Sciences</i> , 2014, 4, 405-427.	1.1	53
85	MRI is a sensitive marker of subtle white matter pathology in hypoperfused mice. <i>Neurobiology of Aging</i> , 2011, 32, 2325.e1-2325.e6.	1.5	51
86	Computational quantification of brain perivascular space morphologies: Associations with vascular risk factors and white matter hyperintensities. A study in the Lothian Birth Cohort 1936. <i>NeuroImage: Clinical</i> , 2020, 25, 102120.	1.4	51
87	Cerebral Small Vessel Disease Burden Is Increased in Systemic Lupus Erythematosus. <i>Stroke</i> , 2016, 47, 2722-2728.	1.0	50
88	On the use of water phantom images to calibrate and correct eddy current induced artefacts in MR diffusion tensor imaging. <i>Magnetic Resonance Imaging</i> , 2000, 18, 681-687.	1.0	49
89	Incidental Findings on Brain MR Imaging in Older Community-Dwelling Subjects Are Common but Serious Medical Consequences Are Rare: A Cohort Study. <i>PLoS ONE</i> , 2013, 8, e71467.	1.1	49
90	Retinal microvasculature and cerebral small vessel disease in the Lothian Birth Cohort 1936 and Mild Stroke Study. <i>Scientific Reports</i> , 2019, 9, 6320.	1.6	49

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91	Visualization and analysis of white matter structural asymmetry in diffusion tensor MRI data. <i>Magnetic Resonance in Medicine</i> , 2004, 51, 140-147.	1.9	48
92	DNA methylation and brain structure and function across the life course: A systematic review. <i>Neuroscience and Biobehavioral Reviews</i> , 2020, 113, 133-156.	2.9	47
93	Associations between education and brain structure at age 73 years, adjusted for age 11 IQ. <i>Neurology</i> , 2016, 87, 1820-1826.	1.5	46
94	A brain imaging repository of normal structural MRI across the life course: Brain Images of Normal Subjects (BRAINS). <i>NeuroImage</i> , 2017, 144, 299-304.	2.1	46
95	Resting-State Connectivity and Its Association With Cognitive Performance, Educational Attainment, and Household Income in the UK Biobank. <i>Biological Psychiatry: Cognitive Neuroscience and Neuroimaging</i> , 2018, 3, 878-886.	1.1	46
96	Childhood and current cognitive function in healthy 80-year-olds: a DT-MRI study. <i>NeuroReport</i> , 2003, 14, 345-349.	0.6	44
97	The relationship of anterior thalamic radiation integrity to psychosis risk associated neuregulin-1 variants. <i>Molecular Psychiatry</i> , 2009, 14, 237-238.	4.1	44
98	Brain cortical characteristics of lifetime cognitive ageing. <i>Brain Structure and Function</i> , 2018, 223, 509-518.	1.2	44
99	DNA Methylation and Protein Markers of Chronic Inflammation and Their Associations With Brain and Cognitive Aging. <i>Neurology</i> , 2021, 97, e2340-e2352.	1.5	44
100	On the application of a non-CPMG single-shot fast spin-echo sequence to diffusion tensor MRI of the human brain. <i>Magnetic Resonance in Medicine</i> , 2002, 48, 6-14.	1.9	42
101	Adaptive thresholding for reliable topological inference in single subject fMRI analysis. <i>Frontiers in Human Neuroscience</i> , 2012, 6, 245.	1.0	42
102	A latent measure explains substantial variance in white matter microstructure across the newborn human brain. <i>Brain Structure and Function</i> , 2017, 222, 4023-4033.	1.2	42
103	Identification of the presence of ischaemic stroke lesions by means of texture analysis on brain magnetic resonance images. <i>Computerized Medical Imaging and Graphics</i> , 2019, 74, 12-24.	3.5	42
104	Neurology-related protein biomarkers are associated with cognitive ability and brain volume in older age. <i>Nature Communications</i> , 2020, 11, 800.	5.8	42
105	Choline and Creatine Are Not Reliable Denominators for Calculating Metabolite Ratios in Acute Ischemic Stroke. <i>Stroke</i> , 2008, 39, 2467-2469.	1.0	41
106	Cognitive abilities, brain white matter hyperintensity volume, and structural network connectivity in older age. <i>Human Brain Mapping</i> , 2018, 39, 622-632.	1.9	41
107	Neonatal morphometric similarity mapping for predicting brain age and characterizing neuroanatomic variation associated with preterm birth. <i>NeuroImage: Clinical</i> , 2020, 25, 102195.	1.4	41
108	Risk and protective factors for structural brain ageing in the eighth decade of life. <i>Brain Structure and Function</i> , 2017, 222, 3477-3490.	1.2	40

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109	Association of common genetic variants with brain microbleeds. <i>Neurology</i> , 2020, 95, e3331-e3343.	1.5	40
110	Kernel regression estimation of fiber orientation mixtures in diffusion MRI. <i>NeuroImage</i> , 2016, 127, 158-172.	2.1	39
111	Reproducibility of tract segmentation between sessions using an unsupervised modelling-based approach. <i>NeuroImage</i> , 2009, 45, 377-385.	2.1	38
112	Personality, health, and brain integrity: The Lothian Birth Cohort Study 1936.. <i>Health Psychology</i> , 2014, 33, 1477-1486.	1.3	38
113	Persistent Infarct Hyperintensity on Diffusion-Weighted Imaging Late After Stroke Indicates Heterogeneous, Delayed, Infarct Evolution. <i>Stroke</i> , 2006, 37, 1418-1423.	1.0	37
114	Genetic variants in the ErbB4 gene are associated with white matter integrity. <i>Psychiatry Research - Neuroimaging</i> , 2011, 191, 133-137.	0.9	37
115	A genome-wide search for genetic influences and biological pathways related to the brain's white matter integrity. <i>Neurobiology of Aging</i> , 2012, 33, 1847.e1-1847.e14.	1.5	37
116	A test-retest fMRI dataset for motor, language and spatial attention functions. <i>GigaScience</i> , 2013, 2, 6.	3.3	37
117	Diffusion tensor MRI tractography reveals increased fractional anisotropy (FA) in arcuate fasciculus following music-cued motor training. <i>Brain and Cognition</i> , 2017, 116, 40-46.	0.8	37
118	The use of diffusion tensor imaging in quantifying the effect of dexamethasone on brain tumours. <i>NeuroReport</i> , 1999, 10, 1385-1391.	0.6	36
119	Acute Ischemic Stroke Lesion Measurement on Diffusion-weighted Imaging—Important Considerations in Designing Acute Stroke Trials With Magnetic Resonance Imaging. <i>Journal of Stroke and Cerebrovascular Diseases</i> , 2007, 16, 64-70.	0.7	36
120	Associations Between Diffusion and Perfusion Parameters, <i>N</i> -Acetyl Aspartate, and Lactate in Acute Ischemic Stroke. <i>Stroke</i> , 2009, 40, 767-772.	1.0	35
121	White Matter Integrity in the Splenium of the Corpus Callosum is Related to Successful Cognitive Aging and Partly Mediates the Protective Effect of an Ancestral Polymorphism in ADRB2. <i>Behavior Genetics</i> , 2010, 40, 146-156.	1.4	35
122	Progression of White Matter Disease and Cortical Thinning Are Not Related in Older Community-Dwelling Subjects. <i>Stroke</i> , 2016, 47, 410-416.	1.0	35
123	Brain white matter tract integrity and cognitive abilities in community-dwelling older people: The Lothian Birth Cohort, 1936.. <i>Neuropsychology</i> , 2013, 27, 595-607.	1.0	34
124	Parcellation of the Healthy Neonatal Brain into 107 Regions Using Atlas Propagation through Intermediate Time Points in Childhood. <i>Frontiers in Neuroscience</i> , 2016, 10, 220.	1.4	34
125	Polygenic risk score for schizophrenia and structural brain connectivity in older age: A longitudinal connectome and tractography study. <i>NeuroImage</i> , 2018, 183, 884-896.	2.1	34
126	Epigenetic signatures of smoking associate with cognitive function, brain structure, and mental and physical health outcomes in the Lothian Birth Cohort 1936. <i>Translational Psychiatry</i> , 2019, 9, 248.	2.4	34

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127	Epigenome-wide meta-analysis of blood DNA methylation and its association with subcortical volumes: findings from the ENIGMA Epigenetics Working Group. <i>Molecular Psychiatry</i> , 2021, 26, 3884-3895.	4.1	34
128	Impact of preterm birth on brain development and long-term outcome: protocol for a cohort study in Scotland. <i>BMJ Open</i> , 2020, 10, e035854.	0.8	34
129	Genes From a Translational Analysis Support a Multifactorial Nature of White Matter Hyperintensities. <i>Stroke</i> , 2015, 46, 341-347.	1.0	33
130	Brain Peak Width of Skeletonized Mean Diffusivity (PSMD) and Cognitive Function in Later Life. <i>Frontiers in Psychiatry</i> , 2019, 10, 524.	1.3	33
131	On the use of the FLAIR technique to improve the correction of eddy current induced artefacts in MR diffusion tensor imaging. <i>Magnetic Resonance Imaging</i> , 2001, 19, 937-950.	1.0	32
132	MR diffusion and perfusion parameters: relationship to metabolites in acute ischaemic stroke. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2010, 81, 185-191.	0.9	32
133	White matter integrity and its association with affective and interpersonal symptoms in borderline personality disorder. <i>NeuroImage: Clinical</i> , 2015, 7, 476-481.	1.4	32
134	DSC perfusion MRI Quantification and reduction of systematic errors arising in areas of reduced cerebral blood flow. <i>Magnetic Resonance in Medicine</i> , 2006, 55, 1342-1349.	1.9	31
135	Genome-wide association study of 23,500 individuals identifies 7 loci associated with brain ventricular volume. <i>Nature Communications</i> , 2018, 9, 3945.	5.8	31
136	Spatial Gradient of Microstructural Changes in Normal-Appearing White Matter in Tracts Affected by White Matter Hyperintensities in Older Age. <i>Frontiers in Neurology</i> , 2019, 10, 784.	1.1	30
137	Title is missing!. <i>Molecular and Cellular Biochemistry</i> , 1998, 184, 249-289.	1.4	29
138	Alzheimer's Disease Susceptibility Genes APOE and TOMM40, and Hippocampal Volumes in the Lothian Birth Cohort 1936. <i>PLoS ONE</i> , 2013, 8, e80513.	1.1	29
139	Reduced structural connectivity within a prefrontal-motor-subcortical network in amyotrophic lateral sclerosis. <i>Journal of Magnetic Resonance Imaging</i> , 2015, 41, 1342-1352.	1.9	29
140	Seropositivity for CMV and IL-6 levels are associated with grip strength and muscle size in the elderly. <i>Immunity and Ageing</i> , 2013, 10, 33.	1.8	28
141	Brain white matter integrity and cortisol in older men: the Lothian Birth Cohort 1936. <i>Neurobiology of Aging</i> , 2015, 36, 257-264.	1.5	28
142	Permutation and parametric tests for effect sizes in voxel-based morphometry of gray matter volume in brain structural MRI. <i>Magnetic Resonance Imaging</i> , 2015, 33, 1299-1305.	1.0	28
143	Application of the Ordered Logit Model to Optimising Frangi Filter Parameters for Segmentation of Perivascular Spaces. <i>Procedia Computer Science</i> , 2016, 90, 61-67.	1.2	28
144	Maternal cortisol is associated with neonatal amygdala microstructure and connectivity in a sexually dimorphic manner. <i>ELife</i> , 2020, 9, .	2.8	28

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145	An investigation of a genomewide supported psychosis variant in ZNF804A and white matter integrity in the human brain. <i>Magnetic Resonance Imaging</i> , 2012, 30, 1373-1380.	1.0	27
146	Morphologic, Distributional, Volumetric, and Intensity Characterization of Periventricular Hyperintensities. <i>American Journal of Neuroradiology</i> , 2014, 35, 55-62.	1.2	27
147	Sleep and brain morphological changes in the eighth decade of life. <i>Sleep Medicine</i> , 2020, 65, 152-158.	0.8	27
148	Does white matter structure or hippocampal volume mediate associations between cortisol and cognitive ageing?. <i>Psychoneuroendocrinology</i> , 2015, 62, 129-137.	1.3	26
149	Central and non-central networks, cognition, clinical symptoms, and polygenic risk scores in schizophrenia. <i>Human Brain Mapping</i> , 2017, 38, 5919-5930.	1.9	26
150	Age-Related Changes of Peak Width Skeletonized Mean Diffusivity (PSMD) Across the Adult Lifespan: A Multi-Cohort Study. <i>Frontiers in Psychiatry</i> , 2020, 11, 342.	1.3	26
151	Post-mortem brain analyses of the Lothian Birth Cohort 1936: extending lifetime cognitive and brain phenotyping to the level of the synapse. <i>Acta Neuropathologica Communications</i> , 2015, 3, 53.	2.4	25
152	Brain-wide white matter tract integrity is associated with information processing speed and general intelligence. <i>Molecular Psychiatry</i> , 2012, 17, 955-955.	4.1	24
153	Automatic segmentation of brain white matter and white matter lesions in normal aging: comparison of five multispectral techniques. <i>Magnetic Resonance Imaging</i> , 2012, 30, 222-229.	1.0	24
154	Brain iron deposits and lifespan cognitive ability. <i>Age</i> , 2015, 37, 100.	3.0	24
155	Longitudinal differences in white matter integrity in youth at high familial risk for bipolar disorder. <i>Bipolar Disorders</i> , 2017, 19, 158-167.	1.1	24
156	Interleukin-8 dysregulation is implicated in brain dysmaturation following preterm birth. <i>Brain, Behavior, and Immunity</i> , 2020, 90, 311-318.	2.0	24
157	Apparent diffusion coefficient (ADC) measurements may be more reliable and reproducible than lesion volume on diffusion-weighted images from patients with acute ischaemic stroke—implications for study design. <i>Magnetic Resonance Imaging</i> , 2003, 21, 617-624.	1.0	23
158	Dietary patterns, cognitive function, and structural neuroimaging measures of brain aging. <i>Experimental Gerontology</i> , 2020, 142, 111117.	1.2	23
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