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	Language function following preterm birth: prediction using machine learning. Pediatric Research, 2022, 92, 480-489.	1.1	11
2	Blood-based epigenome-wide analyses of cognitive abilities. Genome Biology, 2022, 23, 26.	3.8	20
3	DNA methylation in relation to gestational age and brain dysmaturation in preterm infants. Brain Communications, 2022, 4, fcac056.	1.5	14
4	Effect of antenatal magnesium sulphate on MRI biomarkers of white matter development at term equivalent age: The MagNUM Study. EBioMedicine, 2022, 78, 103923.	2.7	4
5	Genetic variants associated with longitudinal changes in brain structure across the lifespan. Nature Neuroscience, 2022, 25, 421-432.	7.1	75
6	General factors of white matter microstructure from DTI and NODDI in the developing brain. NeuroImage, 2022, 254, 119169.	2.1	15
7	Contribution of white matter hyperintensities to ventricular enlargement in older adults. NeuroImage: Clinical, 2022, 34, 103019.	1.4	4
8	An epigenetic predictor of death captures multi-modal measures of brain health. Molecular Psychiatry, 2021, 26, 3806-3816.	4.1	77
9	Epigenome-wide meta-analysis of blood DNA methylation and its association with subcortical volumes: findings from the ENIGMA Epigenetics Working Group. Molecular Psychiatry, 2021, 26, 3884-3895.	4.1	34
10	Aging-Sensitive Networks Within the Human Structural Connectome Are Implicated in Late-Life Cognitive Declines. Biological Psychiatry, 2021, 89, 795-806.	0.7	23
11	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
12	Hierarchical Complexity of the Macro-Scale Neonatal Brain. Cerebral Cortex, 2021, 31, 2071-2084.	1.6	18
13	Brain network reorganisation and spatial lesion distribution in systemic lupus erythematosus. Lupus, 2021, 30, 285-298.	0.8	6
14	Comparison of structural MRI brain measures between 1.5 and 3ÂT: Data from the Lothian Birth Cohort 1936. Human Brain Mapping, 2021, 42, 3905-3921.	1.9	11
15	Early life predictors of late life cerebral small vessel disease in four prospective cohort studies. Brain, 2021, 144, 3769-3778.	3.7	21
16	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
17	Birth weight is associated with brain tissue volumes seven decades later but not with MRI markers of brain ageing. NeuroImage: Clinical, 2021, 31, 102776.	1.4	14
18	DNA Methylation and Protein Markers of Chronic Inflammation and Their Associations With Brain and Cognitive Aging. Neurology, 2021, 97, e2340-e2352.	1.5	44

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19	Perivascular spaces in the centrum semiovale at the beginning of the 8th decade of life: effect on cognition and associations with mineral deposition. Brain Imaging and Behavior, 2020, 14, 1865-1875.	1.1	19
20	Sleep and brain morphological changes in the eighth decade of life. Sleep Medicine, 2020, 65, 152-158.	0.8	27
21	Fluctuating asymmetry in brain structure and general intelligence in 73-year-olds. Intelligence, 2020, 78, 101407.	1.6	9
22	Computational quantification of brain perivascular space morphologies: Associations with vascular risk factors and white matter hyperintensities. A study in the Lothian Birth Cohort 1936. NeuroImage: Clinical, 2020, 25, 102120.	1.4	51
23	Dietary patterns, cognitive function, and structural neuroimaging measures of brain aging. Experimental Gerontology, 2020, 142, 111117.	1.2	23
24	Genetic correlations and genome-wide associations of cortical structure in general population samples of 22,824 adults. Nature Communications, 2020, 11, 4796.	5.8	61
25	Association of common genetic variants with brain microbleeds. Neurology, 2020, 95, e3331-e3343.	1.5	40
26	Interleukin-8 dysregulation is implicated in brain dysmaturation following preterm birth. Brain, Behavior, and Immunity, 2020, 90, 311-318.	2.0	24
27	Quantitative measurements of enlarged perivascular spaces in the brain are associated with retinal microvascular parameters in older community-dwelling subjects. Cerebral Circulation - Cognition and Behavior, 2020, 1, 100002.	0.4	6
28	Age-Related Changes of Peak Width Skeletonized Mean Diffusivity (PSMD) Across the Adult Lifespan: A Multi-Cohort Study. Frontiers in Psychiatry, 2020, 11, 342.	1.3	26
29	Evolution of white matter damage in amyotrophic lateral sclerosis. Annals of Clinical and Translational Neurology, 2020, 7, 722-732.	1.7	16
30	Common Genetic Variation Indicates Separate Causes for Periventricular and Deep White Matter Hyperintensities. Stroke, 2020, 51, 2111-2121.	1.0	71
31	DNA methylation and brain structure and function across the life course: A systematic review. Neuroscience and Biobehavioral Reviews, 2020, 113, 133-156.	2.9	47
32	The genetic architecture of the human cerebral cortex. Science, 2020, 367, .	6.0	450
33	Global and Regional Development of the Human Cerebral Cortex: Molecular Architecture and Occupational Aptitudes. Cerebral Cortex, 2020, 30, 4121-4139.	1.6	16
34	Reply to: Early white matter changes on diffusion tensor imaging in amyotrophic lateral sclerosis. Annals of Clinical and Translational Neurology, 2020, 7, 1266-1267.	1.7	0
35	Polygenic Architecture of Human Neuroanatomical Diversity. Cerebral Cortex, 2020, 30, 2307-2320.	1.6	16
36	The effect of network thresholding and weighting on structural brain networks in the UK Biobank. NeuroImage, 2020, 211, 116443.	2.1	88

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37	Peak Width of Skeletonized Water Diffusion MRI in the Neonatal Brain. Frontiers in Neurology, 2020, 11, 235.	1.1	17
38	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
39	Neonatal morphometric similarity mapping for predicting brain age and characterizing neuroanatomic variation associated with preterm birth. NeuroImage: Clinical, 2020, 25, 102195.	1.4	41
40	Neurology-related protein biomarkers are associated with cognitive ability and brain volume in older age. Nature Communications, 2020, 11, 800.	5.8	42
41	Maternal cortisol is associated with neonatal amygdala microstructure and connectivity in a sexually dimorphic manner. ELife, 2020, 9, .	2.8	28
42	Brain Peak Width of Skeletonized Mean Diffusivity (PSMD) and Cognitive Function in Later Life. Frontiers in Psychiatry, 2019, 10, 524.	1.3	33
43	Transplanted t(1;11) patient-derived OPCs form shorter myelin internodes in the hypomyelinated shiverer mice. Molecular Psychiatry, 2019, 24, 1567-1567.	4.1	0
44	Epigenetic signatures of smoking associate with cognitive function, brain structure, and mental and physical health outcomes in the Lothian Birth Cohort 1936. Translational Psychiatry, 2019, 9, 248.	2.4	34
45	Spatial Gradient of Microstructural Changes in Normal-Appearing White Matter in Tracts Affected by White Matter Hyperintensities in Older Age. Frontiers in Neurology, 2019, 10, 784.	1.1	30
46	Familial t(1;11) translocation is associated with disruption of white matter structural integrity and oligodendrocyteâ€“myelin dysfunction. Molecular Psychiatry, 2019, 24, 1641-1654.	4.1	18
47	Retinal microvasculature and cerebral small vessel disease in the Lothian Birth Cohort 1936 and Mild Stroke Study. Scientific Reports, 2019, 9, 6320.	1.6	49
48	Identification of the presence of ischaemic stroke lesions by means of texture analysis on brain magnetic resonance images. Computerized Medical Imaging and Graphics, 2019, 74, 12-24.	3.5	42
49	Associations between vascular risk factors and brain MRI indices in UK Biobank. European Heart Journal, 2019, 40, 2290-2300.	1.0	204
50	Hierarchical complexity of the adult human structural connectome. NeuroImage, 2019, 191, 205-215.	2.1	16
51	Genetic architecture of subcortical brain structures in 38,851 individuals. Nature Genetics, 2019, 51, 1624-1636.	9.4	192
52	Early breast milk exposure modifies brain connectivity in preterm infants. NeuroImage, 2019, 184, 431-439.	2.1	90
53	Reaction time variability and brain white matter integrity.. Neuropsychology, 2019, 33, 642-657.	1.0	6
54	Coupled changes in hippocampal structure and cognitive ability in later life. Brain and Behavior, 2018, 8, e00838.	1.0	21

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55	Diffusion tensor imaging correlates of early markers of depression in youth at highâ€familial risk for bipolar disorder. Journal of Child Psychology and Psychiatry and Allied Disciplines, 2018, 59, 917-927.	3.1	21
56	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
57	Cognitive impairment in early onset epilepsy is associated with reduced left thalamic volume. Epilepsy and Behavior, 2018, 80, 266-271.	0.9	15
58	Widespread associations between trait conscientiousness and thickness of brain cortical regions. NeuroImage, 2018, 176, 22-28.	2.1	22
59	Prenatal methadone exposure is associated with altered neonatal brain development. NeuroImage: Clinical, 2018, 18, 9-14.	1.4	93
60	Brain age predicts mortality. Molecular Psychiatry, 2018, 23, 1385-1392.	4.1	513
61	Brain cortical characteristics of lifetime cognitive ageing. Brain Structure and Function, 2018, 223, 509-518.	1.2	44
62	Cognitive abilities, brain white matter hyperintensity volume, and structural network connectivity in older age. Human Brain Mapping, 2018, 39, 622-632.	1.9	41
63	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
64	Genome-wide association study of 23,500 individuals identifies 7 loci associated with brain ventricular volume. Nature Communications, 2018, 9, 3945.	5.8	31
65	Neonatal Morphometric Similarity Networks Predict Atypical Brain Development Associated with Preterm Birth. Lecture Notes in Computer Science, 2018, , 47-57.	1.0	2
66	Polygenic risk score for schizophrenia and structural brain connectivity in older age: A longitudinal connectome and tractography study. NeuroImage, 2018, 183, 884-896.	2.1	34
67	Association between carotid atheroma and cerebral cortex structure at age 73 years. Annals of Neurology, 2018, 84, 576-587.	2.8	20
68	Diffusion MRI parameters of corpus callosum and corticospinal tract in neonates: Comparison between region-of-interest and whole tract averaged measurements. European Journal of Paediatric Neurology, 2018, 22, 807-813.	0.7	3
69	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
70	Mapping cortical brain asymmetry in 17,141 healthy individuals worldwide via the ENIGMA Consortium. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E5154-E5163.	3.3	299
71	Sex Differences in the Adult Human Brain: Evidence from 5216 UK Biobank Participants. Cerebral Cortex, 2018, 28, 2959-2975.	1.6	594
72	Exome Chip Analysis Identifies Low-Frequency and Rare Variants in MRPL38 for White Matter Hyperintensities on Brain Magnetic Resonance Imaging. Stroke, 2018, 49, 1812-1819.	1.0	17

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73	Resting-State Connectivity and Its Association With Cognitive Performance, Educational Attainment, and Household Income in the UK Biobank. Biological Psychiatry: Cognitive Neuroscience and Neuroimaging, 2018, 3, 878-886.	1.1	46
74	Reference Tracts and Generative Models for Brain White Matter Tractography. Journal of Imaging, 2018, 4, 8.	1.7	1
75	Longitudinal serum S100Î² and brain aging in the Lothian Birth Cohort 1936. Neurobiology of Aging, 2018, 69, 274-282.	1.5	13
76	Predictors of gait speed and its change over three years in community-dwelling older people. Aging, 2018, 10, 144-153.	1.4	19
77	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
78	Novel genetic loci associated with hippocampal volume. Nature Communications, 2017, 8, 13624.	5.8	250
79	Impact of small vessel disease in the brain on gait and balance. Scientific Reports, 2017, 7, 41637.	1.6	86
80	Longitudinal differences in white matter integrity in youth at high familial risk for bipolar disorder. Bipolar Disorders, 2017, 19, 158-167.	1.1	24
81	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
82	Diffusion tensor MRI tractography reveals increased fractional anisotropy (FA) in arcuate fasciculus following music-cued motor training. Brain and Cognition, 2017, 116, 40-46.	0.8	37
83	Brain grey and white matter predictors of verbal ability traits in older age: The Lothian Birth Cohort 1936. NeuroImage, 2017, 156, 394-402.	2.1	21
84	Associations between hippocampal morphology, diffusion characteristics, and salivary cortisol in older men. Psychoneuroendocrinology, 2017, 78, 151-158.	1.3	9
85	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
86	Hippocampal morphology and cognitive functions in community-dwelling older people: the Lothian Birth Cohort 1936. Neurobiology of Aging, 2017, 52, 1-11.	1.5	14
87	Mediterranean-type diet and brain structural change from 73 to 76 years in a Scottish cohort. Neurology, 2017, 88, 449-455.	1.5	109
88	Metric to quantify white matter damage on brain magnetic resonance images. Neuroradiology, 2017, 59, 951-962.	1.1	19
89	Central and nonâ€central networks, cognition, clinical symptoms, and polygenic risk scores in schizophrenia. Human Brain Mapping, 2017, 38, 5919-5930.	1.9	26
90	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

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91	Subcortical volume and white matter integrity abnormalities in major depressive disorder: findings from UK Biobank imaging data. Scientific Reports, 2017, 7, 5547.	1.6	91
92	Dietary iodine exposure and brain structures and cognition in older people. Exploratory analysis in the Lothian Birth Cohort 1936. Journal of Nutrition, Health and Aging, 2017, 21, 971-979.	1.5	11
93	A latent measure explains substantial variance in white matter microstructure across the newborn human brain. Brain Structure and Function, 2017, 222, 4023-4033.	1.2	42
94	Human subcortical brain asymmetries in 15,847 people worldwide reveal effects of age and sex. Brain Imaging and Behavior, 2017, 11, 1497-1514.	1.1	144
95	A Comparative evaluation of voxel-based spatial mapping in diffusion tensor imaging. NeuroImage, 2017, 146, 100-112.	2.1	22
96	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. PLoS ONE, 2017, 12, e0177727.	1.1	65
97	Improved Reference Tracts for Unsupervised Brain White Matter Tractography. Communications in Computer and Information Science, 2017, , 425-435.	0.4	1
98	Parcellation of the Healthy Neonatal Brain into 107 Regions Using Atlas Propagation through Intermediate Time Points in Childhood. Frontiers in Neuroscience, 2016, 10, 220.	1.4	34
99	Volumetric and Correlational Implications of Brain Parcellation Method Selection. Journal of Computer Assisted Tomography, 2016, 40, 53-60.	0.5	1
100	Association between preterm brain injury and exposure to chorioamnionitis during fetal life. Scientific Reports, 2016, 6, 37932.	1.6	91
101	Ageing and brain white matter structure in 3,513 UK Biobank participants. Nature Communications, 2016, 7, 13629.	5.8	373
102	Trait conscientiousness and the personality meta-trait stability are associated with regional white matter microstructure. Social Cognitive and Affective Neuroscience, 2016, 11, 1255-1261.	1.5	18
103	Application of the Ordered Logit Model to Optimising Frangi Filter Parameters for Segmentation of Perivascular Spaces. Procedia Computer Science, 2016, 90, 61-67.	1.2	28
104	Novel genetic loci underlying human intracranial volume identified through genome-wide association. Nature Neuroscience, 2016, 19, 1569-1582.	7.1	213
105	Cerebral Small Vessel Disease Burden Is Increased in Systemic Lupus Erythematosus. Stroke, 2016, 47, 2722-2728.	1.0	50
106	Associations between education and brain structure at age 73 years, adjusted for age 11 IQ. Neurology, 2016, 87, 1820-1826.	1.5	46
107	Information processing speed mediates the relationship between white matter and general intelligence in schizophrenia. Psychiatry Research - Neuroimaging, 2016, 254, 26-33.	0.9	20
108	3D shape analysis of the brain's third ventricle using a midplane encoded symmetric template model. Computer Methods and Programs in Biomedicine, 2016, 129, 51-62.	2.6	2

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109	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
110	Progression of White Matter Disease and Cortical Thinning Are Not Related in Older Community-Dwelling Subjects. Stroke, 2016, 47, 410-416.	1.0	35
111	Kernel regression estimation of fiber orientation mixtures in diffusion MRI. NeuroImage, 2016, 127, 158-172.	2.1	39
112	Imaging signatures of meningioma and low-grade glioma: a diffusion tensor, magnetization transfer and quantitative longitudinal relaxation time MRI study. Magnetic Resonance Imaging, 2016, 34, 596-602.	1.0	19
113	Polygenic risk of ischemic stroke is associated with cognitive ability. Neurology, 2016, 86, 611-618.	1.5	14
114	Brain white matter structure and information processing speed in healthy older age. Brain Structure and Function, 2016, 221, 3223-3235.	1.2	75
115	Early life characteristics and late life burden of cerebral small vessel disease in the Lothian Birth Cohort 1936. Aging, 2016, 8, 2039-2061.	1.4	20
116	Structural Brain MRI Trait Polygenic Score Prediction of Cognitive Abilities. Twin Research and Human Genetics, 2015, 18, 738-745.	0.3	4
117	A Comparison of Location of Acute Symptomatic vs. â€˜Silentâ€™ Small Vessel Lesions. International Journal of Stroke, 2015, 10, 1044-1050.	2.9	59
118	APOE/TOMM40 Genetic Loci, White Matter Hyperintensities, and Cerebral Microbleeds. International Journal of Stroke, 2015, 10, 1297-1300.	2.9	15
119	Reduced structural connectivity within a prefrontal-motor-subcortical network in amyotrophic lateral sclerosis. Journal of Magnetic Resonance Imaging, 2015, 41, 1342-1352.	1.9	29
120	Intelligence in Childhood and Atherosclerosis of the Carotid and Peripheral Arteries in Later Life: The Lothian Birth Cohort 1936. PLoS ONE, 2015, 10, e0125280.	1.1	0
121	Effects of a Balanced Translocation between Chromosomes 1 and 11 Disrupting the DISC1 Locus on White Matter Integrity. PLoS ONE, 2015, 10, e0130900.	1.1	21
122	Memory binding and white matter integrity in familial Alzheimerâ€™s disease. Brain, 2015, 138, 1355-1369.	3.7	62
123	Coupled Changes in Brain White Matter Microstructure and Fluid Intelligence in Later Life. Journal of Neuroscience, 2015, 35, 8672-8682.	1.7	97
124	Beyond a bigger brain: Multivariable structural brain imaging and intelligence. Intelligence, 2015, 51, 47-56.	1.6	101
125	Brain volumetric changes and cognitive ageing during the eighth decade of life. Human Brain Mapping, 2015, 36, 4910-4925.	1.9	79
126	Does white matter structure or hippocampal volume mediate associations between cortisol and cognitive ageing?. Psychoneuroendocrinology, 2015, 62, 129-137.	1.3	26

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127	White matter integrity and its association with affective and interpersonal symptoms in borderline personality disorder. NeuroImage: Clinical, 2015, 7, 476-481.	1.4	32
128	Gliovascular Disruption and Cognitive Deficits in a Mouse Model with Features of Small Vessel Disease. Journal of Cerebral Blood Flow and Metabolism, 2015, 35, 1005-1014.	2.4	89
129	Brain white matter integrity and cortisol in older men: the Lothian Birth Cohort 1936. Neurobiology of Aging, 2015, 36, 257-264.	1.5	28
130	Common genetic variants influence human subcortical brain structures. Nature, 2015, 520, 224-229.	13.7	772
131	Tract shape modeling detects changes associated with preterm birth and neuroprotective treatment effects. NeuroImage: Clinical, 2015, 8, 51-58.	1.4	15
132	Hypertension Fails to Disrupt White Matter Integrity in Young Or Aged Fisher (F44) Cyp1a1Ren2 Transgenic Rats. Journal of Cerebral Blood Flow and Metabolism, 2015, 35, 188-192.	2.4	10
133	Heritability of fractional anisotropy in human white matter: A comparison of Human Connectome Project and ENIGMA-DTI data. NeuroImage, 2015, 111, 300-311.	2.1	227
134	Brain iron deposits and lifespan cognitive ability. Age, 2015, 37, 100.	3.0	24
135	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
136	Association of allostatic load with brain structure and cognitive ability in later life. Neurobiology of Aging, 2015, 36, 1390-1399.	1.5	67
137	Total MRI load of cerebral small vessel disease and cognitive ability in older people. Neurobiology of Aging, 2015, 36, 2806-2811.	1.5	199
138	Genes From a Translational Analysis Support a Multifactorial Nature of White Matter Hyperintensities. Stroke, 2015, 46, 341-347.	1.0	33
139	Post-mortem brain analyses of the Lothian Birth Cohort 1936: extending lifetime cognitive and brain phenotyping to the level of the synapse. Acta Neuropathologica Communications, 2015, 3, 53.	2.4	25
140	Compensation or inhibitory failure? Testing hypotheses of age-related right frontal lobe involvement in verbal memory ability using structural and diffusion MRI. Cortex, 2015, 63, 4-15.	1.1	19
141	White matter hyperintensities and normal-appearing white matter integrity in the aging brain. Neurobiology of Aging, 2015, 36, 909-918.	1.5	224
142	Automated segmentation of multifocal basal ganglia T2*-weighted MRI hypointensities. NeuroImage, 2015, 105, 332-346.	2.1	9
143	Quantitative Serial MRI of the Treated Fibroid Uterus. PLoS ONE, 2014, 9, e89809.	1.1	6
144	Childhood cognitive ability accounts for associations between cognitive ability and brain cortical thickness in old age. Molecular Psychiatry, 2014, 19, 555-559.	4.1	104

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145	Are APOE É› genotype and TOMM40 poly-T repeat length associations with cognitive ageing mediated by brain white matter tract integrity?. Translational Psychiatry, 2014, 4, e449-e449.	2.4	20
146	Vascular risk factors, large-artery atheroma, and brain white matter hyperintensities. Neurology, 2014, 82, 1331-1338.	1.5	181
147	Potential effect of skull thickening on the associations between cognition and brain atrophy in ageing. Age and Ageing, 2014, 43, 712-716.	0.7	6
148	Circulating Inflammatory Markers Are Associated With Magnetic Resonance Imaging-Visible Perivascular Spaces But Not Directly With White Matter Hyperintensities. Stroke, 2014, 45, 605-607.	1.0	113
149	Combining meta- and mega- analytic approaches for multi-site diffusion imaging based genetic studies: From the ENIGMA-DTI working group. , 2014, , .		0
150	Can Musical Training Influence Brain Connectivity? Evidence from Diffusion Tensor MRI. Brain Sciences, 2014, 4, 405-427.	1.1	53
151	Testâ€“retest reliability of structural brain networks from diffusion MRI. NeuroImage, 2014, 86, 231-243.	2.1	132
152	The ENIGMA Consortium: large-scale collaborative analyses of neuroimaging and genetic data. Brain Imaging and Behavior, 2014, 8, 153-182.	1.1	696
153	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
154	Quantitative multi-modal MRI of the Hippocampus and cognitive ability in community-dwelling older subjects. Cortex, 2014, 53, 34-44.	1.1	22
155	Morphologic, Distributional, Volumetric, and Intensity Characterization of Periventricular Hyperintensities. American Journal of Neuroradiology, 2014, 35, 55-62.	1.2	27
156	Blood Pressure, Internal Carotid Artery Flow Parameters, and Age-Related White Matter Hyperintensities. Hypertension, 2014, 63, 1011-1018.	1.3	114
157	Multi-site study of additive genetic effects on fractional anisotropy of cerebral white matter: Comparing meta and megaanalytical approaches for data pooling. NeuroImage, 2014, 95, 136-150.	2.1	127
158	Alzheimer's disease susceptibility genes APOE and TOMM40, and brain white matter integrity in the Lothian Birth Cohort 1936. Neurobiology of Aging, 2014, 35, 1513.e25-1513.e33.	1.5	58
159	Personality, health, and brain integrity: The Lothian Birth Cohort Study 1936.. Health Psychology, 2014, 33, 1477-1486.	1.3	38
160	A test-retest fMRI dataset for motor, language and spatial attention functions. GigaScience, 2013, 2, 6.	3.3	37
161	Studying synapses in human brain with array tomography and electron microscopy. Nature Protocols, 2013, 8, 1366-1380.	5.5	95
162	Brain atrophy associations with white matter lesions in the ageing brain: the Lothian Birth Cohort 1936. European Radiology, 2013, 23, 1084-1092.	2.3	71

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163	Seropositivity for CMV and IL-6 levels are associated with grip strength and muscle size in the elderly. Immunity and Ageing, 2013, 10, 33.	1.8	28
164	ADRB2, brain white matter integrity and cognitive ageing in the Lothian Birth Cohort 1936. Behavior Genetics, 2013, 43, 13-23.	1.4	9
165	Single subject fMRI testâ€“retest reliability metrics and confounding factors. NeuroImage, 2013, 69, 231-243.	2.1	99
166	White matter integrity as an intermediate phenotype: Exploratory genome-wide association analysis in individuals at high risk of bipolar disorder. Psychiatry Research, 2013, 206, 223-231.	1.7	54
167	Brain white matter damage in aging and cognitive ability in youth and older age. Neurobiology of Aging, 2013, 34, 2740-2747.	1.5	83
168	Multi-site genetic analysis of diffusion images and voxelwise heritability analysis: A pilot project of the ENIGMAâ€“DTI working group. NeuroImage, 2013, 81, 455-469.	2.1	354
169	Polygenic Risk and White Matter Integrity in Individuals at High Risk of Mood Disorder. Biological Psychiatry, 2013, 74, 280-286.	0.7	110
170	Estimated maximal and current brain volume predict cognitive ability in old age. Neurobiology of Aging, 2013, 34, 2726-2733.	1.5	73
171	Influence of thickening of the inner skull table on intracranial volume measurement in older people. Magnetic Resonance Imaging, 2013, 31, 918-922.	1.0	20
172	Periventricular white matter integrity and cortisol levels in healthy controls and in euthymic patients with bipolar disorder: An exploratory analysis. Journal of Affective Disorders, 2013, 148, 249-255.	2.0	8
173	Characterization of multifocal T2*-weighted MRI hypointensities in the basal ganglia of elderly, community-dwelling subjects. NeuroImage, 2013, 82, 470-480.	2.1	13
174	Close Correlation between Quantitative and Qualitative Assessments of White Matter Lesions. Neuroepidemiology, 2013, 40, 13-22.	1.1	88
175	Executive deficits, not processing speed relates to abnormalities in distinct prefrontal tracts in amyotrophic lateral sclerosis. Brain, 2013, 136, 3290-3304.	3.7	63
176	Quantitative tractography and tract shape modeling in amyotrophic lateral sclerosis. Journal of Magnetic Resonance Imaging, 2013, 38, 1140-1145.	1.9	16
177	Brain white matter tract integrity and cognitive abilities in community-dwelling older people: The Lothian Birth Cohort, 1936.. Neuropsychology, 2013, 27, 595-607.	1.0	34
178	Assessing the Performance of Atlas-Based Prefrontal Brain Parcellation in an Aging Cohort. Journal of Computer Assisted Tomography, 2013, 37, 257-264.	0.5	8
179	Incidental Findings on Brain MR Imaging in Older Community-Dwelling Subjects Are Common but Serious Medical Consequences Are Rare: A Cohort Study. PLoS ONE, 2013, 8, e71467.	1.1	49
180	Associations between Level and Change in Physical Function and Brain Volumes. PLoS ONE, 2013, 8, e80386.	1.1	19

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