Mark E Bastin

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

263	12,185	58	101
papers	citations	h-index	g-index
293	15,209	6.7 avg, IF	5.9
ext. papers	ext. citations		L-index

#	Paper	IF	Citations
263	Blood-based epigenome-wide analyses of cognitive abilities <i>Genome Biology</i> , 2022 , 23, 26	18.3	1
262	DNA methylation in relation to gestational age and brain dysmaturation in preterm infants <i>Brain Communications</i> , 2022 , 4, fcac056	4.5	1
261	Effect of antenatal magnesium sulphate on MRI biomarkers of white matter development at term equivalent age: The MagNUM Study <i>EBioMedicine</i> , 2022 , 103923	8.8	1
260	Genetic variants associated with longitudinal changes in brain structure across the lifespan <i>Nature Neuroscience</i> , 2022 , 25, 421-432	25.5	1
259	General factors of white matter microstructure from DTI and NODDI in the developing brain <i>NeuroImage</i> , 2022 , 254, 119169	7.9	1
258	Contribution of white matter hyperintensities to ventricular enlargement in older adults <i>NeuroImage: Clinical</i> , 2022 , 34, 103019	5.3	1
257	DNA Methylation and Protein Markers of Chronic Inflammation and Their Associations With Brain and Cognitive Aging. <i>Neurology</i> , 2021 , 97, e2340-e2352	6.5	3
256	Language function following preterm birth: prediction using machine learning. <i>Pediatric Research</i> , 2021 ,	3.2	4
255	Comparison of structural MRI brain measures between 1.5 and 3 T: Data from the Lothian Birth Cohort 1936. <i>Human Brain Mapping</i> , 2021 , 42, 3905-3921	5.9	2
254	An epigenetic predictor of death captures multi-modal measures of brain health. <i>Molecular Psychiatry</i> , 2021 , 26, 3806-3816	15.1	31
253	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, 3884-38	95 ^{.1}	22
252	Aging-Sensitive Networks Within the Human Structural Connectome Are Implicated in Late-Life Cognitive Declines. <i>Biological Psychiatry</i> , 2021 , 89, 795-806	7.9	6
251	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. <i>European Stroke Journal</i> , 2021 , 6, 81-88	5.6	5
250	Hierarchical Complexity of the Macro-Scale Neonatal Brain. <i>Cerebral Cortex</i> , 2021 , 31, 2071-2084	5.1	5
249	Brain network reorganisation and spatial lesion distribution in systemic lupus erythematosus. <i>Lupus</i> , 2021 , 30, 285-298	2.6	O
248	Early life predictors of late life cerebral small vessel disease in four prospective cohort studies. Brain, 2021,	11.2	5
247	Relationship between inferior frontal sulcal hyperintensities on brain MRI, ageing and cerebral small vessel disease. <i>Neurobiology of Aging</i> , 2021 , 106, 130-138	5.6	3

(2020-2021)

246	Birth weight is associated with brain tissue volumes seven decades later but not with MRI markers of brain ageing. <i>NeuroImage: Clinical</i> , 2021 , 31, 102776	5.3	1
245	Interleukin-8 dysregulation is implicated in brain dysmaturation following preterm birth. <i>Brain, Behavior, and Immunity</i> , 2020 , 90, 311-318	16.6	7
244	Quantitative measurements of enlarged perivascular spaces in the brain are associated with retinal microvascular parameters in older community-dwelling subjects. <i>Cerebral Circulation - Cognition and Behavior</i> , 2020 , 1, 100002	О	О
243	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	5	11
242	Evolution of white matter damage in amyotrophic lateral sclerosis. <i>Annals of Clinical and Translational Neurology</i> , 2020 , 7, 722-732	5.3	6
241	Common Genetic Variation Indicates Separate Causes for Periventricular and Deep White Matter Hyperintensities. <i>Stroke</i> , 2020 , 51, 2111-2121	6.7	23
240	DNA methylation and brain structure and function across the life course: A systematic review. <i>Neuroscience and Biobehavioral Reviews</i> , 2020 , 113, 133-156	9	21
239	The genetic architecture of the human cerebral cortex. <i>Science</i> , 2020 , 367,	33.3	156
238	Global and Regional Development of the Human Cerebral Cortex: Molecular Architecture and Occupational Aptitudes. <i>Cerebral Cortex</i> , 2020 , 30, 4121-4139	5.1	5
237	Reply to: Early white matter changes on diffusion tensor imaging in amyotrophic lateral sclerosis. <i>Annals of Clinical and Translational Neurology</i> , 2020 , 7, 1266-1267	5.3	
236	Polygenic Architecture of Human Neuroanatomical Diversity. Cerebral Cortex, 2020, 30, 2307-2320	5.1	7
235	The effect of network thresholding and weighting on structural brain networks in the UK Biobank. <i>NeuroImage</i> , 2020 , 211, 116443	7.9	39
234	Peak Width of Skeletonized Water Diffusion MRI in the Neonatal Brain. <i>Frontiers in Neurology</i> , 2020 , 11, 235	4.1	4
233	Maternal cortisol is associated with neonatal amygdala microstructure and connectivity in a sexually dimorphic manner. <i>ELife</i> , 2020 , 9,	8.9	10
232	Neonatal morphometric similarity mapping for predicting brain age and characterizing neuroanatomic variation associated with preterm birth. <i>NeuroImage: Clinical</i> , 2020 , 25, 102195	5.3	17
231	Neurology-related protein biomarkers are associated with cognitive ability and brain volume in older age. <i>Nature Communications</i> , 2020 , 11, 800	17.4	8
230	Sleep and brain morphological changes in the eighth decade of life. Sleep Medicine, 2020, 65, 152-158	4.6	10
229	Fluctuating asymmetry in brain structure and general intelligence in 73-year-olds. <i>Intelligence</i> , 2020 , 78, 101407	3	4

228	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	5.3	18
227	Dietary patterns, cognitive function, and structural neuroimaging measures of brain aging. <i>Experimental Gerontology</i> , 2020 , 142, 111117	4.5	12
226	Genetic correlations and genome-wide associations of cortical structure in general population samples of 22,824 adults. <i>Nature Communications</i> , 2020 , 11, 4796	17.4	16
225	Effect of antenatal magnesium sulphate on MRI biomarkers of white matter development at term equivalent age: The magnum study. <i>EBioMedicine</i> , 2020 , 59, 102957	8.8	3
224	Association of common genetic variants with brain microbleeds: A genome-wide association study. <i>Neurology</i> , 2020 , 95, e3331-e3343	6.5	10
223	Perivascular spaces in the centrum semiovale at the beginning of the 8th decade of life: effect on cognition and associations with mineral deposition. <i>Brain Imaging and Behavior</i> , 2020 , 14, 1865-1875	4.1	7
222	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	3	14
221	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	4.1	17
220	Familial t(1;11) translocation is associated with disruption of white matter structural integrity and oligodendrocyte-myelin dysfunction. <i>Molecular Psychiatry</i> , 2019 , 24, 1641-1654	15.1	12
219	Retinal microvasculature and cerebral small vessel disease in the Lothian Birth Cohort 1936 and Mild Stroke Study. <i>Scientific Reports</i> , 2019 , 9, 6320	4.9	32
218	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	7.6	20
217	Associations between vascular risk factors and brain MRI indices in UK Biobank. <i>European Heart Journal</i> , 2019 , 40, 2290-2300	9.5	97
216	Brain Peak Width of Skeletonized Mean Diffusivity (PSMD) and Cognitive Function in Later Life. <i>Frontiers in Psychiatry</i> , 2019 , 10, 524	5	21
215	Transplanted t(1;11) patient-derived OPCs form shorter myelin internodes in the hypomyelinated shiverer mice. <i>Molecular Psychiatry</i> , 2019 , 24, 1567-1567	15.1	
214	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	8.6	17
213	Reaction time variability and brain white matter integrity. <i>Neuropsychology</i> , 2019 , 33, 642-657	3.8	2
212	Hierarchical complexity of the adult human structural connectome. <i>NeuroImage</i> , 2019 , 191, 205-215	7.9	9
211	Genetic architecture of subcortical brain structures in 38,851 individuals. <i>Nature Genetics</i> , 2019 , 51, 16	24 3 663	6 81

210	Early breast milk exposure modifies brain connectivity in preterm infants. NeuroImage, 2019, 184, 431-	4 3 99	49
209	Coupled changes in hippocampal structure and cognitive ability in later life. <i>Brain and Behavior</i> , 2018 , 8, e00838	3.4	15
208	Diffusion tensor imaging correlates of early markers of depression in youth at high-familial risk for bipolar disorder. <i>Journal of Child Psychology and Psychiatry and Allied Disciplines</i> , 2018 , 59, 917-927	7.9	14
207	The brain health index: Towards a combined measure of neurovascular and neurodegenerative structural brain injury. <i>International Journal of Stroke</i> , 2018 , 13, 849-856	6.3	8
206	Cognitive impairment in early onset epilepsy is associated with reduced left thalamic volume. <i>Epilepsy and Behavior</i> , 2018 , 80, 266-271	3.2	10
205	Widespread associations between trait conscientiousness and thickness of brain cortical regions. <i>NeuroImage</i> , 2018 , 176, 22-28	7.9	18
204	Prenatal methadone exposure is associated with altered neonatal brain development. <i>NeuroImage: Clinical</i> , 2018 , 18, 9-14	5.3	63
203	Brain age predicts mortality. <i>Molecular Psychiatry</i> , 2018 , 23, 1385-1392	15.1	260
202	Brain cortical characteristics of lifetime cognitive ageing. <i>Brain Structure and Function</i> , 2018 , 223, 509-5	51.8	28
201	Exome Chip Analysis Identifies Low-Frequency and Rare Variants in MRPL38 for White Matter Hyperintensities on Brain Magnetic Resonance Imaging. <i>Stroke</i> , 2018 , 49, 1812-1819	6.7	10
200	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	3.4	24
199	Reference Tracts and Generative Models for Brain White Matter Tractography. <i>Journal of Imaging</i> , 2018 , 4, 8	3.1	1
198	Longitudinal serum S100land brain aging in the Lothian Birth Cohort 1936. <i>Neurobiology of Aging</i> , 2018 , 69, 274-282	5.6	7
197	Predictors of gait speed and its change over three years in community-dwelling older people. <i>Aging</i> , 2018 , 10, 144-153	5.6	13
196	Cognitive abilities, brain white matter hyperintensity volume, and structural network connectivity in older age. <i>Human Brain Mapping</i> , 2018 , 39, 622-632	5.9	28
195	Brain structural differences between 73- and 92-year olds matched for childhood intelligence, social background, and intracranial volume. <i>Neurobiology of Aging</i> , 2018 , 62, 146-158	5.6	9
194	Genome-wide association study of 23,500 individuals identifies 7 loci associated with brain ventricular volume. <i>Nature Communications</i> , 2018 , 9, 3945	17.4	16
193	Neonatal Morphometric Similarity Networks Predict Atypical Brain Development Associated with Preterm Birth. <i>Lecture Notes in Computer Science</i> , 2018 , 47-57	0.9	1

192	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	7.9	22
191	Association between carotid atheroma and cerebral cortex structure at age 73 years. <i>Annals of Neurology</i> , 2018 , 84, 576-587	9.4	14
190	Diffusion MRI parameters of corpus callosum and corticospinal tract in neonates: Comparison between region-of-interest and whole tract averaged measurements. <i>European Journal of Paediatric Neurology</i> , 2018 , 22, 807-813	3.8	2
189	Characterisation of tissue-type metabolic content in secondary progressive multiple sclerosis: a magnetic resonance spectroscopic imaging study. <i>Journal of Neurology</i> , 2018 , 265, 1795-1802	5.5	7
188	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	11.5	182
187	Sex Differences in the Adult Human Brain: Evidence from 5216 UK Biobank Participants. <i>Cerebral Cortex</i> , 2018 , 28, 2959-2975	5.1	335
186	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	7.9	38
185	Novel genetic loci associated with hippocampal volume. <i>Nature Communications</i> , 2017 , 8, 13624	17.4	173
184	Impact of small vessel disease in the brain on gait and balance. Scientific Reports, 2017, 7, 41637	4.9	59
183	Longitudinal differences in white matter integrity in youth at high familial risk for bipolar disorder. <i>Bipolar Disorders</i> , 2017 , 19, 158-167	3.8	19
182	Risk and protective factors for structural brain ageing in the eighth decade of life. <i>Brain Structure and Function</i> , 2017 , 222, 3477-3490	4	31
181	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	2.7	27
180	Brain grey and white matter predictors of verbal ability traits in older age: The Lothian Birth Cohort 1936. <i>NeuroImage</i> , 2017 , 156, 394-402	7.9	14
179	Associations between hippocampal morphology, diffusion characteristics, and salivary cortisol in older men. <i>Psychoneuroendocrinology</i> , 2017 , 78, 151-158	5	7
178	Interaction of APOE e4 and poor glycemic control predicts white matter hyperintensity growth from 73 to 76. <i>Neurobiology of Aging</i> , 2017 , 54, 54-58	5.6	15
177	Hippocampal morphology and cognitive functions in community-dwelling older people: the Lothian Birth Cohort 1936. <i>Neurobiology of Aging</i> , 2017 , 52, 1-11	5.6	7
176	Mediterranean-type diet and brain structural change from 73 to 76 years in a Scottish cohort. <i>Neurology</i> , 2017 , 88, 449-455	6.5	73
175	Metric to quantify white matter damage on brain magnetic resonance images. <i>Neuroradiology</i> , 2017 , 59, 951-962	3.2	11

(2016-2017)

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156	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	5.1	25
155	Volumetric and Correlational Implications of Brain Parcellation Method Selection: A 3-Way Comparison in the Frontal Lobes. <i>Journal of Computer Assisted Tomography</i> , 2016 , 40, 53-60	2.2	1
154	Association between preterm brain injury and exposure to chorioamnionitis during fetal life. <i>Scientific Reports</i> , 2016 , 6, 37932	4.9	67
153	Ageing and brain white matter structure in 3,513 UK Biobank participants. <i>Nature Communications</i> , 2016 , 7, 13629	17.4	207
152	Trait conscientiousness and the personality meta-trait stability are associated with regional white matter microstructure. <i>Social Cognitive and Affective Neuroscience</i> , 2016 , 11, 1255-61	4	15
151	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	1.6	15
150	Novel genetic loci underlying human intracranial volume identified through genome-wide association. <i>Nature Neuroscience</i> , 2016 , 19, 1569-1582	25.5	147
149	Cerebral Small Vessel Disease Burden Is Increased in Systemic Lupus Erythematosus. <i>Stroke</i> , 2016 , 47, 2722-2728	6.7	38
148	Associations between education and brain structure at age 73 years, adjusted for age 11 IQ. <i>Neurology</i> , 2016 , 87, 1820-1826	6.5	26
147	Common genetic variants influence human subcortical brain structures. <i>Nature</i> , 2015 , 520, 224-9	50.4	601
146	Tract shape modeling detects changes associated with preterm birth and neuroprotective treatment effects. <i>NeuroImage: Clinical</i> , 2015 , 8, 51-8	5.3	14
145	Hypertension fails to disrupt white matter integrity in young or aged Fisher (F44) Cyp1a1Ren2 transgenic rats. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2015 , 35, 188-92	7.3	5
144	Heritability of fractional anisotropy in human white matter: a comparison of Human Connectome Project and ENIGMA-DTI data. <i>NeuroImage</i> , 2015 , 111, 300-11	7.9	159
143	Brain iron deposits and lifespan cognitive ability. <i>Age</i> , 2015 , 37, 100		20
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	3.3	21
141	Association of allostatic load with brain structure and cognitive ability in later life. <i>Neurobiology of Aging</i> , 2015 , 36, 1390-9	5.6	52
140	Total MRI load of cerebral small vessel disease and cognitive ability in older people. <i>Neurobiology of Aging</i> , 2015 , 36, 2806-11	5.6	151
139	Genes from a translational analysis support a multifactorial nature of white matter hyperintensities. <i>Stroke</i> , 2015 , 46, 341-7	6.7	24

(2015-2015)

138	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	7.3	19
137	Compensation or inhibitory failure? Testing hypotheses of age-related right frontal lobe involvement in verbal memory ability using structural and diffusion MRI. <i>Cortex</i> , 2015 , 63, 4-15	3.8	16
136	White matter hyperintensities and normal-appearing white matter integrity in the aging brain. <i>Neurobiology of Aging</i> , 2015 , 36, 909-18	5.6	163
135	Automated segmentation of multifocal basal ganglia T2*-weighted MRI hypointensities. <i>Neurolmage</i> , 2015 , 105, 332-46	7.9	8
134	Structural Brain MRI Trait Polygenic Score Prediction of Cognitive Abilities. <i>Twin Research and Human Genetics</i> , 2015 , 18, 738-45	2.2	3
133	A comparison of location of acute symptomatic vs. 'silent' small vessel lesions. <i>International Journal of Stroke</i> , 2015 , 10, 1044-50	6.3	45
132	APOE/TOMM40 genetic loci, white matter hyperintensities, and cerebral microbleeds. <i>International Journal of Stroke</i> , 2015 , 10, 1297-300	6.3	10
131	Reduced structural connectivity within a prefrontal-motor-subcortical network in amyotrophic lateral sclerosis. <i>Journal of Magnetic Resonance Imaging</i> , 2015 , 41, 1342-52	5.6	26
130	Intelligence in childhood and atherosclerosis of the carotid and peripheral arteries in later life: the Lothian Birth Cohort 1936. <i>PLoS ONE</i> , 2015 , 10, e0125280	3.7	
129	Effects of a Balanced Translocation between Chromosomes 1 and 11 Disrupting the DISC1 Locus on White Matter Integrity. <i>PLoS ONE</i> , 2015 , 10, e0130900	3.7	19
128	Memory binding and white matter integrity in familial Alzheimer's disease. <i>Brain</i> , 2015 , 138, 1355-69	11.2	49
127	Coupled changes in brain white matter microstructure and fluid intelligence in later life. <i>Journal of Neuroscience</i> , 2015 , 35, 8672-82	6.6	69
126	Beyond a bigger brain: Multivariable structural brain imaging and intelligence. <i>Intelligence</i> , 2015 , 51, 47-56	3	77
125	Brain volumetric changes and cognitive ageing during the eighth decade of life. <i>Human Brain Mapping</i> , 2015 , 36, 4910-25	5.9	53
124	Does white matter structure or hippocampal volume mediate associations between cortisol and cognitive ageing?. <i>Psychoneuroendocrinology</i> , 2015 , 62, 129-37	5	18
123	White matter integrity and its association with affective and interpersonal symptoms in borderline personality disorder. <i>NeuroImage: Clinical</i> , 2015 , 7, 476-81	5.3	25
122	Gliovascular 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, 1005-14	7.3	70
121	Brain white matter integrity and cortisol in older men: the Lothian Birth Cohort 1936. <i>Neurobiology of Aging</i> , 2015 , 36, 257-64	5.6	21

120	Test-retest reliability of structural brain networks from diffusion MRI. NeuroImage, 2014 , 86, 231-43	7.9	102
119	The ENIGMA Consortium: large-scale collaborative analyses of neuroimaging and genetic data. <i>Brain Imaging and Behavior</i> , 2014 , 8, 153-82	4.1	539
118	Differentiation of calcified regions and iron deposits in the ageing brain on conventional structural MR images. <i>Journal of Magnetic Resonance Imaging</i> , 2014 , 40, 324-33	5.6	16
117	Quantitative multi-modal MRI of the Hippocampus and cognitive ability in community-dwelling older subjects. <i>Cortex</i> , 2014 , 53, 34-44	3.8	21
116	Morphologic, distributional, volumetric, and intensity characterization of periventricular hyperintensities. <i>American Journal of Neuroradiology</i> , 2014 , 35, 55-62	4.4	25
115	Blood pressure, internal carotid artery flow parameters, and age-related white matter hyperintensities. <i>Hypertension</i> , 2014 , 63, 1011-8	8.5	93
114	Multi-site study of additive genetic effects on fractional anisotropy of cerebral white matter: Comparing meta and megaanalytical approaches for data pooling. <i>NeuroImage</i> , 2014 , 95, 136-50	7.9	95
113	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.e25-33	5.6	47
112	Personality, health, and brain integrity: the Lothian birth cohort study 1936. <i>Health Psychology</i> , 2014 , 33, 1477-86	5	29
111	Quantitative serial MRI of the treated fibroid uterus. <i>PLoS ONE</i> , 2014 , 9, e89809	3.7	2
110	Childhood cognitive ability accounts for associations between cognitive ability and brain cortical thickness in old age. <i>Molecular Psychiatry</i> , 2014 , 19, 555-9	15.1	80
109	Are APOE e genotype and TOMM40 poly-T repeat length associations with cognitive ageing mediated by brain white matter tract integrity?. <i>Translational Psychiatry</i> , 2014 , 4, e449	8.6	16
108	Vascular risk factors, large-artery atheroma, and brain white matter hyperintensities. <i>Neurology</i> , 2014 , 82, 1331-8	6.5	136
107	Potential effect of skull thickening on the associations between cognition and brain atrophy in ageing. <i>Age and Ageing</i> , 2014 , 43, 712-6	3	3
106	Circulating inflammatory markers are associated with magnetic resonance imaging-visible perivascular spaces but not directly with white matter hyperintensities. <i>Stroke</i> , 2014 , 45, 605-7	6.7	81
105	Can musical training influence brain connectivity? Evidence from diffusion tensor MRI. <i>Brain Sciences</i> , 2014 , 4, 405-27	3.4	42
104	A test-retest fMRI dataset for motor, language and spatial attention functions. <i>GigaScience</i> , 2013 , 2, 6	7.6	31
103	Studying synapses in human brain with array tomography and electron microscopy. <i>Nature Protocols</i> , 2013 , 8, 1366-80	18.8	63

(2013-2013)

102	Brain atrophy associations with white matter lesions in the ageing brain: the Lothian Birth Cohort 1936. <i>European Radiology</i> , 2013 , 23, 1084-92	8	54
101	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	9.7	22
100	ADRB2, brain white matter integrity and cognitive ageing in the Lothian Birth Cohort 1936. <i>Behavior Genetics</i> , 2013 , 43, 13-23	3.2	7
99	Single subject fMRI test-retest reliability metrics and confounding factors. <i>NeuroImage</i> , 2013 , 69, 231-4	3 7.9	64
98	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, 223-31	9.9	49
97	Brain white matter damage in aging and cognitive ability in youth and older age. <i>Neurobiology of Aging</i> , 2013 , 34, 2740-7	5.6	64
96	Multi-site genetic analysis of diffusion images and voxelwise heritability analysis: a pilot project of the ENIGMA-DTI working group. <i>NeuroImage</i> , 2013 , 81, 455-469	7.9	278
95	Polygenic risk and white matter integrity in individuals at high risk of mood disorder. <i>Biological Psychiatry</i> , 2013 , 74, 280-6	7.9	94
94	Estimated maximal and current brain volume predict cognitive ability in old age. <i>Neurobiology of Aging</i> , 2013 , 34, 2726-33	5.6	58
93	Influence of thickening of the inner skull table on intracranial volume measurement in older people. <i>Magnetic Resonance Imaging</i> , 2013 , 31, 918-22	3.3	9
92	Periventricular white matter integrity and cortisol levels in healthy controls and in euthymic patients with bipolar disorder: an exploratory analysis. <i>Journal of Affective Disorders</i> , 2013 , 148, 249-55	6.6	7
91	Characterization of multifocal T2*-weighted MRI hypointensities in the basal ganglia of elderly, community-dwelling subjects. <i>NeuroImage</i> , 2013 , 82, 470-80	7.9	13
90	Close correlation between quantitative and qualitative assessments of white matter lesions. <i>Neuroepidemiology</i> , 2013 , 40, 13-22	5.4	74
89	Executive deficits, not processing speed relates to abnormalities in distinct prefrontal tracts in amyotrophic lateral sclerosis. <i>Brain</i> , 2013 , 136, 3290-304	11.2	55
88	Quantitative tractography and tract shape modeling in amyotrophic lateral sclerosis. <i>Journal of Magnetic Resonance Imaging</i> , 2013 , 38, 1140-5	5.6	14
87	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	3.8	28
86	Assessing the performance of atlas-based prefrontal brain parcellation in an aging cohort. <i>Journal of Computer Assisted Tomography</i> , 2013 , 37, 257-64	2.2	8
85	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	3.7	40

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16	Hierarchical complexity of the macro-scale neonatal brain		1
15	Age differences in brain white matter microstructure in UK Biobank (N = 3,513)		2
14	Do Candidate Genes Affect the Brain White Matter Microstructure? Large-Scale Evaluation of 6,165 Diffusion MRI Scans		7
13	Sex differences in the adult human brain: Evidence from 5,216 UK Biobank participants		9

12	Genetic Architecture of Subcortical Brain Structures in Over 40,000 Individuals Worldwide	5
11	Birth weight is associated with brain tissue volumes seven decades later, but not with age-associated changes to brain structure	1
10	An epigenetic proxy of chronic inflammation outperforms serum levels as a biomarker of brain ageing	2
9	Brain peak width of skeletonised mean diffusivity (PSMD), processing speed, and other cognitive domains	1
8	Planar cell polarity pathway and development of the human visual cortex	1
7	Genetic Determinants of Cortical Structure (Thickness, Surface Area and Volumes) among Disease Free Adults in the CHARGE Consortium	7
6	Polygenic architecture of human neuroanatomical diversity	3
5	The effect of network thresholding and weighting on structural brain networks in the UK Biobank	2
4	An epigenetic predictor of death captures multi-modal measures of brain health	8
3	DNA methylation and brain dysmaturation in preterm infants	1
2	Blood-based epigenome-wide analyses of cognitive abilities	2
1	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	2