Alan C Evans

List of Publications by Citations

523 papers	70,323 citations	132 h-index	259 g-index
585 ext. papers	80,448 ext. citations	6.3 avg, IF	7.71 L-index

#	Paper	IF	Citations
523	Brain development during childhood and adolescence: a longitudinal MRI study. *Nature Neuroscience*, **1999**, 2, 861-3	25.5	3982
522	Automatic 3D Intersubject Registration of MR Volumetric Data in Standardized Talairach Space. *Journal of Computer Assisted Tomography*, **1994**, 18, 192-205	2.2	2491
521	A probabilistic atlas and reference system for the human brain: International Consortium for Brain Mapping (ICBM). *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2001**, 356, 1293-322	5.8	1582
520	Unbiased average age-appropriate atlases for pediatric studies. *NeuroImage*, **2011**, 54, 313-27	7.9	1208
519	A probabilistic atlas of the human brain: theory and rationale for its development. The International Consortium for Brain Mapping (ICBM). *NeuroImage*, **1995**, 2, 89-101	7.9	1208
518	Stereotaxic white matter atlas based on diffusion tensor imaging in an ICBM template. *NeuroImage*, **2008**, 40, 570-582	7.9	1188
517	Neurodevelopmental trajectories of the human cerebral cortex. *Journal of Neuroscience*, **2008**, 28, 3586-94	6.6	1179
516	Structural maturation of neural pathways in children and adolescents: in vivo study. *Science*, **1999**, 283, 1908-11	33.3	1067
515	Developmental trajectories of brain volume abnormalities in children and adolescents with attention-deficit/hyperactivity disorder. *JAMA - Journal of the American Medical Association*, **2002**, 288, 1740-8	27.4	1036
514	Bias between MNI and Talairach coordinates analyzed using the ICBM-152 brain template. *Human Brain Mapping*, **2007**, 28, 1194-205	5.9	1029
513	Enhancement of MR images using registration for signal averaging. *Journal of Computer Assisted Tomography*, **1998**, 22, 324-33	2.2	993
512	Small-world anatomical networks in the human brain revealed by cortical thickness from MRI. *Cerebral Cortex*, **2007**, 17, 2407-19	5.1	961
511	Sexual dimorphism of brain developmental trajectories during childhood and adolescence. *NeuroImage*, **2007**, 36, 1065-73	7.9	953
510	A general statistical analysis for fMRI data. *NeuroImage*, **2002**, 15, 1-15	7.9	903
509	Changes in brain activity related to eating chocolate: from pleasure to aversion. *Brain*, **2001**, 124, 1720-33	11.2	853
508	Mapping anatomical connectivity patterns of human cerebral cortex using in vivo diffusion tensor imaging tractography. *Cerebral Cortex*, **2009**, 19, 524-36	5.1	814
507	Emotional responses to pleasant and unpleasant music correlate with activity in paralimbic brain regions. *Nature Neuroscience*, **1999**, 2, 382-7	25.5	764

506	Assignment of functional activations to probabilistic cytoarchitectonic areas revisited. *NeuroImage*, **2007**, 36, 511-21	7.9	756
505	Structural insights into aberrant topological patterns of large-scale cortical networks in Alzheimer's disease. *Journal of Neuroscience*, **2008**, 28, 4756-66	6.6	714
504	Automatic 3-D model-based neuroanatomical segmentation. *Human Brain Mapping*, **1995**, 3, 190-208	5.9	709
503	Neural mechanisms underlying melodic perception and memory for pitch. *Journal of Neuroscience*, **1994**, 14, 1908-19	6.6	701
502	Growth patterns in the developing brain detected by using continuum mechanical tensor maps. *Nature*, **2000**, 404, 190-3	50.4	690
501	Automated 3-D extraction and evaluation of the inner and outer cortical surfaces using a Laplacian map and partial volume effect classification. *NeuroImage*, **2005**, 27, 210-21	7.9	686
500	Automated 3-D extraction of inner and outer surfaces of cerebral cortex from MRI. *NeuroImage*, **2000**, 12, 340-56	7.9	682
499	Automatic "pipeline" analysis of 3-D MRI data for clinical trials: application to multiple sclerosis. *IEEE Transactions on Medical Imaging*, **2002**, 21, 1280-91	11.7	592
498	Cortical thickness analysis examined through power analysis and a population simulation. *NeuroImage*, **2005**, 24, 163-73	7.9	578
497	Automated labeling of the human brain: a preliminary report on the development and evaluation of a forward-transform method. *Human Brain Mapping*, **1997**, 5, 238-42	5.9	559
496	Early brain development in infants at high risk for autism spectrum disorder. *Nature*, **2017**, 542, 348-351	50.4	552
495	Early role of vascular dysregulation on late-onset Alzheimer's disease based on multifactorial data-driven analysis. *Nature Communications*, **2016**, 7, 11934	17.4	547
494	Functional localization and lateralization of human olfactory cortex. *Nature*, **1992**, 360, 339-40	50.4	547
493	Dissociation of human mid-dorsolateral from posterior dorsolateral frontal cortex in memory processing. *Proceedings of the National Academy of Sciences of the United States of America*, **1993**, 90, 873-7	11.5	545
492	Musical training shapes structural brain development. *Journal of Neuroscience*, **2009**, 29, 3019-25	6.6	540
491	Three-dimensional MRI atlas of the human cerebellum in proportional stereotaxic space. *NeuroImage*, **1999**, 10, 233-60	7.9	525
490	Longitudinal mapping of cortical thickness and clinical outcome in children and adolescents with attention-deficit/hyperactivity disorder. *Archives of General Psychiatry*, **2006**, 63, 540-9		509
489	Fast and robust parameter estimation for statistical partial volume models in brain MRI. *NeuroImage*, **2004**, 23, 84-97	7.9	503

488	Age- and gender-related differences in the cortical anatomical network. *Journal of Neuroscience*, **2009**, 29, 15684-93	6.6	500
487	Interhemispheric anatomical differences in human primary auditory cortex: probabilistic mapping and volume measurement from magnetic resonance scans. *Cerebral Cortex*, **1996**, 6, 661-72	5.1	487
486	Graph theoretical modeling of brain connectivity. *Current Opinion in Neurology*, **2010**, 23, 341-50	7.1	473
485	GRETNA: a graph theoretical network analysis toolbox for imaging connectomics. *Frontiers in Human Neuroscience*, **2015**, 9, 386	3.3	468
484	Differences in white matter fiber tract development present from 6 to 24 months in infants with autism. *American Journal of Psychiatry*, **2012**, 169, 589-600	11.9	466
483	Growing together and growing apart: regional and sex differences in the lifespan developmental trajectories of functional homotopy. *Journal of Neuroscience*, **2010**, 30, 15034-43	6.6	464
482	Uncovering intrinsic modular organization of spontaneous brain activity in humans. *PLoS ONE*, **2009** , 4, e5226	3.7	450
481	Mapping anatomical correlations across cerebral cortex (MACACC) using cortical thickness from MRI. *NeuroImage*, **2006**, 31, 993-1003	7.9	415
480	The NIH MRI study of normal brain development. *NeuroImage*, **2006**, 30, 184-202	7.9	408
479	BigBrain: an ultrahigh-resolution 3D human brain model. *Science*, **2013**, 340, 1472-5	33.3	407
478	PET studies of phonetic processing of speech: review, replication, and reanalysis. *Cerebral Cortex*, **1996**, 6, 21-30	5.1	391
477	Human brain white matter atlas: identification and assignment of common anatomical structures in superficial white matter. *NeuroImage*, **2008**, 43, 447-57	7.9	378
476	Hearing in the Mind's Ear: A PET Investigation of Musical Imagery and Perception. *Journal of Cognitive Neuroscience*, **1996**, 8, 29-46	3.1	364
475	Anatomical mapping of functional activation in stereotactic coordinate space. *NeuroImage*, **1992**, 1, 43-53	7.9	358
474	Revealing modular architecture of human brain structural networks by using cortical thickness from MRI. *Cerebral Cortex*, **2008**, 18, 2374-81	5.1	356
473	Atlas-based whole brain white matter analysis using large deformation diffeomorphic metric mapping: application to normal elderly and Alzheimer's disease participants. *NeuroImage*, **2009**, 46, 486-99	7.9	354
472	Impaired small-world efficiency in structural cortical networks in multiple sclerosis associated with white matter lesion load. *Brain*, **2009**, 132, 3366-79	11.2	353
471	Detecting changes in nonisotropic images. *Human Brain Mapping*, **1999**, 8, 98-101	5.9	353

470	An unbiased iterative group registration template for cortical surface analysis. *NeuroImage*, **2007**, 34, 1535-44	7.9	338
469	Focal decline of cortical thickness in Alzheimer's disease identified by computational neuroanatomy. *Cerebral Cortex*, **2005**, 15, 995-1001	5.1	333
468	Graph-theoretical analysis reveals disrupted small-world organization of cortical thickness correlation networks in temporal lobe epilepsy. *Cerebral Cortex*, **2011**, 21, 2147-57	5.1	330
467	Quantitative brain magnetic resonance imaging in girls with attention-deficit/hyperactivity disorder. *Archives of General Psychiatry*, **2001**, 58, 289-95		326
466	Brain size and cortical structure in the adult human brain. *Cerebral Cortex*, **2008**, 18, 2181-91	5.1	323
465	Progressive cortical change during adolescence in childhood-onset schizophrenia. A longitudinal magnetic resonance imaging study. *Archives of General Psychiatry*, **1999**, 56, 649-54		322
464	Best practices in data analysis and sharing in neuroimaging using MRI. *Nature Neuroscience*, **2017**, 20, 299-303	25.5	312
463	Regional Frontal Cortical Volumes Decrease Differentially in Aging: An MRI Study to Compare Volumetric Approaches and Voxel-Based Morphometry. *NeuroImage*, **2002**, 17, 657-669	7.9	311
462	Human cingulate and paracingulate sulci: pattern, variability, asymmetry, and probabilistic map. *Cerebral Cortex*, **1996**, 6, 207-14	5.1	307
461	Brain templates and atlases. *NeuroImage*, **2012**, 62, 911-22	7.9	299
460	Association of plasma clusterin concentration with severity, pathology, and progression in Alzheimer disease. *Archives of General Psychiatry*, **2010**, 67, 739-48		298
459	Larger amygdala but no change in hippocampal volume in 10-year-old children exposed to maternal depressive symptomatology since birth. *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108, 14324-9	11.5	289
458	Elevated dopa decarboxylase activity in living brain of patients with psychosis. *Proceedings of the National Academy of Sciences of the United States of America*, **1994**, 91, 11651-4	11.5	282
457	Neuroanatomical correlates of musicianship as revealed by cortical thickness and voxel-based morphometry. *Cerebral Cortex*, **2009**, 19, 1583-96	5.1	270
456	Cortical thickness analysis in autism with heat kernel smoothing. *NeuroImage*, **2005**, 25, 1256-65	7.9	270
455	Changes in cortical thickness during the course of illness in schizophrenia. *Archives of General Psychiatry*, **2011**, 68, 871-80		267
454	Spatial patterns of cortical thinning in mild cognitive impairment and Alzheimer's disease. *Brain*, **2006**, 129, 2885-93	11.2	263
453	Animal: Validation and Applications of Nonlinear Registration-Based Segmentation. *International Journal of Pattern Recognition and Artificial Intelligence*, **1997**, 11, 1271-1294	1.1	262

452	Networks of anatomical covariance. *NeuroImage*, **2013**, 80, 489-504	7.9	261
451	Total and regional brain volumes in a population-based normative sample from 4 to 18 years: the NIH MRI Study of Normal Brain Development. *Cerebral Cortex*, **2012**, 22, 1-12	5.1	260
450	PK11195 binding to the peripheral benzodiazepine receptor as a marker of microglia activation in multiple sclerosis and experimental autoimmune encephalomyelitis. *Journal of Neuroscience Research*, **1997**, 50, 345-53	4.4	251
449	Differences in genetic and environmental influences on the human cerebral cortex associated with development during childhood and adolescence. *Human Brain Mapping*, **2009**, 30, 163-74	5.9	248
448	Cerebral atrophy and its relation to cognitive impairment in Parkinson disease. *Neurology*, **2005**, 64, 224-9	8.5	247
447	A fully automatic and robust brain MRI tissue classification method. *Medical Image Analysis*, **2003**, 7, 513-27	25.4	245
446	Detection and mapping of abnormal brain structure with a probabilistic atlas of cortical surfaces. *Journal of Computer Assisted Tomography*, **1997**, 21, 567-81	2.2	242
445	Modulation of cerebral blood flow in the human auditory cortex during speech: role of motor-to-sensory discharges. *European Journal of Neuroscience*, **1996**, 8, 2236-46	3.5	240
444	Abnormal basal ganglia outflow in Parkinson's disease identified with PET. Implications for higher cortical functions. *Brain*, **1998**, 121 (Pt 5), 949-65	11.2	238
443	Multi-level bootstrap analysis of stable clusters in resting-state fMRI. *NeuroImage*, **2010**, 51, 1126-39	7.9	237
442	Focal gray matter changes in schizophrenia across the course of the illness: a 5-year follow-up study. *Neuropsychopharmacology*, **2007**, 32, 2057-66	8.7	237
441	Cortical morphology in children and adolescents with different apolipoprotein E gene polymorphisms: an observational study. *Lancet Neurology, The*, **2007**, 6, 494-500	24.1	236
440	Volumetry of temporopolar, perirhinal, entorhinal and parahippocampal cortex from high-resolution MR images: considering the variability of the collateral sulcus. *Cerebral Cortex*, **2002** , 12, 1342-53	5.1	235
439	Convergence and divergence of thickness correlations with diffusion connections across the human cerebral cortex. *NeuroImage*, **2012**, 59, 1239-48	7.9	232
438	Focal gray matter density changes in schizophrenia. *Archives of General Psychiatry*, **2001**, 58, 1118-25		231
437	Atlas-guided tract reconstruction for automated and comprehensive examination of the white matter anatomy. *NeuroImage*, **2010**, 52, 1289-301	7.9	226
436	Deformation-based surface morphometry applied to gray matter deformation. *NeuroImage*, **2003**, 18, 198-213	7.9	223
435	Cortical thickness in congenital amusia: when less is better than more. *Journal of Neuroscience*, **2007**, 27, 13028-32	6.6	221

434	Measurement of cortical thickness using an automated 3-D algorithm: a validation study. *NeuroImage*, **2001**, 13, 375-80	7.9	221
433	Genetic contributions to human brain morphology and intelligence. *Journal of Neuroscience*, **2006**, 26, 10235-42	6.6	217
432	Development of cortical surface area and gyrification in attention-deficit/hyperactivity disorder. *Biological Psychiatry*, **2012**, 72, 191-7	7.9	214
431	Characterizing the response of PET and fMRI data using multivariate linear models. *NeuroImage*, **1997**, 6, 305-19	7.9	214
430	Automated cortical thickness measurements from MRI can accurately separate Alzheimer's patients from normal elderly controls. *Neurobiology of Aging*, **2008**, 29, 23-30	5.6	212
429	Cortical development in typically developing children with symptoms of hyperactivity and impulsivity: support for a dimensional view of attention deficit hyperactivity disorder. *American Journal of Psychiatry*, **2011**, 168, 143-51	11.9	211
428	Changes in thickness and surface area of the human cortex and their relationship with intelligence. *Cerebral Cortex*, **2015**, 25, 1608-17	5.1	206
427	A voxel-based morphometric study to determine individual differences in gray matter density associated with age and cognitive change over time. *Cerebral Cortex*, **2004**, 14, 966-73	5.1	206
426	Searching scale space for activation in PET images. *Human Brain Mapping*, **1996**, 4, 74-90	5.9	205
425	Brain connectivity: gender makes a difference. *Neuroscientist*, **2011**, 17, 575-91	7.6	204
424	Sex- and brain size-related small-world structural cortical networks in young adults: a DTI tractography study. *Cerebral Cortex*, **2011**, 21, 449-58	5.1	201
423	White matter microstructure and atypical visual orienting in 7-month-olds at risk for autism. *American Journal of Psychiatry*, **2013**, 170, 899-908	11.9	196
422	Psychostimulant treatment and the developing cortex in attention deficit hyperactivity disorder. *American Journal of Psychiatry*, **2009**, 166, 58-63	11.9	196
421	Polymorphisms of the dopamine D4 receptor, clinical outcome, and cortical structure in attention-deficit/hyperactivity disorder. *Archives of General Psychiatry*, **2007**, 64, 921-31		195
420	Delayed cortical development in fetuses with complex congenital heart disease. *Cerebral Cortex*, **2013**, 23, 2932-43	5.1	194
419	Behavioral, cognitive, and adaptive development in infants with autism spectrum disorder in the first 2 years of life. *Journal of Neurodevelopmental Disorders*, **2015**, 7, 24	4.6	194
418	Neuroanatomical differences in brain areas implicated in perceptual and other core features of autism revealed by cortical thickness analysis and voxel-based morphometry. *Human Brain Mapping*, **2010**, 31, 556-66	5.9	187
417	Tuning and comparing spatial normalization methods. *Medical Image Analysis*, **2004**, 8, 311-23	15.4	187

416	Longitudinal and cross-sectional analysis of atrophy in pharmacoresistant temporal lobe epilepsy. *Neurology*, **2009**, 72, 1747-54	6.5	184
415	In vivo morphometry of the intrasulcal gray matter in the human cingulate, paracingulate, and superior-rostral sulci: hemispheric asymmetries, gender differences and probability maps. *Journal of Comparative Neurology*, **1996**, 376, 664-73	3.4	182
414	Trajectories of cortical thickness maturation in normal brain development--The importance of quality control procedures. *NeuroImage*, **2016**, 125, 267-279	7.9	181
413	Functional neuroimaging of high-risk 6-month-old infants predicts a diagnosis of autism at 24 months of age. *Science Translational Medicine*, **2017**, 9,	17.5	175
412	A new improved version of the realistic digital brain phantom. *NeuroImage*, **2006**, 32, 138-45	7.9	170
411	Development of cortical asymmetry in typically developing children and its disruption in attention-deficit/hyperactivity disorder. *Archives of General Psychiatry*, **2009**, 66, 888-96		168
410	Neuronal networks in Alzheimer's disease. *Neuroscientist*, **2009**, 15, 333-50	7.6	166
409	Focal cortical atrophy in multiple sclerosis: relation to lesion load and disability. *NeuroImage*, **2007**, 34, 509-17	7.9	159
408	Focal white matter density changes in schizophrenia: reduced inter-hemispheric connectivity. *NeuroImage*, **2004**, 21, 27-35	7.9	156
407	Developmental changes in organization of structural brain networks. *Cerebral Cortex*, **2013**, 23, 2072-85	5.1	153
406	Mapping limbic network organization in temporal lobe epilepsy using morphometric correlations: insights on the relation between mesiotemporal connectivity and cortical atrophy. *NeuroImage*, **2008**, 42, 515-24	7.9	153
405	Twenty new digital brain phantoms for creation of validation image data bases. *IEEE Transactions on Medical Imaging*, **2006**, 25, 1410-6	11.7	150
404	Statistical mapping analysis of lesion location and neurological disability in multiple sclerosis: application to 452 patient data sets. *NeuroImage*, **2003**, 19, 532-44	7.9	147
403	Model-based 3-D segmentation of multiple sclerosis lesions in magnetic resonance brain images. *IEEE Transactions on Medical Imaging*, **1995**, 14, 442-53	11.7	144
402	Positron emission tomography partial volume correction: estimation and algorithms. *Journal of Cerebral Blood Flow and Metabolism*, **2002**, 22, 1019-34	7.3	140
401	Correlation of cerebrospinal fluid levels of tau protein phosphorylated at threonine 231 with rates of hippocampal atrophy in Alzheimer disease. *Archives of Neurology*, **2005**, 62, 770-3		137
400	Testosterone-related cortical maturation across childhood and adolescence. *Cerebral Cortex*, **2013**, 23, 1424-32	5.1	135
399	Heritability of regional and global brain structure at the onset of puberty: a magnetic resonance imaging study in 9-year-old twin pairs. *Human Brain Mapping*, **2009**, 30, 2184-96	5.9	135

398	Comparing functional connectivity via thresholding correlations and singular value decomposition. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2005**, 360, 913-20	5.8	135
397	Positive association between cognitive ability and cortical thickness in a representative US sample of healthy 6 to 18 year-olds. *Intelligence*, **2009**, 37, 145-155	3	134
396	Cortical brain development in nonpsychotic siblings of patients with childhood-onset schizophrenia. *Archives of General Psychiatry*, **2007**, 64, 772-80		134
395	Patterns of cortical thickness and surface area in early Parkinson's disease. *NeuroImage*, **2011**, 55, 462-7	7.9	133
394	Regional frontal cortical volumes decrease differentially in aging: an MRI study to compare volumetric approaches and voxel-based morphometry. *NeuroImage*, **2002**, 17, 657-69	7.9	133
393	Localization of cerebral activity during simple singing. *NeuroReport*, **1999**, 10, 3979-84	1.7	132
392	Microstructural and functional gradients are increasingly dissociated in transmodal cortices. *PLoS Biology*, **2019**, 17, e3000284	9.7	131
391	Age-related alterations in the modular organization of structural cortical network by using cortical thickness from MRI. *NeuroImage*, **2011**, 56, 235-45	7.9	130
390	An extensible MRI simulator for post-processing evaluation. *Lecture Notes in Computer Science*, **1996**, 135-140	0.9	129
389	Age-related changes in topological organization of structural brain networks in healthy individuals. *Human Brain Mapping*, **2012**, 33, 552-68	5.9	128
388	Increased Extra-axial Cerebrospinal Fluid in High-Risk Infants Who Later Develop Autism. *Biological Psychiatry*, **2017**, 82, 186-193	7.9	127
387	Thalamo-cortical network pathology in idiopathic generalized epilepsy: insights from MRI-based morphometric correlation analysis. *NeuroImage*, **2009**, 46, 373-81	7.9	126
386	Weighted fourier series representation and its application to quantifying the amount of gray matter. *IEEE Transactions on Medical Imaging*, **2007**, 26, 566-81	11.7	125
385	Cortical thickness correlates of specific cognitive performance accounted for by the general factor of intelligence in healthy children aged 6 to 18. *NeuroImage*, **2011**, 55, 1443-53	7.9	123
384	Comparison of progressive cortical gray matter loss in childhood-onset schizophrenia with that in childhood-onset atypical psychoses. *Archives of General Psychiatry*, **2004**, 61, 17-22		122
383	Sports concussions and aging: a neuroimaging investigation. *Cerebral Cortex*, **2013**, 23, 1159-66	5.1	121
382	Longitudinal neuroanatomical changes determined by deformation-based morphometry in a mouse model of Alzheimer's disease. *NeuroImage*, **2008**, 42, 19-27	7.9	121
381	Spread of pathological tau proteins through communicating neurons in human Alzheimer's disease. *Nature Communications*, **2020**, 11, 2612	17.4	118

380	The effects of musical training on structural brain development: a longitudinal study. *Annals of the New York Academy of Sciences*, **2009**, 1169, 182-6	6.5	117
379	XXY (Klinefelter syndrome): a pediatric quantitative brain magnetic resonance imaging case-control study. *Pediatrics*, **2007**, 119, e232-40	7.4	114
378	Mega-Analysis of Gray Matter Volume in Substance Dependence: General and Substance-Specific Regional Effects. *American Journal of Psychiatry*, **2019**, 176, 119-128	11.9	114
377	Anxious/depressed symptoms are linked to right ventromedial prefrontal cortical thickness maturation in healthy children and young adults. *Cerebral Cortex*, **2014**, 24, 2941-50	5.1	113
376	Network structure of brain atrophy in de novo Parkinson's disease. *ELife*, **2015**, 4,	8.9	112
375	The effect of template choice on morphometric analysis of pediatric brain data. *NeuroImage*, **2009**, 45, 769-77	7.9	109
374	Cortical thickness maturation and duration of music training: health-promoting activities shape brain development. *Journal of the American Academy of Child and Adolescent Psychiatry*, **2014**, 53, 1153-61, 1161.e1-2	7.2	107
373	Quantitative in vivo MRI measurement of cortical development in the fetus. *Brain Structure and Function*, **2012**, 217, 127-39	4	107
372	Functional neuroanatomy of smooth pursuit and predictive saccades. *NeuroReport*, **2000**, 11, 1335-40	1.7	107
371	CBRAIN: a web-based, distributed computing platform for collaborative neuroimaging research. *Frontiers in Neuroinformatics*, **2014**, 8, 54	3.9	106
370	The AddNeuroMed framework for multi-centre MRI assessment of Alzheimer's disease: experience from the first 24 months. *International Journal of Geriatric Psychiatry*, **2011**, 26, 75-82	3.9	106
369	Positional and surface area asymmetry of the human cerebral cortex. *NeuroImage*, **2009**, 46, 895-903	7.9	106
368	Epidemic spreading model to characterize misfolded proteins propagation in aging and associated neurodegenerative disorders. *PLoS Computational Biology*, **2014**, 10, e1003956	5	105
367	Multivariate analysis of MRI data for Alzheimer's disease, mild cognitive impairment and healthy controls. *NeuroImage*, **2011**, 54, 1178-87	7.9	104
366	MRI measures of Alzheimer's disease and the AddNeuroMed study. *Annals of the New York Academy of Sciences*, **2009**, 1180, 47-55	6.5	104
365	Genes, maternal smoking, and the offspring brain and body during adolescence: design of the Saguenay Youth Study. *Human Brain Mapping*, **2007**, 28, 502-18	5.9	103
364	Age-related changes in the topological organization of the white matter structural connectome across the human lifespan. *Human Brain Mapping*, **2015**, 36, 3777-92	5.9	101
363	LORIS: a web-based data management system for multi-center studies. *Frontiers in Neuroinformatics*, **2011**, 5, 37	3.9	100

362	Topological organization of functional brain networks in healthy children: differences in relation to age, sex, and intelligence. *PLoS ONE*, **2013**, 8, e55347	3.7	100
361	Spatial distribution of deep sulcal landmarks and hemispherical asymmetry on the cortical surface. *Cerebral Cortex*, **2010**, 20, 602-11	5.1	99
360	Cortical thickness measured from MRI in the YAC128 mouse model of Huntington's disease. *NeuroImage*, **2008**, 41, 243-51	7.9	98
359	Where in-vivo imaging meets cytoarchitectonics: the relationship between cortical thickness and neuronal density measured with high-resolution [18F]flumazenil-PET. *NeuroImage*, **2011**, 56, 951-60	7.9	96
358	A novel quantitative cross-validation of different cortical surface reconstruction algorithms using MRI phantom. *NeuroImage*, **2006**, 31, 572-84	7.9	96
357	Gray and white matter density changes in monozygotic and same-sex dizygotic twins discordant for schizophrenia using voxel-based morphometry. *NeuroImage*, **2006**, 31, 482-8	7.9	93
356	Cortical Thickness Abnormalities in Autism Spectrum Disorders Through Late Childhood, Adolescence, and Adulthood: A Large-Scale MRI Study. *Cerebral Cortex*, **2017**, 27, 1721-1731	5.1	92
355	ANIMAL+INSECT: Improved Cortical Structure Segmentation. *Lecture Notes in Computer Science*, **1999**, 210-223	0.9	91
354	Diffuse white matter tract abnormalities in clinically normal ageing retired athletes with a history of sports-related concussions. *Brain*, **2014**, 137, 2997-3011	11.2	89
353	Three-dimensional multimodal image-guidance for neurosurgery. *IEEE Transactions on Medical Imaging*, **1996**, 15, 121-8	11.7	88
352	Analysis of regional MRI volumes and thicknesses as predictors of conversion from mild cognitive impairment to Alzheimer's disease. *Neurobiology of Aging*, **2010**, 31, 1375-85	5.6	84
351	Overlapping and segregating structural brain abnormalities in twins with schizophrenia or bipolar disorder. *Archives of General Psychiatry*, **2012**, 69, 349-59		82
350	Cerebral white matter in early puberty is associated with luteinizing hormone concentrations. *Psychoneuroendocrinology*, **2008**, 33, 909-15	5	82
349	Normative fetal brain growth by quantitative in vivo magnetic resonance imaging. *American Journal of Obstetrics and Gynecology*, **2012**, 206, 173.e1-8	6.4	81
348	Four distinct trajectories of tau deposition identified in Alzheimer's disease. *Nature Medicine*, **2021**, 27, 871-881	50.5	81
347	Childhood cognitive ability accounts for associations between cognitive ability and brain cortical thickness in old age. *Molecular Psychiatry*, **2014**, 19, 555-9	15.1	80
346	Developmental cortical thinning in fetal alcohol spectrum disorders. *NeuroImage*, **2011**, 58, 16-25	7.9	80
345	Depth potential function for folding pattern representation, registration and analysis. *Medical Image Analysis*, **2009**, 13, 203-14	15.4	80

344	T34. DECREASED STRUCTURAL CONNECTIVITY IN FIRST-EPISODE PSYCHOSIS IN A VERBAL MEMORY NETWORK DERIVED FROM PARTIAL LEAST SQUARES REGRESSION. *Schizophrenia Bulletin*, **2019**, 45, S216-S216	1.3	78
343	The pipeline system for Octave and Matlab (PSOM): a lightweight scripting framework and execution engine for scientific workflows. *Frontiers in Neuroinformatics*, **2012**, 6, 7	3.9	78
342	Amygdala-hippocampal volume and verbal memory in first-degree relatives of schizophrenic patients. *Psychiatry Research - Neuroimaging*, **2001**, 107, 75-85	2.9	78
341	Brain plasticity and intellectual ability are influenced by shared genes. *Journal of Neuroscience*, **2010**, 30, 5519-24	6.6	77
340	The role of MRI in clinical trials of multiple sclerosis: comparison of image processing techniques. *Annals of Neurology*, **1997**, 41, 125-32	9.4	77
339	Structural neuroimaging as clinical predictor: A review of machine learning applications. *NeuroImage: Clinical*, **2018**, 20, 506-522	5.3	76
338	Cortical thinning explains changes in sleep slow waves during adulthood. *Journal of Neuroscience*, **2015**, 35, 7795-807	6.6	76
337	Reproducibility of neuroimaging analyses across operating systems. *Frontiers in Neuroinformatics*, **2015**, 9, 12	3.9	74
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