

Alan C Evans

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9020303/publications.pdf>

Version: 2024-02-01

518
papers

88,227
citations

268

141
h-index

402

278
g-index

588
all docs

588
docs citations

588
times ranked

52745
citing authors

#	ARTICLE	IF	CITATIONS
1	Brain development during childhood and adolescence: a longitudinal MRI study. <i>Nature Neuroscience</i> , 1999, 2, 861-863.	14.8	4,670
2	Automatic 3D Intersubject Registration of MR Volumetric Data in Standardized Talairach Space. <i>Journal of Computer Assisted Tomography</i> , 1994, 18, 192-205.	0.9	3,049
3	A probabilistic atlas and reference system for the human brain: International Consortium for Brain Mapping (ICBM). <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2001, 356, 1293-1322.	4.0	1,959
4	Unbiased average age-appropriate atlases for pediatric studies. <i>NeuroImage</i> , 2011, 54, 313-327.	4.2	1,825
5	Stereotaxic white matter atlas based on diffusion tensor imaging in an ICBM template. <i>NeuroImage</i> , 2008, 40, 570-582.	4.2	1,528
6	A Probabilistic Atlas of the Human Brain: Theory and Rationale for Its Development. <i>NeuroImage</i> , 1995, 2, 89-101.	4.2	1,411
7	Neurodevelopmental Trajectories of the Human Cerebral Cortex. <i>Journal of Neuroscience</i> , 2008, 28, 3586-3594.	3.6	1,410
8	Developmental Trajectories of Brain Volume Abnormalities in Children and Adolescents With Attention-Deficit/Hyperactivity Disorder. <i>JAMA - Journal of the American Medical Association</i> , 2002, 288, 1740.	7.4	1,298
9	Bias between MNI and Talairach coordinates analyzed using the ICBM-152 brain template. <i>Human Brain Mapping</i> , 2007, 28, 1194-1205.	3.6	1,284
10	Enhancement of MR Images Using Registration for Signal Averaging. <i>Journal of Computer Assisted Tomography</i> , 1998, 22, 324-333.	0.9	1,248
11	Structural Maturation of Neural Pathways in Children and Adolescents: In Vivo Study. <i>Science</i> , 1999, 283, 1908-1911.	12.6	1,196
12	Small-World Anatomical Networks in the Human Brain Revealed by Cortical Thickness from MRI. <i>Cerebral Cortex</i> , 2007, 17, 2407-2419.	2.9	1,174
13	Sexual dimorphism of brain developmental trajectories during childhood and adolescence. <i>NeuroImage</i> , 2007, 36, 1065-1073.	4.2	1,121
14	A General Statistical Analysis for fMRI Data. <i>NeuroImage</i> , 2002, 15, 1-15.	4.2	1,050
15	Changes in brain activity related to eating chocolate: From pleasure to aversion. <i>Brain</i> , 2001, 124, 1720-1733.	7.6	990
16	Mapping Anatomical Connectivity Patterns of Human Cerebral Cortex Using In Vivo Diffusion Tensor Imaging Tractography. <i>Cerebral Cortex</i> , 2009, 19, 524-536.	2.9	979
17	Emotional responses to pleasant and unpleasant music correlate with activity in paralimbic brain regions. <i>Nature Neuroscience</i> , 1999, 2, 382-387.	14.8	908
18	Assignment of functional activations to probabilistic cytoarchitectonic areas revisited. <i>NeuroImage</i> , 2007, 36, 511-521.	4.2	881

#	ARTICLE	IF	CITATIONS
19	Structural Insights into Aberrant Topological Patterns of Large-Scale Cortical Networks in Alzheimer's Disease. <i>Journal of Neuroscience</i> , 2008, 28, 4756-4766.	3.6	872
20	Automatic 3D model-based neuroanatomical segmentation. <i>Human Brain Mapping</i> , 1995, 3, 190-208.	3.6	844
21	Early role of vascular dysregulation on late-onset Alzheimer's disease based on multifactorial data-driven analysis. <i>Nature Communications</i> , 2016, 7, 11934.	12.8	833
22	Early brain development in infants at high risk for autism spectrum disorder. <i>Nature</i> , 2017, 542, 348-351.	27.8	808
23	Neural mechanisms underlying melodic perception and memory for pitch. <i>Journal of Neuroscience</i> , 1994, 14, 1908-1919.	3.6	804
24	Automated 3-D extraction and evaluation of the inner and outer cortical surfaces using a Laplacian map and partial volume effect classification. <i>NeuroImage</i> , 2005, 27, 210-221.	4.2	794
25	Growth patterns in the developing brain detected by using continuum mechanical tensor maps. <i>Nature</i> , 2000, 404, 190-193.	27.8	781
26	Automated 3-D Extraction of Inner and Outer Surfaces of Cerebral Cortex from MRI. <i>NeuroImage</i> , 2000, 12, 340-356.	4.2	770
27	GRETNA: a graph theoretical network analysis toolbox for imaging connectomics. <i>Frontiers in Human Neuroscience</i> , 2015, 9, 386.	2.0	758
28	Automatic "pipeline" analysis of 3-D MRI data for clinical trials: application to multiple sclerosis. <i>IEEE Transactions on Medical Imaging</i> , 2002, 21, 1280-1291.	8.9	679
29	BigBrain: An Ultrahigh-Resolution 3D Human Brain Model. <i>Science</i> , 2013, 340, 1472-1475.	12.6	673
30	Musical Training Shapes Structural Brain Development. <i>Journal of Neuroscience</i> , 2009, 29, 3019-3025.	3.6	661
31	Cortical thickness analysis examined through power analysis and a population simulation. <i>NeuroImage</i> , 2005, 24, 163-173.	4.2	657
32	Automated labeling of the human brain: A preliminary report on the development and evaluation of a forward-transform method. <i>Human Brain Mapping</i> , 1997, 5, 238-242.	3.6	643
33	Functional localization and lateralization of human olfactory cortex. <i>Nature</i> , 1992, 360, 339-340.	27.8	636
34	Growing Together and Growing Apart: Regional and Sex Differences in the Lifespan Developmental Trajectories of Functional Homotopy. <i>Journal of Neuroscience</i> , 2010, 30, 15034-15043.	3.6	619
35	Fast and robust parameter estimation for statistical partial volume models in brain MRI. <i>NeuroImage</i> , 2004, 23, 84-97.	4.2	607
36	Dissociation of human mid-dorsolateral from posterior dorsolateral frontal cortex in memory processing.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1993, 90, 873-877.	7.1	606

#	ARTICLE	IF	CITATIONS
37	Graph theoretical modeling of brain connectivity. <i>Current Opinion in Neurology</i> , 2010, 23, 341-350.	3.6	597
38	Three-Dimensional MRI Atlas of the Human Cerebellum in Proportional Stereotaxic Space. <i>NeuroImage</i> , 1999, 10, 233-260.	4.2	595
39	Age- and Gender-Related Differences in the Cortical Anatomical Network. <i>Journal of Neuroscience</i> , 2009, 29, 15684-15693.	3.6	595
40	Longitudinal Mapping of Cortical Thickness and Clinical Outcome in Children and Adolescents With Attention-Deficit/Hyperactivity Disorder. <i>Archives of General Psychiatry</i> , 2006, 63, 540.	12.3	592
41	Uncovering Intrinsic Modular Organization of Spontaneous Brain Activity in Humans. <i>PLoS ONE</i> , 2009, 4, e5226.	2.5	578
42	Differences in White Matter Fiber Tract Development Present From 6 to 24 Months in Infants With Autism. <i>American Journal of Psychiatry</i> , 2012, 169, 589-600.	7.2	555
43	Interhemispheric Anatomical Differences in Human Primary Auditory Cortex: Probabilistic Mapping and Volume Measurement from Magnetic Resonance Scans. <i>Cerebral Cortex</i> , 1996, 6, 661-672.	2.9	534
44	Mapping anatomical correlations across cerebral cortex (MACACC) using cortical thickness from MRI. <i>NeuroImage</i> , 2006, 31, 993-1003.	4.2	508
45	Human brain white matter atlas: Identification and assignment of common anatomical structures in superficial white matter. <i>NeuroImage</i> , 2008, 43, 447-457.	4.2	486
46	Best practices in data analysis and sharing in neuroimaging using MRI. <i>Nature Neuroscience</i> , 2017, 20, 299-303.	14.8	482
47	The NIH MRI study of normal brain development. <i>NeuroImage</i> , 2006, 30, 184-202.	4.2	466
48	Brain templates and atlases. <i>NeuroImage</i> , 2012, 62, 911-922.	4.2	461
49	Atlas-based whole brain white matter analysis using large deformation diffeomorphic metric mapping: Application to normal elderly and Alzheimer's disease participants. <i>NeuroImage</i> , 2009, 46, 486-499.	4.2	456
50	PET Studies of Phonetic Processing of Speech: Review, Replication, and Reanalysis. <i>Cerebral Cortex</i> , 1996, 6, 21-30.	2.9	429
51	Revealing Modular Architecture of Human Brain Structural Networks by Using Cortical Thickness from MRI. <i>Cerebral Cortex</i> , 2008, 18, 2374-2381.	2.9	426
52	Hearing in the Mind's Ear: A PET Investigation of Musical Imagery and Perception. <i>Journal of Cognitive Neuroscience</i> , 1996, 8, 29-46.	2.3	414
53	Impaired small-world efficiency in structural cortical networks in multiple sclerosis associated with white matter lesion load. <i>Brain</i> , 2009, 132, 3366-3379.	7.6	404
54	Anatomical mapping of functional activation in stereotactic coordinate space. <i>NeuroImage</i> , 1992, 1, 43-53.	4.2	402

#	ARTICLE	IF	CITATIONS
55	Detecting changes in nonisotropic images. <i>Human Brain Mapping</i> , 1999, 8, 98-101.	3.6	398
56	Graph-Theoretical Analysis Reveals Disrupted Small-World Organization of Cortical Thickness Correlation Networks in Temporal Lobe Epilepsy. <i>Cerebral Cortex</i> , 2011, 21, 2147-2157.	2.9	396
57	Brain Size and Cortical Structure in the Adult Human Brain. <i>Cerebral Cortex</i> , 2008, 18, 2181-2191.	2.9	391
58	Focal Decline of Cortical Thickness in Alzheimer's Disease Identified by Computational Neuroanatomy. <i>Cerebral Cortex</i> , 2005, 15, 995-1001.	2.9	390
59	An unbiased iterative group registration template for cortical surface analysis. <i>NeuroImage</i> , 2007, 34, 1535-1544.	4.2	381
60	Quantitative Brain Magnetic Resonance Imaging in Girls With Attention-Deficit/Hyperactivity Disorder. <i>Archives of General Psychiatry</i> , 2001, 58, 289.	12.3	377
61	Progressive Cortical Change During Adolescence in Childhood-Onset Schizophrenia. <i>Archives of General Psychiatry</i> , 1999, 56, 649.	12.3	361
62	Human Cingulate and Paracingulate Sulci: Pattern, Variability, Asymmetry, and Probabilistic Map. <i>Cerebral Cortex</i> , 1996, 6, 207-214.	2.9	355
63	Networks of anatomical covariance. <i>NeuroImage</i> , 2013, 80, 489-504.	4.2	355
64	Four distinct trajectories of tau deposition identified in Alzheimer's disease. <i>Nature Medicine</i> , 2021, 27, 871-881.	30.7	354
65	Association of Plasma Clusterin Concentration With Severity, Pathology, and Progression in Alzheimer Disease. <i>Archives of General Psychiatry</i> , 2010, 67, 739.	12.3	353
66	Regional Frontal Cortical Volumes Decrease Differentially in Aging: An MRI Study to Compare Volumetric Approaches and Voxel-Based Morphometry. <i>NeuroImage</i> , 2002, 17, 657-669.	4.2	345
67	Larger amygdala but no change in hippocampal volume in 10-year-old children exposed to maternal depressive symptomatology since birth. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 14324-14329.	7.1	342
68	Neuroanatomical Correlates of Musicianship as Revealed by Cortical Thickness and Voxel-Based Morphometry. <i>Cerebral Cortex</i> , 2009, 19, 1583-1596.	2.9	336
69	Elevated dopa decarboxylase activity in living brain of patients with psychosis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1994, 91, 11651-11654.	7.1	335
70	Microstructural and functional gradients are increasingly dissociated in transmodal cortices. <i>PLoS Biology</i> , 2019, 17, e3000284.	5.6	332
71	Changes in Cortical Thickness During the Course of Illness in Schizophrenia. <i>Archives of General Psychiatry</i> , 2011, 68, 871.	12.3	329
72	Total and Regional Brain Volumes in a Population-Based Normative Sample from 4 to 18 Years: The NIH MRI Study of Normal Brain Development. <i>Cerebral Cortex</i> , 2012, 22, 1-12.	2.9	322

#	ARTICLE	IF	CITATIONS
73	Spatial patterns of cortical thinning in mild cognitive impairment and Alzheimer's disease. <i>Brain</i> , 2006, 129, 2885-2893.	7.6	321
74	Animal: Validation and Applications of Nonlinear Registration-Based Segmentation. <i>International Journal of Pattern Recognition and Artificial Intelligence</i> , 1997, 11, 1271-1294.	1.2	317
75	Cortical thickness analysis in autism with heat kernel smoothing. <i>NeuroImage</i> , 2005, 25, 1256-1265.	4.2	313
76	Convergence and divergence of thickness correlations with diffusion connections across the human cerebral cortex. <i>NeuroImage</i> , 2012, 59, 1239-1248.	4.2	309
77	Multi-level bootstrap analysis of stable clusters in resting-state fMRI. <i>NeuroImage</i> , 2010, 51, 1126-1139.	4.2	307
78	A fully automatic and robust brain MRI tissue classification method. <i>Medical Image Analysis</i> , 2003, 7, 513-527.	11.6	291
79	Changes in Thickness and Surface Area of the Human Cortex and Their Relationship with Intelligence. <i>Cerebral Cortex</i> , 2015, 25, 1608-1617.	2.9	290
80	Detection and Mapping of Abnormal Brain Structure with a Probabilistic Atlas of Cortical Surfaces. <i>Journal of Computer Assisted Tomography</i> , 1997, 21, 567-581.	0.9	290
81	Development of Cortical Surface Area and Gyrfication in Attention-Deficit/Hyperactivity Disorder. <i>Biological Psychiatry</i> , 2012, 72, 191-197.	1.3	285
82	Differences in genetic and environmental influences on the human cerebral cortex associated with development during childhood and adolescence. <i>Human Brain Mapping</i> , 2009, 30, 163-174.	3.6	284
83	Spread of pathological tau proteins through communicating neurons in human Alzheimer's disease. <i>Nature Communications</i> , 2020, 11, 2612.	12.8	283
84	Volumetry of Temporopolar, Perirhinal, Entorhinal and Parahippocampal Cortex from High-resolution MR Images: Considering the Variability of the Collateral Sulcus. <i>Cerebral Cortex</i> , 2002, 12, 1342-1353.	2.9	282
85	Cerebral atrophy and its relation to cognitive impairment in Parkinson disease. <i>Neurology</i> , 2005, 64, 224-229.	1.1	280
86	PK11195 binding to the peripheral benzodiazepine receptor as a marker of microglia activation in multiple sclerosis and experimental autoimmune encephalomyelitis. <i>Journal of Neuroscience Research</i> , 1997, 50, 345-353.	2.9	279
87	Cortical morphology in children and adolescents with different apolipoprotein E gene polymorphisms: an observational study. <i>Lancet Neurology</i> , The, 2007, 6, 494-500.	10.2	278
88	Atlas-guided tract reconstruction for automated and comprehensive examination of the white matter anatomy. <i>NeuroImage</i> , 2010, 52, 1289-1301.	4.2	277
89	Abnormal basal ganglia outflow in Parkinson's disease identified with PET. Implications for higher cortical functions. <i>Brain</i> , 1998, 121, 949-965.	7.6	271
90	Genetic Contributions to Human Brain Morphology and Intelligence. <i>Journal of Neuroscience</i> , 2006, 26, 10235-10242.	3.6	271

#	ARTICLE	IF	CITATIONS
91	Focal Gray Matter Changes in Schizophrenia across the Course of the Illness: A 5-Year Follow-Up Study. <i>Neuropsychopharmacology</i> , 2007, 32, 2057-2066.	5.4	267
92	Behavioral, cognitive, and adaptive development in infants with autism spectrum disorder in the first 2½ years of life. <i>Journal of Neurodevelopmental Disorders</i> , 2015, 7, 24.	3.1	265
93	Functional neuroimaging of high-risk 6-month-old infants predicts a diagnosis of autism at 24 months of age. <i>Science Translational Medicine</i> , 2017, 9, .	12.4	264
94	Brain Connectivity. <i>Neuroscientist</i> , 2011, 17, 575-591.	3.5	262
95	Modulation of Cerebral Blood Flow in the Human Auditory Cortex During Speech: Role of Motor-to-sensory Discharges. <i>European Journal of Neuroscience</i> , 1996, 8, 2236-2246.	2.6	260
96	Cortical Development in Typically Developing Children With Symptoms of Hyperactivity and Impulsivity: Support for a Dimensional View of Attention Deficit Hyperactivity Disorder. <i>American Journal of Psychiatry</i> , 2011, 168, 143-151.	7.2	258
97	Focal Gray Matter Density Changes in Schizophrenia. <i>Archives of General Psychiatry</i> , 2001, 58, 1118.	12.3	255
98	Trajectories of cortical thickness maturation in normal brain development – The importance of quality control procedures. <i>NeuroImage</i> , 2016, 125, 267-279.	4.2	251
99	Cortical Thickness in Congenital Amusia: When Less Is Better Than More. <i>Journal of Neuroscience</i> , 2007, 27, 13028-13032.	3.6	249
100	Delayed Cortical Development in Fetuses with Complex Congenital Heart Disease. <i>Cerebral Cortex</i> , 2013, 23, 2932-2943.	2.9	249
101	Deformation-based surface morphometry applied to gray matter deformation. <i>NeuroImage</i> , 2003, 18, 198-213.	4.2	245
102	Automated cortical thickness measurements from MRI can accurately separate Alzheimer's patients from normal elderly controls. <i>Neurobiology of Aging</i> , 2008, 29, 23-30.	3.1	242
103	Measurement of Cortical Thickness Using an Automated 3-D Algorithm: A Validation Study. <i>NeuroImage</i> , 2001, 13, 375-380.	4.2	240
104	Characterizing the Response of PET and fMRI Data Using Multivariate Linear Models. <i>NeuroImage</i> , 1997, 6, 305-319.	4.2	239
105	Searching scale space for activation in PET images. <i>Human Brain Mapping</i> , 1996, 4, 74-90.	3.6	237
106	Neuroanatomical differences in brain areas implicated in perceptual and other core features of autism revealed by cortical thickness analysis and voxel-based morphometry. <i>Human Brain Mapping</i> , 2010, 31, 556-566.	3.6	237
107	A new improved version of the realistic digital brain phantom. <i>NeuroImage</i> , 2006, 32, 138-145.	4.2	236
108	A Voxel-based Morphometric Study to Determine Individual Differences in Gray Matter Density Associated with Age and Cognitive Change Over Time. <i>Cerebral Cortex</i> , 2004, 14, 966-973.	2.9	235

#	ARTICLE	IF	CITATIONS
109	Psychostimulant Treatment and the Developing Cortex in Attention Deficit Hyperactivity Disorder. <i>American Journal of Psychiatry</i> , 2009, 166, 58-63.	7.2	232
110	Sex- and Brain Size-Related Small-World Structural Cortical Networks in Young Adults: A DTI Tractography Study. <i>Cerebral Cortex</i> , 2011, 21, 449-458.	2.9	231
111	White Matter Microstructure and Atypical Visual Orienting in 7-Month-Olds at Risk for Autism. <i>American Journal of Psychiatry</i> , 2013, 170, 899-908.	7.2	228
112	Longitudinal and cross-sectional analysis of atrophy in pharmaco-resistant temporal lobe epilepsy. <i>Neurology</i> , 2009, 72, 1747-1754.	1.1	220
113	Polymorphisms of the Dopamine D4 Receptor, Clinical Outcome, and Cortical Structure in Attention-Deficit/Hyperactivity Disorder. <i>Archives of General Psychiatry</i> , 2007, 64, 921.	12.3	219
114	In vivo morphometry of the intrasulcal gray matter in the human cingulate, paracingulate, and superior-rostral sulci: Hemispheric asymmetries, gender differences and probability maps. , 1996, 376, 664-673.		211
115	Tuning and comparing spatial normalization methods. <i>Medical Image Analysis</i> , 2004, 8, 311-323.	11.6	210
116	Neuronal Networks in Alzheimer's Disease. <i>Neuroscientist</i> , 2009, 15, 333-350.	3.5	210
117	Development of Cortical Asymmetry in Typically Developing Children and Its Disruption in Attention-Deficit/Hyperactivity Disorder. <i>Archives of General Psychiatry</i> , 2009, 66, 888.	12.3	205
118	Developmental Changes in Organization of Structural Brain Networks. <i>Cerebral Cortex</i> , 2013, 23, 2072-2085.	2.9	203
119	Twenty New Digital Brain Phantoms for Creation of Validation Image Data Bases. <i>IEEE Transactions on Medical Imaging</i> , 2006, 25, 1410-1416.	8.9	198
120	Mega-Analysis of Gray Matter Volume in Substance Dependence: General and Substance-Specific Regional Effects. <i>American Journal of Psychiatry</i> , 2019, 176, 119-128.	7.2	190
121	Network structure of brain atrophy in de novo Parkinson's disease. <i>ELife</i> , 2015, 4, .	6.0	187
122	Statistical mapping analysis of lesion location and neurological disability in multiple sclerosis: application to 452 patient data sets. <i>NeuroImage</i> , 2003, 19, 532-544.	4.2	176
123	Model-based 3-D segmentation of multiple sclerosis lesions in magnetic resonance brain images. <i>IEEE Transactions on Medical Imaging</i> , 1995, 14, 442-453.	8.9	174
124	Mapping limbic network organization in temporal lobe epilepsy using morphometric correlations: Insights on the relation between mesiotemporal connectivity and cortical atrophy. <i>NeuroImage</i> , 2008, 42, 515-524.	4.2	174
125	Focal cortical atrophy in multiple sclerosis: Relation to lesion load and disability. <i>NeuroImage</i> , 2007, 34, 509-517.	4.2	173
126	Increased Extra-axial Cerebrospinal Fluid in High-Risk Infants Who Later Develop Autism. <i>Biological Psychiatry</i> , 2017, 82, 186-193.	1.3	173

#	ARTICLE	IF	CITATIONS
127	Age-related changes in the topological organization of the white matter structural connectome across the human lifespan. <i>Human Brain Mapping</i> , 2015, 36, 3777-3792.	3.6	170
128	Comparing functional connectivity via thresholding correlations and singular value decomposition. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2005, 360, 913-920.	4.0	165
129	Focal white matter density changes in schizophrenia: reduced inter-hemispheric connectivity. <i>NeuroImage</i> , 2004, 21, 27-35.	4.2	163
130	Patterns of cortical thickness and surface area in early Parkinson's disease. <i>NeuroImage</i> , 2011, 55, 462-467.	4.2	162
131	Positron Emission Tomography Partial Volume Correction: Estimation and Algorithms. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2002, 22, 1019-1034.	4.3	161
132	Weighted Fourier Series Representation and Its Application to Quantifying the Amount of Gray Matter. <i>IEEE Transactions on Medical Imaging</i> , 2007, 26, 566-581.	8.9	161
133	CBRAIN: a web-based, distributed computing platform for collaborative neuroimaging research. <i>Frontiers in Neuroinformatics</i> , 2014, 8, 54.	2.5	161
134	Age-related alterations in the modular organization of structural cortical network by using cortical thickness from MRI. <i>NeuroImage</i> , 2011, 56, 235-245.	4.2	160
135	Positive association between cognitive ability and cortical thickness in a representative US sample of healthy 6 to 18-year-olds. <i>Intelligence</i> , 2009, 37, 145-155.	3.0	159
136	Correlation of Cerebrospinal Fluid Levels of Tau Protein Phosphorylated at Threonine 231 With Rates of Hippocampal Atrophy in Alzheimer Disease. <i>Archives of Neurology</i> , 2005, 62, 770.	4.5	158
137	The Effects of Musical Training on Structural Brain Development. <i>Annals of the New York Academy of Sciences</i> , 2009, 1169, 182-186.	3.8	158
138	Thalamo-cortical network pathology in idiopathic generalized epilepsy: Insights from MRI-based morphometric correlation analysis. <i>NeuroImage</i> , 2009, 46, 373-381.	4.2	157
139	Testosterone-Related Cortical Maturation Across Childhood and Adolescence. <i>Cerebral Cortex</i> , 2013, 23, 1424-1432.	2.9	157
140	Age-related changes in topological organization of structural brain networks in healthy individuals. <i>Human Brain Mapping</i> , 2012, 33, 552-568.	3.6	156
141	Cortical Thickness Abnormalities in Autism Spectrum Disorders Through Late Childhood, Adolescence, and Adulthood: A Large-Scale MRI Study. <i>Cerebral Cortex</i> , 2017, 27, 1721-1731.	2.9	156
142	Heritability of regional and global brain structure at the onset of puberty: A magnetic resonance imaging study in 9-year-old twin pairs. <i>Human Brain Mapping</i> , 2009, 30, 2184-2196.	3.6	155
143	Cortical thickness correlates of specific cognitive performance accounted for by the general factor of intelligence in healthy children aged 6 to 18. <i>NeuroImage</i> , 2011, 55, 1443-1453.	4.2	152
144	Epidemic Spreading Model to Characterize Misfolded Proteins Propagation in Aging and Associated Neurodegenerative Disorders. <i>PLoS Computational Biology</i> , 2014, 10, e1003956.	3.2	151

#	ARTICLE	IF	CITATIONS
145	Anxious/Depressed Symptoms are Linked to Right Ventromedial Prefrontal Cortical Thickness Maturation in Healthy Children and Young Adults. <i>Cerebral Cortex</i> , 2014, 24, 2941-2950.	2.9	149
146	Sports Concussions and Aging: A Neuroimaging Investigation. <i>Cerebral Cortex</i> , 2013, 23, 1159-1166.	2.9	148
147	Cortical Brain Development in Nonpsychotic Siblings of Patients With Childhood-Onset Schizophrenia. <i>Archives of General Psychiatry</i> , 2007, 64, 772.	12.3	145
148	Regional frontal cortical volumes decrease differentially in aging: an MRI study to compare volumetric approaches and voxel-based morphometry. <i>NeuroImage</i> , 2002, 17, 657-69.	4.2	143
149	Topological Organization of Functional Brain Networks in Healthy Children: Differences in Relation to Age, Sex, and Intelligence. <i>PLoS ONE</i> , 2013, 8, e55347.	2.5	142
150	Quantitative in vivo MRI measurement of cortical development in the fetus. <i>Brain Structure and Function</i> , 2012, 217, 127-139.	2.3	140
151	ANIMAL+INSECT: Improved Cortical Structure Segmentation. <i>Lecture Notes in Computer Science</i> , 1999, , 210-223.	1.3	139
152	Localization of cerebral activity during simple singing. <i>NeuroReport</i> , 1999, 10, 3979-3984.	1.2	137
153	Comparison of Progressive Cortical Gray Matter Loss in Childhood-Onset Schizophrenia With That in Childhood-Onset Atypical Psychoses. <i>Archives of General Psychiatry</i> , 2004, 61, 17.	12.3	134
154	Longitudinal neuroanatomical changes determined by deformation-based morphometry in a mouse model of Alzheimer's disease. <i>NeuroImage</i> , 2008, 42, 19-27.	4.2	134
155	LORIS: a web-based data management system for multi-center studies. <i>Frontiers in Neuroinformatics</i> , 2011, 5, 37.	2.5	132
156	Cortical Thickness Maturation and Duration of Music Training: Health-Promoting Activities Shape Brain Development. <i>Journal of the American Academy of Child and Adolescent Psychiatry</i> , 2014, 53, 1153-1161.e2.	0.5	132
157	The effect of template choice on morphometric analysis of pediatric brain data. <i>NeuroImage</i> , 2009, 45, 769-777.	4.2	131
158	Structural neuroimaging as clinical predictor: A review of machine learning applications. <i>NeuroImage: Clinical</i> , 2018, 20, 506-522.	2.7	131
159	XXY (Klinefelter Syndrome): A Pediatric Quantitative Brain Magnetic Resonance Imaging Case-Control Study. <i>Pediatrics</i> , 2007, 119, e232-e240.	2.1	130
160	Multivariate analysis of MRI data for Alzheimer's disease, mild cognitive impairment and healthy controls. <i>NeuroImage</i> , 2011, 54, 1178-1187.	4.2	128
161	The AddNeuroMed framework for multi-centre MRI assessment of Alzheimer's disease : experience from the first 24 months. <i>International Journal of Geriatric Psychiatry</i> , 2011, 26, 75-82.	2.7	127
162	Positional and surface area asymmetry of the human cerebral cortex. <i>NeuroImage</i> , 2009, 46, 895-903.	4.2	126

#	ARTICLE	IF	CITATIONS
163	MRI Measures of Alzheimer's Disease and the AddNeuroMed Study. <i>Annals of the New York Academy of Sciences</i> , 2009, 1180, 47-55.	3.8	121
164	Spatial Distribution of Deep Sulcal Landmarks and Hemispherical Asymmetry on the Cortical Surface. <i>Cerebral Cortex</i> , 2010, 20, 602-611.	2.9	120
165	BigBrain 3D atlas of cortical layers: Cortical and laminar thickness gradients diverge in sensory and motor cortices. <i>PLoS Biology</i> , 2020, 18, e3000678.	5.6	120
166	Cortical Thinning Explains Changes in Sleep Slow Waves during Adulthood. <i>Journal of Neuroscience</i> , 2015, 35, 7795-7807.	3.6	119
167	Neuroanatomical differences in obesity: meta-analytic findings and their validation in an independent dataset. <i>International Journal of Obesity</i> , 2019, 43, 943-951.	3.4	116
168	Cortical thickness measured from MRI in the YAC128 mouse model of Huntington's disease. <i>NeuroImage</i> , 2008, 41, 243-251.	4.2	115
169	Reproducibility of neuroimaging analyses across operating systems. <i>Frontiers in Neuroinformatics</i> , 2015, 9, 12.	2.5	114
170	Functional neuroanatomy of smooth pursuit and predictive saccades. <i>NeuroReport</i> , 2000, 11, 1335-1340.	1.2	113
171	Genes, maternal smoking, and the offspring brain and body during adolescence: Design of the Saguenay Youth Study. <i>Human Brain Mapping</i> , 2007, 28, 502-518.	3.6	113
172	Where in-vivo imaging meets cytoarchitectonics: The relationship between cortical thickness and neuronal density measured with high-resolution [18F]flumazenil-PET. <i>NeuroImage</i> , 2011, 56, 951-960.	4.2	113
173	<title>Warping of a computerized 3-D atlas to match brain image volumes for quantitative neuroanatomical and functional analysis</title>. , 1991, 1445, 236.		111
174	Normative fetal brain growth by quantitative in vivo magnetic resonance imaging. <i>American Journal of Obstetrics and Gynecology</i> , 2012, 206, 173.e1-173.e8.	1.3	111
175	Three-dimensional multimodal image-guidance for neurosurgery. <i>IEEE Transactions on Medical Imaging</i> , 1996, 15, 121-128.	8.9	108
176	Diffuse white matter tract abnormalities in clinically normal ageing retired athletes with a history of sports-related concussions. <i>Brain</i> , 2014, 137, 2997-3011.	7.6	108
177	Overlapping and Segregating Structural Brain Abnormalities in Twins With Schizophrenia or Bipolar Disorder. <i>Archives of General Psychiatry</i> , 2012, 69, 349.	12.3	107
178	Multifactorial causal model of brain (dis)organization and therapeutic intervention: Application to Alzheimer's disease. <i>NeuroImage</i> , 2017, 152, 60-77.	4.2	107
179	A novel quantitative cross-validation of different cortical surface reconstruction algorithms using MRI phantom. <i>NeuroImage</i> , 2006, 31, 572-584.	4.2	105
180	Analysis of regional MRI volumes and thicknesses as predictors of conversion from mild cognitive impairment to Alzheimer's disease. <i>Neurobiology of Aging</i> , 2010, 31, 1375-1385.	3.1	104

#	ARTICLE	IF	CITATIONS
181	Childhood cognitive ability accounts for associations between cognitive ability and brain cortical thickness in old age. <i>Molecular Psychiatry</i> , 2014, 19, 555-559.	7.9	104
182	Joint Attention and Brain Functional Connectivity in Infants and Toddlers. <i>Cerebral Cortex</i> , 2017, 27, 1709-1720.	2.9	103
183	Gray and white matter density changes in monozygotic and same-sex dizygotic twins discordant for schizophrenia using voxel-based morphometry. <i>NeuroImage</i> , 2006, 31, 482-488.	4.2	100
184	A molecular gradient along the longitudinal axis of the human hippocampus informs large-scale behavioral systems. <i>Nature Communications</i> , 2020, 11, 960.	12.8	100
185	Depth potential function for folding pattern representation, registration and analysis. <i>Medical Image Analysis</i> , 2009, 13, 203-214.	11.6	99
186	Studying variability in human brain aging in a population-based German cohort—rationale and design of 1000BRAINS. <i>Frontiers in Aging Neuroscience</i> , 2014, 6, 149.	3.4	97
187	Quantitative and Qualitative Analysis of Transient Fetal Compartments during Prenatal Human Brain Development. <i>Frontiers in Neuroanatomy</i> , 2016, 10, 11.	1.7	97
188	OMEGA: The Open MEG Archive. <i>NeuroImage</i> , 2016, 124, 1182-1187.	4.2	96
189	The ENIGMA Toolbox: multiscale neural contextualization of multisite neuroimaging datasets. <i>Nature Methods</i> , 2021, 18, 698-700.	19.0	95
190	Cerebral white matter in early puberty is associated with luteinizing hormone concentrations. <i>Psychoneuroendocrinology</i> , 2008, 33, 909-915.	2.7	94
191	The pipeline system for Octave and Matlab (PSOM): a lightweight scripting framework and execution engine for scientific workflows. <i>Frontiers in Neuroinformatics</i> , 2012, 6, 7.	2.5	94
192	Developmental cortical thinning in fetal alcohol spectrum disorders. <i>NeuroImage</i> , 2011, 58, 16-25.	4.2	93
193	Cortical thickness asymmetry from childhood to older adulthood. <i>NeuroImage</i> , 2013, 83, 66-74.	4.2	93
194	The Emergence of Network Inefficiencies in Infants With Autism Spectrum Disorder. <i>Biological Psychiatry</i> , 2017, 82, 176-185.	1.3	93
195	Amygdala—hippocampal volume and verbal memory in first-degree relatives of schizophrenic patients. <i>Psychiatry Research - Neuroimaging</i> , 2001, 107, 75-85.	1.8	92
196	Pitfalls in the dipolar model for the neocortical EEG sources. <i>Journal of Neurophysiology</i> , 2012, 108, 956-975.	1.8	91
197	Brain Plasticity and Intellectual Ability Are Influenced by Shared Genes. <i>Journal of Neuroscience</i> , 2010, 30, 5519-5524.	3.6	90
198	Prediction of brain maturity based on cortical thickness at different spatial resolutions. <i>NeuroImage</i> , 2015, 111, 350-359.	4.2	90

#	ARTICLE	IF	CITATIONS
199	Somatosensoryâ€“motor bodily representation cortical thinning in Tourette: Effects of tic severity, age and gender. <i>Cortex</i> , 2010, 46, 750-760.	2.4	89
200	Accelerated longitudinal cortical thinning in adolescence. <i>NeuroImage</i> , 2015, 104, 138-145.	4.2	89
201	Automatic quantification of MS lesions in 3D MRI brain data sets: Validation of INSECT. <i>Lecture Notes in Computer Science</i> , 1998, , 439-448.	1.3	88
202	Interactive Effects of Dehydroepiandrosterone and Testosterone on Cortical Thickness during Early Brain Development. <i>Journal of Neuroscience</i> , 2013, 33, 10840-10848.	3.6	88
203	Structural networks in Alzheimer's disease. <i>European Neuropsychopharmacology</i> , 2013, 23, 63-77.	0.7	87
204	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.	2.4	87
205	<title>Multiple surface identification and matching in magnetic resonance images</title>. , 1994, 2359, 160.		86
206	The Role of MRI in clinical trials of multiple sclerosis: Comparison of image processing techniques. <i>Annals of Neurology</i> , 1997, 41, 125-132.	5.3	86
207	Right Anterior Cingulate Cortical Thickness and Bilateral Striatal Volume Correlate with Child Behavior Checklist Aggressive Behavior Scores in Healthy Children. <i>Biological Psychiatry</i> , 2011, 70, 283-290.	1.3	86
208	Network inefficiencies in autism spectrum disorder at 24 months. <i>Translational Psychiatry</i> , 2014, 4, e388-e388.	4.8	85
209	Evidence of slow maturation of the superior longitudinal fasciculus in early childhood by diffusion tensor imaging. <i>NeuroImage</i> , 2007, 38, 239-247.	4.2	83
210	Brain Volume Findings in 6-Month-Old Infants at High Familial Risk for Autism. <i>American Journal of Psychiatry</i> , 2012, 169, 601-608.	7.2	83
211	Effect of APOE Î¼4 Allele on Cortical Thicknesses and Volumes: The AddNeuroMed Study. <i>Journal of Alzheimer's Disease</i> , 2010, 21, 947-966.	2.6	82
212	Decreased Regional Cortical Thickness and Thinning Rate Are Associated With Inattention Symptoms in Healthy Children. <i>Journal of the American Academy of Child and Adolescent Psychiatry</i> , 2012, 51, 18-27.e2.	0.5	82
213	Cortical thickness is associated with gait disturbances in cerebral small vessel disease. <i>NeuroImage</i> , 2012, 59, 1478-1484.	4.2	82
214	Association of Cannabis Use During Adolescence With Neurodevelopment. <i>JAMA Psychiatry</i> , 2021, 78, 1031.	11.0	82
215	Neuroanatomy of childhood disruptive behavior disorders. <i>Aggressive Behavior</i> , 2011, 37, 326-337.	2.4	79
216	Interoperable atlases of the human brain. <i>NeuroImage</i> , 2014, 99, 525-532.	4.2	78

#	ARTICLE	IF	CITATIONS
217	Three-Dimensional Probabilistic Atlas of the Human Orbitofrontal Sulci in Standardized Stereotaxic Space. <i>NeuroImage</i> , 2001, 13, 479-496.	4.2	77
218	Mapping reliability in multicenter MRI: Voxel-based morphometry and cortical thickness. <i>Human Brain Mapping</i> , 2010, 31, 1967-1982.	3.6	77
219	Striatal L-DOPA Decarboxylase Activity in Parkinson's Disease In Vivo: Implications for the Regulation of Dopamine Synthesis. <i>Journal of Neurochemistry</i> , 1993, 61, 1538-1541.	3.9	76
220	Automatic quantification of multiple sclerosis lesion volume using stereotaxic space. <i>Lecture Notes in Computer Science</i> , 1996, , 439-448.	1.3	74
221	Cannabis use and progressive cortical thickness loss in areas rich in CB1 receptors during the first five years of schizophrenia. <i>European Neuropsychopharmacology</i> , 2010, 20, 855-865.	0.7	74
222	Subcortical and cortical morphological anomalies as an endophenotype in obsessive-compulsive disorder. <i>Molecular Psychiatry</i> , 2015, 20, 224-231.	7.9	74
223	Motion correction of multi-frame PET data in neuroreceptor mapping: Simulation based validation. <i>NeuroImage</i> , 2009, 47, 1496-1505.	4.2	73
224	Brain connectivity in normally developing children and adolescents. <i>NeuroImage</i> , 2016, 134, 192-203.	4.2	73
225	A cross-modal, cross-species comparison of connectivity measures in the primate brain. <i>NeuroImage</i> , 2016, 125, 311-331.	4.2	73
226	Alterations in cortical thickness development in preterm-born individuals: Implications for high-order cognitive functions. <i>NeuroImage</i> , 2015, 115, 64-75.	4.2	72
227	2015 Brainhack Proceedings. <i>GigaScience</i> , 2016, 5, 1-26.	6.4	72
228	T1 white/gray contrast as a predictor of chronological age, and an index of cognitive performance. <i>NeuroImage</i> , 2018, 173, 341-350.	4.2	72
229	Subcortical Brain and Behavior Phenotypes Differentiate Infants With Autism Versus Language Delay. <i>Biological Psychiatry: Cognitive Neuroscience and Neuroimaging</i> , 2017, 2, 664-672.	1.5	71
230	Cortical Thickness, Cortico-Amygdalar Networks, and Externalizing Behaviors in Healthy Children. <i>Biological Psychiatry</i> , 2014, 75, 65-72.	1.3	70
231	Combination analysis of neuropsychological tests and structural MRI measures in differentiating AD, MCI and control groupsâ€”The AddNeuroMed study. <i>Neurobiology of Aging</i> , 2011, 32, 1198-1206.	3.1	69
232	Predicting symptom severity in autism spectrum disorder based on cortical thickness measures in agglomerative data. <i>NeuroImage</i> , 2017, 144, 128-141.	4.2	69
233	Mapping Cortical Laminar Structure in the 3D BigBrain. <i>Cerebral Cortex</i> , 2018, 28, 2551-2562.	2.9	69
234	Lateralized genetic and environmental influences on human brain morphology of 8-year-old twins. <i>NeuroImage</i> , 2010, 53, 1117-1125.	4.2	66

#	ARTICLE	IF	CITATIONS
235	Atypical functional brain connectivity during rest in autism spectrum disorders. <i>Annals of Neurology</i> , 2015, 77, 866-876.	5.3	66
236	MINC 2.0: A Flexible Format for Multi-Modal Images. <i>Frontiers in Neuroinformatics</i> , 2016, 10, 35.	2.5	65
237	Walking, Gross Motor Development, and Brain Functional Connectivity in Infants and Toddlers. <i>Cerebral Cortex</i> , 2018, 28, 750-763.	2.9	65
238	Statistical Sulcal Shape Comparisons: Application to the Detection of Genetic Encoding of the Central Sulcus Shape. <i>NeuroImage</i> , 2000, 11, 564-574.	4.2	64
239	Measures of resting state EEG rhythms for clinical trials in Alzheimer's disease: Recommendations of an expert panel. <i>Alzheimer's and Dementia</i> , 2021, 17, 1528-1553.	0.8	64
240	Sexual dimorphism and asymmetry in human cerebellum: An MRI-based morphometric study. <i>Brain Research</i> , 2010, 1353, 60-73.	2.2	62
241	Meta-Connectomic Analysis Reveals Commonly Disrupted Functional Architectures in Network Modules and Connectors across Brain Disorders. <i>Cerebral Cortex</i> , 2018, 28, 4179-4194.	2.9	61
242	Reduced Cortical Thickness in Primary Open-Angle Glaucoma and Its Relationship to the Retinal Nerve Fiber Layer Thickness. <i>PLoS ONE</i> , 2013, 8, e73208.	2.5	60
243	Reduced cerebral glucose metabolism and increased brain capillary permeability following high-dose methotrexate chemotherapy: A positron emission tomographic study. <i>Annals of Neurology</i> , 1987, 21, 59-63.	5.3	59
244	Brain imaging in drug R&D. <i>Biomarkers</i> , 2005, 10, 58-68.	1.9	59
245	Changes in cortical thickness across the lifespan in major depressive disorder. <i>Psychiatry Research - Neuroimaging</i> , 2013, 214, 204-211.	1.8	59
246	Variance decomposition of MRI-based covariance maps using genetically informative samples and structural equation modeling. <i>NeuroImage</i> , 2009, 47, 56-64.	4.2	58
247	The Overlapping Community Structure of Structural Brain Network in Young Healthy Individuals. <i>PLoS ONE</i> , 2011, 6, e19608.	2.5	58
248	Spontaneous functional network dynamics and associated structural substrates in the human brain. <i>Frontiers in Human Neuroscience</i> , 2015, 9, 478.	2.0	58
249	Biomarkers, designs, and interpretations of resting-state fMRI in translational pharmacological research: A review of state-of-the-art, challenges, and opportunities for studying brain chemistry. <i>Human Brain Mapping</i> , 2017, 38, 2276-2325.	3.6	57
250	Virtual imaging laboratories for marker discovery in neurodegenerative diseases. <i>Nature Reviews Neurology</i> , 2011, 7, 429-438.	10.1	56
251	Imaging structural covariance in the development of intelligence. <i>NeuroImage</i> , 2017, 144, 227-240.	4.2	56
252	The Comprehensive Assessment of Neurodegeneration and Dementia: Canadian Cohort Study. <i>Canadian Journal of Neurological Sciences</i> , 2019, 46, 499-511.	0.5	56

#	ARTICLE	IF	CITATIONS
253	Differences in Cortical Thickness in Healthy Controls, Subjects with Mild Cognitive Impairment, and Alzheimer's Disease Patients: A Longitudinal Study. <i>Journal of Alzheimer's Disease</i> , 2010, 21, 1141-1151.	2.6	54
254	On the central role of brain connectivity in neurodegenerative disease progression. <i>Frontiers in Aging Neuroscience</i> , 2015, 7, 90.	3.4	53
255	Structural Gray Matter Differences During Childhood Development in Autism Spectrum Disorder: A Multimetric Approach. <i>Pediatric Neurology</i> , 2015, 53, 350-359.	2.1	53
256	Restricted and Repetitive Behavior and Brain Functional Connectivity in Infants at Risk for Developing Autism Spectrum Disorder. <i>Biological Psychiatry: Cognitive Neuroscience and Neuroimaging</i> , 2019, 4, 50-61.	1.5	53
257	Cortical Thickness Analysis to Detect Progressive Mild Cognitive Impairment: A Reference to Alzheimer's Disease. <i>Dementia and Geriatric Cognitive Disorders</i> , 2009, 28, 389-397.	1.5	52
258	The Clinical Spectrum of Developmental Language Impairment in School-Aged Children: Language, Cognitive, and Motor Findings. <i>Pediatrics</i> , 2006, 118, e1541-e1549.	2.1	51
259	Cortical thickness is associated with poor insight in first-episode psychosis. <i>Journal of Psychiatric Research</i> , 2011, 45, 781-787.	3.1	51
260	Accurate age classification of 6 and 12 month-old infants based on resting-state functional connectivity magnetic resonance imaging data. <i>Developmental Cognitive Neuroscience</i> , 2015, 12, 123-133.	4.0	51
261	Resting-state fMRI in sleeping infants more closely resembles adult sleep than adult wakefulness. <i>PLoS ONE</i> , 2017, 12, e0188122.	2.5	51
262	Head motion: the dirty little secret of neuroimaging in psychiatry. <i>Journal of Psychiatry and Neuroscience</i> , 2019, 44, 62-68.	2.4	51
263	Myeloarchitecture gradients in the human insula: Histological underpinnings and association to intrinsic functional connectivity. <i>NeuroImage</i> , 2020, 216, 116859.	4.2	51
264	The Plasticity of Brain Gray Matter and White Matter following Lower Limb Amputation. <i>Neural Plasticity</i> , 2015, 2015, 1-10.	2.2	50
265	Unbiased age-specific structural brain atlases for Chinese pediatric population. <i>NeuroImage</i> , 2019, 189, 55-70.	4.2	50
266	A longitudinal study of parent-reported sensory responsiveness in toddlers at risk for autism. <i>Journal of Child Psychology and Psychiatry and Allied Disciplines</i> , 2019, 60, 314-324.	5.2	50
267	Anatomical Substrates of the Alerting, Orienting and Executive Control Components of Attention: Focus on the Posterior Parietal Lobe. <i>PLoS ONE</i> , 2012, 7, e50590.	2.5	48
268	The MNI data-sharing and processing ecosystem. <i>NeuroImage</i> , 2016, 124, 1188-1195.	4.2	48
269	Role of the parahippocampal cortex in memory for the configuration but not the identity of objects: converging evidence from patients with selective thermal lesions and fMRI. <i>Frontiers in Human Neuroscience</i> , 2015, 9, 431.	2.0	47
270	Associations between education and brain structure at age 73 years, adjusted for age 11 IQ. <i>Neurology</i> , 2016, 87, 1820-1826.	1.1	46

#	ARTICLE	IF	CITATIONS
271	To the Cloud! A Grassroots Proposal to Accelerate Brain Science Discovery. <i>Neuron</i> , 2016, 92, 622-627.	8.1	46
272	Convergence of cortical types and functional motifs in the human mesiotemporal lobe. <i>ELife</i> , 2020, 9, .	6.0	46
273	Cortical Structural Connectivity Alterations in Primary Insomnia: Insights from MRI-Based Morphometric Correlation Analysis. <i>BioMed Research International</i> , 2015, 2015, 1-23.	1.9	45
274	Cerebral asymmetries in 12-week-old C57Bl/6J mice measured by magnetic resonance imaging. <i>NeuroImage</i> , 2010, 50, 409-415.	4.2	44
275	<title>Automated 3D nonlinear deformation procedure for determination of gross morphometric variability in human brain</title>. , 1994, , .		43
276	Trajectories of cortical surface area and cortical volume maturation in normal brain development. <i>Data in Brief</i> , 2015, 5, 929-938.	1.0	43
277	Disruption of structural covariance networks for language in autism is modulated by verbal ability. <i>Brain Structure and Function</i> , 2016, 221, 1017-1032.	2.3	43
278	Mathematical Modeling of Protein Misfolding Mechanisms in Neurological Diseases: A Historical Overview. <i>Frontiers in Neurology</i> , 2018, 9, 37.	2.4	43
279	Improved correlation between scores on the expanded disability status scale and cerebral lesion load in relapsing-remitting multiple sclerosis. Results of the application of new imaging methods. <i>Brain</i> , 1998, 121, 1305-1312.	7.6	42
280	Olfactory dysfunction in Alzheimer's diseaseâ€”and Lewy bodyâ€”related cognitive impairment. <i>Alzheimer's and Dementia</i> , 2018, 14, 1243-1252.	0.8	42
281	Open science datasets from PREVENT-AD, a longitudinal cohort of pre-symptomatic Alzheimerâ€™s disease. <i>NeuroImage: Clinical</i> , 2021, 31, 102733.	2.7	42
282	U-net model for brain extraction: Trained on humans for transfer to non-human primates. <i>NeuroImage</i> , 2021, 235, 118001.	4.2	42
283	The BigBrainWarp toolbox for integration of BigBrain 3D histology with multimodal neuroimaging. <i>ELife</i> , 2021, 10, .	6.0	42
284	Subjective Cognitive Decline Is Associated With Altered Default Mode Network Connectivity in Individuals With a Family History of Alzheimerâ€™s Disease. <i>Biological Psychiatry: Cognitive Neuroscience and Neuroimaging</i> , 2018, 3, 463-472.	1.5	41
285	Influence of Processing Pipeline on Cortical Thickness Measurement. <i>Cerebral Cortex</i> , 2020, 30, 5014-5027.	2.9	41
286	APOE ε2 Allele Is Associated with Larger Regional Cortical Thicknesses and Volumes. <i>Dementia and Geriatric Cognitive Disorders</i> , 2010, 30, 229-237.	1.5	40
287	Network efficiency in autism spectrum disorder and its relation to brain overgrowth. <i>Frontiers in Human Neuroscience</i> , 2013, 7, 845.	2.0	40
288	BrainBrowser: distributed, web-based neurological data visualization. <i>Frontiers in Neuroinformatics</i> , 2014, 8, 89.	2.5	40

#	ARTICLE	IF	CITATIONS
289	Quantitative In vivo MRI Assessment of Structural Asymmetries and Sexual Dimorphism of Transient Fetal Compartments in the Human Brain. <i>Cerebral Cortex</i> , 2020, 30, 1752-1767.	2.9	40
290	Obligatory role of the LIFG in synonym generation. <i>NeuroReport</i> , 1997, 8, 3275-3278.	1.2	38
291	Callosal fiber length and interhemispheric connectivity in adults with autism: Brain overgrowth and underconnectivity. <i>Human Brain Mapping</i> , 2013, 34, 1685-1695.	3.6	38
292	Regional alterations in cortical thickness and white matter integrity in amyotrophic lateral sclerosis. <i>Journal of Neurology</i> , 2014, 261, 412-421.	3.6	38
293	Age-related volumetric change of limbic structures and subclinical anxious/depressed symptomatology in typically developing children and adolescents. <i>Biological Psychology</i> , 2017, 124, 133-140.	2.2	38
294	Topographical Heterogeneity of Alzheimer's Disease Based on MR Imaging, Tau PET, and Amyloid PET. <i>Frontiers in Aging Neuroscience</i> , 2019, 11, 211.	3.4	38
295	Superficially Located White Matter Structures Commonly Seen in the Human and the Macaque Brain with Diffusion Tensor Imaging. <i>Brain Connectivity</i> , 2011, 1, 37-47.	1.7	37
296	Genetic and environmental influences on structural variability of the brain in pediatric twin: Deformation based morphometry. <i>Neuroscience Letters</i> , 2011, 493, 8-13.	2.1	37
297	Symptom Attribution in first episode psychosis: A cortical thickness study. <i>Psychiatry Research - Neuroimaging</i> , 2012, 203, 6-13.	1.8	37
298	NEOCIVET: Towards accurate morphometry of neonatal gyrification and clinical applications in preterm newborns. <i>NeuroImage</i> , 2016, 138, 28-42.	4.2	37
299	Non-linear cerebral registration with sulcal constraints. <i>Lecture Notes in Computer Science</i> , 1998, , 974-984.	1.3	36
300	Association of Vascular Risk Factors With β -Amyloid Peptide and Tau Burdens in Cognitively Unimpaired Individuals and Its Interaction With Vascular Medication Use. <i>JAMA Network Open</i> , 2020, 3, e1920780.	5.9	36
301	3-O-methyldopa administration does not alter fluorodopa transport into the brain. <i>Annals of Neurology</i> , 1992, 31, 638-643.	5.3	35
302	Negative Associations between Corpus Callosum Midsagittal Area and IQ in a Representative Sample of Healthy Children and Adolescents. <i>PLoS ONE</i> , 2011, 6, e19698.	2.5	35
303	Progression of White Matter Disease and Cortical Thinning Are Not Related in Older Community-Dwelling Subjects. <i>Stroke</i> , 2016, 47, 410-416.	2.0	35
304	Boutiques: a flexible framework to integrate command-line applications in computing platforms. <i>GigaScience</i> , 2018, 7, .	6.4	35
305	Mutations associated with neuropsychiatric conditions delineate functional brain connectivity dimensions contributing to autism and schizophrenia. <i>Nature Communications</i> , 2020, 11, 5272.	12.8	35
306	Surface-Based Texture and Morphological Analysis Detects Subtle Cortical Dysplasia. <i>Lecture Notes in Computer Science</i> , 2008, 11, 645-652.	1.3	34

#	ARTICLE	IF	CITATIONS
307	Effects of the Val158Met catechol-O-methyltransferase polymorphism on cortical structure in children and adolescents. <i>Molecular Psychiatry</i> , 2009, 14, 348-349.	7.9	34
308	Attention Performance Measured by Attention Network Test Is Correlated with Global and Regional Efficiency of Structural Brain Networks. <i>Frontiers in Behavioral Neuroscience</i> , 2016, 10, 194.	2.0	34
309	Development of cortical shape in the human brain from 6 to 24months of age via a novel measure of shape complexity. <i>NeuroImage</i> , 2016, 135, 163-176.	4.2	33
310	Registered access: authorizing data access. <i>European Journal of Human Genetics</i> , 2018, 26, 1721-1731.	2.8	33
311	Altered hippocampal GABA and glutamate levels and uncoupling from functional connectivity in multiple sclerosis. <i>Hippocampus</i> , 2018, 28, 813-823.	1.9	33
312	Multimodal imaging-based therapeutic fingerprints for optimizing personalized interventions: Application to neurodegeneration. <i>NeuroImage</i> , 2018, 179, 40-50.	4.2	33
313	Evidence for a cerebral cortical thickness network anti-correlated with amygdalar volume in healthy youths: Implications for the neural substrates of emotion regulation. <i>NeuroImage</i> , 2013, 71, 42-49.	4.2	32
314	Gene networks show associations with seed region connectivity. <i>Human Brain Mapping</i> , 2017, 38, 3126-3140.	3.6	32
315	Apolipoprotein E ϵ 4 Modulates Cognitive Profiles, Hippocampal Volume, and Resting-State Functional Connectivity in Alzheimer's Disease. <i>Journal of Alzheimer's Disease</i> , 2015, 45, 781-795.	2.6	31
316	Test-retest reliability of Diffusion Tensor Imaging metrics in neonates. <i>NeuroImage</i> , 2019, 197, 598-607.	4.2	31
317	Patterns of cortical thinning in Alzheimer's disease and frontotemporal dementia. <i>Neurobiology of Aging</i> , 2009, 30, 1626-1636.	3.1	30
318	Investigating the relation between striatal volume and IQ. <i>Brain Imaging and Behavior</i> , 2014, 8, 52-59.	2.1	30
319	Neuroanatomical correlates of behavioral rating versus performance measures of working memory in typically developing children and adolescents.. <i>Neuropsychology</i> , 2015, 29, 82-91.	1.3	30
320	Test-retest resting-state fMRI in healthy elderly persons with a family history of Alzheimer's disease. <i>Scientific Data</i> , 2015, 2, 150043.	5.3	30
321	Anxious/depressed symptoms are related to microstructural maturation of white matter in typically developing youths. <i>Development and Psychopathology</i> , 2017, 29, 751-758.	2.3	30
322	3-D Brain MRI Tissue Classification on FPGAs. <i>IEEE Transactions on Image Processing</i> , 2009, 18, 2735-2746.	9.8	29
323	Patterns of cortical degeneration in an elderly cohort with cerebral small vessel disease. <i>Human Brain Mapping</i> , 2010, 31, 1983-1992.	3.6	29
324	Spectral-based automatic labeling and refining of human cortical sulcal curves using expert-provided examples. <i>NeuroImage</i> , 2010, 52, 142-157.	4.2	29

#	ARTICLE	IF	CITATIONS
325	Adaptive prior probability and spatial temporal intensity change estimation for segmentation of the one-year-old human brain. <i>Journal of Neuroscience Methods</i> , 2013, 212, 43-55.	2.5	29
326	Exploring Individual Brain Variability during Development based on Patterns of Maturational Coupling of Cortical Thickness: A Longitudinal MRI Study. <i>Cerebral Cortex</i> , 2019, 29, 178-188.	2.9	29
327	Cyberinfrastructure for Open Science at the Montreal Neurological Institute. <i>Frontiers in Neuroinformatics</i> , 2016, 10, 53.	2.5	28
328	Effects of Lewy body disease and Alzheimer disease on brain atrophy and cognitive dysfunction. <i>Neurology</i> , 2019, 92, e2015-e2026.	1.1	28
329	Offering to Share: How to Put Heads Together in Autism Neuroimaging. <i>Journal of Autism and Developmental Disorders</i> , 2008, 38, 2-13.	2.7	27
330	Data-driven approaches for tau-PET imaging biomarkers in Alzheimer's disease. <i>Human Brain Mapping</i> , 2019, 40, 638-651.	3.6	27
331	Automated Estimation of Brain Volume in Multiple Sclerosis with BICCR. <i>Lecture Notes in Computer Science</i> , 2001, , 141-147.	1.3	27
332	Structural insights into aberrant cortical morphometry and network organization in psychogenic erectile dysfunction. <i>Human Brain Mapping</i> , 2015, 36, 4469-4482.	3.6	26
333	Enhanced structural connectivity within a brain sub-network supporting working memory and engagement processes after cognitive training. <i>Neurobiology of Learning and Memory</i> , 2017, 141, 33-43.	1.9	26
334	Developmental changes of cortical white-gray contrast as predictors of autism diagnosis and severity. <i>Translational Psychiatry</i> , 2018, 8, 249.	4.8	25
335	Amyloid- β -related and unrelated cortical thinning in dementia with Lewy bodies. <i>Neurobiology of Aging</i> , 2018, 72, 32-39.	3.1	25
336	The Importance of Temperament for Understanding Early Manifestations of Autism Spectrum Disorder in High-Risk Infants. <i>Journal of Autism and Developmental Disorders</i> , 2019, 49, 2849-2863.	2.7	25
337	Cortical and subcortical T1 white/gray contrast, chronological age, and cognitive performance. <i>NeuroImage</i> , 2019, 196, 276-288.	4.2	25
338	Newborn amygdalar volumes are associated with maternal prenatal psychological distress in a sex-dependent way. <i>NeuroImage: Clinical</i> , 2020, 28, 102380.	2.7	25
339	The Cuban Human Brain Mapping Project, a young and middle age population-based EEG, MRI, and cognition dataset. <i>Scientific Data</i> , 2021, 8, 45.	5.3	25
340	A seed-based cross-modal comparison of brain connectivity measures. <i>Brain Structure and Function</i> , 2017, 222, 1131-1151.	2.3	24
341	Individual Differences in Frontal Cortical Thickness Correlate with the d-Amphetamine-Induced Striatal Dopamine Response in Humans. <i>Journal of Neuroscience</i> , 2013, 33, 15285-15294.	3.6	22
342	β -Amyloid is Associated with Aberrant Metabolic Connectivity in Subjects with Mild Cognitive Impairment. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2014, 34, 1169-1179.	4.3	22

#	ARTICLE	IF	CITATIONS
343	Surface-based partial-volume correction for high-resolution PET. <i>NeuroImage</i> , 2014, 102, 674-687.	4.2	22
344	Effects of delaying binge drinking on adolescent brain development: a longitudinal neuroimaging study. <i>BMC Psychiatry</i> , 2016, 16, 445.	2.6	22
345	Widespread associations between trait conscientiousness and thickness of brain cortical regions. <i>NeuroImage</i> , 2018, 176, 22-28.	4.2	22
346	White matter microstructure is associated with hyperactive/inattentive symptomatology and polygenic risk for attention-deficit/hyperactivity disorder in a population-based sample of adolescents. <i>Neuropsychopharmacology</i> , 2019, 44, 1597-1603.	5.4	22
347	Thinning of the Motorâ€“Cingulateâ€“Insular Cortices in Siblings Concordant for Tourette Syndrome. <i>Brain Topography</i> , 2009, 22, 176-184.	1.8	21
348	Cognition and lobar morphology in full mutation boys with fragile X syndrome. <i>Brain and Cognition</i> , 2011, 78, 74-84.	1.8	21
349	Characterizing brain iron deposition in subcortical ischemic vascular dementia using susceptibility-weighted imaging: An in vivo MR study. <i>Behavioural Brain Research</i> , 2015, 288, 33-38.	2.2	21
350	Scaling in topological properties of brain networks. <i>Scientific Reports</i> , 2016, 6, 24926.	3.3	21
351	FDG-PET imaging for the evaluation of anti-glioma agents in a rat model. <i>Neuro-Oncology</i> , 2008, 10, 292-299.	1.2	20
352	Cerebellar malformations alter regional cerebral development. <i>Developmental Medicine and Child Neurology</i> , 2011, 53, 1128-1134.	2.1	20
353	Parental Age Effects on Cortical Morphology in Offspring. <i>Cerebral Cortex</i> , 2012, 22, 1256-1262.	2.9	20
354	Impact of scale space search on age- and gender-related changes in MRI-based cortical morphometry. <i>Human Brain Mapping</i> , 2013, 34, 2113-2128.	3.6	20
355	Aberrant Topological Patterns of Structural Cortical Networks in Psychogenic Erectile Dysfunction. <i>Frontiers in Human Neuroscience</i> , 2015, 9, 675.	2.0	20
356	Language Ability Predicts Cortical Structure and Covariance in Boys with Autism Spectrum Disorder. <i>Cerebral Cortex</i> , 2017, 27, bhw024.	2.9	20
357	Gray matter responsiveness to adaptive working memory training: a surface-based morphometry study. <i>Brain Structure and Function</i> , 2016, 221, 4369-4382.	2.3	20
358	Association between carotid atheroma and cerebral cortex structure at age 73 years. <i>Annals of Neurology</i> , 2018, 84, 576-587.	5.3	20
359	Detrimental effect of type 2 diabetes mellitus in a large case series of Parkinson's disease. <i>Parkinsonism and Related Disorders</i> , 2019, 64, 54-59.	2.2	20
360	Neural correlates of polygenic risk score for autism spectrum disorders in general population. <i>Brain Communications</i> , 2020, 2, fcaa092.	3.3	20

#	ARTICLE	IF	CITATIONS
361	Automated Analysis of Multi Site MRI Phantom Data for the NIHPD Project. <i>Lecture Notes in Computer Science</i> , 2006, 9, 144-151.	1.3	20
362	Long-range functional connections mirror and link microarchitectural and cognitive hierarchies in the human brain. <i>Cerebral Cortex</i> , 2023, 33, 1782-1798.	2.9	20
363	Hierarchical Multivariate Covariance Analysis of Metabolic Connectivity. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2014, 34, 1936-1943.	4.3	19
364	Heritable changes in regional cortical thickness with age. <i>Brain Imaging and Behavior</i> , 2014, 8, 208-216.	2.1	19
365	The Effects of an <i>APOE</i> Promoter Polymorphism on Human Cortical Morphology during Nondemented Aging. <i>Journal of Neuroscience</i> , 2015, 35, 1423-1431.	3.6	19
366	The Multiple-Demand System in the Novelty of Musical Improvisation: Evidence from an MRI Study on Composers. <i>Frontiers in Neuroscience</i> , 2017, 11, 695.	2.8	19
367	Resting EEG effective connectivity at the sources in developmental dysphonetic dyslexia. Differences with non-specific reading delay. <i>International Journal of Psychophysiology</i> , 2020, 153, 135-147.	1.0	19
368	Bootstrap generation and evaluation of an fMRI simulation database. <i>Magnetic Resonance Imaging</i> , 2009, 27, 1382-1396.	1.8	18
369	Brain Morphology in Autism and Fragile X Syndrome Correlates With Social IQ: First Report From the Canadian-Swiss-Egyptian Neurodevelopmental Study. <i>Journal of Child Neurology</i> , 2010, 25, 599-608.	1.4	18
370	Diffusion imaging quality control via entropy of principal direction distribution. <i>NeuroImage</i> , 2013, 82, 1-12.	4.2	18
371	The pattern of brain gray matter impairments in patients with subcortical vascular dementia. <i>Journal of the Neurological Sciences</i> , 2014, 341, 110-118.	0.6	18
372	Robust estimation of group-wise cortical correspondence with an application to macaque and human neuroimaging studies. <i>Frontiers in Neuroscience</i> , 2015, 9, 210.	2.8	18
373	Defining a multimodal signature of remote sports concussions. <i>European Journal of Neuroscience</i> , 2017, 46, 1956-1967.	2.6	18
374	Mapping Convergent and Divergent Cortical Thinning Patterns in Patients With Deficit and Nondeficit Schizophrenia. <i>Schizophrenia Bulletin</i> , 2019, 45, 211-221.	4.3	18
375	Quantitative trait variation in ASD probands and toddler sibling outcomes at 24 months. <i>Journal of Neurodevelopmental Disorders</i> , 2020, 12, 5.	3.1	18
376	Region-specific reduction in brain volume in young adults with perinatal hypoxic-ischaemic encephalopathy. <i>European Journal of Paediatric Neurology</i> , 2013, 17, 608-614.	1.6	17
377	Structural Associations of Cortical Contrast and Thickness in First Episode Psychosis. <i>Cerebral Cortex</i> , 2019, 29, 5009-5021.	2.9	17
378	National Neuroinformatics Framework for Canadian Consortium on Neurodegeneration in Aging (CCNA). <i>Frontiers in Neuroinformatics</i> , 2018, 12, 85.	2.5	16

#	ARTICLE	IF	CITATIONS
379	Spontaneous neural activity changes after bariatric surgery: A resting-state fMRI study. <i>NeuroImage</i> , 2021, 241, 118419.	4.2	16
380	General absence of abnormal cortical asymmetry in childhood-onset schizophrenia: A longitudinal study. <i>Schizophrenia Research</i> , 2009, 115, 12-16.	2.0	15
381	The NeuroDevNet Autism Spectrum Disorders Demonstration Project. <i>Seminars in Pediatric Neurology</i> , 2011, 18, 40-48.	2.0	15
382	Mild traumatic brain injury: The effect of age at trauma onset on brain structure integrity. <i>NeuroImage: Clinical</i> , 2019, 23, 101907.	2.7	15
383	Neurological and Magnetic Resonance Imaging Findings in Children With Developmental Language Impairment. <i>Journal of Child Neurology</i> , 2008, 23, 870-877.	1.4	14
384	Progressive Thinning of Visual Motion Area in Lower Limb Amputees. <i>Frontiers in Human Neuroscience</i> , 2016, 10, 79.	2.0	14
385	The vascular facet of late-onset Alzheimer's disease: an essential factor in a complex multifactorial disorder. <i>Current Opinion in Neurology</i> , 2017, 30, 623-629.	3.6	14
386	CIVET-Macaque: An automated pipeline for MRI-based cortical surface generation and cortical thickness in macaques. <i>NeuroImage</i> , 2021, 227, 117622.	4.2	14
387	Robust S1, S2, and thalamic activations in individual subjects with vibrotactile stimulation at 1.5 and 3.0 T. <i>Human Brain Mapping</i> , 2009, 30, 1328-1337.	3.6	13
388	Integration of a neuroimaging processing pipeline into a pan-canadian computing grid. <i>Journal of Physics: Conference Series</i> , 2012, 341, 012032.	0.4	13
389	Software architectures to integrate workflow engines in science gateways. <i>Future Generation Computer Systems</i> , 2017, 75, 239-255.	7.5	13
390	Differential Associations between Cortical Thickness and Striatal Dopamine in Treatment-Naïve Adults with ADHD vs. Healthy Controls. <i>Frontiers in Human Neuroscience</i> , 2017, 11, 421.	2.0	13
391	Distinct influence of parental occupation on cortical thickness and surface area in children and adolescents: Relation to self-esteem. <i>Human Brain Mapping</i> , 2020, 41, 5097-5113.	3.6	13
392	Comparing perturbation models for evaluating stability of neuroimaging pipelines. <i>International Journal of High Performance Computing Applications</i> , 2020, 34, 491-501.	3.7	13
393	Oriented Morphometry of Folds on Surfaces. <i>Lecture Notes in Computer Science</i> , 2009, 21, 614-625.	1.3	13
394	Impact of weight loss on brain age: Improved brain health following bariatric surgery. <i>NeuroImage</i> , 2022, 259, 119415.	4.2	13
395	Creation and Application of a Simulated Database of Dynamic [^{18}F]MPPF PET Acquisitions Incorporating Inter-Individual Anatomical and Biological Variability. <i>IEEE Transactions on Medical Imaging</i> , 2006, 25, 1431-1439.	8.9	12
396	Automatic detection of subtle focal cortical dysplasia using surface-based features on MRI. , 2008, , .		12

#	ARTICLE	IF	CITATIONS
397	Abnormal motor cortex excitability is associated with reduced cortical thickness in X monosomy. <i>Human Brain Mapping</i> , 2013, 34, 936-944.	3.6	12
398	APPIAN: Automated Pipeline for PET Image Analysis. <i>Frontiers in Neuroinformatics</i> , 2018, 12, 64.	2.5	12
399	A Serverless Tool for Platform Agnostic Computational Experiment Management. <i>Frontiers in Neuroinformatics</i> , 2019, 13, 12.	2.5	12
400	A Quantitative EEG Toolbox for the MNI Neuroinformatics Ecosystem: Normative SPM of EEG Source Spectra. <i>Frontiers in Neuroinformatics</i> , 2020, 14, 33.	2.5	12
401	EEG-IP: an international infant EEG data integration platform for the study of risk and resilience in autism and related conditions. <i>Molecular Medicine</i> , 2020, 26, 40.	4.4	12
402	EEG effective connectivity during the first year of life mirrors brain synaptogenesis, myelination, and early right hemisphere predominance. <i>NeuroImage</i> , 2022, 252, 119035.	4.2	12
403	The impact of sampling density upon cortical network analysis: regions or points. <i>Magnetic Resonance Imaging</i> , 2012, 30, 978-992.	1.8	11
404	Segmentation of nuclei in digital pathology images. , 2016, , .		11
405	Effects of Long-term Diving Training on Cortical Gyrfication. <i>Scientific Reports</i> , 2016, 6, 28243.	3.3	11
406	Mesolimbic connectivity signatures of impulsivity and BMI in early adolescence. <i>Appetite</i> , 2019, 132, 25-36.	3.7	11
407	WeBrain: A web-based brainformatics platform of computational ecosystem for EEG big data analysis. <i>NeuroImage</i> , 2021, 245, 118713.	4.2	11
408	Assessing neuronal density in periaâ€¢infarct cortex with PET: Effects of cortical topology and partial volume correction. <i>Human Brain Mapping</i> , 2017, 38, 326-338.	3.6	10
409	Indices of repetitive behaviour are correlated with patterns of intrinsic functional connectivity in youth with autism spectrum disorder. <i>Brain Research</i> , 2018, 1685, 79-90.	2.2	10
410	Brain status modeling with non-negative projective dictionary learning. <i>NeuroImage</i> , 2020, 206, 116226.	4.2	10
411	Sexâ€¢specific association between infant caudate volumes and a polygenic risk score for major depressive disorder. <i>Journal of Neuroscience Research</i> , 2020, 98, 2529-2540.	2.9	10
412	Robust Cortical Thickness Morphometry of Neonatal Brain and Systematic Evaluation Using Multi-Site MRI Datasets. <i>Frontiers in Neuroscience</i> , 2021, 15, 650082.	2.8	10
413	Convolutional neural networks for cytoarchitectonic brain mapping at large scale. <i>NeuroImage</i> , 2021, 240, 118327.	4.2	10
414	A sub+cortical fMRIâ€¢based surface parcellation. <i>Human Brain Mapping</i> , 2022, 43, 616-632.	3.6	10

#	ARTICLE	IF	CITATIONS
415	Association of β -Amyloid and Basal Forebrain With Cortical Thickness and Cognition in Alzheimer and Lewy Body Disease Spectra. <i>Neurology</i> , 2022, 98, .	1.1	10
416	Time-efficient and convenient synthesis of [18F]altanserin for human PET imaging by a new work-up procedure. <i>Applied Radiation and Isotopes</i> , 2009, 67, 2040-2043.	1.5	9
417	Erratum to "Positive association between cognitive ability and cortical thickness in a representative US sample of healthy 6 to 18 year-olds" [<i>Intelligence</i> 37/2 145-155]. <i>Intelligence</i> , 2009, 37, 431.	3.0	9
418	A Skeleton and Deformation Based Model for Neonatal Pial Surface Reconstruction in Preterm Newborns. , 2019, , .		9
419	Maturational trajectories of pericortical contrast in typical brain development. <i>NeuroImage</i> , 2021, 235, 117974.	4.2	9
420	EEG measures for clinical research in major vascular cognitive impairment: recommendations by an expert panel. <i>Neurobiology of Aging</i> , 2021, 103, 78-97.	3.1	9
421	A Novel Quantitative Validation of the Cortical Surface Reconstruction Algorithm Using MRI Phantom: Issues on Local Geometric Accuracy and Cortical Thickness. <i>Lecture Notes in Computer Science</i> , 2006, 9, 183-190.	1.3	9
422	Group-Wise Cortical Correspondence via Sulcal Curve-Constrained Entropy Minimization. <i>Lecture Notes in Computer Science</i> , 2013, 23, 364-375.	1.3	9
423	Harmonized-Multinational qEEG norms (HarMNqEEG). <i>NeuroImage</i> , 2022, 256, 119190.	4.2	9
424	Magnetic resonance imaging of healthy and diseased brain networks. <i>Frontiers in Human Neuroscience</i> , 2014, 8, 890.	2.0	8
425	Cortical thickness correlates of socioemotional difficulties in adults with Turner syndrome. <i>Psychoneuroendocrinology</i> , 2014, 44, 30-34.	2.7	8
426	An analytic approach for interpretable predictive models in high-dimensional data in the presence of interactions with exposures. <i>Genetic Epidemiology</i> , 2018, 42, 233-249.	1.3	8
427	A five-year longitudinal study reveals progressive cortical thinning in narcolepsy and faster cortical thinning in relation to early-onset. <i>Brain Imaging and Behavior</i> , 2020, 14, 200-212.	2.1	8
428	A voxel-wise assessment of growth differences in infants developing autism spectrum disorder. <i>NeuroImage: Clinical</i> , 2021, 29, 102551.	2.7	8
429	Anisotropic Diffusion of Tensor Fields for Fold Shape Analysis on Surfaces. <i>Lecture Notes in Computer Science</i> , 2011, 22, 271-282.	1.3	8
430	File-based localization of numerical perturbations in data analysis pipelines. <i>GigaScience</i> , 2020, 9, .	6.4	8
431	Early protein energy malnutrition impacts life-long developmental trajectories of the sources of EEG rhythmic activity. <i>NeuroImage</i> , 2022, 254, 119144.	4.2	8
432	Three-dimensional reconstruction of serial histological mouse brain sections. , 2008, , .		7

#	ARTICLE	IF	CITATIONS
433	Latin American Brain Mapping Network (LABMAN). <i>NeuroImage</i> , 2009, 47, 312-313.	4.2	7
434	Implication of metabolic and dopamine transporter PET in dementia with Lewy bodies. <i>Scientific Reports</i> , 2021, 11, 14394.	3.3	7
435	Accelerating a Medical 3D Brain MRI Analysis Algorithm using a High-Performance Reconfigurable Computer. , 2007, , .		6
436	A new template to study callosal growth shows specific growth in anterior and posterior regions of the corpus callosum in early childhood. <i>European Journal of Neuroscience</i> , 2015, 42, 1675-1684.	2.6	6
437	Integration of "omics" Data and Phenotypic Data Within a Unified Extensible Multimodal Framework. <i>Frontiers in Neuroinformatics</i> , 2018, 12, 91.	2.5	6
438	Altered hippocampal centrality and dynamic anatomical covariance of intracortical microstructure in first episode psychosis. <i>Hippocampus</i> , 2020, 30, 1058-1072.	1.9	6
439	Changes in peri-calcarine cortical thickness in blindsight. <i>Neuropsychologia</i> , 2020, 143, 107463.	1.6	6
440	Association vs. Prediction: The Impact of Cortical Surface Smoothing and Parcellation on Brain Age. <i>Frontiers in Big Data</i> , 2021, 4, 637724.	2.9	6
441	The C-BIG Repository: an Institution-Level Open Science Platform. <i>Neuroinformatics</i> , 2021, , 1.	2.8	6
442	A Probabilistic Approach for Mapping the Human Brain. , 2000, , 141-156.		5
443	Human Cortical Anatomical Networks Assessed by Structural MRI. <i>Brain Imaging and Behavior</i> , 2008, 2, 289-299.	2.1	5
444	The neuroanatomy of the autistic phenotype. <i>Research in Autism Spectrum Disorders</i> , 2012, 6, 898-906.	1.5	5
445	Cortical correspondence via sulcal curve-constrained spherical registration with application to Macaque studies. , 2013, 8669, .		5
446	Amygdalar reactivity is associated with prefrontal cortical thickness in a large population-based sample of adolescents. <i>PLoS ONE</i> , 2019, 14, e0216152.	2.5	5
447	Intersection of verbal memory and expressivity on cortical contrast and thickness in first episode psychosis. <i>Psychological Medicine</i> , 2020, 50, 1923-1936.	4.5	5
448	Interaction of CSF τ and α -synuclein and amyloid beta in cognition and cortical atrophy. <i>Alzheimer's and Dementia: Diagnosis, Assessment and Disease Monitoring</i> , 2021, 13, e12177.	2.4	5
449	A call for international research on COVID-19-induced brain dysfunctions. <i>National Science Review</i> , 2021, 8, nwab190.	9.5	5
450	Robust brain MR image compressive sensing via re-weighted total variation and sparse regression. <i>Magnetic Resonance Imaging</i> , 2022, 85, 271-286.	1.8	5

#	ARTICLE	IF	CITATIONS
451	Deep Discriminative Learning for Autism Spectrum Disorder Classification. Lecture Notes in Computer Science, 2020, , 435-443.	1.3	5
452	Neural Correlates of Attention-Deficit/Hyperactivity Disorder in Adulthood. Biological Psychiatry, 2013, 74, 558-559.	1.3	4
453	NEOCIVET: Extraction of Cortical Surface and Analysis of Neonatal Gyrfication Using a Modified CIVET Pipeline. Lecture Notes in Computer Science, 2015, , 571-579.	1.3	4
454	Neural Correlates of Cognitive Performance in Alzheimer's Disease- and Lewy Bodies-Related Cognitive Impairment. Journal of Alzheimer's Disease, 2020, 73, 873-885.	2.6	4
455	The LORIS MyeliNeuroGene rare disease database for natural history studies and clinical trial readiness. Orphanet Journal of Rare Diseases, 2021, 16, 328.	2.7	4
456	Longitudinal Prediction of Infant MR Images With Multi-Contrast Perceptual Adversarial Learning. Frontiers in Neuroscience, 2021, 15, 653213.	2.8	4
457	Brain Status Prediction with Non-negative Projective Dictionary Learning. Lecture Notes in Computer Science, 2018, , 152-160.	1.3	4
458	Numerical uncertainty in analytical pipelines lead to impactful variability in brain networks. PLoS ONE, 2021, 16, e0250755.	2.5	4
459	Medial temporal lobe and basal ganglia volume trajectories in persistent negative symptoms following a first episode of psychosis. Progress in Neuro-Psychopharmacology and Biological Psychiatry, 2022, 117, 110551.	4.8	4
460	Commentary on "Spatial regulation and normalization of images" by Friston et al.. Human Brain Mapping, 1995, 3, 254-256.	3.6	3
461	Accounting for singles rate related phenomena in PET Monte Carlo-based simulations. , 0, , .		3
462	Development of fMRI techniques for planning in functional neurosurgery for Parkinson's disease. , 2008, , .		3
463	A Tribute to: Keith Worsley " 1951-2009. NeuroImage, 2009, 46, 891-894.	4.2	3
464	The Relationship between Social Defiance, Vindictiveness, Anger, and Brain Morphology in Eight-Year-Old Boys and Girls. Social Development, 2012, 21, 592-609.	1.3	3
465	Controlling the Deployment of Virtual Machines on Clusters and Clouds for Scientific Computing in CBRAIN. , 2014, , .		3
466	A High-Resolution Model of the Human Entorhinal Cortex in the "BigBrain" Use Case for Machine Learning and 3D Analyses. Lecture Notes in Computer Science, 2021, , 3-21.	1.3	3
467	Modeling and Analysis Brain Development via Discriminative Dictionary Learning. Lecture Notes in Computer Science, 2019, , 80-88.	1.3	3
468	CAPTURE ALS: the comprehensive analysis platform to understand, remedy and eliminate ALS. Amyotrophic Lateral Sclerosis and Frontotemporal Degeneration, 2022, , 1-7.	1.7	3

#	ARTICLE	IF	CITATIONS
469	A Prospective Evaluation of Infant Cerebellar-Cerebral Functional Connectivity in Relation to Behavioral Development in Autism Spectrum Disorder. <i>Biological Psychiatry Global Open Science</i> , 2023, 3, 149-161.	2.2	3
470	A Discrete Differential Operator for Direction-based Surface Morphometry. , 2007, , .		2
471	Novel \hat{I}^2 -galactosidase-specific O ₂ -glycosylated diazeniumdiolate probes. <i>Canadian Journal of Chemistry</i> , 2010, 88, 969-980.	1.1	2
472	3D Localization of Neurons in Bright-Field Histological Images. , 2018, , .		2
473	A Novel Method for High-Dimensional Anatomical Mapping of Extra-Axial Cerebrospinal Fluid: Application to the Infant Brain. <i>Frontiers in Neuroscience</i> , 2020, 14, 561556.	2.8	2
474	Effect of Alzheimer's Disease and Lewy Body Disease on Metabolic Changes. <i>Journal of Alzheimer's Disease</i> , 2021, 79, 1471-1487.	2.6	2
475	PK11195 binding to the peripheral benzodiazepine receptor as a marker of microglia activation in multiple sclerosis and experimental autoimmune encephalomyelitis. <i>Journal of Neuroscience Research</i> , 1997, 50, 345-353.	2.9	2
476	Realistic Simulated MRI and SPECT Databases. <i>Lecture Notes in Computer Science</i> , 2006, 9, 330-337.	1.3	2
477	Anterior to posterior limb of the internal capsule morphology in fragile X syndrome. <i>Developmental Medicine and Child Neurology</i> , 2009, 51, 839-840.	2.1	1
478	EVIDENCE FOR WIDESPREAD THINNING OF THE CEREBRAL CORTEX IN PATIENTS WITH FIRST-EPIISODE PSYCHOSIS WITH POOR INSIGHT. <i>Schizophrenia Research</i> , 2010, 117, 224.	2.0	1
479	The NeuroDevNet Neuroinformatics Core. <i>Seminars in Pediatric Neurology</i> , 2011, 18, 17-20.	2.0	1
480	ISDN2014_0317: Auditory cortical structure predicts superior pitch processing in children with autism. <i>International Journal of Developmental Neuroscience</i> , 2015, 47, 96-97.	1.6	1
481	O7.2. ALTERED HIPPOCAMPAL CENTRALITY IN RELATION TO COORDINATED CHANGES OF INTRACORTICAL MICROSTRUCTURE IN FIRST EPISODE PSYCHOSIS. <i>Schizophrenia Bulletin</i> , 2019, 45, S179-S180.	4.3	1
482	Alterations of cortical thickness and gray-white matter contrast in Alzheimer's disease and Lewy body-related cognitive impairment. <i>Alzheimer's and Dementia</i> , 2020, 16, e041245.	0.8	1
483	Networks-Mediated Spreading of Pathology in Neurodegenerative Diseases. , 2021, , 171-186.		1
484	AutoEncoder for Neuroimage. <i>Lecture Notes in Computer Science</i> , 2021, , 84-90.	1.3	1
485	Data Augmentation Through Monte Carlo Arithmetic Leads to More Generalizable Classification in Connectomics. <i>Neurons, Behavior, Data Analysis, and Theory</i> , 0, 1, .	1.2	1
486	A Texture Manifold for Curve-Based Morphometry of the Cerebral Cortex. <i>Lecture Notes in Computer Science</i> , 2011, , 174-183.	1.3	1

#	ARTICLE	IF	CITATIONS
487	BigBrain: Automated Cortical Parcellation and Comparison with Existing Brain Atlases. Lecture Notes in Computer Science, 2017, , 14-25.	1.3	1
488	Applications of random field theory to functional connectivity. Human Brain Mapping, 1998, 6, 364-367.	3.6	1
489	Neural substrates of eye tracking deficits in relatives of schizophrenics. Biological Psychiatry, 1996, 39, 573.	1.3	0
490	Analytical modeling of PET imaging with correlated functional and structural images. , 0, , .		0
491	Thresholding non-stationary SPMs with an application to cortical surface mapping. NeuroImage, 2001, 13, 264.	4.2	0
492	Development and use of a kinetic FDG-PET dataset simulated from the MNI standard brain. , 2006, , .		0
493	Dealing with uncertainty in the principal directions of tensors. , 2008, , .		0
494	Structural Neural Correlates of Memory Performance in Schizophrenia as Revealed by Cortical Thickness. European Psychiatry, 2009, 24, .	0.2	0
495	MAPPING RELIABILITY OF MULTICENTER MRI: CORTICAL THICKNESS AND VOXEL-BASED MORPHOMETRY. Schizophrenia Research, 2010, 117, 461.	2.0	0
496	ISDN2014_0416: LORIS: Enhanced tools for data management in neurodevelopmental studies. International Journal of Developmental Neuroscience, 2015, 47, 125-125.	1.6	0
497	ISDN2014_0401: Atypical thalamo-cortical resting-state connectivity is correlated with repetitive behaviours in autism spectrum disorder. International Journal of Developmental Neuroscience, 2015, 47, 120-120.	1.6	0
498	ISDN2014_0429: Network inefficiencies and brain overgrowth in autism spectrum disorder. International Journal of Developmental Neuroscience, 2015, 47, 129-129.	1.6	0
499	Classifications of Computing Sites to Handle Numerical Variability. , 2015, , .		0
500	ISDN2014_0179: Individual subject-based maturational coupling as indicator of brain development: A longitudinal MRI study. International Journal of Developmental Neuroscience, 2015, 47, 52-52.	1.6	0
501	ISDN2014_0248: Neuroanatomical correlates of auditory-motor synchronization in children with autism. International Journal of Developmental Neuroscience, 2015, 47, 74-74.	1.6	0
502	Nipype interfaces in CBRAIN. GigaScience, 2016, 5, .	6.4	0
503	966. Cortical Gray-White Matter Contrast Underlying Negative Symptoms and Verbal Memory in First Episode Psychosis. Biological Psychiatry, 2017, 81, S391.	1.3	0
504	Understanding brain development: a major step. Lancet Neurology, The, 2017, 16, 178-179.	10.2	0

#	ARTICLE	IF	CITATIONS
505	P3â€413: HETEROGENEOUS TAUâ€PET SIGNAL IN THE HIPPOCAMPUS HELPS RESOLVE DISCREPANCIES BETWEEN IMAGING AND PATHOLOGY. Alzheimer's and Dementia, 2018, 14, P1263.	0.8	0
506	P1â€148: THE EFFECT OF PROTON PUMP INHIBITORS AND <i>CYP2C19</i> ON AMYLOID PATHOLOGY. Alzheimer's and Dementia, 2018, 14, P333.	0.8	0
507	ICâ€Pâ€063: THE EFFECT OF PROTON PUMP INHIBITORS AND CYP2C19 ON AMYLOID PATHOLOGY. Alzheimer's and Dementia, 2018, 14, P58.	0.8	0
508	ICâ€Pâ€224: HETEROGENEOUS TAUâ€PET SIGNAL IN THE HIPPOCAMPUS HELPS RESOLVE DISCREPANCIES BETWEEN IMAGING AND PATHOLOGY. Alzheimer's and Dementia, 2018, 14, P182.	0.8	0
509	191. Mirror Effects of 4 Neurodevelopmental CNVs on Functional Connectivity and Implication for Idiopathic Autism. Biological Psychiatry, 2019, 85, S79.	1.3	0
510	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.	4.3	0
511	Cover Image, Volume 30, Issue 10. Hippocampus, 2020, 30, C1.	1.9	0
512	Probing Myelin in First Episode of Psychosis With MRI: A Framework to Understand Negative Symptoms and Verbal Memory. Biological Psychiatry, 2020, 87, S101.	1.3	0
513	Research Consortia and Large-Scale Data Repositories for Studying Intelligence. , 2021, , 70-82.		0
514	A Simulation Toolkit for Testing the Sensitivity and Accuracy of Corticometry Pipelines. Frontiers in Neuroinformatics, 2021, 15, 665560.	2.5	0
515	Local Statistics on Shape Diffeomorphisms Using a Depth Potential Function. Computational Imaging and Vision, 2012, , 193-206.	0.6	0
516	Novel Vector-Valued Approach to Automatic Brain Tissue Classification. Lecture Notes in Computer Science, 2013, , 70-81.	1.3	0
517	General cognitive ability and pericortical contrast. Intelligence, 2022, 91, 101633.	3.0	0
518	The relationship between brainâ€age association and prediction: The impact of parameter selection. Alzheimer's and Dementia, 2021, 17, .	0.8	0