Arthur W Toga

List of Publications by Citations

259 papers	23,904 citations	62 h-index	153 g-index
298 ext. papers	29,047 ext. citations	7 avg, IF	6.62 L-index

#	Paper	IF	Citations
259	Dynamic mapping of human cortical development during childhood through early adulthood. *Proceedings of the National Academy of Sciences of the United States of America*, **2004**, 101, 8174-9	11.5	3862
258	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
257	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
256	Blood-brain barrier breakdown in the aging human hippocampus. *Neuron*, **2015**, 85, 296-302	13.9	1023
255	Mapping brain asymmetry. *Nature Reviews Neuroscience*, **2003**, 4, 37-48	13.5	981
254	Genetic influences on brain structure. *Nature Neuroscience*, **2001**, 4, 1253-8	25.5	867
253	The Parkinson Progression Marker Initiative (PPMI). *Progress in Neurobiology*, **2011**, 95, 629-35	10.9	793
252	Growth patterns in the developing brain detected by using continuum mechanical tensor maps. *Nature*, **2000**, 404, 190-3	50.4	690
251	Mapping brain maturation. *Trends in Neurosciences*, **2006**, 29, 148-59	13.3	620
250	Common genetic variants influence human subcortical brain structures. *Nature*, **2015**, 520, 224-9	50.4	601
249	Blood-brain barrier breakdown is an early biomarker of human cognitive dysfunction. *Nature Medicine*, **2019**, 25, 270-276	50.5	577
248	Identification of common variants associated with human hippocampal and intracranial volumes. *Nature Genetics*, **2012**, 44, 552-61	36.3	498
247	Mapping hippocampal and ventricular change in Alzheimer disease. *NeuroImage*, **2004**, 22, 1754-66	7.9	467
246	Neural networks of the mouse neocortex. *Cell*, **2014**, 156, 1096-111	56.2	454
245	APOE4 leads to blood-brain barrier dysfunction predicting cognitive decline. *Nature*, **2020**, 581, 71-76	50.4	356
244	The role of brain vasculature in neurodegenerative disorders. *Nature Neuroscience*, **2018**, 21, 1318-1331	25.5	338
243	The Alzheimer's disease neuroimaging initiative: progress report and future plans. *Alzheimer's and Dementia*, **2010**, 6, 202-11.e7	1.2	332

242	Clinical Core of the Alzheimer's Disease Neuroimaging Initiative: progress and plans. *Alzheimers and Dementia*, **2010**, 6, 239-46	1.2	308
241	The Alzheimer's Disease Neuroimaging Initiative: a review of papers published since its inception. *Alzheimers and Dementia*, **2013**, 9, e111-94	1.2	296
240	Apolipoprotein E Genotype and Sex Risk Factors for Alzheimer Disease: A Meta-analysis. *JAMA Neurology*, **2017**, 74, 1178-1189	17.2	281
239	Multi-site genetic analysis of diffusion images and voxelwise heritability analysis: a pilot project of the ENIGMA-DTI working group. *NeuroImage*, **2013**, 81, 455-469	7.9	278
238	Vascular dysfunction-The disregarded partner of Alzheimer's disease. *Alzheimers and Dementia*, **2019**, 15, 158-167	1.2	265
237	The LONI Pipeline Processing Environment. *NeuroImage*, **2003**, 19, 1033-48	7.9	262
236	The mouse cortico-striatal projectome. *Nature Neuroscience*, **2016**, 19, 1100-14	25.5	260
235	Towards multimodal atlases of the human brain. *Nature Reviews Neuroscience*, **2006**, 7, 952-66	13.5	231
234	2014 Update of the Alzheimer's Disease Neuroimaging Initiative: A review of papers published since its inception. *Alzheimers and Dementia*, **2015**, 11, e1-120	1.2	206
233	Genetic studies of quantitative MCI and AD phenotypes in ADNI: Progress, opportunities, and plans. *Alzheimers and Dementia*, **2015**, 11, 792-814	1.2	167
232	Recent publications from the Alzheimer's Disease Neuroimaging Initiative: Reviewing progress toward improved AD clinical trials. *Alzheimers and Dementia*, **2017**, 13, e1-e85	1.2	157
231	The genetic architecture of the human cerebral cortex. *Science*, **2020**, 367,	33.3	156
230	Understanding disease progression and improving Alzheimer's disease clinical trials: Recent highlights from the Alzheimer's Disease Neuroimaging Initiative. *Alzheimers and Dementia*, **2019**, 15, 106-152	1.2	153
229	Novel genetic loci underlying human intracranial volume identified through genome-wide association. *Nature Neuroscience*, **2016**, 19, 1569-1582	25.5	147
228	MGH-USC Human Connectome Project datasets with ultra-high b-value diffusion MRI. *NeuroImage*, **2016**, 124, 1108-1114	7.9	144
227	The Parkinson's progression markers initiative (PPMI) - establishing a PD biomarker cohort. *Annals of Clinical and Translational Neurology*, **2018**, 5, 1460-1477	5.3	142
226	Development of brain structural connectivity between ages 12 and 30: a 4-Tesla diffusion imaging study in 439 adolescents and adults. *NeuroImage*, **2013**, 64, 671-84	7.9	140
225	CSF biomarkers associated with disease heterogeneity in early Parkinson's disease: the Parkinson's Progression Markers Initiative study. *Acta Neuropathologica*, **2016**, 131, 935-49	14.3	138

224	The Alzheimer's Disease Neuroimaging Initiative 3: Continued innovation for clinical trial improvement. *Alzheimer's and Dementia*, **2017**, 13, 561-571	1.2	137
223	Creation and use of a Talairach-compatible atlas for accurate, automated, nonlinear intersubject registration, and analysis of functional imaging data. *Human Brain Mapping*, **1999**, 8, 73-9	5.9	134
222	Brain imaging of neurovascular dysfunction in Alzheimer's disease. *Acta Neuropathologica*, **2016**, 131, 687-707	14.3	124
221	Genome-wide scan of healthy human connectome discovers SPON1 gene variant influencing dementia severity. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, 4768-73	11.5	123
220	Neuroimaging study designs, computational analyses and data provenance using the LONI pipeline. *PLoS ONE*, **2010**, 5, e13070	3.7	111
219	Limits to anatomical accuracy of diffusion tractography using modern approaches. *NeuroImage*, **2019**, 185, 1-11	7.9	110
218	Efficient, Distributed and Interactive Neuroimaging Data Analysis Using the LONI Pipeline. *Frontiers in Neuroinformatics*, **2009**, 3, 22	3.9	109
217	A framework for computational anatomy. *Computing and Visualization in Science*, **2002**, 5, 13-34	1	109
216	Mapping the human connectome. *Neurosurgery*, **2012**, 71, 1-5	3.2	107
215	Maps of the brain. *The Anatomical Record*, **2001**, 265, 37-53		105
214	Neuroanatomical precursors of dyslexia identified from pre-reading through to age 11. *Brain*, **2014**, 137, 3136-41	11.2	104
213	Automatic clustering of white matter fibers in brain diffusion MRI with an application to genetics. *NeuroImage*, **2014**, 100, 75-90	7.9	102
212	Multi-site study of additive genetic effects on fractional anisotropy of cerebral white matter: Comparing meta and megaanalytical approaches for data pooling. *NeuroImage*, **2014**, 95, 136-50	7.9	95
211	Neuroimage databases: the good, the bad and the ugly. *Nature Reviews Neuroscience*, **2002**, 3, 302-9	13.5	94
210	Human neuroimaging as a "Big Data" science. *Brain Imaging and Behavior*, **2014**, 8, 323-31	4.1	89
209	GWAS of longitudinal amyloid accumulation on 18F-florbetapir PET in Alzheimer's disease implicates microglial activation gene IL1RAP. *Brain*, **2015**, 138, 3076-88	11.2	88
208	Genetic architecture of subcortical brain structures in 38,851 individuals. *Nature Genetics*, **2019**, 51, 1624-1636	30.5	81
207	Multivariate tensor-based morphometry on surfaces: application to mapping ventricular abnormalities in HIV/AIDS. *NeuroImage*, **2010**, 49, 2141-57	7.9	75

206	Predictive Big Data Analytics: A Study of Parkinson's Disease Using Large, Complex, Heterogeneous, Incongruent, Multi-Source and Incomplete Observations. *PLoS ONE*, **2016**, 11, e0157077	3.7	75
205	Accurate measurement of brain changes in longitudinal MRI scans using tensor-based morphometry. *NeuroImage*, **2011**, 57, 5-14	7.9	71
204	Three-dimensional skeleton and centerline generation based on an approximate minimum distance field. *Visual Computer*, **1998**, 14, 303-314	2.3	69
203	Brain connectivity and novel network measures for Alzheimer's disease classification. *Neurobiology of Aging*, **2015**, 36 Suppl 1, S121-31	5.6	68
202	Neuroanatomical morphometric characterization of sex differences in youth using statistical learning. *NeuroImage*, **2018**, 172, 217-227	7.9	68
201	Automated ventricular mapping with multi-atlas fluid image alignment reveals genetic effects in Alzheimer's disease. *NeuroImage*, **2008**, 40, 615-630	7.9	64
200	Towards effective and rewarding data sharing. *Neuroinformatics*, **2003**, 1, 289-95	3.2	63
199	Final Results of the RHAPSODY Trial: A Multi-Center, Phase 2 Trial Using a Continual Reassessment Method to Determine the Safety and Tolerability of 3K3A-APC, A Recombinant Variant of Human Activated Protein C, in Combination with Tissue Plasminogen Activator, Mechanical Thrombectomy or both in Moderate to Severe Acute Ischemic Stroke. *Annals of Neurology*, **2019**, 85, 425-436	9.4	63
198	Multisite neuroimaging trials. *Current Opinion in Neurology*, **2009**, 22, 370-8	7.1	62
197	Big biomedical data as the key resource for discovery science. *Journal of the American Medical Informatics Association: JAMIA*, **2015**, 22, 1126-31	8.6	58
196	Neuroinformatics: the integration of shared databases and tools towards integrative neuroscience. *Journal of Integrative Neuroscience*, **2002**, 1, 117-28	1.5	58
195	Blood-Brain Barrier Permeability and Gadolinium: Benefits and Potential Pitfalls in Research. *JAMA Neurology*, **2016**, 73, 13-4	17.2	56
194	Provenance in neuroimaging. *NeuroImage*, **2008**, 42, 178-95	7.9	54
193	The Function Biomedical Informatics Research Network Data Repository. *NeuroImage*, **2016**, 124, 1074-1079	7.9	53
192	Temporal dynamics of brain anatomy. *Annual Review of Biomedical Engineering*, **2003**, 5, 119-45	12	49
191	Association of relative brain age with tobacco smoking, alcohol consumption, and genetic variants. *Scientific Reports*, **2020**, 10, 10	4.9	48
190	Spatial-temporal atlas of human fetal brain development during the early second trimester. *NeuroImage*, **2013**, 82, 115-26	7.9	45
189	Neuroscience data and tool sharing: a legal and policy framework for neuroinformatics. *Neuroinformatics*, **2003**, 1, 149-65	3.2	45

188	Higher homocysteine associated with thinner cortical gray matter in 803 participants from the Alzheimer's Disease Neuroimaging Initiative. *Neurobiology of Aging*, **2015**, 36 Suppl 1, S203-10	5.6	44
187	A probabilistic atlas of human brainstem pathways based on connectome imaging data. *NeuroImage*, **2018**, 169, 227-239	7.9	43
186	Perivascular space fluid contributes to diffusion tensor imaging changes in white matter. *NeuroImage*, **2019**, 197, 243-254	7.9	38
185	Shifting brain asymmetry: the link between meditation and structural lateralization. *Social Cognitive and Affective Neuroscience*, **2015**, 10, 55-61	4	38
184	Automated retinofugal visual pathway reconstruction with multi-shell HARDI and FOD-based analysis. *NeuroImage*, **2016**, 125, 767-779	7.9	38
183	Robust surface reconstruction via Laplace-Beltrami eigen-projection and boundary deformation. *IEEE Transactions on Medical Imaging*, **2010**, 29, 2009-22	11.7	38
182	The myth of the normal, average human brain--the ICBM experience: (1) subject screening and eligibility. *NeuroImage*, **2009**, 44, 914-22	7.9	37
181	Clinical and dopamine transporter imaging characteristics of non-manifest LRRK2 and GBA mutation carriers in the Parkinson's Progression Markers Initiative (PPMI): a cross-sectional study. *Lancet Neurology, The*, **2020**, 19, 71-80	24.1	37
180	When tractography meets tracer injections: a systematic study of trends and variation sources of diffusion-based connectivity. *Brain Structure and Function*, **2018**, 223, 2841-2858	4	36
179	Quantification of white matter and gray matter volumes from T1 parametric images using fuzzy classifiers. *Journal of Magnetic Resonance Imaging*, **1996**, 6, 425-35	5.6	34
178	Coiling and maturation of a high-performance fibre in hagfish slime gland thread cells. *Nature Communications*, **2014**, 5, 3534	17.4	32
177	Inverse-consistent surface mapping with Laplace-Beltrami eigen-features. *Lecture Notes in Computer Science*, **2009**, 21, 467-78	0.9	32
176	Validation of Serum Neurofilament Light Chain as a Biomarker of Parkinson's Disease Progression. *Movement Disorders*, **2020**, 35, 1999-2008	7	32
175	Alzheimer's Disease Disrupts Rich Club Organization in Brain Connectivity Networks **2013**, 266-269	1.5	31
174	Structural Neuroimaging Genetics Interactions in Alzheimer's Disease. *Journal of Alzheimer's Disease*, **2015**, 48, 1051-63	4.3	31
173	Medical data transformation using rewriting. *Frontiers in Neuroinformatics*, **2015**, 9, 1	3.9	31
172	Development of the human fetal hippocampal formation during early second trimester. *NeuroImage*, **2015**, 119, 33-43	7.9	29
171	Sharing big biomedical data. *Journal of Big Data*, **2015**, 2,	11.7	29

170	What is where and why it is important. *NeuroImage*, **2007**, 37, 1045-9; discussion 1066-8	7.9	29
169	Magnitude and timing of major white matter tract maturation from infancy through adolescence with NODDI. *NeuroImage*, **2020**, 212, 116672	7.9	28
168	The informatics core of the Alzheimer's Disease Neuroimaging Initiative. *Alzheimer's and Dementia*, **2010**, 6, 247-56	1.2	28
167	Fox Insight collects online, longitudinal patient-reported outcomes and genetic data on Parkinson's disease. *Scientific Data*, **2020**, 7, 67	8.2	27
166	Obesity gene NEGR1 associated with white matter integrity in healthy young adults. *NeuroImage*, **2014**, 102 Pt 2, 548-57	7.9	27
165	Automatic clustering and population analysis of white matter tracts using maximum density paths. *NeuroImage*, **2014**, 97, 284-95	7.9	26
164	Metric optimization for surface analysis in the Laplace-Beltrami embedding space. *IEEE Transactions on Medical Imaging*, **2014**, 33, 1447-63	11.7	26
163	Mapping ventricular expansion onto cortical gray matter in older adults. *Neurobiology of Aging*, **2015**, 36 Suppl 1, S32-41	5.6	26
162	TRACTOGRAPHY DENSITY AND NETWORK MEASURES IN ALZHEIMER'S DISEASE **2013**, 2013, 692-695	1.5	25
161	The LONI Debabeler: a mediator for neuroimaging software. *NeuroImage*, **2005**, 24, 1170-9	7.9	25
160	Brain structure differences between Chinese and Caucasian cohorts: A comprehensive morphometry study. *Human Brain Mapping*, **2018**, 39, 2147-2155	5.9	24
159	Statistical shape analysis of the corpus callosum in Schizophrenia. *NeuroImage*, **2013**, 64, 547-59	7.9	24
158	Classifying Alzheimer's disease with brain imaging and genetic data using a neural network framework. *Neurobiology of Aging*, **2018**, 68, 151-158	5.6	23
157	The Image and Data Archive at the Laboratory of Neuro Imaging. *NeuroImage*, **2016**, 124, 1080-1083	7.9	23
156	High-throughput neuroimaging-genetics computational infrastructure. *Frontiers in Neuroinformatics*, **2014**, 8, 41	3.9	23
155	Associations between Vascular Function and Tau PET Are Associated with Global Cognition and Amyloid. *Journal of Neuroscience*, **2020**, 40, 8573-8586	6.6	23
154	A novel sensitive assay for detection of a biomarker of pericyte injury in cerebrospinal fluid. *Alzheimer's and Dementia*, **2020**, 16, 821-830	1.2	22
153	Precompetitive Data Sharing as a Catalyst to Address Unmet Needs in Parkinson's Disease. *Journal of Parkinson's Disease*, **2015**, 5, 581-94	5.3	22

152	DEVELOPMENT OF THE "RICH CLUB" IN BRAIN CONNECTIVITY NETWORKS FROM 438 ADOLESCENTS & ADULTS AGED 12 TO 30 **2013**, 624-627	1.5	22
151	Image processing approaches to enhance perivascular space visibility and quantification using MRI. *Scientific Reports*, **2019**, 9, 12351	4.9	21
150	Imaging in StrokeNet: Realizing the Potential of Big Data. *Stroke*, **2015**, 46, 2000-6	6.7	21
149	The Global Alzheimer's Association Interactive Network. *Alzheimer's and Dementia*, **2016**, 12, 49-54	1.2	20
148	Empowering imaging biomarkers of Alzheimer's disease. *Neurobiology of Aging*, **2015**, 36 Suppl 1, S69-80	5.6	20
147	Age-Related Differences in Brain Morphology and the Modifiers in Middle-Aged and Older Adults. *Cerebral Cortex*, **2019**, 29, 4169-4193	5.1	20
146	I'll take that to go: Big data bags and minimal identifiers for exchange of large, complex datasets **2016**,		19
145	Clinical and Dopamine Transporter Imaging Characteristics of Leucine Rich Repeat Kinase 2 (LRRK2) and Glucosylceramidase Beta (GBA) Parkinson's Disease Participants in the Parkinson's Progression Markers Initiative: A Cross-Sectional Study. *Movement Disorders*, **2020**, 35, 833-844	7	18
144	Global Data Sharing in Alzheimer Disease Research. *Alzheimer Disease and Associated Disorders*, **2016**, 30, 160-8	2.5	18
143	Tractography dissection variability: What happens when 42 groups dissect 14 white matter bundles on the same dataset?. *NeuroImage*, **2021**, 243, 118502	7.9	18
142	The LONI QC System: A Semi-Automated, Web-Based and Freely-Available Environment for the Comprehensive Quality Control of Neuroimaging Data. *Frontiers in Neuroinformatics*, **2019**, 13, 60	3.9	17
141	Association analysis of rare variants near the APOE region with CSF and neuroimaging biomarkers of Alzheimer's disease. *BMC Medical Genomics*, **2017**, 10, 29	3.7	17
140	Fast 3D Fluid Registration of Brain Magnetic Resonance Images. *Proceedings of SPIE*, **2008**, 6916,	1.7	17
139	Imaging databases and neuroscience. *Neuroscientist*, **2002**, 8, 423-36	7.6	17
138	Voxelwise spectral diffusional connectivity and its applications to Alzheimer's disease and intelligence prediction. *Lecture Notes in Computer Science*, **2013**, 16, 655-62	0.9	17
137	Late-Life Depression Is Associated With Reduced Cortical Amyloid Burden: Findings From the Alzheimer's Disease Neuroimaging Initiative Depression Project. *Biological Psychiatry*, **2021**, 89, 757-765	7.9	17
136	Integration of bioinformatics and imaging informatics for identifying rare PSEN1 variants in Alzheimer's disease. *BMC Medical Genomics*, **2016**, 9 Suppl 1, 30	3.7	16
135	Harmonization of pipeline for preclinical multicenter MRI biomarker discovery in a rat model of post-traumatic epileptogenesis. *Epilepsy Research*, **2019**, 150, 46-57	3	16

134	Sharing data in the global alzheimer's association interactive network. *NeuroImage*, **2016**, 124, 1168-1174	7.9	15
133	The Alzheimer's Disease Neuroimaging Initiative informatics core: A decade in review. *Alzheimer's and Dementia*, **2015**, 11, 832-9	1.2	15
132	Analytic Tools for Post-traumatic Epileptogenesis Biomarker Search in Multimodal Dataset of an Animal Model and Human Patients. *Frontiers in Neuroinformatics*, **2018**, 12, 86	3.9	15
131	Imaging biomarkers of posttraumatic epileptogenesis. *Epilepsia*, **2019**, 60, 2151-2162	6.4	14
130	LEFT VERSUS RIGHT HEMISPHERE DIFFERENCES IN BRAIN CONNECTIVITY: 4-TESLA HARDI TRACTOGRAPHY IN 569 TWINS **2012**, 2012, 526-529	1.5	14
129	Predictive Big Data Analytics using the UK Biobank Data. *Scientific Reports*, **2019**, 9, 6012	4.9	13
128	BEST INDIVIDUAL TEMPLATE SELECTION FROM DEFORMATION TENSOR MINIMIZATION **2008**, 2008, 460-463	1.5	13
127	COMPARISON OF FRACTIONAL AND GEODESIC ANISOTROPY IN DIFFUSION TENSOR IMAGES OF 90 MONOZYGOTIC AND DIZYGOTIC TWINS **2008**, 2008, 943-946	1.5	13
126	Body mass index, time of day and genetics affect perivascular spaces in the white matter. *Journal of Cerebral Blood Flow and Metabolism*, **2021**, 41, 1563-1578	7.3	13
125	Big data sharing and analysis to advance research in post-traumatic epilepsy. *Neurobiology of Disease*, **2019**, 123, 127-136	7.5	12
124	Parity is associated with cognitive function and brain age in both females and males. *Scientific Reports*, **2020**, 10, 6100	4.9	12
123	Characterization of lenticulostriate arteries with high resolution black-blood T1-weighted turbo spin echo with variable flip angles at 3 and 7 Tesla. *NeuroImage*, **2019**, 199, 184-193	7.9	11
122	Global and Regional Changes in Perivascular Space in Idiopathic and Familial Parkinson's Disease. *Movement Disorders*, **2021**, 36, 1126-1136	7	11
121	The Health & Aging Brain among Latino Elders (HABLE) study methods and participant characteristics. *Alzheimer's and Dementia: Diagnosis, Assessment and Disease Monitoring*, **2021**, 13, e12202	5.2	11
120	Modeling topographic regularity in structural brain connectivity with application to tractogram filtering. *NeuroImage*, **2018**, 183, 87-98	7.9	10
119	Connectopathy in ageing and dementia. *Brain*, **2014**, 137, 3104-6	11.2	10
118	Practical management of heterogeneous neuroimaging metadata by global neuroimaging data repositories. *Frontiers in Neuroinformatics*, **2012**, 6, 8	3.9	10
117	Brain atlases of normal and diseased populations. *International Review of Neurobiology*, **2005**, 66, 1-54	4.4	10

116	Undetectable gadolinium brain retention in individuals with an age-dependent blood-brain barrier breakdown in the hippocampus and mild cognitive impairment. *Alzheimer's and Dementia*, **2019**, 15, 1568-1575	1.2	10
115	New approaches in brain morphometry. *American Journal of Geriatric Psychiatry*, **2002**, 10, 13-23	6.5	10
114	Structural Brain Changes in Early-Onset Alzheimer's Disease Subjects Using the LONI Pipeline Environment. *Journal of Neuroimaging*, **2015**, 25, 728-37	2.8	9
113	The clinical value of large neuroimaging data sets in Alzheimer's disease. *Neuroimaging Clinics of North America*, **2012**, 22, 107-18, ix	3	9
112	ATLAS-BASED FIBER CLUSTERING FOR MULTI-SUBJECT ANALYSIS OF HIGH ANGULAR RESOLUTION DIFFUSION IMAGING TRACTOGRAPHY **2011**, 2011, 276-280	1.5	9
111	Interaction effect of alcohol consumption and Alzheimer disease polygenic risk score on the brain cortical thickness of cognitively normal subjects. *Alcohol*, **2020**, 85, 1-12	2.7	9
110	Retrospective motion artifact correction of structural MRI images using deep learning improves the quality of cortical surface reconstructions. *NeuroImage*, **2021**, 230, 117756	7.9	9
109	Nonparenchymal fluid is the source of increased mean diffusivity in preclinical Alzheimer's disease. *Alzheimer's and Dementia: Diagnosis, Assessment and Disease Monitoring*, **2019**, 11, 348-354	5.2	8
108	Effects of sex chromosome dosage on corpus callosum morphology in supernumerary sex chromosome aneuploidies. *Biology of Sex Differences*, **2014**, 5, 16	9.3	8
107	Exhaustive search of the SNP-sNP interactome identifies epistatic effects on brain volume in two cohorts. *Lecture Notes in Computer Science*, **2013**, 16, 600-7	0.9	8
106	Volumetric distribution of perivascular space in relation to mild cognitive impairment. *Neurobiology of Aging*, **2021**, 99, 28-43	5.6	8
105	Characterizing plasma NfL in a community-dwelling multi-ethnic cohort: Results from the HABLE study. *Alzheimer's and Dementia*, **2021**,	1.2	8
104	Hippocampal Shape Maturation in Childhood and Adolescence. *Cerebral Cortex*, **2019**, 29, 3651-3665	5.1	8
103	How a common variant in the growth factor receptor gene, NTRK1, affects white matter. *Bioarchitecture*, **2012**, 2, 181-4		7
102	Disruption and Compensation of Sulcation-based Covariance Networks in Neonatal Brain Growth after Perinatal Injury. *Cerebral Cortex*, **2020**, 30, 6238-6253	5.1	7
101	Imputation Strategy for Reliable Regional MRI Morphological Measurements. *Neuroinformatics*, **2020**, 18, 59-70	3.2	7
100	THC Exposure is Reflected in the Microstructure of the Cerebral Cortex and Amygdala of Young Adults. *Cerebral Cortex*, **2020**, 30, 4949-4963	5.1	6
99	Skull-stripping with machine learning deformable organisms. *Journal of Neuroscience Methods*, **2014**, 236, 114-24	3	6

98	Topographic Regularity for Tract Filtering in Brain Connectivity. *Lecture Notes in Computer Science*, **2017**, 10265, 263-274	0.9	6
97	A blood screening tool for detecting mild cognitive impairment and Alzheimer's disease among community-dwelling Mexican Americans and non-Hispanic Whites: A method for increasing representation of diverse populations in clinical research. *Alzheimer's and Dementia*, **2021**,	1.2	6
96	Accelerated functional brain aging in pre-clinical familial Alzheimer's disease. *Nature Communications*, **2021**, 12, 5346	17.4	6
95	Creation and use of a Talairach-compatible atlas for accurate, automated, nonlinear intersubject registration, and analysis of functional imaging data **1999**, 8, 73		6
94	A Machine Learning Model to Predict Seizure Susceptibility from Resting-State fMRI Connectivity **2019**,		5
93	Phenotypic and Genetic Correlations Between the Lobar Segments of the Inferior Fronto-occipital Fasciculus and Attention. *Scientific Reports*, **2016**, 6, 33015	4.9	5
92	Using Virtual Reality to Improve Performance and User Experience in Manual Correction of MRI Segmentation Errors by Non-experts. *Journal of Digital Imaging*, **2019**, 32, 97-104	5.3	5
91	FTS-01-02: The global Alzheimer's association interactive network (GAAIN) **2015**, 11, P121-P121		5
90	FLOW-BASED NETWORK MEASURES OF BRAIN CONNECTIVITY IN ALZHEIMER'S DISEASE **2013**, 2013, 258-261	1.5	5
89	Multiplex Networks to Characterize Seizure Development in Traumatic Brain Injury Patients. *Frontiers in Neuroscience*, **2020**, 14, 591662	5.1	5
88	The Longitudinal Early-onset Alzheimer's Disease Study (LEADS): Framework and methodology. *Alzheimer's and Dementia*, **2021**,	1.2	5
87	**2019**,		4
86	The Center for Computational Biology: resources, achievements, and challenges. *Journal of the American Medical Informatics Association: JAMIA*, **2012**, 19, 202-6	8.6	4
85	Brain-mapping neurotoxicity and neuropathology. *Annals of the New York Academy of Sciences*, **1997**, 820, 1-13	6.5	4
84	Computational biology for visualization of brain structure. *Anatomy and Embryology*, **2005**, 210, 433-8		4
83	Association of brain age with smoking, alcohol consumption, and genetic variants		4
82	Morphometric development of the human fetal cerebellum during the early second trimester. *NeuroImage*, **2020**, 207, 116372	7.9	4
81	The connections of the insular VEN area in great apes: A histologically-guided ex vivo diffusion tractography study. *Progress in Neurobiology*, **2020**, 195, 101941	10.9	4

80	Early brain biomarkers of post-traumatic seizures: initial report of the multicentre epilepsy bioinformatics study for antiepileptogenic therapy (EpiBioS4Rx) prospective study. *Journal of Neurology, Neurosurgery and Psychiatry*, **2020**, 91, 1154-1157	5.5	4
79	Three-dimensional self-attention conditional GAN with spectral normalization for multimodal neuroimaging synthesis. *Magnetic Resonance in Medicine*, **2021**, 86, 1718-1733	4.4	4
78	The effect of body mass index on hippocampal morphology and memory performance in late childhood and adolescence. *Hippocampus*, **2021**, 31, 189-200	3.5	4
77	Perivascular Space Imaging at Ultrahigh Field MR Imaging. *Magnetic Resonance Imaging Clinics of North America*, **2021**, 29, 67-75	1.6	4
76	Using the Alzheimer's Disease Neuroimaging Initiative to improve early detection, diagnosis, and treatment of Alzheimer's disease. *Alzheimer's and Dementia*, **2021**,	1.2	4
75	Cerebral Cortex Diseases and Cortical Localization **2003**,		3
74	Grant Report on PREDICT-ADFTD: Multimodal Imaging Prediction of AD/FTD and Differential Diagnosis. *Journal of Psychiatry and Brain Science*, **2019**, 4,	1.7	3
73	Spatiotemporal evolution of functional hemodynamic changes and their relationship to neuronal activity. *Journal of Cerebral Blood Flow and Metabolism*, **2005**, 25, S324-S324	7.3	3
72	IC-P-059: REVEALING SMALL SUBFIELDS OF HIPPOCAMPUS IN VIVO WITH 7T STRUCTURAL MRI **2018**, 14, P55-P56		3
71	Transcranial eddy current damping sensors for detection and imaging of hemorrhagic stroke: feasibility in benchtop experimentation. *Neurosurgical Focus*, **2021**, 51, E15	4.2	3
70	Alteration of perivascular spaces in early cognitive decline. *Alzheimer's and Dementia*, **2020**, 16, e045605	1.2	2
69	Topological false discovery rates for brain mapping based on signal height. *NeuroImage*, **2018**, 167, 478-487	7.9	2
68	Transformation Invariant Control of Voxel-Wise False Discovery Rate. *IEEE Transactions on Medical Imaging*, **2016**, 35, 2243-2257	11.7	2
67	Signal Hyperintensity on Unenhanced T1-Weighted Brain and Cervical Spinal Cord MR Images after Multiple Doses of Linear Gadolinium-Based Contrast Agent. *American Journal of Neuroradiology*, **2019**, 40, 1274-1281	4.4	2
66	VENTRICULAR MAPS IN 804 SUBJECTS CORRELATE WITH COGNITIVE DECLINE, CSF PATHOLOGY, AND IMMINENT ALZHEIMER'S DISEASE **2010**, 2010, 241-244	1.5	2
65	A Narrow-Band Approach for Approximating the Laplace-Beltrami Spectrum of 3D Shapes **2010**,		2
64	SKULL-STRIPPING WITH DEFORMABLE ORGANISMS **2011**, 1662-1665	1.5	2
63	RNA sequencing of whole blood reveals early alterations in immune cells and gene expression in Parkinson's disease. *Nature Aging*, **2021**, 1, 734-747		2

62	Mapping Complex Brain Torque Components and Their Genetic Architecture and Phenomic Associations in 24,112 Individuals.. *Biological Psychiatry*, **2021**,	7.9	2
61	Compressive Big Data Analytics: An ensemble meta-algorithm for high-dimensional multisource datasets. *PLoS ONE*, **2020**, 15, e0228520	3.7	2
60	Selective morphological and volumetric alterations in the hippocampus of children exposed in utero to gestational diabetes mellitus. *Human Brain Mapping*, **2021**, 42, 2583-2592	5.9	2
59	Early neuroinflammation is associated with lower amyloid and tau levels in cognitively normal older adults. *Brain, Behavior, and Immunity*, **2021**, 94, 299-307	16.6	2
58	The GAAIN Entity Mapper: An Active-Learning System for Medical Data Mapping. *Frontiers in Neuroinformatics*, **2015**, 9, 30	3.9	2
57	Neuroimaging PheWAS (Phenome-Wide Association Study): A Free Cloud-Computing Platform for Big-Data, Brain-Wide Imaging Association Studies. *Neuroinformatics*, **2021**, 19, 285-303	3.2	2
56	A systematic review of next-generation point-of-care stroke diagnostic technologies. *Neurosurgical Focus*, **2021**, 51, E11	4.2	2
55	Quality Control Metrics for Whole Blood Transcriptome Analysis in the Parkinson Progression Markers Initiative (PPMI)		2
54	Amyloid and tau PET in sporadic early-onset Alzheimer disease: Preliminary results from LEADS. *Alzheimer s and Dementia*, **2020**, 16, e041613	1.2	1
53	Sex-associated differences in pathology burden in early-onset Alzheimer disease. *Alzheimer s and Dementia*, **2020**, 16, e046532	1.2	1
52	[F1 04 03]: THE GLOBAL ALZHEIMER's ASSOCIATION INTERACTIVE NETWORK (GAAIN) **2017**, 13, P178		1
51	Reply: Cortical differences in preliterate children at familiar risk of dyslexia are similar to those observed in dyslexic readers. *Brain*, **2015**, 138, e379	11.2	1
50	A GENETIC ANALYSIS OF CORTICAL THICKNESS IN 372 TWINS **2010**, 2010, 101-104	1.5	1
49	Relating structure to function in vivo with tomographic imaging. *Novartis Foundation Symposium*, **1991**, 163, 93-101; discussion 101-12		1
48	Classification of MRI and psychological testing data based on support vector machine. *International Journal of Clinical and Experimental Medicine*, **2017**, 10, 16004-16026		1
47	Laminar perfusion imaging with zoomed arterial spin labeling at 7 Tesla. *NeuroImage*, **2021**, 245, 118724	7.9	1
46	Data Sharing in Alzheimer Disease Research. *US Neurology*, **2018**, 14, 68	0.3	1
45	Robust Cortical Thickness Morphometry of Neonatal Brain and Systematic Evaluation Using Multi-Site MRI Datasets. *Frontiers in Neuroscience*, **2021**, 15, 650082	5.1	1

44	The Impact of Amyloid Burden and APOE on Rates of Cognitive Impairment in Late Life Depression. *Journal of Alzheimer's Disease*, **2021**, 80, 991-1002	4.3	1
43	Frontoinsular cortical microstructure is linked to life satisfaction in young adulthood. *Brain Imaging and Behavior*, **2021**, 1	4.1	1
42	Longitudinal Analysis of Multiple Neurotransmitter Metabolites in Cerebrospinal Fluid in Early Parkinson's Disease. *Movement Disorders*, **2021**, 36, 1972-1978	7	1
41	Brain age predicted using graph convolutional neural network explains developmental trajectory in preterm neonates		1
40	Tractography Processing with the Sparse Closest Point Transform. *Neuroinformatics*, **2021**, 19, 367-378	3.2	1
39	P1-281: NONLINEAR N-SCORE ESTIMATION FOR ESTABLISHING COGNITIVE NORMS FROM THE NATIONAL ALZHEIMER'S COORDINATING CENTER (NACC) DATASET **2018**, 14, P390-P391		1
38	P1-288: THE DOMINANTLY INHERITED ALZHEIMER NETWORK (DIAN)-ALZHEIMER'S DISEASE NEUROIMAGING INITIATIVE (ADNI) COMPARISON STUDY: CHALLENGES AND OPPORTUNITIES **2018**, 14, P395-P396		1
37	Using Fractional Anisotropy Imaging to Detect Mild Cognitive Impairment and Alzheimer's Disease among Mexican Americans and Non-Hispanic Whites: A HABLE Study. *Dementia and Geriatric Cognitive Disorders*, **2021**, 50, 266-273	2.6	1
36	Imaging subtle leaks in the blood-brain barrier in the aging human brain: potential pitfalls, challenges, and possible solutions.. *GeroScience*, **2022**, 1	8.9	1
35	COMPARISON OF VOLUMETRIC REGISTRATION ALGORITHMS FOR TENSOR-BASED MORPHOMETRY **2011**, 2011, 1536-1541	1.5	0
34	MRI biomarkers of small vessel disease and cognition: A cross-sectional study of a cognitively normal Mexican American cohort. *Alzheimer's and Dementia: Diagnosis, Assessment and Disease Monitoring*, **2021**, 13, e12236	5.2	0
33	Morphological Development Trajectory and Structural Covariance Network of the Human Fetal Cortical Plate during the Early Second Trimester. *Cerebral Cortex*, **2021**, 31, 4794-4807	5.1	0
32	Improving brain age estimates with deep learning leads to identification of novel genetic factors associated with brain aging. *Neurobiology of Aging*, **2021**, 105, 199-204	5.6	0
31	Aberrant functional connectivity between reward and inhibitory control networks in pre-adolescent binge eating disorder.. *Psychological Medicine*, **2022**, 1-10	6.9	0
30	Proteomic Profiles of Neurodegeneration Among Mexican Americans and Non-Hispanic Whites in the HABS-HD Study.. *Journal of Alzheimer's Disease*, **2022**, 86, 1243-1254	4.3	0
29	Regional gray matter abnormalities in pre-adolescent binge eating disorder: A voxel-based morphometry study.. *Psychiatry Research*, **2022**, 310, 114473	9.9	0
28	Distribution and volume analysis of early hemorrhagic contusions by MRI after traumatic brain injury: a preliminary report of the Epilepsy Bioinformatics Study for Antiepileptogenic Therapy (EpiBioS4Rx).. *Brain Imaging and Behavior*, **2021**, 15, 2804-2812	4.1	0
27	The Link between APOE4 Presence and Neuropsychological Test Performance among Mexican Americans and Non-Hispanic Whites of the Multiethnic Health & Aging Brain Study - Health Disparities Cohort.. *Dementia and Geriatric Cognitive Disorders*, **2022**, 1-6	2.6	0

26	Investigating neural correlates of mild cognitive impairment using estimated clinical status from neuropsychological test battery: LASI-DAD. *Alzheimer's and Dementia*, **2020**, 16, e038440	1.2
25	Intracellular signal changes in the anterosuperior medial temporal lobe associated with early cognitive decline. *Alzheimer's and Dementia*, **2020**, 16, e044218	1.2
24	Relationships between cerebrovascular health and tau PET uptake are associated with global cognition. *Alzheimer's and Dementia*, **2020**, 16, e045326	1.2
23	Studying the natural history of frontotemporal lobar degeneration (FTLD): The ARTFL LEFFTDS longitudinal FTLD (ALLFTD) protocol. *Alzheimer's and Dementia*, **2020**, 16, e045482	1.2
22	Increased white matter MRI T1 hypointensity volume in young-onset Alzheimer's disease patients is not accounted for by age or cardiovascular risk factors. *Alzheimer's and Dementia*, **2020**, 16, e045577	1.2
21	Neurodegeneration in the Longitudinal Evaluation of Early Onset Alzheimer's Disease Study (LEADS) sample: Results from the MRI core. *Alzheimer's and Dementia*, **2020**, 16, e046338	1.2
20	P3-024: NEXT-GENERATION SEQUENCING OF THE BCHE LOCUS IDENTIFIES A FUNCTIONAL SNP ASSOCIATED WITH ALZHEIMER'S DISEASE BIOMARKERS AND AGE OF ONSET **2014**, 10, P636-P636	
19	Cyto- and chemoarchitecture of the hypothalamic paraventricular nucleus in the C57BL/6J male mouse: A study of immunostaining and multiple fluorescent tract tracing. *Journal of Comparative Neurology*, **2012**, 520, Spc1-Spc1	3.4
18	REDUCING STRUCTURAL VARIATION TO DETERMINE THE GENETICS OF WHITE MATTER INTEGRITY ACROSS HEMISPHERES - A DTI STUDY OF 100 TWINS **2009**, 2009, 819-822	1.5
17	Neuroimaging Alzheimer's disease **2004**, 128-160	
16	Anatomical validation of diffusion tensor imaging (DTI). *FASEB Journal*, **2013**, 27, 532.3	0.9
15	Visual correlation between iron, amyloid-beta, and tau depositions in the medial temporal lobe of Alzheimer's disease post-mortem brains. *FASEB Journal*, **2013**, 27, 533.11	0.9
14	Empirical development of a histological protocol for whole brain sectioning to characterize neuropathological patterns in human specimens. *FASEB Journal*, **2013**, 27, 967.2	0.9
13	O4-03-01: FRONTOTEMPORAL LOBAR DEGENERATION RESEARCH IN NORTH AMERICA: PROGRESS IN THE ARTFL/LEFFTDS CONSORTIA **2019**, 15, P1234-P1235	
12	IC-P-056: INTERACTION EFFECT OF APOE-4 AND SUBJECTIVE SLEEP QUALITY ON CORTICAL THICKNESS IN COGNITIVELY HEALTHY ADULTS **2019**, 15, P57-P57	
11	P1-433: GRAY MATTER DEFICITS IN SYMPTOMATIC AND PRESYMPTOMATIC MAPT MUTATION CARRIERS **2018**, 14, P475-P476	
10	O2-14-06: DIFFERENCES BETWEEN SPORADIC AND FAMILIAL BEHAVIORAL VARIANT FTD IN ADVANCING RESEARCH AND TREATMENT FOR FTLD (ARTFL) CLINICAL RESEARCH CONSORTIUM **2018**, 14, P658-P659	
9	IC-P-030: CSF SPDGFRB, A MEASURE OF VASCULAR DYSFUNCTION, IS RELATED TO DISRUPTED FUNCTIONAL CONNECTIVITY AMONG BRAIN REGIONS ASSOCIATED WITH ALZHEIMER'S DISEASE **2018**, 14, P34-P35	

8	S3-01-03: APOE AND SEX DIFFERENCES ON ALZHEIMER'S DISEASE RISK **2018**, 14, P995-P995	
7	O2-14-02: THE CLINICAL SPECTRUM OF FRONTOTEMPORAL LOBAR DEGENERATION IN NORTH AMERICA: BASELINE CHARACTERISTICS OF THE FIRST 912 PARTICIPANTS FROM THE ADVANCING RESEARCH AND TREATMENT IN FTLD (ARTFL) CLINICAL RESEARCH CONSORTIUM **2018**, 14, P656-P657	
6	O2-14-01: CHARACTERISTICS AND PROGRESS OF 320 SUBJECTS IN THE LONGITUDINAL EVALUATION OF FAMILIAL FRONTOTEMPORAL DEMENTIA SUBJECTS (LEFFTDS) PROTOCOL **2018**, 14, P656-P656	
5	P2-448: CSF SPDGFRB, A MEASURE OF VASCULAR DYSFUNCTION, IS RELATED TO DISRUPTED FUNCTIONAL CONNECTIVITY AMONG BRAIN REGIONS ASSOCIATED WITH ALZHEIMER'S DISEASE **2018**, 14, P889-P890	
4	P1-419: USING A BRAIN NETWORK APPROACH TO PREDICT GENETIC MUTATION IN INDIVIDUAL PATIENTS WITH FAMILIAL FRONTOTEMPORAL DEMENTIA **2018**, 14, P465-P466	
3	Response to Zywieck and Kirkby paper. *Neurobiology of Aging*, **2018**, 69, 298-299	5.6
2	Sharing of Alzheimer Disease Research Data in the Global Alzheimer Association Interactive Network **2022**, 395-403	
1	Gearing up for the future: Exploring facilitators and barriers to inform clinical trial design in frontotemporal lobar degeneration.. *Alzheimer's and Dementia*, **2021**, 17 Suppl 7, e052495	1.2