Alexandra L Young

List of Publications by Citations

188 papers	6,074 citations	40 h-index	75 g-index
212 ext. papers	8,442 ext. citations	5.8 avg, IF	6.19 L-index

#	Paper	IF	Citations
188	Orientationally invariant indices of axon diameter and density from diffusion MRI. *NeuroImage*, **2010**, 52, 1374-89	7.9	527
187	Image processing and Quality Control for the first 10,000 brain imaging datasets from UK Biobank. *NeuroImage*, **2018**, 166, 400-424	7.9	415
186	A general framework for experiment design in diffusion MRI and its application in measuring direct tissue-microstructure features. *Magnetic Resonance in Medicine*, **2008**, 60, 439-48	4.4	247
185	Accelerated Microstructure Imaging via Convex Optimization (AMICO) from diffusion MRI data. *NeuroImage*, **2015**, 105, 32-44	7.9	225
184	Optimal imaging parameters for fiber-orientation estimation in diffusion MRI. *NeuroImage*, **2005**, 27, 357-67	7.9	191
183	Multi-compartment microscopic diffusion imaging. *NeuroImage*, **2016**, 139, 346-359	7.9	186
182	Deep gray matter volume loss drives disability worsening in multiple sclerosis. *Annals of Neurology*, **2018**, 83, 210-222	9.4	185
181	Multiple-fiber reconstruction algorithms for diffusion MRI. *Annals of the New York Academy of Sciences*, **2005**, 1064, 113-33	6.5	185
180	Imaging brain microstructure with diffusion MRI: practicality and applications. *NMR in Biomedicine*, **2019**, 32, e3841	4.4	161
179	A data-driven model of biomarker changes in sporadic Alzheimer's disease. *Brain*, **2014**, 137, 2564-77	11.2	149
178	Progression of regional grey matter atrophy in multiple sclerosis. *Brain*, **2018**, 141, 1665-1677	11.2	146
177	Quantitative mapping of the per-axon diffusion coefficients in brain white matter. *Magnetic Resonance in Medicine*, **2016**, 75, 1752-63	4.4	138
176	Early development of structural networks and the impact of prematurity on brain connectivity. *NeuroImage*, **2017**, 149, 379-392	7.9	125
175	An event-based model for disease progression and its application in familial Alzheimer's disease and Huntington's disease. *NeuroImage*, **2012**, 60, 1880-9	7.9	125
174	Uncovering the heterogeneity and temporal complexity of neurodegenerative diseases with Subtype and Stage Inference. *Nature Communications*, **2018**, 9, 4273	17.4	125
173	Assessing white matter microstructure of the newborn with multi-shell diffusion MRI and biophysical compartment models. *NeuroImage*, **2014**, 96, 288-99	7.9	123
172	Conventions and nomenclature for double diffusion encoding NMR and MRI. *Magnetic Resonance in Medicine*, **2016**, 75, 82-7	4.4	123

171	Advanced diffusion imaging sequences could aid assessing patients with focal cortical dysplasia and epilepsy. *Epilepsy Research*, **2014**, 108, 336-9	3	98
170	Bingham-NODDI: Mapping anisotropic orientation dispersion of neurites using diffusion MRI. *NeuroImage*, **2016**, 133, 207-223	7.9	97
169	PGSE, OGSE, and sensitivity to axon diameter in diffusion MRI: Insight from a simulation study. *Magnetic Resonance in Medicine*, **2016**, 75, 688-700	4.4	82
168	Four distinct trajectories of tau deposition identified in Alzheimer's disease. *Nature Medicine*, **2021**, 27, 871-881	50.5	81
167	Neurite orientation dispersion and density imaging of the healthy cervical spinal cord in vivo. *NeuroImage*, **2015**, 111, 590-601	7.9	80
166	Maximum entropy spherical deconvolution for diffusion MRI. *Lecture Notes in Computer Science*, **2005**, 19, 76-87	0.9	77
165	SANDI: A compartment-based model for non-invasive apparent soma and neurite imaging by diffusion MRI. *NeuroImage*, **2020**, 215, 116835	7.9	69
164	Evaluation of mutant huntingtin and neurofilament proteins as potential markers in Huntington's disease. *Science Translational Medicine*, **2018**, 10,	17.5	67
163	Data-driven models of dominantly-inherited Alzheimer's disease progression. *Brain*, **2018**, 141, 1529-1544	11.2	66
162	Image quality transfer and applications in diffusion MRI. *NeuroImage*, **2017**, 152, 283-298	7.9	63
161	Cortical microstructure in young onset Alzheimer's disease using neurite orientation dispersion and density imaging. *Human Brain Mapping*, **2018**, 39, 3005-3017	5.9	55
160	Machine learning based compartment models with permeability for white matter microstructure imaging. *NeuroImage*, **2017**, 150, 119-135	7.9	52
159	Imaging plus X: multimodal models of neurodegenerative disease. *Current Opinion in Neurology*, **2017**, 30, 371-379	7.1	50
158	ApoE influences regional white-matter axonal density loss in Alzheimer's disease. *Neurobiology of Aging*, **2017**, 57, 8-17	5.6	49
157	Aging related cognitive changes associated with Alzheimer's disease in Down syndrome. *Annals of Clinical and Translational Neurology*, **2018**, 5, 741-751	5.3	48
156	White matter compartment models for in vivo diffusion MRI at 300mT/m. *NeuroImage*, **2015**, 118, 468-83	7.9	47
155	Cross-scanner and cross-protocol diffusion MRI data harmonisation: A benchmark database and evaluation of algorithms. *NeuroImage*, **2019**, 195, 285-299	7.9	46
154	Probabilistic disease progression modeling to characterize diagnostic uncertainty: Application to staging and prediction in Alzheimer's disease. *NeuroImage*, **2019**, 190, 56-68	7.9	46

153	Different patterns of cortical maturation before and after 38 weeks gestational age demonstrated by diffusion MRI in vivo. *NeuroImage*, **2019**, 185, 764-775	7.9	43
152	Neurite orientation and dispersion density imaging (NODDI) detects cortical and corticospinal tract degeneration in ALS. *Journal of Neurology, Neurosurgery and Psychiatry*, **2019**, 90, 404-411	5.5	43
151	Towards higher sensitivity and stability of axon diameter estimation with diffusion-weighted MRI. *NMR in Biomedicine*, **2016**, 29, 293-308	4.4	42
150	Impaired development of the cerebral cortex in infants with congenital heart disease is correlated to reduced cerebral oxygen delivery. *Scientific Reports*, **2017**, 7, 15088	4.9	41
149	Gray matter MRI differentiates neuromyelitis optica from multiple sclerosis using random forest. *Neurology*, **2016**, 87, 2463-2470	6.5	40
148	Combined diffusion-relaxometry MRI to identify dysfunction in the human placenta. *Magnetic Resonance in Medicine*, **2019**, 82, 95-106	4.4	39
147	Multi-modal functional MRI to explore placental function over gestation. *Magnetic Resonance in Medicine*, **2019**, 81, 1191-1204	4.4	38
146	Placenta microstructure and microcirculation imaging with diffusion MRI. *Magnetic Resonance in Medicine*, **2018**, 80, 756-766	4.4	38
145	Longitudinal neuroanatomical and cognitive progression of posterior cortical atrophy. *Brain*, **2019**, 142, 2082-2095	11.2	36
144	Model-based estimation of microscopic anisotropy using diffusion MRI: a simulation study. *NMR in Biomedicine*, **2016**, 29, 672-85	4.4	33
143	Accurate estimation of microscopic diffusion anisotropy and its time dependence in the mouse brain. *NeuroImage*, **2018**, 183, 934-949	7.9	33
142	Identifying multiple sclerosis subtypes using unsupervised machine learning and MRI data. *Nature Communications*, **2021**, 12, 2078	17.4	32
141	An image-based model of brain volume biomarker changes in Huntington's disease. *Annals of Clinical and Translational Neurology*, **2018**, 5, 570-582	5.3	31
140	Neurite density is reduced in the presymptomatic phase of disease. *Journal of Neurology, Neurosurgery and Psychiatry*, **2019**, 90, 387-394	5.5	31
139	A generative model of realistic brain cells with application to numerical simulation of the diffusion-weighted MR signal. *NeuroImage*, **2019**, 188, 391-402	7.9	30
138	DIVE: A spatiotemporal progression model of brain pathology in neurodegenerative disorders. *NeuroImage*, **2019**, 192, 166-177	7.9	29
137	Improved tractography using asymmetric fibre orientation distributions. *NeuroImage*, **2017**, 158, 205-218	7.9	29
136	Eyetracking Metrics in Young Onset Alzheimer's Disease: A Window into Cognitive Visual Functions. *Frontiers in Neurology*, **2017**, 8, 377	4.1	29

135	Data-Driven Sequence of Changes to Anatomical Brain Connectivity in Sporadic Alzheimer's Disease. *Frontiers in Neurology*, **2017**, 8, 580	4.1	29
134	Diffusion MRI microstructure models with in vivo human brain Connectome data: results from a multi-group comparison. *NMR in Biomedicine*, **2017**, 30, e3734	4.4	26
133	Susceptibility of brain atrophy to in Alzheimer's disease, evidence from functional prioritization in imaging genetics. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, 3162-3167	11.5	25
132	Double oscillating diffusion encoding and sensitivity to microscopic anisotropy. *Magnetic Resonance in Medicine*, **2017**, 78, 550-564	4.4	25
131	Reduced neurite density in the brain and cervical spinal cord in relapsing-remitting multiple sclerosis: A NODDI study. *Multiple Sclerosis Journal*, **2020**, 26, 1647-1657	5	24
130	Mutant huntingtin and neurofilament light have distinct longitudinal dynamics in Huntington's disease. *Science Translational Medicine*, **2020**, 12,	17.5	24
129	SVM recursive feature elimination analyses of structural brain MRI predicts near-term relapses in patients with clinically isolated syndromes suggestive of multiple sclerosis. *NeuroImage: Clinical*, **2019**, 24, 102011	5.3	23
128	A tract-specific approach to assessing white matter in preterm infants. *NeuroImage*, **2017**, 157, 675-694	7.9	23
127	Exploiting peak anisotropy for tracking through complex structures **2007**,		23
126	Predicting Alzheimer's disease progression using deep recurrent neural networks. *NeuroImage*, **2020**, 222, 117203	7.9	23
125	Apparatus for Histological Validation of and Magnetic Resonance Imaging of the Human Prostate. *Frontiers in Oncology*, **2017**, 7, 47	5.3	22
124	Parametric Probability Distribution Functions for Axon Diameters of Corpus Callosum. *Frontiers in Neuroanatomy*, **2016**, 10, 59	3.6	21
123	Uncertainty modelling in deep learning for safer neuroimage enhancement: Demonstration in diffusion MRI. *NeuroImage*, **2021**, 225, 117366	7.9	21
122	Microstructural models for diffusion MRI in breast cancer and surrounding stroma: an ex vivo study. *NMR in Biomedicine*, **2017**, 30, e3679	4.4	20
121	Using diffusion MRI to discriminate areas of cortical grey matter. *NeuroImage*, **2018**, 182, 456-468	7.9	20
120	Disease Progression Modeling in Chronic Obstructive Pulmonary Disease. *American Journal of Respiratory and Critical Care Medicine*, **2020**, 201, 294-302	10.2	20
119	A framework for optimal whole-sample histological quantification of neurite orientation dispersion in the human spinal cord. *Journal of Neuroscience Methods*, **2016**, 273, 20-32	3	20
118	Multi-study validation of data-driven disease progression models to characterize evolution of biomarkers in Alzheimer's disease. *NeuroImage: Clinical*, **2019**, 24, 101954	5.3	19

117	Fixel-based analysis of the preterm brain: Disentangling bundle-specific white matter microstructural and macrostructural changes in relation to clinical risk factors. *NeuroImage: Clinical*, **2019**, 23, 101820	5.3	18
116	Multiple Orderings of Events in Disease Progression. *Lecture Notes in Computer Science*, **2015**, 24, 711-22	0.9	18
115	Relevance of time-dependence for clinically viable diffusion imaging of the spinal cord. *Magnetic Resonance in Medicine*, **2019**, 81, 1247-1264	4.4	18
114	Robust Markers and Sample Sizes for Multicenter Trials of Huntington Disease. *Annals of Neurology*, **2020**, 87, 751-762	9.4	14
113	TADPOLE Challenge: Accurate Alzheimer's disease prediction through crowdsourced forecasting of future data. *Lecture Notes in Computer Science*, **2019**, 11843, 1-10	0.9	14
112	ConFiG: Contextual Fibre Growth to generate realistic axonal packing for diffusion MRI simulation. *NeuroImage*, **2020**, 220, 117107	7.9	14
111	Applying causal models to explore the mechanism of action of simvastatin in progressive multiple sclerosis. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 11020-11027	11.5	13
110	Sequences of cognitive decline in typical Alzheimer's disease and posterior cortical atrophy estimated using a novel event-based model of disease progression. *Alzheimer's and Dementia*, **2020**, 16, 965-973	1.2	13
109	Probing axons using multi-compartmental diffusion in multiple sclerosis. *Annals of Clinical and Translational Neurology*, **2019**, 6, 1595-1605	5.3	12
108	VERDICT MRI validation in fresh and fixed prostate specimens using patient-specific moulds for histological and MR alignment. *NMR in Biomedicine*, **2019**, 32, e4073	4.4	12
107	Joint super-resolution and synthesis of 1 mm isotropic MP-RAGE volumes from clinical MRI exams with scans of different orientation, resolution and contrast. *NeuroImage*, **2021**, 237, 118206	7.9	12
106	Multi-parametric quantitative in vivo spinal cord MRI with unified signal readout and image denoising. *NeuroImage*, **2020**, 217, 116884	7.9	11
105	Modeling Alzheimer's disease progression using deep recurrent neural networks **2018**,		11
104	The importance of being dispersed: A ranking of diffusion MRI models for fibre dispersion using in vivo human brain data. *Lecture Notes in Computer Science*, **2013**, 16, 74-81	0.9	11
103	Prion propagation estimated from brain diffusion MRI is subtype dependent in sporadic Creutzfeldt-Jakob disease. *Acta Neuropathologica*, **2020**, 140, 169-181	14.3	10
102	Noninvasive diffusion magnetic resonance imaging of brain tumour cell size for the early detection of therapeutic response. *Scientific Reports*, **2020**, 10, 9223	4.9	10
101	Mathematical models for the diffusion magnetic resonance signal abnormality in patients with prion diseases. *NeuroImage: Clinical*, **2015**, 7, 142-54	5.3	10
100	Experimental studies of g-ratio MRI in ex vivo mouse brain. *NeuroImage*, **2018**, 167, 366-371	7.9	10

99	Statistical Modeling of Colour Data. *International Journal of Computer Vision*, **2001**, 44, 87-109	10.6	9
98	BrainPainter: A software for the visualisation of brain structures, biomarkers and associated pathological processes. *Lecture Notes in Computer Science*, **2019**, 11846, 112-120	0.9	9
97	An event-based disease progression model and its application to familial Alzheimer's disease. *Lecture Notes in Computer Science*, **2011**, 22, 748-59	0.9	9
96	A simulation system for biomarker evolution in neurodegenerative disease. *Medical Image Analysis*, **2015**, 26, 47-56	15.4	8
95	Learning Imaging Biomarker Trajectories from Noisy Alzheimer Disease Data Using a Bayesian Multilevel Model. *Lecture Notes in Computer Science*, **2014**, 85-94	0.9	8
94	Regularized super-resolution for diffusion MRI **2008**,		8
93	Differences in topological progression profile among neurodegenerative diseases from imaging data. *ELife*, **2019**, 8,	8.9	8
92	Microstructural parameter estimation in vivo using diffusion MRI and structured prior information. *Magnetic Resonance in Medicine*, **2016**, 75, 1787-96	4.4	8
91	Machine learning based white matter models with permeability: An experimental study in cuprizone treated in-vivo mouse model of axonal demyelination. *NeuroImage*, **2021**, 224, 117425	7.9	8
90	Sequence of clinical and neurodegeneration events in Parkinson's disease progression. *Brain*, **2021**, 144, 975-988	11.2	8
89	Modeling longitudinal imaging biomarkers with parametric Bayesian multi-task learning. *Human Brain Mapping*, **2019**, 40, 3982-4000	5.9	7
88	Measuring diffusion exchange across the cell membrane with DEXSY (Diffusion Exchange Spectroscopy). *Magnetic Resonance in Medicine*, **2020**, 84, 1543-1551	4.4	7
87	An optimized framework for quantitative magnetization transfer imaging of the cervical spinal cord in vivo. *Magnetic Resonance in Medicine*, **2018**, 79, 2576-2588	4.4	7
86	Simplified Luminal Water Imaging for the Detection of Prostate Cancer From Multiecho T MR Images. *Journal of Magnetic Resonance Imaging*, **2019**, 50, 910-917	5.6	7
85	Training data distribution significantly impacts the estimation of tissue microstructure with machine learning. *Magnetic Resonance in Medicine*, **2022**, 87, 932-947	4.4	7
84	Evolution of white matter damage in amyotrophic lateral sclerosis. *Annals of Clinical and Translational Neurology*, **2020**, 7, 722-732	5.3	6
83	Microstructure Characterization of Bone Metastases from Prostate Cancer with Diffusion MRI: Preliminary Findings. *Frontiers in Oncology*, **2018**, 8, 26	5.3	6
82	Model-based registration to correct for motion between acquisitions in diffusion MR imaging **2008**,		6

81	Data-Driven multi-Contrast spectral microstructure imaging with InSpect: INtegrated SPECTral component estimation and mapping. *Medical Image Analysis*, **2021**, 71, 102045	15.4	6
80	Characterizing the spatiotemporal variability of Alzheimer disease pathology		5
79	Microscopic susceptibility anisotropy imaging. *Magnetic Resonance in Medicine*, **2020**, 84, 2739-2753	4.4	4
78	Using Unsupervised Learning to Identify Clinical Subtypes of Alzheimer's Disease in Electronic Health Records. *Studies in Health Technology and Informatics*, **2020**, 270, 499-503	0.5	4
77	A Vertex Clustering Model for Disease Progression: Application to Cortical Thickness Images. *Lecture Notes in Computer Science*, **2017**, 134-145	0.9	4
76	Quantitative detection and staging of presymptomatic cognitive decline in familial Alzheimer's disease: a retrospective cohort analysis. *Alzheimers Research and Therapy*, **2020**, 12, 126	9	4
75	In Utero Diffusion MRI: Challenges, Advances, and Applications. *Topics in Magnetic Resonance Imaging*, **2019**, 28, 255-264	2.3	4
74	The sequence of structural, functional and cognitive changes in multiple sclerosis. *NeuroImage: Clinical*, **2021**, 29, 102550	5.3	4
73	Detection of covert lesions in focal epilepsy using computational analysis of multimodal magnetic resonance imaging data. *Epilepsia*, **2021**, 62, 807-816	6.4	4
72	Improving the characterization of meningioma microstructure in proton therapy from conventional apparent diffusion coefficient measurements using Monte Carlo simulations of diffusion MRI. *Medical Physics*, **2021**, 48, 1250-1261	4.4	4
71	Tertiary lymphoid structures (TLS) identification and density assessment on H&E-stained digital slides of lung cancer. *PLoS ONE*, **2021**, 16, e0256907	3.7	4
70	On the potential for mapping apparent neural soma density via a clinically viable diffusion MRI protocol. *NeuroImage*, **2021**, 239, 118303	7.9	4
69	Uncovering the heterogeneity and temporal complexity of neurodegenerative diseases with Subtype and Stage Inference		3
68	Cognitive Changes associated with Alzheimer disease in Down syndrome		3
67	Higher-order diffusion MRI characterization of mesorectal lymph nodes in rectal cancer. *Magnetic Resonance in Medicine*, **2020**, 84, 348-364	4.4	3
66	Thoracic Imaging at Exacerbation of Chronic Obstructive Pulmonary Disease: A Systematic Review. *International Journal of COPD*, **2020**, 15, 1751-1787	3	3
65	Characterizing the Clinical Features and Atrophy Patterns of -Related Frontotemporal Dementia With Disease Progression Modeling. *Neurology*, **2021**, 97, e941-e952	6.5	3
64	Validation of low-dose lung cancer PET-CT protocol and PET image improvement using machine learning. *Physica Medica*, **2021**, 81, 285-294	2.7	3

63	On the generalizability of diffusion MRI signal representations across acquisition parameters, sequences and tissue types: Chronicles of the MEMENTO challenge. *NeuroImage*, **2021**, 240, 118367	7.9	3
62	Analyzing large Alzheimer's disease cognitive datasets: Considerations and challenges. *Alzheimer's and Dementia: Diagnosis, Assessment and Disease Monitoring*, **2020**, 12, e12135	5.2	2
61	Revealing the Timeline of Structural MRI Changes in Premanifest to Manifest Huntington Disease. *Neurology: Genetics*, **2021**, 7, e617	3.8	2
60	Disease Knowledge Transfer across Neurodegenerative Diseases. *Lecture Notes in Computer Science* , **2019**, 11765, 860-868	0.9	2
59	Longitudinal dynamics of mutant huntingtin and neurofilament light in Huntington's disease: the prospective HD-CSF study		2
58	Comparison of Neurite Orientation Dispersion and Density Imaging and Two-Compartment Spherical Mean Technique Parameter Maps in Multiple Sclerosis. *Frontiers in Neurology*, **2021**, 12, 662855	4.1	2
57	P1-372: SUBTYPES OF NEURODEGENERATION IN ALZHEIMER DISEASE: A HEAD-TO-HEAD COMPARISON OF FOUR BRAIN ATROPHY SUBTYPE ALGORITHMS IN ADNI **2018**, 14, P438-P439		2
56	Mortality in combined pulmonary fibrosis and emphysema patients is determined by the sum of pulmonary fibrosis and emphysema. *ERJ Open Research*, **2021**, 7,	3.5	2
55	Ordinal SuStaIn: Subtype and Stage Inference for Clinical Scores, Visual Ratings, and Other Ordinal Data. *Frontiers in Artificial Intelligence*, **2021**, 4, 613261	3	2
54	pySuStaIn: a Python implementation of the Subtype and Stage Inference algorithm.. *SoftwareX*, **2021**, 16, 100811-100811	2.7	2
53	Predicting Alzheimer's disease progression: Results from the TADPOLE Challenge. *Alzheimer's and Dementia*, **2020**, 16, e039538	1.2	1
52	Spatiotemporal imaging phenotypes of tau pathology in Alzheimer's disease. *Alzheimer's and Dementia*, **2020**, 16, e045612	1.2	1
51	Multimodal modelling of the heterogeneity of Alzheimer's disease. *Alzheimer's and Dementia*, **2020**, 16, e045822	1.2	1
50	[P1–443]: MULTIPLE DISTINCT ATROPHY PATTERNS FOUND IN GENETIC FRONTOTEMPORAL DEMENTIA USING SUBTYPE AND STAGE INFERENCE (SUSTAIN) **2017**, 13, P453-P454		1
49	[IC-P-154]: CHARACTERISING THE PROGRESSION OF ALZHEIMER's DISEASE SUBTYPES USING SUBTYPE AND STAGE INFERENCE (SUSTAIN) **2017**, 13, P116-P117		1
48	Ranking diffusion-MRI models with in-vivo human brain data **2013**,		1
47	Trajectories of Disease Accumulation Using Electronic Health Records. *Studies in Health Technology and Informatics*, **2020**, 270, 469-473	0.5	1
46	CRAFT (Cerclage after full dilatation caesarean section): protocol of a mixed methods study investigating the role of previous in-labour caesarean section in preterm birth risk. *BMC Pregnancy and Childbirth*, **2020**, 20, 698	3.2	1

45	Evaluation of PSA and PSA Density in a Multiparametric Magnetic Resonance Imaging-Directed Diagnostic Pathway for Suspected Prostate Cancer: The INNOVATE Trial. *Cancers*, **2021**, 13,	6.6	1
44	O3-03-01: THE SEQUENCE AND TIMING OF PRECLINICAL COGNITIVE DECLINE IN AUTOSOMAL DOMINANT ALZHEIMER'S DISEASE **2019**, 15, P882-P882		1
43	Learning Transition Times in Event Sequences: The Temporal Event-Based Model of Disease Progression. *Lecture Notes in Computer Science*, **2021**, 583-595	0.9	1
42	O3-10-04: GENOMEWIDE ASSOCIATION STUDY OF DATA-DRIVEN ALZHEIMER'S DISEASE SUBTYPES **2018**, 14, P1042-P1043		1
41	A Multi-Study Model-Based Evaluation of the Sequence of Imaging and Clinical Biomarker Changes in Huntington's Disease. *Frontiers in Big Data*, **2021**, 4, 662200	2.8	1
40	Temporal Progression Patterns of Brain Atrophy in Corticobasal Syndrome and Progressive Supranuclear Palsy Revealed by Subtype and Stage Inference (SuStaIn).. *Frontiers in Neurology*, **2022**, 13, 814768	4.1	1
39	AlzEye: longitudinal record-level linkage of ophthalmic imaging and hospital admissions of 353 157 patients in London, UK.. *BMJ Open*, **2022**, 12, e058552	3	1
38	Ten years of image analysis and machine learning competitions in dementia.. *NeuroImage*, **2022**, 119083	7.9	1
37	Identifying and evaluating clinical subtypes of Alzheimer's disease in care electronic health records using unsupervised machine learning. *BMC Medical Informatics and Decision Making*, **2021**, 21, 343	3.6	1
36	Degenerative adversarial neuroimage nets for brain scan simulations: Application in ageing and dementia. *Medical Image Analysis*, **2021**, 75, 102257	15.4	0
35	Subtype and stage inference identifies distinct atrophy patterns in genetic frontotemporal dementia that MAP onto specific MAPT mutations. *Alzheimer's and Dementia*, **2020**, 16, e042996	1.2	0
34	Multiple b-values improve discrimination of cortical gray matter regions using diffusion MRI: an experimental validation with a data-driven approach. *Magnetic Resonance Materials in Physics, Biology, and Medicine*, **2021**, 34, 677-687	2.8	0
33	Inter-Cohort Validation of SuStaIn Model for Alzheimer's Disease. *Frontiers in Big Data*, **2021**, 4, 661110	2.8	0
32	Pleuroparenchymal fibroelastosis in idiopathic pulmonary fibrosis: Survival analysis using visual and computer-based computed tomography assessment. *EClinicalMedicine*, **2021**, 38, 101009	11.3	0
31	Opportunities and Barriers for Adoption of a Decision-Support Tool for Alzheimer's Disease. *ACM Transactions on Computing for Healthcare*, **2021**, 2, 1-19	2.6	0
30	Characterising the spatiotemporal heterogeneity of neurodegenerative diseases using subtype and stage inference. *Alzheimer's and Dementia*, **2020**, 16, e037996	1.2	
29	Accounting for systematic spatiotemporal variation improves connectome-based models of tau spreading in human Alzheimer's disease. *Alzheimer's and Dementia*, **2020**, 16, e040586	1.2	
28	Show, don't tell: Brain visualisations for neuroimaging studies. *Alzheimer's and Dementia*, **2020**, 16, e041927	1.2	

27	Inter-cohort staging efficacy of gaussian process progression model for Alzheimer's disease. *Alzheimer's and Dementia*, **2020**, 16, e043246	1.2
26	Cognitive and clinical outcome measures for Alzheimer's disease prevention trials in adults with Down syndrome. *Alzheimer's and Dementia*, **2020**, 16, e043478	1.2
25	Augmenting cognitive assessment with instruction-less Eye-tracking tests: A machine learning approach for detecting abnormal oculomotor biomarkers. *Alzheimer's and Dementia*, **2020**, 16, e045318	1.2
24	Tau-first subtype of Alzheimer's disease progression consistently identified through PET and CSF. *Alzheimer's and Dementia*, **2020**, 16, e045412	1.2
23	Augmenting cognitive assessment with instruction-less eye-tracking tests: A machine learning approach for detecting abnormal oculomotor biomarkers. *Alzheimer's and Dementia*, **2020**, 16, e045483	1.2
22	Reply to: Early white matter changes on diffusion tensor imaging in amyotrophic lateral sclerosis. *Annals of Clinical and Translational Neurology*, **2020**, 7, 1266-1267	5.3
21	[P4–261]: LONGITUDINAL EVALUATION OF NEUROPSYCHOLOGICAL AND NEUROIMAGING PROGRESSION IN POSTERIOR CORTICAL ATROPHY **2017**, 13, P1382-P1383	
20	[IC-P-079]: MULTIPLE DISTINCT ATROPHY PATTERNS FOUND IN GENETIC FRONTOTEMPORAL DEMENTIA USING SUBTYPE AND STAGE INFERENCE (SUSTAIN) **2017**, 13, P65-P66	
19	[P2–414]: CHARACTERISING THE PROGRESSION OF ALZHEIMER's DISEASE SUBTYPES USING SUBTYPE AND STAGE INFERENCE (SUSTAIN) **2017**, 13, P791-P792	
18	[P4–164]: DATA-DRIVEN MODELS OF DISEASE PROGRESSION AND APPLICATIONS TO ALZHEIMER's DISEASE: EVENT-BASED MODEL AND DIFFERENTIAL EQUATION MODELS OF BIOMARKER CHANGES IN ADNI **2017**, 13, P1323-P1325	
17	[P4–230]: LONGITUDINAL NEURITE ORIENTATION DISPERSION AND DENSITY IMAGING IN YOUNG-ONSET ALZHEIMER'S DISEASE **2017**, 13, P1359-P1360	
16	[P4–257]: ANALYSIS OF THE HETEROGENEITY OF POSTERIOR CORTICAL ATROPHY: DATA-DRIVEN MODEL PREDICTS DISTINCT ATROPHY PATTERNS FOR THREE DIFFERENT COGNITIVE SUBGROUPS **2017**, 13, P1379-P1380	
15	[P4–289]: CAN EYETRACKING METRICS RELATE TO PERFORMANCE ON VISUAL COGNITIVE TESTS OF INDIVIDUALS WITH YOUNG-ONSET ALZHEIMER's DISEASE? **2017**, 13, P1397-P1398	
14	[IC-P-141]: ANALYSIS OF THE HETEROGENEITY OF POSTERIOR CORTICAL ATROPHY: DATA-DRIVEN MODEL PREDICTS DISTINCT ATROPHY PATTERNS FOR THREE DIFFERENT COGNITIVE SUBGROUPS **2017**, 13, P106-P108	
13	[IC-P-168]: LONGITUDINAL NEURITE ORIENTATION DISPERSION AND DENSITY IMAGING IN YOUNG-ONSET ALZHEIMER'S DISEASE **2017**, 13, P127-P127	
12	Guest Editorial Special Issue on Computational Diffusion MRI. *IEEE Transactions on Medical Imaging*, **2007**, 26, 1425-1427	11.7
11	Presumed small vessel disease, imaging and cognition markers in the Alzheimer's Disease Neuroimaging Initiative. *Brain Communications*, **2021**, 3, fcab226	4.5
10	IC-P-159: AMYLOID-BETA ACCUMULATION AFFECTS IN VIVO STAGING OF TAU DEPOSITION IN COGNITIVELY IMPAIRED INDIVIDUALS **2019**, 15, P127-P128	

9 TD-P-024: EFFECTS OF VISUAL ENVIRONMENT ON FIXATION AND GAIT PARAMETERS IN ALZHEIMER'S DISEASE AND POSTERIOR CORTICAL ATROPHY **2018**, 14, P196-P197

8 P4-148: ECHOES AROUND THE HOME: CAN THE AMAZON ECHO BE USED IN THE HOME TO HELP THOSE LIVING WITH DEMENTIA? **2018**, 14, P1495-P1496

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