

Mark Jenkinson

List of Publications by Citations

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

207
papers

66,084
citations

77
h-index

234
g-index

234
ext. papers

80,424
ext. citations

7.2
avg, IF

7.67
L-index

#	Paper	IF	Citations
207	Advances in functional and structural MR image analysis and implementation as FSL. <i>NeuroImage</i> , 2004 , 23 Suppl 1, S208-19	7.9	8876
206	Improved Optimization for the Robust and Accurate Linear Registration and Motion Correction of Brain Images. <i>NeuroImage</i> , 2002 , 17, 825-841	7.9	6869
205	FSL. <i>NeuroImage</i> , 2012 , 62, 782-90	7.9	5752
204	Improved optimization for the robust and accurate linear registration and motion correction of brain images. <i>NeuroImage</i> , 2002 , 17, 825-41	7.9	4786
203	Tract-based spatial statistics: voxelwise analysis of multi-subject diffusion data. <i>NeuroImage</i> , 2006 , 31, 1487-505	7.9	4763
202	A global optimisation method for robust affine registration of brain images. <i>Medical Image Analysis</i> , 2001 , 5, 143-56	15.4	4744
201	The minimal preprocessing pipelines for the Human Connectome Project. <i>NeuroImage</i> , 2013 , 80, 105-24	7.9	2298
200	A multi-modal parcellation of human cerebral cortex. <i>Nature</i> , 2016 , 536, 171-178	50.4	2046
199	Evaluation of 14 nonlinear deformation algorithms applied to human brain MRI registration. <i>NeuroImage</i> , 2009 , 46, 786-802	7.9	1603
198	Accurate, robust, and automated longitudinal and cross-sectional brain change analysis. <i>NeuroImage</i> , 2002 , 17, 479-89	7.9	1571
197	Bayesian analysis of neuroimaging data in FSL. <i>NeuroImage</i> , 2009 , 45, S173-86	7.9	1553
196	A Bayesian model of shape and appearance for subcortical brain segmentation. <i>NeuroImage</i> , 2011 , 56, 907-22	7.9	1531
195	Multilevel linear modelling for FMRI group analysis using Bayesian inference. <i>NeuroImage</i> , 2004 , 21, 1732-47	7.9	1171
194	General multilevel linear modeling for group analysis in FMRI. <i>NeuroImage</i> , 2003 , 20, 1052-63	7.9	1127
193	Multimodal population brain imaging in the UK Biobank prospective epidemiological study. <i>Nature Neuroscience</i> , 2016 , 19, 1523-1536	25.5	739
192	Anatomically related grey and white matter abnormalities in adolescent-onset schizophrenia. <i>Brain</i> , 2007 , 130, 2375-86	11.2	605
191	Common genetic variants influence human subcortical brain structures. <i>Nature</i> , 2015 , 520, 224-9	50.4	601

190	Advances in diffusion MRI acquisition and processing in the Human Connectome Project. <i>NeuroImage</i> , 2013 , 80, 125-43	7.9	596
189	Functional connectomics from resting-state fMRI. <i>Trends in Cognitive Sciences</i> , 2013 , 17, 666-82	14	560
188	Temporally-independent functional modes of spontaneous brain activity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 3131-6	11.5	555
187	The ENIGMA Consortium: large-scale collaborative analyses of neuroimaging and genetic data. <i>Brain Imaging and Behavior</i> , 2014 , 8, 153-82	4.1	539
186	Fast, automated, N-dimensional phase-unwrapping algorithm. <i>Magnetic Resonance in Medicine</i> , 2003 , 49, 193-7	4.4	533
185	Identification of common variants associated with human hippocampal and intracranial volumes. <i>Nature Genetics</i> , 2012 , 44, 552-61	36.3	498
184	The Human Connectome Project's neuroimaging approach. <i>Nature Neuroscience</i> , 2016 , 19, 1175-87	25.5	482
183	Acquisition and voxelwise analysis of multi-subject diffusion data with tract-based spatial statistics. <i>Nature Protocols</i> , 2007 , 2, 499-503	18.8	472
182	Image processing and Quality Control for the first 10,000 brain imaging datasets from UK Biobank. <i>NeuroImage</i> , 2018 , 166, 400-424	7.9	415
181	Normalized accurate measurement of longitudinal brain change. <i>Journal of Computer Assisted Tomography</i> , 2001 , 25, 466-75	2.2	377
180	MSM: a new flexible framework for Multimodal Surface Matching. <i>NeuroImage</i> , 2014 , 100, 414-26	7.9	347
179	MIND: modality independent neighbourhood descriptor for multi-modal deformable registration. <i>Medical Image Analysis</i> , 2012 , 16, 1423-35	15.4	337
178	Social network size affects neural circuits in macaques. <i>Science</i> , 2011 , 334, 697-700	33.3	332
177	Evaluation of registration methods on thoracic CT: the EMPIRE10 challenge. <i>IEEE Transactions on Medical Imaging</i> , 2011 , 30, 1901-20	11.7	311
176	Imaging dopamine receptors in humans with [11C]-(+)-PHNO: dissection of D3 signal and anatomy. <i>NeuroImage</i> , 2011 , 54, 264-77	7.9	308
175	Informatics and data mining tools and strategies for the human connectome project. <i>Frontiers in Neuroinformatics</i> , 2011 , 5, 4	3.9	288
174	The motor cortex shows adaptive functional changes to brain injury from multiple sclerosis. <i>Annals of Neurology</i> , 2000 , 47, 606-613	9.4	240
173	Human Connectome Project informatics: quality control, database services, and data visualization. <i>NeuroImage</i> , 2013 , 80, 202-19	7.9	221

172	Evaluating and reducing the impact of white matter lesions on brain volume measurements. <i>Human Brain Mapping</i> , 2012 , 33, 2062-71	5.9	206
171	Connectivity-based functional analysis of dopamine release in the striatum using diffusion-weighted MRI and positron emission tomography. <i>Cerebral Cortex</i> , 2014 , 24, 1165-77	5.1	203
170	Diffusion imaging of whole, post-mortem human brains on a clinical MRI scanner. <i>NeuroImage</i> , 2011 , 57, 167-181	7.9	193
169	BIANCA (Brain Intensity AbNormality Classification Algorithm): A new tool for automated segmentation of white matter hyperintensities. <i>NeuroImage</i> , 2016 , 141, 191-205	7.9	184
168	Fully Bayesian spatio-temporal modeling of fMRI data. <i>IEEE Transactions on Medical Imaging</i> , 2004 , 23, 213-31	11.7	181
167	Novel genetic loci associated with hippocampal volume. <i>Nature Communications</i> , 2017 , 8, 13624	17.4	173
166	Medium-term effects of SARS-CoV-2 infection on multiple vital organs, exercise capacity, cognition, quality of life and mental health, post-hospital discharge. <i>EClinicalMedicine</i> , 2021 , 31, 100683	11.3	164
165	The developing human connectome project: A minimal processing pipeline for neonatal cortical surface reconstruction. <i>NeuroImage</i> , 2018 , 173, 88-112	7.9	158
164	Distinction of seropositive NMO spectrum disorder and MS brain lesion distribution. <i>Neurology</i> , 2013 , 80, 1330-7	6.5	158
163	Physiological noise modelling for spinal functional magnetic resonance imaging studies. <i>NeuroImage</i> , 2008 , 39, 680-92	7.9	158
162	An evaluation of four automatic methods of segmenting the subcortical structures in the brain. <i>NeuroImage</i> , 2009 , 47, 1435-47	7.9	148
161	Novel genetic loci underlying human intracranial volume identified through genome-wide association. <i>Nature Neuroscience</i> , 2016 , 19, 1569-1582	25.5	147
160	MRF-based deformable registration and ventilation estimation of lung CT. <i>IEEE Transactions on Medical Imaging</i> , 2013 , 32, 1239-48	11.7	146
159	Manifestations of early brain recovery associated with abstinence from alcoholism. <i>Brain</i> , 2007 , 130, 36-47	11.2	146
158	Structural MRI changes detectable up to ten years before clinical Alzheimer's disease. <i>Neurobiology of Aging</i> , 2012 , 33, 825.e25-36	5.6	141
157	Variability in fMRI: a re-examination of inter-session differences. <i>Human Brain Mapping</i> , 2005 , 24, 248-57	5.9	140
156	Combining shape and connectivity analysis: an MRI study of thalamic degeneration in Alzheimer's disease. <i>NeuroImage</i> , 2010 , 49, 1-8	7.9	138
155	Brain MRI atrophy quantification in MS: From methods to clinical application. <i>Neurology</i> , 2017 , 88, 403-413	6.5	134

154	Fast, Fully Automated Global and Local Magnetic Field Optimization for fMRI of the Human Brain. <i>NeuroImage</i> , 2002 , 17, 967-976	7.9	133
153	Color of scents: chromatic stimuli modulate odor responses in the human brain. <i>Journal of Neurophysiology</i> , 2005 , 93, 3434-41	3.2	132
152	BIDS apps: Improving ease of use, accessibility, and reproducibility of neuroimaging data analysis methods. <i>PLoS Computational Biology</i> , 2017 , 13, e1005209	5	129
151	Physiological noise in brainstem FMRI. <i>Frontiers in Human Neuroscience</i> , 2013 , 7, 623	3.3	128
150	Brainstem functional magnetic resonance imaging: disentangling signal from physiological noise. <i>Journal of Magnetic Resonance Imaging</i> , 2008 , 28, 1337-44	5.6	127
149	In vivo identification of human cortical areas using high-resolution MRI: an approach to cerebral structure-function correlation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003 , 100, 2981-6	11.5	126
148	Multimodal surface matching with higher-order smoothness constraints. <i>NeuroImage</i> , 2018 , 167, 453-465	7.9	124
147	Optimizing parameter choice for FSL-Brain Extraction Tool (BET) on 3D T1 images in multiple sclerosis. <i>NeuroImage</i> , 2012 , 61, 1484-94	7.9	116
146	fMRI reveals neural activity overlap between adult and infant pain. <i>ELife</i> , 2015 , 4,	8.9	115
145	A combined post-mortem magnetic resonance imaging and quantitative histological study of multiple sclerosis pathology. <i>Brain</i> , 2012 , 135, 2938-51	11.2	111
144	Classification and characterization of periventricular and deep white matter hyperintensities on MRI: A study in older adults. <i>NeuroImage</i> , 2018 , 170, 174-181	7.9	110
143	The effect of hypointense white matter lesions on automated gray matter segmentation in multiple sclerosis. <i>Human Brain Mapping</i> , 2012 , 33, 2802-14	5.9	99
142	Brain surface contraction mapped in first-episode schizophrenia: a longitudinal magnetic resonance imaging study. <i>Molecular Psychiatry</i> , 2009 , 14, 976-86	15.1	99
141	Targeting ASIC1 in primary progressive multiple sclerosis: evidence of neuroprotection with amiloride. <i>Brain</i> , 2013 , 136, 106-15	11.2	98
140	Evaluating fibre orientation dispersion in white matter: Comparison of diffusion MRI, histology and polarized light imaging. <i>NeuroImage</i> , 2017 , 157, 561-574	7.9	95
139	Correspondences between retinotopic areas and myelin maps in human visual cortex. <i>NeuroImage</i> , 2014 , 99, 509-24	7.9	93
138	Longitudinal and cross-sectional analysis of atrophy in Alzheimer's disease: cross-validation of BSI, SIENA and SIENAX. <i>NeuroImage</i> , 2007 , 36, 1200-6	7.9	93
137	The Developing Human Connectome Project: a Minimal Processing Pipeline for Neonatal Cortical Surface Reconstruction 2018 , 173, 88-112		88

136	Recommendations to improve imaging and analysis of brain lesion load and atrophy in longitudinal studies of multiple sclerosis. <i>Journal of Neurology</i> , 2013 , 260, 2458-71	5.5	83
135	Independent anatomical and functional measures of the V1/V2 boundary in human visual cortex. <i>Journal of Vision</i> , 2005 , 5, 93-102	0.4	83
134	Optimization of static field homogeneity in human brain using diamagnetic passive shims. <i>Magnetic Resonance in Medicine</i> , 2002 , 48, 906-14	4.4	82
133	Towards realtime multimodal fusion for image-guided interventions using self-similarities. <i>Lecture Notes in Computer Science</i> , 2013 , 16, 187-94	0.9	81
132	Multi-modal characterization of rapid anterior hippocampal volume increase associated with aerobic exercise. <i>NeuroImage</i> , 2016 , 131, 162-70	7.9	79
131	White matter and lesion T1 relaxation times increase in parallel and correlate with disability in multiple sclerosis. <i>Journal of Neurology</i> , 2002 , 249, 1279-86	5.5	79
130	Structural changes of the brain in rheumatoid arthritis. <i>Arthritis and Rheumatism</i> , 2012 , 64, 371-9		75
129	Neuroanatomy of impaired self-awareness in Alzheimer's disease and mild cognitive impairment. <i>Cortex</i> , 2013 , 49, 668-78	3.8	72
128	Development of a functional magnetic resonance imaging simulator for modeling realistic rigid-body motion artifacts. <i>Magnetic Resonance in Medicine</i> , 2006 , 56, 364-80	4.4	71
127	Large-scale probabilistic functional modes from resting state fMRI. <i>NeuroImage</i> , 2015 , 109, 217-31	7.9	67
126	Association of Cardiovascular Risk Factors With MRI Indices of Cerebrovascular Structure and Function and White Matter Hyperintensities in Young Adults. <i>JAMA - Journal of the American Medical Association</i> , 2018 , 320, 665-673	27.4	66
125	Comprehensive morphometry of subcortical grey matter structures in early-stage Parkinson's disease. <i>Human Brain Mapping</i> , 2014 , 35, 1681-90	5.9	66
124	Hippocampal volume across age: Nomograms derived from over 19,700 people in UK Biobank. <i>NeuroImage: Clinical</i> , 2019 , 23, 101904	5.3	64
123	Assessment of physiological noise modelling methods for functional imaging of the spinal cord. <i>NeuroImage</i> , 2012 , 60, 1538-49	7.9	63
122	Lesion probability mapping to explain clinical deficits and cognitive performance in multiple sclerosis. <i>Multiple Sclerosis Journal</i> , 2011 , 17, 681-9	5	62
121	Study protocol: The Whitehall II imaging sub-study. <i>BMC Psychiatry</i> , 2014 , 14, 159	4.2	58
120	Challenges in the reproducibility of clinical studies with resting state fMRI: An example in early Parkinson's disease. <i>NeuroImage</i> , 2016 , 124, 704-713	7.9	55
119	Gray matter volume is associated with rate of subsequent skill learning after a long term training intervention. <i>NeuroImage</i> , 2014 , 96, 158-66	7.9	53

118	A consistent relationship between local white matter architecture and functional specialisation in medial frontal cortex. <i>NeuroImage</i> , 2006 , 30, 220-7	7.9	52
117	Perturbation method for magnetic field calculations of nonconductive objects. <i>Magnetic Resonance in Medicine</i> , 2004 , 52, 471-7	4.4	52
116	Resting functional connectivity reveals residual functional activity in Alzheimer's disease. <i>Biological Psychiatry</i> , 2013 , 74, 375-83	7.9	51
115	Applying FSL to the FIAC data: model-based and model-free analysis of voice and sentence repetition priming. <i>Human Brain Mapping</i> , 2006 , 27, 380-91	5.9	51
114	Two-dimensional population map of cortical connections in the human internal capsule. <i>Journal of Magnetic Resonance Imaging</i> , 2007 , 25, 48-54	5.6	50
113	Meaningful design and contrast estimability in fMRI. <i>NeuroImage</i> , 2007 , 34, 127-36	7.9	50
112	Functional subdivision of the human periaqueductal grey in respiratory control using 7 tesla fMRI. <i>NeuroImage</i> , 2015 , 113, 356-64	7.9	48
111	Automatic segmentation of the striatum and globus pallidus using MIST: Multimodal Image Segmentation Tool. <i>NeuroImage</i> , 2016 , 125, 479-497	7.9	47
110	Construction of a neonatal cortical surface atlas using Multimodal Surface Matching in the Developing Human Connectome Project. <i>NeuroImage</i> , 2018 , 179, 11-29	7.9	45
109	Whole-brain magnetic resonance spectroscopic imaging measures are related to disability in ALS. <i>Neurology</i> , 2013 , 80, 610-5	6.5	44
108	Automated segmentation of the substantia nigra, subthalamic nucleus and red nucleus in 7T data at young and old age. <i>NeuroImage</i> , 2016 , 139, 324-336	7.9	43
107	Conditioned respiratory threat in the subdivisions of the human periaqueductal gray. <i>ELife</i> , 2016 , 5,	8.9	41
106	Quantitative assessment of the susceptibility artefact and its interaction with motion in diffusion MRI. <i>PLoS ONE</i> , 2017 , 12, e0185647	3.7	40
105	Reducing distortions in diffusion-weighted echo planar imaging with a dual-echo blip-reversed sequence. <i>Magnetic Resonance in Medicine</i> , 2010 , 64, 382-90	4.4	39
104	Magnetic resonance imaging in late-life depression: vascular and glucocorticoid cascade hypotheses. <i>British Journal of Psychiatry</i> , 2012 , 201, 46-51	5.4	37
103	Cross-species cortical alignment identifies different types of anatomical reorganization in the primate temporal lobe. <i>ELife</i> , 2020 , 9,	8.9	37
102	Stimulus site and modality dependence of functional activity within the human spinal cord. <i>Journal of Neuroscience</i> , 2012 , 32, 6231-9	6.6	34
101	Imaging Surrogates of Disease Activity in Neuromyelitis Optica Allow Distinction from Multiple Sclerosis. <i>PLoS ONE</i> , 2015 , 10, e0137715	3.7	31

100	Multimodal surface matching: fast and generalisable cortical registration using discrete optimisation. <i>Lecture Notes in Computer Science</i> , 2013 , 23, 475-86	0.9	31
99	Comparison and evaluation of segmentation techniques for subcortical structures in brain MRI. <i>Lecture Notes in Computer Science</i> , 2008 , 11, 409-16	0.9	28
98	The developing Human Connectome Project (dHCP) automated resting-state functional processing framework for newborn infants. <i>NeuroImage</i> , 2020 , 223, 117303	7.9	28
97	Denosing spinal cord fMRI data: Approaches to acquisition and analysis. <i>NeuroImage</i> , 2017 , 154, 255-266	7.9	27
96	Simulating the effects of time-varying magnetic fields with a realistic simulated scanner. <i>Magnetic Resonance Imaging</i> , 2010 , 28, 1014-21	3.3	27
95	Learning patterns of the ageing brain in MRI using deep convolutional networks. <i>NeuroImage</i> , 2021 , 224, 117401	7.9	27
94	Dissecting the pathobiology of altered MRI signal in amyotrophic lateral sclerosis: A post mortem whole brain sampling strategy for the integration of ultra-high-field MRI and quantitative neuropathology. <i>BMC Neuroscience</i> , 2018 , 19, 11	3.2	26
93	Target identification for stereotactic thalamotomy using diffusion tractography. <i>PLoS ONE</i> , 2012 , 7, e29969	3.69	26
92	Sharing brain mapping statistical results with the neuroimaging data model. <i>Scientific Data</i> , 2016 , 3, 160102	3.02	26
91	White Matter Imaging Correlates of Early Cognitive Impairment Detected by the Montreal Cognitive Assessment After Transient Ischemic Attack and Minor Stroke. <i>Stroke</i> , 2017 , 48, 1539-1547	6.7	25
90	Common Genetic Variation Indicates Separate Causes for Periventricular and Deep White Matter Hyperintensities. <i>Stroke</i> , 2020 , 51, 2111-2121	6.7	23
89	Optimizing full-brain coverage in human brain MRI through population distributions of brain size. <i>NeuroImage</i> , 2014 , 98, 513-20	7.9	23
88	Quantitative susceptibility mapping by inversion of a perturbation field model: correlation with brain iron in normal aging. <i>IEEE Transactions on Medical Imaging</i> , 2015 , 34, 339-53	11.7	23
87	Quantifying the pattern of optic tract degeneration in human hemianopia. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2014 , 85, 379-86	5.5	23
86	Protocol to determine the optimal intraoral passive shim for minimisation of susceptibility artifact in human inferior frontal cortex. <i>NeuroImage</i> , 2003 , 19, 1802-11	7.9	23
85	Generalised overlap measures for assessment of pairwise and groupwise image registration and segmentation. <i>Lecture Notes in Computer Science</i> , 2005 , 8, 99-106	0.9	22
84	Motion correction and parameter estimation in dceMRI sequences: application to colorectal cancer. <i>Lecture Notes in Computer Science</i> , 2011 , 14, 476-83	0.9	21
83	Can correcting feature location in simulated mean climate improve agreement on projected changes?. <i>Geophysical Research Letters</i> , 2013 , 40, 354-358	4.9	19

82	A Framework for Detailed Objective Comparison of Non-rigid Registration Algorithms in Neuroimaging. <i>Lecture Notes in Computer Science</i> , 2004 , 679-686	0.9	19
81	Globally optimal deformable registration on a minimum spanning tree using dense displacement sampling. <i>Lecture Notes in Computer Science</i> , 2012 , 15, 115-22	0.9	19
80	Quantitative FLAIR MRI in Amyotrophic Lateral Sclerosis. <i>Academic Radiology</i> , 2017 , 24, 1187-1194	4.3	18
79	Deep learning-based unlearning of dataset bias for MRI harmonisation and confound removal. <i>NeuroImage</i> , 2021 , 228, 117689	7.9	18
78	Alteration to hippocampal volume and shape confined to cannabis dependence: a multi-site study. <i>Addiction Biology</i> , 2019 , 24, 822-834	4.6	17
77	Automated lesion segmentation with BIANCA: Impact of population-level features, classification algorithm and locally adaptive thresholding. <i>NeuroImage</i> , 2019 , 202, 116056	7.9	17
76	Novel Fast Marching for Automated Segmentation of the Hippocampus (FMASH): method and validation on clinical data. <i>NeuroImage</i> , 2011 , 55, 1009-19	7.9	17
75	Integrating temporal information with a non-rigid method of motion correction for functional magnetic resonance images. <i>Image and Vision Computing</i> , 2007 , 25, 311-320	3.7	17
74	Accurate Robust Symmetry Estimation. <i>Lecture Notes in Computer Science</i> , 1999 , 308-317	0.9	17
73	Optimising neonatal fMRI data analysis: Design and validation of an extended dHCP preprocessing pipeline to characterise noxious-evoked brain activity in infants. <i>NeuroImage</i> , 2019 , 186, 286-300	7.9	17
72	Allostatic load as a predictor of grey matter volume and white matter integrity in old age: The Whitehall II MRI study. <i>Scientific Reports</i> , 2018 , 8, 6411	4.9	16
71	Optimizing image registration and infarct definition in stroke research. <i>Annals of Clinical and Translational Neurology</i> , 2017 , 4, 166-174	5.3	15
70	Structural and functional bases of visuospatial associative memory in older adults. <i>Neurobiology of Aging</i> , 2013 , 34, 961-72	5.6	14
69	Artificial intelligence for clinical decision support in neurology. <i>Brain Communications</i> , 2020 , 2, fcaa096	4.5	14
68	Optimal echo time for functional MRI of the infant brain identified in response to noxious stimulation. <i>Magnetic Resonance in Medicine</i> , 2017 , 78, 625-631	4.4	13
67	Donepezil Enhances Frontal Functional Connectivity in Alzheimer's Disease: A Pilot Study. <i>Dementia and Geriatric Cognitive Disorders Extra</i> , 2016 , 6, 518-528	2.5	13
66	SIENA-XL for improving the assessment of gray and white matter volume changes on brain MRI. <i>Human Brain Mapping</i> , 2018 , 39, 1063-1077	5.9	13
65	Separation of trait and state in stuttering. <i>Human Brain Mapping</i> , 2018 , 39, 3109-3126	5.9	12

64	Relating diffusion tensor imaging measurements to microstructural quantities in the cerebral cortex in multiple sclerosis. <i>Human Brain Mapping</i> , 2019 , 40, 4417-4431	5.9	12
63	A marginalized MAP approach and EM optimization for pair-wise registration. <i>Lecture Notes in Computer Science</i> , 2007 , 20, 662-74	0.9	11
62	Non-local shape descriptor: a new similarity metric for deformable multi-modal registration. <i>Lecture Notes in Computer Science</i> , 2011 , 14, 541-8	0.9	11
61	Quantifying Infarct Growth and Secondary Injury Volumes: Comparing Multimodal Image Registration Measures. <i>Stroke</i> , 2018 , 49, 1647-1655	6.7	10
60	Optimizing RetrolCor and RetroKCor corrections for multi-shot 3D fMRI acquisitions. <i>NeuroImage</i> , 2014 , 84, 394-405	7.9	10
59	Edge- and detail-preserving sparse image representations for deformable registration of chest MRI and CT volumes. <i>Lecture Notes in Computer Science</i> , 2013 , 23, 463-74	0.9	10
58	HIV Distal Neuropathic Pain Is Associated with Smaller Ventral Posterior Cingulate Cortex. <i>Pain Medicine</i> , 2017 , 18, 428-440	2.8	10
57	Atlas-based improved prediction of magnetic field inhomogeneity for distortion correction of EPI data. <i>Lecture Notes in Computer Science</i> , 2009 , 12, 951-9	0.9	7
56	Performance of single spin-echo and doubly refocused diffusion-weighted sequences in the presence of eddy current fields with multiple components. <i>Magnetic Resonance Imaging</i> , 2011 , 29, 659-673	3.3	7
55	TIGER: A New Model for Spatio-temporal Realignment of fMRI Data. <i>Lecture Notes in Computer Science</i> , 2004 , 292-303	0.9	6
54	Image Processing and Quality Control for the first 10,000 Brain Imaging Datasets from UK Biobank		6
53	Tensor Image Registration Library: Automated Non-Linear Registration of Sparsely Sampled Histological Specimens to Post-Mortem MRI of the Whole Human Brain		6
52	A saliency-based hierarchy for local symmetries. <i>Image and Vision Computing</i> , 2002 , 20, 85-101	3.7	5
51	Spatial Warping Network for 3D Segmentation of the Hippocampus in MR Images. <i>Lecture Notes in Computer Science</i> , 2019 , 284-291	0.9	5
50	Can correcting feature location in simulated mean climate improve agreement on projected changes? 2013 , 40, 354		5
49	Cross-species cortical alignment identifies different types of neuroanatomical reorganization in the temporal lobe of higher primates		5
48	The developing Human Connectome Project (dHCP) automated resting-state functional processing framework for newborn infants		5
47	One-year changes in brain microstructure differentiate preclinical Huntington's disease stages. <i>NeuroImage: Clinical</i> , 2020 , 25, 102099	5.3	5

46	Contrasting the brain imaging features of MOG-antibody disease, with AQP4-antibody NMOSD and multiple sclerosis. <i>Multiple Sclerosis Journal</i> , 2021 , 13524585211018987	5	5
45	Detection of Alzheimer's Disease using cortical diffusion tensor imaging. <i>Human Brain Mapping</i> , 2021 , 42, 967-977	5.9	5
44	Feasibility of Diffusion Tensor and Morphologic Imaging of Peripheral Nerves at Ultra-High Field Strength. <i>Investigative Radiology</i> , 2018 , 53, 705-713	10.1	5
43	Triplanar ensemble U-Net model for white matter hyperintensities segmentation on MR images. <i>Medical Image Analysis</i> , 2021 , 73, 102184	15.4	5
42	Quantitative Susceptibility Mapping for Characterization of Intraplaque Hemorrhage and Calcification in Carotid Atherosclerotic Disease. <i>Journal of Magnetic Resonance Imaging</i> , 2020 , 52, 534-541	5.6	5
41	Textural mutual information based on cluster trees for multimodal deformable registration 2012 ,		4
40	Methods for tractography-driven surface registration of brain structures. <i>Lecture Notes in Computer Science</i> , 2009 , 12, 705-12	0.9	4
39	Construction of a neonatal cortical surface atlas using multimodal surface matching 2016 ,		4
38	Modelling the distribution of white matter hyperintensities due to ageing on MRI images using Bayesian inference. <i>NeuroImage</i> , 2019 , 185, 434-445	7.9	4
37	Correcting precipitation feature location in general circulation models. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 13,350-13,369	4.4	3
36	Fieldmap-free retrospective registration and distortion correction for EPI-based functional imaging. <i>Lecture Notes in Computer Science</i> , 2008 , 11, 271-9	0.9	3
35	Unlearning Scanner Bias for MRI Harmonisation. <i>Lecture Notes in Computer Science</i> , 2020 , 369-378	0.9	3
34	High resolution nonlinear registration with simultaneous modelling of intensities		3
33	BIDS Apps: Improving ease of use, accessibility, and reproducibility of neuroimaging data analysis methods		3
32	Brain Tumour Segmentation Using a Triplanar Ensemble of U-Nets on MR Images. <i>Lecture Notes in Computer Science</i> , 2021 , 340-353	0.9	3
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