Stephen M Smith

List of Publications by Citations

280 papers	107,029 citations	105 h-index	314 g-index
314 ext. papers	131,317 ext. citations	8.9 avg, IF	8.53 L-index

#	Paper	IF	Citations
280	Advances in functional and structural MR image analysis and implementation as FSL. *NeuroImage*, **2004**, 23 Suppl 1, S208-19	7.9	8876
279	Fast robust automated brain extraction. *Human Brain Mapping*, **2002**, 17, 143-55	5.9	7438
278	Improved Optimization for the Robust and Accurate Linear Registration and Motion Correction of Brain Images. *NeuroImage*, **2002**, 17, 825-841	7.9	6869
277	FSL. *NeuroImage*, **2012**, 62, 782-90	7.9	5752
276	Improved optimization for the robust and accurate linear registration and motion correction of brain images. *NeuroImage*, **2002**, 17, 825-41	7.9	4786
275	Tract-based spatial statistics: voxelwise analysis of multi-subject diffusion data. *NeuroImage*, **2006**, 31, 1487-505	7.9	4763
274	A global optimisation method for robust affine registration of brain images. *Medical Image Analysis*, **2001**, 5, 143-56	15.4	4744
273	Correspondence of the brain's functional architecture during activation and rest. *Proceedings of the National Academy of Sciences of the United States of America*, **2009**, 106, 13040-5	11.5	3661
272	Threshold-free cluster enhancement: addressing problems of smoothing, threshold dependence and localisation in cluster inference. *NeuroImage*, **2009**, 44, 83-98	7.9	3377
271	The WU-Minn Human Connectome Project: an overview. *NeuroImage*, **2013**, 80, 62-79	7.9	2585
270	Investigations into resting-state connectivity using independent component analysis. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2005**, 360, 1001-13	5.8	2523
269	A multi-modal parcellation of human cerebral cortex. *Nature*, **2016**, 536, 171-178	50.4	2046
268	Temporal autocorrelation in univariate linear modeling of FMRI data. *NeuroImage*, **2001**, 14, 1370-86	7.9	1941
267	Permutation inference for the general linear model. *NeuroImage*, **2014**, 92, 381-97	7.9	1884
266	Probabilistic independent component analysis for functional magnetic resonance imaging. *IEEE Transactions on Medical Imaging*, **2004**, 23, 137-52	11.7	1879
265	SUSAN A New Approach to Low Level Image Processing **1997**, 23, 45-78		1811
264	Accurate, robust, and automated longitudinal and cross-sectional brain change analysis. *NeuroImage*, **2002**, 17, 479-89	7.9	1571

263   Bayesian analysis of neuroimaging data in FSL. *NeuroImage*, **2009**, 45, S173-86   7.9   1553

262   A Bayesian model of shape and appearance for subcortical brain segmentation. *NeuroImage*, **2011**, 56, 907-22   7.9   1531

261   An anatomically comprehensive atlas of the adult human brain transcriptome. *Nature*, **2012**, 489, 391-399   30.4   1525

260   Distinct patterns of brain activity in young carriers of the APOE-epsilon4 allele. *Proceedings of the National Academy of Sciences of the United States of America*, **2009**, 106, 7209-14   11.5   1286

259   Network modelling methods for FMRI. *NeuroImage*, **2011**, 54, 875-91   7.9   1254

258   Multilevel linear modelling for FMRI group analysis using Bayesian inference. *NeuroImage*, **2004**, 21, 1732-47   7.9   1171

257   General multilevel linear modeling for group analysis in FMRI. *NeuroImage*, **2003**, 20, 1052-63   7.9   1127

256   Automatic denoising of functional MRI data: combining independent component analysis and hierarchical fusion of classifiers. *NeuroImage*, **2014**, 90, 449-68   7.9   995

255   Multiplexed echo planar imaging for sub-second whole brain FMRI and fast diffusion imaging. *PLoS ONE*, **2010**, 5, e15710   3.7   889

254   Resting-state fMRI in the Human Connectome Project. *NeuroImage*, **2013**, 80, 144-68   7.9   865

253   Function in the human connectome: task-fMRI and individual differences in behavior. *NeuroImage*, **2013**, 80, 169-89   7.9   779

252   Behavioral interpretations of intrinsic connectivity networks. *Journal of Cognitive Neuroscience*, **2011**, 23, 4022-37   3.1   769

251   Multimodal population brain imaging in the UK Biobank prospective epidemiological study. *Nature Neuroscience*, **2016**, 19, 1523-1536   25.5   739

250   Triangulating a cognitive control network using diffusion-weighted magnetic resonance imaging (MRI) and functional MRI. *Journal of Neuroscience*, **2007**, 27, 3743-52   6.6   738

249   ICA-based artefact removal and accelerated fMRI acquisition for improved resting state network imaging. *NeuroImage*, **2014**, 95, 232-47   7.9   708

248   Investigating the electrophysiological basis of resting state networks using magnetoencephalography. *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108, 16783-8   11.5   647

247   Imaging how attention modulates pain in humans using functional MRI. *Brain*, **2002**, 125, 310-9   11.2   647

246   Advances and pitfalls in the analysis and interpretation of resting-state FMRI data. *Frontiers in Systems Neuroscience*, **2010**, 4, 8   3.5   624

245	Anatomically related grey and white matter abnormalities in adolescent-onset schizophrenia. *Brain*, **2007**, 130, 2375-86	11.2	605
244	Functional connectomics from resting-state fMRI. *Trends in Cognitive Sciences*, **2013**, 17, 666-82	14	560
243	Temporally-independent functional modes of spontaneous brain activity. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 3131-6	11.5	555
242	A positive-negative mode of population covariation links brain connectivity, demographics and behavior. *Nature Neuroscience*, **2015**, 18, 1565-7	25.5	551
241	Pushing spatial and temporal resolution for functional and diffusion MRI in the Human Connectome Project. *NeuroImage*, **2013**, 80, 80-104	7.9	534
240	Tools of the trade: psychophysiological interactions and functional connectivity. *Social Cognitive and Affective Neuroscience*, **2012**, 7, 604-9	4	529
239	The Human Connectome Project's neuroimaging approach. *Nature Neuroscience*, **2016**, 19, 1175-87	25.5	482
238	Acquisition and voxelwise analysis of multi-subject diffusion data with tract-based spatial statistics. *Nature Protocols*, **2007**, 2, 499-503	18.8	472
237	Homocysteine-lowering by B vitamins slows the rate of accelerated brain atrophy in mild cognitive impairment: a randomized controlled trial. *PLoS ONE*, **2010**, 5, e12244	3.7	472
236	Functional-anatomical validation and individual variation of diffusion tractography-based segmentation of the human thalamus. *Cerebral Cortex*, **2005**, 15, 31-9	5.1	459
235	Correlation between motor improvements and altered fMRI activity after rehabilitative therapy. *Brain*, **2002**, 125, 2731-42	11.2	456
234	Imaging attentional modulation of pain in the periaqueductal gray in humans. *Journal of Neuroscience*, **2002**, 22, 2748-52	6.6	450
233	Image processing and Quality Control for the first 10,000 brain imaging datasets from UK Biobank. *NeuroImage*, **2018**, 166, 400-424	7.9	415
232	DTI measures in crossing-fibre areas: increased diffusion anisotropy reveals early white matter alteration in MCI and mild Alzheimer's disease. *NeuroImage*, **2011**, 55, 880-90	7.9	381
231	Normalized accurate measurement of longitudinal brain change. *Journal of Computer Assisted Tomography*, **2001**, 25, 466-75	2.2	377
230	Quantitative pathological evidence for axonal loss in normal appearing white matter in multiple sclerosis. *Annals of Neurology*, **2000**, 47, 391-395	9.4	364
229	MSM: a new flexible framework for Multimodal Surface Matching. *NeuroImage*, **2014**, 100, 414-26	7.9	347
228	Age-related changes in grey and white matter structure throughout adulthood. *NeuroImage*, **2010**, 51, 943-51	7.9	336

227	Preventing Alzheimer's disease-related gray matter atrophy by B-vitamin treatment. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, 9523-8	11.5	329
226	Distinct portions of anterior cingulate cortex and medial prefrontal cortex are activated by reward processing in separable phases of decision-making cognition. *Biological Psychiatry*, **2004**, 55, 594-602	7.9	324
225	Brain network dynamics are hierarchically organized in time. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, 12827-12832	11.5	311
224	Evaluation of slice accelerations using multiband echo planar imaging at 3 T. *NeuroImage*, **2013**, 83, 991-1001	7.9	306
223	Fast transient networks in spontaneous human brain activity. *ELife*, **2014**, 3, e01867	8.9	295
222	White matter lesion progression, brain atrophy, and cognitive decline: the Austrian stroke prevention study. *Annals of Neurology*, **2005**, 58, 610-6	9.4	284
221	Genome-wide association studies of brain imaging phenotypes in UK Biobank. *Nature*, **2018**, 562, 210-216	50.4	282
220	Structural and functional abnormalities of the motor system in developmental stuttering. *Brain*, **2008**, 131, 50-9	11.2	271
219	The future of FMRI connectivity. *NeuroImage*, **2012**, 62, 1257-66	7.9	254
218	Meta-analysis of neuroimaging data: a comparison of image-based and coordinate-based pooling of studies. *NeuroImage*, **2009**, 45, 810-23	7.9	250
217	Hand classification of fMRI ICA noise components. *NeuroImage*, **2017**, 154, 188-205	7.9	249
216	Ventral striatum/nucleus accumbens activation to smoking-related pictorial cues in smokers and nonsmokers: a functional magnetic resonance imaging study. *Biological Psychiatry*, **2005**, 58, 488-94	7.9	226
215	Interferon beta-1a for brain tissue loss in patients at presentation with syndromes suggestive of multiple sclerosis: a randomised, double-blind, placebo-controlled trial. *Lancet, The*, **2004**, 364, 1489-96	40	215
214	Resting state networks change in clinically isolated syndrome. *Brain*, **2010**, 133, 1612-21	11.2	194
213	White matter tract integrity in aging and Alzheimer's disease. *Human Brain Mapping*, **2009**, 30, 1051-9	5.9	194
212	Diffusion imaging of whole, post-mortem human brains on a clinical MRI scanner. *NeuroImage*, **2011**, 57, 167-181	7.9	193
211	Constrained linear basis sets for HRF modelling using Variational Bayes. *NeuroImage*, **2004**, 21, 1748-61	7.9	192
210	Integrity of white matter in the corpus callosum correlates with bimanual co-ordination skills. *NeuroImage*, **2007**, 36 Suppl 2, T16-21	7.9	187

191	Blood oxygenation level dependent contrast resting state networks are relevant to functional activity in the neocortical sensorimotor system. *Experimental Brain Research*, **2005**, 167, 587-94	2.3	140
190	Combining shape and connectivity analysis: an MRI study of thalamic degeneration in Alzheimer's disease. *NeuroImage*, **2010**, 49, 1-8	7.9	138
189	Multi-level block permutation. *NeuroImage*, **2015**, 123, 253-68	7.9	137
188	Discovering dynamic brain networks from big data in rest and task. *NeuroImage*, **2018**, 180, 646-656	7.9	137
187	Faster permutation inference in brain imaging. *NeuroImage*, **2016**, 141, 502-516	7.9	136
186	Brain microstructure reveals early abnormalities more than two years prior to clinical progression from mild cognitive impairment to Alzheimer's disease. *Journal of Neuroscience*, **2013**, 33, 2147-55	6.6	131
185	Multimodal surface matching with higher-order smoothness constraints. *NeuroImage*, **2018**, 167, 453-465	7.9	124
184	Non-parametric combination and related permutation tests for neuroimaging. *Human Brain Mapping*, **2016**, 37, 1486-511	5.9	122
183	Improving alignment in Tract-based spatial statistics: evaluation and optimization of image registration. *NeuroImage*, **2013**, 76, 400-11	7.9	120
182	Local GABA concentration is related to network-level resting functional connectivity. *ELife*, **2014**, 3, e01465	8.9	120
181	Estimation of brain age delta from brain imaging. *NeuroImage*, **2019**, 200, 528-539	7.9	118
180	Evidence for abnormalities of cortical development in adolescent-onset schizophrenia. *NeuroImage*, **2008**, 43, 665-75	7.9	117
179	Brain atrophy in cognitively impaired elderly: the importance of long-chain ꞷ3 fatty acids and B vitamin status in a randomized controlled trial. *American Journal of Clinical Nutrition*, **2015**, 102, 215-21	7	115
178	Schizophrenia delays and alters maturation of the brain in adolescence. *Brain*, **2009**, 132, 2437-48	11.2	114
177	Model-free group analysis shows altered BOLD FMRI networks in dementia. *Human Brain Mapping*, **2009**, 30, 256-66	5.9	107
176	Investigation of white matter pathology in ALS and PLS using tract-based spatial statistics. *Human Brain Mapping*, **2009**, 30, 615-24	5.9	107
175	Adjusting the effect of nonstationarity in cluster-based and TFCE inference. *NeuroImage*, **2011**, 54, 2006-19	7.9	105
174	The relationship between spatial configuration and functional connectivity of brain regions. *ELife*, **2018**, 7,	8.9	105

173	Extending the Human Connectome Project across ages: Imaging protocols for the Lifespan Development and Aging projects. *NeuroImage*, **2018**, 183, 972-984	7.9	101
172	Accelerated evolution of brain atrophy and "black holes" in MS patients with APOE-epsilon 4. *Annals of Neurology*, **2004**, 55, 563-9	9.4	100
171	Disintegration of Sensorimotor Brain Networks in Schizophrenia. *Schizophrenia Bulletin*, **2015**, 41, 1326-35	5.3	99
170	Mixture models with adaptive spatial regularization for segmentation with an application to FMRI data. *IEEE Transactions on Medical Imaging*, **2005**, 24, 1-11	11.7	99
169	Effects of word form on brain processing of written Chinese. *NeuroImage*, **2002**, 17, 1538-48	7.9	97
168	Benefits of multi-modal fusion analysis on a large-scale dataset: life-span patterns of inter-subject variability in cortical morphometry and white matter microstructure. *NeuroImage*, **2012**, 63, 365-80	7.9	96
167	ICA model order selection of task co-activation networks. *Frontiers in Neuroscience*, **2013**, 7, 237	5.1	95
166	Longitudinal and cross-sectional analysis of atrophy in Alzheimer's disease: cross-validation of BSI, SIENA and SIENAX. *NeuroImage*, **2007**, 36, 1200-6	7.9	93
165	The Developing Human Connectome Project: a Minimal Processing Pipeline for Neonatal Cortical Surface Reconstruction **2018**, 173, 88-112		88
164	Increased resting state functional connectivity in the default mode network in recovered anorexia nervosa. *Human Brain Mapping*, **2014**, 35, 483-91	5.9	82
163	The UK Biobank imaging enhancement of 100,000 participants: rationale, data collection, management and future directions. *Nature Communications*, **2020**, 11, 2624	17.4	81
162	The brain functional connectome is robustly altered by lack of sleep. *NeuroImage*, **2016**, 127, 324-332	7.9	81
161	Language networks in anophthalmia: maintained hierarchy of processing in 'visual' cortex. *Brain*, **2012**, 135, 1566-77	11.2	74
160	The Lifespan Human Connectome Project in Aging: An overview. *NeuroImage*, **2019**, 185, 335-348	7.9	74
159	SARS-CoV-2 is associated with changes in brain structure in UK Biobank.. *Nature*, **2022**,	50.4	74
158	Optimising network modelling methods for fMRI. *NeuroImage*, **2020**, 211, 116604	7.9	73
157	Learning to identify CNS drug action and efficacy using multistudy fMRI data. *Science Translational Medicine*, **2015**, 7, 274ra16	17.5	71
156	The Lifespan Human Connectome Project in Development: A large-scale study of brain connectivity development in 5-21 year olds. *NeuroImage*, **2018**, 183, 456-468	7.9	71

155	Tradeoffs in pushing the spatial resolution of fMRI for the 7T Human Connectome Project. *NeuroImage*, **2017**, 154, 23-32	7.9	68
154	Handedness, language areas and neuropsychiatric diseases: insights from brain imaging and genetics. *Brain*, **2019**, 142, 2938-2947	11.2	67
153	Large-scale probabilistic functional modes from resting state fMRI. *NeuroImage*, **2015**, 109, 217-31	7.9	67
152	Hippocampal volume across age: Nomograms derived from over 19,700 people in UK Biobank. *NeuroImage: Clinical*, **2019**, 23, 101904	5.3	64
151	Relationships of brain white matter microstructure with clinical and MR measures in relapsing-remitting multiple sclerosis. *Journal of Magnetic Resonance Imaging*, **2010**, 31, 309-16	5.6	63
150	Pairwise Likelihood Ratios for Estimation of Non-Gaussian Structural Equation Models. *Journal of Machine Learning Research*, **2013**, 14, 111-152	28.6	63
149	The heritability of multi-modal connectivity in human brain activity. *ELife*, **2017**, 6,	8.9	62
148	High-resolution FMRI at 1.5T using balanced SSFP. *Magnetic Resonance in Medicine*, **2006**, 55, 161-70	4.4	61
147	Lesion probability maps of white matter hyperintensities in elderly individuals: results of the Austrian stroke prevention study. *Journal of Neurology*, **2006**, 253, 1064-70	5.5	60
146	Accurate brain age prediction with lightweight deep neural networks. *Medical Image Analysis*, **2021**, 68, 101871	15.4	60
145	Automated processing pipeline for neonatal diffusion MRI in the developing Human Connectome Project. *NeuroImage*, **2019**, 185, 750-763	7.9	59
144	Study protocol: The Whitehall II imaging sub-study. *BMC Psychiatry*, **2014**, 14, 159	4.2	58
143	Brain atrophy assessment in multiple sclerosis: importance and limitations. *Neuroimaging Clinics of North America*, **2008**, 18, 675-86, xi	3	57
142	Brain aging comprises many modes of structural and functional change with distinct genetic and biophysical associations. *ELife*, **2020**, 9,	8.9	56
141	Sampling and visualizing creases with scale-space particles. *IEEE Transactions on Visualization and Computer Graphics*, **2009**, 15, 1415-24	4	55
140	Enhanced brain extraction improves the accuracy of brain atrophy estimation. *NeuroImage*, **2008**, 40, 583-589	7.9	52
139	Resting functional connectivity reveals residual functional activity in Alzheimer's disease. *Biological Psychiatry*, **2013**, 74, 375-83	7.9	51
138	Investigations into within- and between-subject resting-state amplitude variations. *NeuroImage*, **2017**, 159, 57-69	7.9	51

No.	Reference	IF	Citations
137	Applying FSL to the FIAC data: model-based and model-free analysis of voice and sentence repetition priming. *Human Brain Mapping*, **2006**, 27, 380-91	5.9	51
136	Meaningful design and contrast estimability in FMRI. *NeuroImage*, **2007**, 34, 127-36	7.9	50
135	Effective degrees of freedom of the Pearson's correlation coefficient under autocorrelation. *NeuroImage*, **2019**, 199, 609-625	7.9	49
134	k-t FASTER: Acceleration of functional MRI data acquisition using low rank constraints. *Magnetic Resonance in Medicine*, **2015**, 74, 353-64	4.4	49
133	Cerebellar responses during anticipation of noxious stimuli in subjects recovered from depression. Functional magnetic resonance imaging study. *British Journal of Psychiatry*, **2002**, 181, 411-5	5.4	48
132	Using GPUs to accelerate computational diffusion MRI: From microstructure estimation to tractography and connectomes. *NeuroImage*, **2019**, 188, 598-615	7.9	48
131	Construction of a neonatal cortical surface atlas using Multimodal Surface Matching in the Developing Human Connectome Project. *NeuroImage*, **2018**, 179, 11-29	7.9	45
130	Measuring brain atrophy in multiple sclerosis. *Journal of Neuroimaging*, **2007**, 17 Suppl 1, 10S-15S	2.8	45
129	Confound modelling in UK Biobank brain imaging. *NeuroImage*, **2021**, 224, 117002	7.9	40
128	Intercenter agreement of brain atrophy measurement in multiple sclerosis patients using manually-edited SIENA and SIENAX. *Journal of Magnetic Resonance Imaging*, **2007**, 26, 881-5	5.6	39
127	Disambiguating brain functional connectivity. *NeuroImage*, **2018**, 173, 540-550	7.9	38
126	Signal and noise characteristics of SSFP FMRI: a comparison with GRE at multiple field strengths. *NeuroImage*, **2007**, 37, 1227-36	7.9	38
125	ICA-based artifact removal diminishes scan site differences in multi-center resting-state fMRI. *Frontiers in Neuroscience*, **2015**, 9, 395	5.1	37
124	Effective artifact removal in resting state fMRI data improves detection of DMN functional connectivity alteration in Alzheimer's disease. *Frontiers in Human Neuroscience*, **2015**, 9, 449	3.3	35
123	Challenges and future directions for representations of functional brain organization. *Nature Neuroscience*, **2020**, 23, 1484-1495	25.5	35
122	Towards Algorithmic Analytics for Large-scale Datasets. *Nature Machine Intelligence*, **2019**, 1, 296-306	22.5	34
121	Regional brain atrophy development is related to specific aspects of clinical dysfunction in multiple sclerosis. *NeuroImage*, **2007**, 38, 529-37	7.9	34
120	The relationship between spatial configuration and functional connectivity of brain regions revisited. *ELife*, **2019**, 8,	8.9	34

101	Prioritizing new over old: an fMRI study of the preview search task. *Human Brain Mapping*, **2005**, 24, 69-78	3.9	24
100	Common Genetic Variation Indicates Separate Causes for Periventricular and Deep White Matter Hyperintensities. *Stroke*, **2020**, 51, 2111-2121	6.7	23
99	Optimizing full-brain coverage in human brain MRI through population distributions of brain size. *NeuroImage*, **2014**, 98, 513-20	7.9	23
98	Asymmetries of the balanced SSFP profile. Part II: white matter. *Magnetic Resonance in Medicine*, **2010**, 63, 396-406	4.4	23
97	First steps in using machine learning on fMRI data to predict intrusive memories of traumatic film footage. *Behaviour Research and Therapy*, **2014**, 62, 37-46	5.2	22
96	Spatial vs. Temporal Features in ICA of Resting-State fMRI - A Quantitative and Qualitative Investigation in the Context of Response Inhibition. *PLoS ONE*, **2013**, 8, e66572	3.7	22
95	Monitoring disease activity and progression in primary progressive multiple sclerosis using MRI: sub-voxel registration to identify lesion changes and to detect cerebral atrophy. *Journal of Neurology*, **2002**, 249, 171-7	5.5	22
94	Cerebrovascular risk factors impact frontoparietal network integrity and executive function in healthy ageing. *Nature Communications*, **2020**, 11, 4340	17.4	22
93	Accelerating functional MRI using fixed-rank approximations and radial-cartesian sampling. *Magnetic Resonance in Medicine*, **2016**, 76, 1825-1836	4.4	22
92	Investigating the intrinsic dimensionality of FMRI data for ICA. *NeuroImage*, **2001**, 13, 76	7.9	21
91	The nonhuman primate neuroimaging and neuroanatomy project. *NeuroImage*, **2021**, 229, 117726	7.9	21
90	Patterns of sociocognitive stratification and perinatal risk in the child brain. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 12419-12427	11.5	19
89	A Framework for Detailed Objective Comparison of Non-rigid Registration Algorithms in Neuroimaging. *Lecture Notes in Computer Science*, **2004**, 679-686	0.9	19
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87	Spontaneous blood oxygenation level-dependent fMRI signal is modulated by behavioral state and correlates with evoked response in sensorimotor cortex: a 7.0-T fMRI study. *Human Brain Mapping*, **2012**, 33, 511-22	5.9	18
86	Using Gaussian-process regression for meta-analytic neuroimaging inference based on sparse observations. *IEEE Transactions on Medical Imaging*, **2011**, 30, 1401-16	11.7	18
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84	Functional Connectivity under Anticipation of Shock: Correlates of Trait Anxious Affect versus Induced Anxiety. *Journal of Cognitive Neuroscience*, **2015**, 27, 1840-53	3.1	17

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82	Accurate Robust Symmetry Estimation. *Lecture Notes in Computer Science*, **1999**, 308-317	0.9	17
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80	Spatial parcellations, spectral filtering, and connectivity measures in fMRI: Optimizing for discrimination. *Human Brain Mapping*, **2019**, 40, 407-419	5.9	17
79	Permutation inference for canonical correlation analysis. *NeuroImage*, **2020**, 220, 117065	7.9	16
78	Stratification of MDD and GAD patients by resting state brain connectivity predicts cognitive bias. *NeuroImage: Clinical*, **2018**, 19, 425-433	5.3	16
77	Denoising scanner effects from multimodal MRI data using linked independent component analysis. *NeuroImage*, **2020**, 208, 116388	7.9	16
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74	Multi-subject hierarchical inverse covariance modelling improves estimation of functional brain networks. *NeuroImage*, **2018**, 178, 370-384	7.9	12
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71	Resting-state FMRI single subject cortical parcellation based on region growing. *Lecture Notes in Computer Science*, **2012**, 15, 188-95	0.9	12
70	Evidence for asymmetric frontal-lobe involvement in episodic memory from functional magnetic resonance imaging and patients with unilateral frontal-lobe excisions. *Neuropsychologia*, **2002**, 40, 2420-37	3.3	11
69	Individual variations in 'brain age' relate to early-life factors more than to longitudinal brain change. *ELife*, **2021**, 10,	8.9	11
68	Genome-wide association studies of brain structure and function in the UK Biobank		9
67	Using Temporal ICA to Selectively Remove Global Noise While Preserving Global Signal in Functional MRI Data		9
66	Statistical Analysis of fMRI Data. *Neuromethods*, **2009**, 179-236	0.4	8

65	Accurate brain age prediction with lightweight deep neural networks		8
64	The Developing Human Connectome Project: typical and disrupted perinatal functional connectivity		8
63	A data-driven approach to optimising the encoding for multi-shell diffusion MRI with application to neonatal imaging. *NMR in Biomedicine*, **2020**, 33, e4348	4.4	8
62	Enhanced Brain Imaging Genetics in UK Biobank		7
61	Heterogeneous fractionation profiles of meta-analytic coactivation networks. *NeuroImage*, **2017**, 149, 424-435	7.9	6
60	A structural brain network of genetic vulnerability to psychiatric illness. *Molecular Psychiatry*, **2021**, 26, 2089-2100	15.1	6
59	Image Processing and Quality Control for the first 10,000 Brain Imaging Datasets from UK Biobank		6
58	Estimation of Brain Age Delta from Brain Imaging		6
57	Brain pathology recapitulates physiology: A network meta-analysis. *Communications Biology*, **2021**, 4, 301	6.7	6
56	Discovering markers of healthy aging: a prospective study in a Danish male birth cohort. *Aging*, **2019**, 11, 5943-5974	5.6	5
55	Preparing fMRI data for statistical analysis **2001**, 231-243		5
54	The developing Human Connectome Project (dHCP) automated resting-state functional processing framework for newborn infants		5
53	Phenotype discovery from population brain imaging. *Medical Image Analysis*, **2021**, 71, 102050	15.4	5
52	Relationships between retinal layer thickness and brain volumes in the UK Biobank cohort. *European Journal of Neurology*, **2021**, 28, 1490-1498	6	5
51	Methods for tractography-driven surface registration of brain structures. *Lecture Notes in Computer Science*, **2009**, 12, 705-12	0.9	4
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49	Adjusting the neuroimaging statistical inferences for nonstationarity. *Lecture Notes in Computer Science*, **2009**, 12, 992-9	0.9	4
48	Optimising a Simple Fully Convolutional Network for Accurate Brain Age Prediction in the PAC 2019 Challenge. *Frontiers in Psychiatry*, **2021**, 12, 627996	5	4

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46	Effective Degrees of Freedom of the Pearson Correlation Coefficient under Autocorrelation		3
45	Modelling Subject Variability in the Spatial and Temporal Characteristics of Functional Modes		3
44	High resolution nonlinear registration with simultaneous modelling of intensities		3
43	Brain aging comprises many modes of structural and functional change with distinct genetic and biophysical associations		3
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32	Phenotype Discovery from Population Brain Imaging		2
31	Common variants contribute to intrinsic human brain functional networks		2
30	Towards HCP-Style Macaque Connectomes: 24-Channel 3T Multi-Array Coil, MRI Sequences and Preprocessing		2

List of Publications

11	Hierarchical modelling of functional brain networks in population and individuals from big fMRI data		1
10	Accurate predictions of individual differences in task-evoked brain activity from resting-state fMRI using a sparse ensemble learner		1
9	Supervised Phenotype Discovery fromMultimodal Brain Imaging		1
8	A Bayesian Cost Function Applied to Model-Based Registration of Sub-cortical Brain Structures. *Lecture Notes in Computer Science*, **2006**, 9-17	0.9	1
7	Common variants contribute to intrinsic human brain functional networks.. *Nature Genetics*, **2022**, 54, 508-517	36.3	1
6	Graded Variation In Cortical T1w/T2w Myelination During Adolescence		1
5	Resting-State Networks. *Biological Magnetic Resonance*, **2015**, 387-425	0.5	0
4	Discovering correlates of age-related decline in a healthy late-midlife male birth cohort. *Aging*, **2020**, 12, 16709-16743	5.6	0
3	Hierarchical modelling of functional brain networks in population and individuals from big fMRI data. *NeuroImage*, **2021**, 243, 118513	7.9	0
2	Multimodal MRI Template Creation in the Ring-Tailed Lemur and Rhesus Macaque. *Lecture Notes in Computer Science*, **2020**, 141-150	0.9	
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