

Stephen M Smith

List of Publications by Year in Descending Order

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Version: 2024-04-20

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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.

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	Multi-dynamic modelling reveals strongly time-varying resting fMRI correlations.. <i>Medical Image Analysis</i> , 2022 , 77, 102366	15.4	2
279	SARS-CoV-2 is associated with changes in brain structure in UK Biobank.. <i>Nature</i> , 2022 ,	50.4	74
278	Common variants contribute to intrinsic human brain functional networks.. <i>Nature Genetics</i> , 2022 , 54, 508-517	36.3	1
277	Deep neural networks learn general and clinically relevant representations of the ageing brain.. <i>NeuroImage</i> , 2022 , 256, 119210	7.9	3
276	A structural brain network of genetic vulnerability to psychiatric illness. <i>Molecular Psychiatry</i> , 2021 , 26, 2089-2100	15.1	6
275	Individual variations in 'brain age' relate to early-life factors more than to longitudinal brain change. <i>ELife</i> , 2021 , 10,	8.9	11
274	Leisure Activities and Their Relationship With MRI Measures of Brain Structure, Functional Connectivity, and Cognition in the UK Biobank Cohort. <i>Frontiers in Aging Neuroscience</i> , 2021 , 13, 734866	5.3	1
273	Adapting the UK Biobank Brain Imaging Protocol and Analysis Pipeline for the C-MORE Multi-Organ Study of COVID-19 Survivors. <i>Frontiers in Neurology</i> , 2021 , 12, 753284	4.1	2
272	Brain pathology recapitulates physiology: A network meta-analysis. <i>Communications Biology</i> , 2021 , 4, 301	6.7	6
271	The Developing Human Connectome Project: typical and disrupted perinatal functional connectivity. <i>Brain</i> , 2021 , 144, 2199-2213	11.2	18
270	Phenotyping the Preterm Brain: Characterizing Individual Deviations From Normative Volumetric Development in Two Large Infant Cohorts. <i>Cerebral Cortex</i> , 2021 , 31, 3665-3677	5.1	3
269	The nonhuman primate neuroimaging and neuroanatomy project. <i>NeuroImage</i> , 2021 , 229, 117726	7.9	21
268	An expanded set of genome-wide association studies of brain imaging phenotypes in UK Biobank. <i>Nature Neuroscience</i> , 2021 , 24, 737-745	25.5	27
267	Optimising a Simple Fully Convolutional Network for Accurate Brain Age Prediction in the PAC 2019 Challenge. <i>Frontiers in Psychiatry</i> , 2021 , 12, 627996	5	4
266	Dopaminergic organization of striatum is linked to cortical activity and brain expression of genes associated with psychiatric illness. <i>Science Advances</i> , 2021 , 7,	14.3	3
265	Brain imaging before and after COVID-19 in UK Biobank 2021 ,		31
264	Phenotype discovery from population brain imaging. <i>Medical Image Analysis</i> , 2021 , 71, 102050	15.4	5

263	Confound modelling in UK Biobank brain imaging. <i>NeuroImage</i> , 2021 , 224, 117002	7.9	40
262	Shared and Anxiety-Specific Pediatric Psychopathology Dimensions Manifest Distributed Neural Correlates. <i>Biological Psychiatry</i> , 2021 , 89, 579-587	7.9	1
261	Learning patterns of the ageing brain in MRI using deep convolutional networks. <i>NeuroImage</i> , 2021 , 224, 117401	7.9	27
260	Accurate brain age prediction with lightweight deep neural networks. <i>Medical Image Analysis</i> , 2021 , 68, 101871	15.4	60
259	Multimodal Imaging Brain Markers in Early Adolescence Are Linked with a Physically Active Lifestyle. <i>Journal of Neuroscience</i> , 2021 , 41, 1092-1104	6.6	1
258	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
257	Relationships between retinal layer thickness and brain volumes in the UK Biobank cohort. <i>European Journal of Neurology</i> , 2021 , 28, 1490-1498	6	5
256	Hierarchical modelling of functional brain networks in population and individuals from big fMRI data. <i>NeuroImage</i> , 2021 , 243, 118513	7.9	0
255	The Human Connectome Project: A retrospective. <i>NeuroImage</i> , 2021 , 244, 118543	7.9	15
254	Towards HCP-Style macaque connectomes: 24-Channel 3T multi-array coil, MRI sequences and preprocessing. <i>NeuroImage</i> , 2020 , 215, 116800	7.9	28
253	Patterns of sociocognitive stratification and perinatal risk in the child brain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 12419-12427	11.5	19
252	The UK Biobank imaging enhancement of 100,000 participants: rationale, data collection, management and future directions. <i>Nature Communications</i> , 2020 , 11, 2624	17.4	81
251	Common Genetic Variation Indicates Separate Causes for Periventricular and Deep White Matter Hyperintensities. <i>Stroke</i> , 2020 , 51, 2111-2121	6.7	23
250	A Symmetric Prior for the Regularisation of Elastic Deformations: Improved anatomical plausibility in nonlinear image registration. <i>NeuroImage</i> , 2020 , 219, 116962	7.9	3
249	Permutation inference for canonical correlation analysis. <i>NeuroImage</i> , 2020 , 220, 117065	7.9	16
248	Optimising network modelling methods for fMRI. <i>NeuroImage</i> , 2020 , 211, 116604	7.9	73
247	Multimodal MRI Template Creation in the Ring-Tailed Lemur and Rhesus Macaque. <i>Lecture Notes in Computer Science</i> , 2020 , 141-150	0.9	
246	Discovering correlates of age-related decline in a healthy late-midlife male birth cohort. <i>Aging</i> , 2020 , 12, 16709-16743	5.6	0

245	Brain aging comprises many modes of structural and functional change with distinct genetic and biophysical associations. <i>ELife</i> , 2020 , 9,	8.9	56
244	Denoising scanner effects from multimodal MRI data using linked independent component analysis. <i>NeuroImage</i> , 2020 , 208, 116388	7.9	16
243	The developing Human Connectome Project (dHCP) automated resting-state functional processing framework for newborn infants. <i>NeuroImage</i> , 2020 , 223, 117303	7.9	28
242	Modelling subject variability in the spatial and temporal characteristics of functional modes. <i>NeuroImage</i> , 2020 , 222, 117226	7.9	15
241	Challenges and future directions for representations of functional brain organization. <i>Nature Neuroscience</i> , 2020 , 23, 1484-1495	25.5	35
240	A data-driven approach to optimising the encoding for multi-shell diffusion MRI with application to neonatal imaging. <i>NMR in Biomedicine</i> , 2020 , 33, e4348	4.4	8
239	Cerebrovascular risk factors impact frontoparietal network integrity and executive function in healthy ageing. <i>Nature Communications</i> , 2020 , 11, 4340	17.4	22
238	Handedness, language areas and neuropsychiatric diseases: insights from brain imaging and genetics. <i>Brain</i> , 2019 , 142, 2938-2947	11.2	67
237	Estimation of brain age delta from brain imaging. <i>NeuroImage</i> , 2019 , 200, 528-539	7.9	118
236	Structural Variability in the Human Brain Reflects Fine-Grained Functional Architecture at the Population Level. <i>Journal of Neuroscience</i> , 2019 , 39, 6136-6149	6.6	18
235	Effective degrees of freedom of the Pearson's correlation coefficient under autocorrelation. <i>NeuroImage</i> , 2019 , 199, 609-625	7.9	49
234	Classification of temporal ICA components for separating global noise from fMRI data: Reply to Power. <i>NeuroImage</i> , 2019 , 197, 435-438	7.9	26
233	The spatial correspondence and genetic influence of interhemispheric connectivity with white matter microstructure. <i>Nature Neuroscience</i> , 2019 , 22, 809-819	25.5	31
232	Automated processing pipeline for neonatal diffusion MRI in the developing Human Connectome Project. <i>NeuroImage</i> , 2019 , 185, 750-763	7.9	59
231	Towards Algorithmic Analytics for Large-scale Datasets. <i>Nature Machine Intelligence</i> , 2019 , 1, 296-306	22.5	34
230	Hippocampal volume across age: Nomograms derived from over 19,700 people in UK Biobank. <i>NeuroImage: Clinical</i> , 2019 , 23, 101904	5.3	64
229	Discovering markers of healthy aging: a prospective study in a Danish male birth cohort. <i>Aging</i> , 2019 , 11, 5943-5974	5.6	5
228	The relationship between spatial configuration and functional connectivity of brain regions revisited. <i>ELife</i> , 2019 , 8,	8.9	34

227	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
226	The Lifespan Human Connectome Project in Aging: An overview. <i>NeuroImage</i> , 2019 , 185, 335-348	7.9	74
225	Using GPUs to accelerate computational diffusion MRI: From microstructure estimation to tractography and connectomes. <i>NeuroImage</i> , 2019 , 188, 598-615	7.9	48
224	Spatial parcellations, spectral filtering, and connectivity measures in fMRI: Optimizing for discrimination. <i>Human Brain Mapping</i> , 2019 , 40, 407-419	5.9	17
223	Probabilistic TFCE: A generalized combination of cluster size and voxel intensity to increase statistical power. <i>NeuroImage</i> , 2019 , 185, 12-26	7.9	33
222	Disambiguating brain functional connectivity. <i>NeuroImage</i> , 2018 , 173, 540-550	7.9	38
221	Directed functional connectivity using dynamic graphical models. <i>NeuroImage</i> , 2018 , 175, 340-353	7.9	17
220	The developing human connectome project: A minimal processing pipeline for neonatal cortical surface reconstruction. <i>NeuroImage</i> , 2018 , 173, 88-112	7.9	158
219	Statistical Challenges in "Big Data" Human Neuroimaging. <i>Neuron</i> , 2018 , 97, 263-268	13.9	174
218	Discovering dynamic brain networks from big data in rest and task. <i>NeuroImage</i> , 2018 , 180, 646-656	7.9	137
217	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
216	Using temporal ICA to selectively remove global noise while preserving global signal in functional MRI data. <i>NeuroImage</i> , 2018 , 181, 692-717	7.9	155
215	Multi-subject hierarchical inverse covariance modelling improves estimation of functional brain networks. <i>NeuroImage</i> , 2018 , 178, 370-384	7.9	12
214	The Lifespan Human Connectome Project in Development: A large-scale study of brain connectivity development in 5-21 year olds. <i>NeuroImage</i> , 2018 , 183, 456-468	7.9	71
213	Stratification of MDD and GAD patients by resting state brain connectivity predicts cognitive bias. <i>NeuroImage: Clinical</i> , 2018 , 19, 425-433	5.3	16
212	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
211	Author response: The relationship between spatial configuration and functional connectivity of brain regions 2018 ,		12
210	The Developing Human Connectome Project: a Minimal Processing Pipeline for Neonatal Cortical Surface Reconstruction 2018 , 173, 88-112		88

209	Multimodal surface matching with higher-order smoothness constraints. <i>NeuroImage</i> , 2018 , 167, 453-465	5.9	124
208	Extending the Human Connectome Project across ages: Imaging protocols for the Lifespan Development and Aging projects. <i>NeuroImage</i> , 2018 , 183, 972-984	7.9	101
207	Genome-wide association studies of brain imaging phenotypes in UK Biobank. <i>Nature</i> , 2018 , 562, 210-216	50.4	282
206	A Machine Learning Approach to Diffusion MRI Partial Volume Estimation. <i>Lecture Notes in Computer Science</i> , 2018 , 42-51	0.9	
205	The relationship between spatial configuration and functional connectivity of brain regions. <i>ELife</i> , 2018 , 7,	8.9	105
204	Heterogeneous fractionation profiles of meta-analytic coactivation networks. <i>NeuroImage</i> , 2017 , 149, 424-435	7.9	6
203	Studying neuroanatomy using MRI. <i>Nature Neuroscience</i> , 2017 , 20, 314-326	25.5	147
202	Tradeoffs in pushing the spatial resolution of fMRI for the 7T Human Connectome Project. <i>NeuroImage</i> , 2017 , 154, 23-32	7.9	68
201	Hand classification of fMRI ICA noise components. <i>NeuroImage</i> , 2017 , 154, 188-205	7.9	249
200	Brain network dynamics are hierarchically organized in time. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 12827-12832	11.5	311
199	Distinct resting-state functional connections associated with episodic and visuospatial memory in older adults. <i>NeuroImage</i> , 2017 , 159, 122-130	7.9	12
198	Investigations into within- and between-subject resting-state amplitude variations. <i>NeuroImage</i> , 2017 , 159, 57-69	7.9	51
197	Using Dual Regression to Investigate Network Shape and Amplitude in Functional Connectivity Analyses. <i>Frontiers in Neuroscience</i> , 2017 , 11, 115	5.1	183
196	The heritability of multi-modal connectivity in human brain activity. <i>ELife</i> , 2017 , 6,	8.9	62
195	The Human Connectome Project's neuroimaging approach. <i>Nature Neuroscience</i> , 2016 , 19, 1175-87	25.5	482
194	Multimodal population brain imaging in the UK Biobank prospective epidemiological study. <i>Nature Neuroscience</i> , 2016 , 19, 1523-1536	25.5	739
193	A multi-modal parcellation of human cerebral cortex. <i>Nature</i> , 2016 , 536, 171-178	50.4	2046
192	Faster permutation inference in brain imaging. <i>NeuroImage</i> , 2016 , 141, 502-516	7.9	136

191	Linking cognition to brain connectivity. <i>Nature Neuroscience</i> , 2016 , 19, 7-9	25.5	33
190	The brain functional connectome is robustly altered by lack of sleep. <i>NeuroImage</i> , 2016 , 127, 324-332	7.9	81
189	Statistical Analysis of fMRI Data. <i>Neuroinformatics</i> , 2016 , 183-239	0.4	1
188	Non-parametric combination and related permutation tests for neuroimaging. <i>Human Brain Mapping</i> , 2016 , 37, 1486-511	5.9	122
187	Accelerating functional MRI using fixed-rank approximations and radial-cartesian sampling. <i>Magnetic Resonance in Medicine</i> , 2016 , 76, 1825-1836	4.4	22
186	Functional Connectivity under Anticipation of Shock: Correlates of Trait Anxious Affect versus Induced Anxiety. <i>Journal of Cognitive Neuroscience</i> , 2015 , 27, 1840-53	3.1	17
185	Brain atrophy in cognitively impaired elderly: the importance of long-chain Ω fatty acids and B vitamin status in a randomized controlled trial. <i>American Journal of Clinical Nutrition</i> , 2015 , 102, 215-21	7	115
184	Disintegration of Sensorimotor Brain Networks in Schizophrenia. <i>Schizophrenia Bulletin</i> , 2015 , 41, 1326-353		99
183	Learning to identify CNS drug action and efficacy using multistudy fMRI data. <i>Science Translational Medicine</i> , 2015 , 7, 274ra16	17.5	71
182	A positive-negative mode of population covariation links brain connectivity, demographics and behavior. <i>Nature Neuroscience</i> , 2015 , 18, 1565-7	25.5	551
181	Resting-State Networks. <i>Biological Magnetic Resonance</i> , 2015 , 387-425	0.5	0
180	Multi-level block permutation. <i>NeuroImage</i> , 2015 , 123, 253-68	7.9	137
179	k-t FASTER: Acceleration of functional MRI data acquisition using low rank constraints. <i>Magnetic Resonance in Medicine</i> , 2015 , 74, 353-64	4.4	49
178	Effective artifact removal in resting state fMRI data improves detection of DMN functional connectivity alteration in Alzheimer's disease. <i>Frontiers in Human Neuroscience</i> , 2015 , 9, 449	3.3	35
177	ICA-based artifact removal diminishes scan site differences in multi-center resting-state fMRI. <i>Frontiers in Neuroscience</i> , 2015 , 9, 395	5.1	37
176	Large-scale probabilistic functional modes from resting state fMRI. <i>NeuroImage</i> , 2015 , 109, 217-31	7.9	67
175	Attentional load modulates large-scale functional brain connectivity beyond the core attention networks. <i>NeuroImage</i> , 2015 , 109, 260-72	7.9	30
174	Automatic denoising of functional MRI data: combining independent component analysis and hierarchical fusion of classifiers. <i>NeuroImage</i> , 2014 , 90, 449-68	7.9	995

173	Resting state correlates of subdimensions of anxious affect. <i>Journal of Cognitive Neuroscience</i> , 2014 , 26, 914-26	3.1	30
172	ICA-based artefact removal and accelerated fMRI acquisition for improved resting state network imaging. <i>NeuroImage</i> , 2014 , 95, 232-47	7.9	708
171	Group-PCA for very large fMRI datasets. <i>NeuroImage</i> , 2014 , 101, 738-49	7.9	157
170	Study protocol: The Whitehall II imaging sub-study. <i>BMC Psychiatry</i> , 2014 , 14, 159	4.2	58
169	Permutation inference for the general linear model. <i>NeuroImage</i> , 2014 , 92, 381-97	7.9	1884
168	Optimizing full-brain coverage in human brain MRI through population distributions of brain size. <i>NeuroImage</i> , 2014 , 98, 513-20	7.9	23
167	MSM: a new flexible framework for Multimodal Surface Matching. <i>NeuroImage</i> , 2014 , 100, 414-26	7.9	347
166	Fast transient networks in spontaneous human brain activity. <i>ELife</i> , 2014 , 3, e01867	8.9	295
165	MVPA to enhance the study of rare cognitive events: An investigation of experimental PTSD 2014 ,		2
164	Cross-Subject Comparison of Local Diffusion MRI Parameters 2014 , 209-239		2
163	Increased resting state functional connectivity in the default mode network in recovered anorexia nervosa. <i>Human Brain Mapping</i> , 2014 , 35, 483-91	5.9	82
162	A common brain network links development, aging, and vulnerability to disease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 17648-53	11.5	173
161	First steps in using machine learning on fMRI data to predict intrusive memories of traumatic film footage. <i>Behaviour Research and Therapy</i> , 2014 , 62, 37-46	5.2	22
160	Local GABA concentration is related to network-level resting functional connectivity. <i>ELife</i> , 2014 , 3, e01465	8.5	120
159	Spatially constrained hierarchical parcellation of the brain with resting-state fMRI. <i>NeuroImage</i> , 2013 , 76, 313-24	7.9	158
158	Functional connectomics from resting-state fMRI. <i>Trends in Cognitive Sciences</i> , 2013 , 17, 666-82	14	560
157	The WU-Minn Human Connectome Project: an overview. <i>NeuroImage</i> , 2013 , 80, 62-79	7.9	2585
156	Function in the human connectome: task-fMRI and individual differences in behavior. <i>NeuroImage</i> , 2013 , 80, 169-89	7.9	779

155	Utility of Partial Correlation for Characterising Brain Dynamics: MVPA-based Assessment of Regularisation and Network Selection 2013 ,		2
154	Preventing Alzheimer's disease-related gray matter atrophy by B-vitamin treatment. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 9523-8	11.5	329
153	What is the most interesting part of the brain?. <i>Trends in Cognitive Sciences</i> , 2013 , 17, 2-4	14	31
152	Improving alignment in Tract-based spatial statistics: evaluation and optimization of image registration. <i>NeuroImage</i> , 2013 , 76, 400-11	7.9	120
151	Evaluation of slice accelerations using multiband echo planar imaging at 3 T. <i>NeuroImage</i> , 2013 , 83, 991-1001	10.1	306
150	Resting functional connectivity reveals residual functional activity in Alzheimer's disease. <i>Biological Psychiatry</i> , 2013 , 74, 375-83	7.9	51
149	Brain microstructure reveals early abnormalities more than two years prior to clinical progression from mild cognitive impairment to Alzheimer's disease. <i>Journal of Neuroscience</i> , 2013 , 33, 2147-55	6.6	131
148	Resting-state fMRI in the Human Connectome Project. <i>NeuroImage</i> , 2013 , 80, 144-68	7.9	865
147	Pushing spatial and temporal resolution for functional and diffusion MRI in the Human Connectome Project. <i>NeuroImage</i> , 2013 , 80, 80-104	7.9	534
146	Spatial vs. Temporal Features in ICA of Resting-State fMRI - A Quantitative and Qualitative Investigation in the Context of Response Inhibition. <i>PLoS ONE</i> , 2013 , 8, e66572	3.7	22
145	ICA model order selection of task co-activation networks. <i>Frontiers in Neuroscience</i> , 2013 , 7, 237	5.1	95
144	Pairwise Likelihood Ratios for Estimation of Non-Gaussian Structural Equation Models. <i>Journal of Machine Learning Research</i> , 2013 , 14, 111-152	28.6	63
143	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
142	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. <i>Human Brain Mapping</i> , 2012 , 33, 511-22	5.9	18
141	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
140	An anatomically comprehensive atlas of the adult human brain transcriptome. <i>Nature</i> , 2012 , 489, 391-399	90.4	1525
139	FSL. <i>NeuroImage</i> , 2012 , 62, 782-90	7.9	5752
138	Task-driven ICA feature generation for accurate and interpretable prediction using fMRI. <i>NeuroImage</i> , 2012 , 60, 189-203	7.9	26

137	The future of fMRI connectivity. <i>NeuroImage</i> , 2012 , 62, 1257-66	7.9	254
136	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. <i>NeuroImage</i> , 2012 , 63, 365-80	7.9	96
135	Tools of the trade: psychophysiological interactions and functional connectivity. <i>Social Cognitive and Affective Neuroscience</i> , 2012 , 7, 604-9	4	529
134	Language networks in anophthalmia: maintained hierarchy of processing in 'visual' cortex. <i>Brain</i> , 2012 , 135, 1566-77	11.2	74
133	Resting-state fMRI single subject cortical parcellation based on region growing. <i>Lecture Notes in Computer Science</i> , 2012 , 15, 188-95	0.9	12
132	A Bayesian model of shape and appearance for subcortical brain segmentation. <i>NeuroImage</i> , 2011 , 56, 907-22	7.9	1531
131	Diffusion imaging of whole, post-mortem human brains on a clinical MRI scanner. <i>NeuroImage</i> , 2011 , 57, 167-181	7.9	193
130	Network modelling methods for fMRI. <i>NeuroImage</i> , 2011 , 54, 875-91	7.9	1254
129	Adjusting the effect of nonstationarity in cluster-based and TFCE inference. <i>NeuroImage</i> , 2011 , 54, 2006-19	7.9	105
128	DTI measures in crossing-fibre areas: increased diffusion anisotropy reveals early white matter alteration in MCI and mild Alzheimer's disease. <i>NeuroImage</i> , 2011 , 55, 880-90	7.9	381
127	Spectral characteristics of resting state networks. <i>Progress in Brain Research</i> , 2011 , 193, 259-76	2.9	140
126	Using Gaussian-process regression for meta-analytic neuroimaging inference based on sparse observations. <i>IEEE Transactions on Medical Imaging</i> , 2011 , 30, 1401-16	11.7	18
125	Investigating the electrophysiological basis of resting state networks using magnetoencephalography. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 16783-8	11.5	647
124	Behavioral interpretations of intrinsic connectivity networks. <i>Journal of Cognitive Neuroscience</i> , 2011 , 23, 4022-37	3.1	769
123	Multiplexed echo planar imaging for sub-second whole brain fMRI and fast diffusion imaging. <i>PLoS ONE</i> , 2010 , 5, e15710	3.7	889
122	Advances and pitfalls in the analysis and interpretation of resting-state fMRI data. <i>Frontiers in Systems Neuroscience</i> , 2010 , 4, 8	3.5	624
121	Resting state networks change in clinically isolated syndrome. <i>Brain</i> , 2010 , 133, 1612-21	11.2	194
120	Age-related changes in grey and white matter structure throughout adulthood. <i>NeuroImage</i> , 2010 , 51, 943-51	7.9	336

119	Crossing fibres in tract-based spatial statistics. <i>NeuroImage</i> , 2010 , 49, 249-56	7.9	145
118	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
117	Relationships of brain white matter microstructure with clinical and MR measures in relapsing-remitting multiple sclerosis. <i>Journal of Magnetic Resonance Imaging</i> , 2010 , 31, 309-16	5.6	63
116	Asymmetries of the balanced SSFP profile. Part II: white matter. <i>Magnetic Resonance in Medicine</i> , 2010 , 63, 396-406	4.4	23
115	Homocysteine-lowering by B vitamins slows the rate of accelerated brain atrophy in mild cognitive impairment: a randomized controlled trial. <i>PLoS ONE</i> , 2010 , 5, e12244	3.7	472
114	Schizophrenia delays and alters maturation of the brain in adolescence. <i>Brain</i> , 2009 , 132, 2437-48	11.2	114
113	Model-free group analysis shows altered BOLD FMRI networks in dementia. <i>Human Brain Mapping</i> , 2009 , 30, 256-66	5.9	107
112	Investigation of white matter pathology in ALS and PLS using tract-based spatial statistics. <i>Human Brain Mapping</i> , 2009 , 30, 615-24	5.9	107
111	White matter tract integrity in aging and Alzheimer's disease. <i>Human Brain Mapping</i> , 2009 , 30, 1051-9	5.9	194
110	Cross-subject Comparison of Local Diffusion MRI Parameters 2009 , 147-174		1
109	Correspondence of the brain's functional architecture during activation and rest. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 13040-5	11.5	3661
108	Distinct patterns of brain activity in young carriers of the APOE-epsilon4 allele. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 7209-14	11.5	1286
107	Threshold-free cluster enhancement: addressing problems of smoothing, threshold dependence and localisation in cluster inference. <i>NeuroImage</i> , 2009 , 44, 83-98	7.9	3377
106	Meta-analysis of neuroimaging data: a comparison of image-based and coordinate-based pooling of studies. <i>NeuroImage</i> , 2009 , 45, 810-23	7.9	250
105	An evaluation of four automatic methods of segmenting the subcortical structures in the brain. <i>NeuroImage</i> , 2009 , 47, 1435-47	7.9	148
104	Sampling and visualizing creases with scale-space particles. <i>IEEE Transactions on Visualization and Computer Graphics</i> , 2009 , 15, 1415-24	4	55
103	Bayesian analysis of neuroimaging data in FSL. <i>NeuroImage</i> , 2009 , 45, S173-86	7.9	1553
102	Statistical Analysis of fMRI Data. <i>Neuromethods</i> , 2009 , 179-236	0.4	8

101	Methods for tractography-driven surface registration of brain structures. <i>Lecture Notes in Computer Science</i> , 2009 , 12, 705-12	0.9	4
100	Adjusting the neuroimaging statistical inferences for nonstationarity. <i>Lecture Notes in Computer Science</i> , 2009 , 12, 992-9	0.9	4
99	Enhanced brain extraction improves the accuracy of brain atrophy estimation. <i>NeuroImage</i> , 2008 , 40, 583-589	7.9	52
98	Bayesian deconvolution of [corrected] fMRI data using bilinear dynamical systems. <i>NeuroImage</i> , 2008 , 42, 1381-96	7.9	27
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28	Accurate brain age prediction with lightweight deep neural networks	8
27	The Developing Human Connectome Project: typical and disrupted perinatal functional connectivity	8
26	Phenotype Discovery from Population Brain Imaging	2
25	Confound modelling in UK Biobank brain imaging	4
24	Mid-life and late life activities and their relationship with MRI measures of brain structure and functional connectivity in the UK Biobank cohort	1
23	Enhanced Brain Imaging Genetics in UK Biobank	7
22	Common variants contribute to intrinsic human brain functional networks	2
21	Combining Multi-Site/Multi-Study MRI Data: Linked-ICA Denoising for Removing Scanner and Site Variability from Multimodal MRI Data	1
20	Effective Degrees of Freedom of the Pearson's Correlation Coefficient under Autocorrelation	3
19	Modelling Subject Variability in the Spatial and Temporal Characteristics of Functional Modes	3
18	Estimation of Brain Age Delta from Brain Imaging	6
17	Hippocampal volume across age: Nomograms derived from over 19,700 people in UK Biobank	1
16	Towards HCP-Style Macaque Connectomes: 24-Channel 3T Multi-Array Coil, MRI Sequences and Preprocessing	2
15	High resolution nonlinear registration with simultaneous modelling of intensities	3
14	A data-driven approach to optimising the encoding for multi-shell diffusion MRI with application to neonatal imaging	1
13	Optimising network modelling methods for fMRI	2
12	The developing Human Connectome Project (dHCP) automated resting-state functional processing framework for newborn infants	5

11	Brain aging comprises many modes of structural and functional change with distinct genetic and biophysical associations	3
10	Patterns of socio-cognitive stratification and perinatal risk in the child brain	1
9	Disambiguating brain functional connectivity	2
8	Multimodal Surface Matching with Higher-Order Smoothness Constraints?	1
7	Multi-dynamic Modelling Reveals Strongly Time-varying Resting fMRI Correlations	1
6	Phenotypic and genetic associations of quantitative magnetic susceptibility in UK Biobank brain imaging	1
5	The Forget-Me-Not dHCP study: 7 Tesla high resolution diffusion imaging in the unfixed post-mortem neonatal brain	2
4	Hierarchical modelling of functional brain networks in population and individuals from big fMRI data	1
3	Accurate predictions of individual differences in task-evoked brain activity from resting-state fMRI using a sparse ensemble learner	1
2	Supervised Phenotype Discovery from Multimodal Brain Imaging	1
1	Graded Variation In Cortical T1w/T2w Myelination During Adolescence	1