

Mark W Woolrich

List of Publications by Year in Descending Order

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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.

214
papers

42,028
citations

65
h-index

205
g-index

239
ext. papers

51,668
ext. citations

7.9
avg, IF

7.39
L-index

#	Paper	IF	Citations
214	Multi-dynamic modelling reveals strongly time-varying resting fMRI correlations.. <i>Medical Image Analysis</i> , 2022 , 77, 102366	15.4	2
213	Brainwave viscosity in propofol anaesthesia.. <i>British Journal of Anaesthesia</i> , 2022 , 128, e61-e62	5.4	
212	Data and model considerations for estimating time-varying functional connectivity in fMRI.. <i>NeuroImage</i> , 2022 , 252, 119026	7.9	0
211	Transient beta activity and cortico-muscular connectivity during sustained motor behaviour.. <i>Progress in Neurobiology</i> , 2022 , 102281	10.9	1
210	Automatic decomposition of electrophysiological data into distinct nonsinusoidal oscillatory modes. <i>Journal of Neurophysiology</i> , 2021 , 126, 1670-1684	3.2	4
209	EMD: Empirical Mode Decomposition and Hilbert-Huang Spectral Analyses in Python. <i>Journal of Open Source Software</i> , 2021 , 6,	5.2	24
208	Behavioural relevance of spontaneous, transient brain network interactions in fMRI. <i>NeuroImage</i> , 2021 , 229, 117713	7.9	15
207	Adapting non-invasive human recordings along multiple task-axes shows unfolding of spontaneous and over-trained choice. <i>ELife</i> , 2021 , 10,	8.9	2
206	Dynamic analysis on simultaneous iEEG-MEG data via hidden Markov model. <i>NeuroImage</i> , 2021 , 233, 117923	7.3	5
205	Temporally delayed linear modelling (TDLM) measures replay in both animals and humans. <i>ELife</i> , 2021 , 10,	8.9	5
204	Balance between competing spectral states in subthalamic nucleus is linked to motor impairment in Parkinson's disease. <i>Brain</i> , 2021 ,	11.2	2
203	The role of hippocampal theta oscillations in working memory impairment in multiple sclerosis. <i>Human Brain Mapping</i> , 2021 , 42, 1376-1390	5.9	3
202	Brain dysconnectivity relates to disability and cognitive impairment in multiple sclerosis. <i>Human Brain Mapping</i> , 2021 , 42, 626-643	5.9	12
201	Replay bursts in humans coincide with activation of the default mode and parietal alpha networks. <i>Neuron</i> , 2021 , 109, 882-893.e7	13.9	26
200	Increased brain atrophy and lesion load is associated with stronger lower alpha MEG power in multiple sclerosis patients. <i>NeuroImage: Clinical</i> , 2021 , 30, 102632	5.3	3
199	Revealing the Dynamic Nature of Amplitude Modulated Neural Entrainment With Holo-Hilbert Spectral Analysis. <i>Frontiers in Neuroscience</i> , 2021 , 15, 673369	5.1	2
198	Within-cycle instantaneous frequency profiles report oscillatory waveform dynamics. <i>Journal of Neurophysiology</i> , 2021 , 126, 1190-1208	3.2	7

197	Mild traumatic brain injury impairs the coordination of intrinsic and motor-related neural dynamics. <i>NeuroImage: Clinical</i> , 2021 , 32, 102841	5.3	2
196	Hierarchical modelling of functional brain networks in population and individuals from big fMRI data. <i>NeuroImage</i> , 2021 , 243, 118513	7.9	0
195	Dissociable Components of Information Encoding in Human Perception. <i>Cerebral Cortex</i> , 2021 , 31, 5664-5675	5.6	1
194	Transient spectral events in resting state MEG predict individual task responses. <i>NeuroImage</i> , 2020 , 215, 116818	7.9	2
193	Spatiotemporal and spectral dynamics of multi-item working memory as revealed by the n-back task using MEG. <i>Human Brain Mapping</i> , 2020 , 41, 2431-2446	5.9	9
192	Tau pathology in early Alzheimer's disease is linked to selective disruptions in neurophysiological network dynamics. <i>Neurobiology of Aging</i> , 2020 , 92, 141-152	5.6	8
191	The role of transient spectral 'bursts' in functional connectivity: A magnetoencephalography study. <i>NeuroImage</i> , 2020 , 209, 116537	7.9	30
190	Optimising network modelling methods for fMRI. <i>NeuroImage</i> , 2020 , 211, 116604	7.9	73
189	Subthalamic nucleus activity dynamics and limb movement prediction in Parkinson's disease. <i>Brain</i> , 2020 , 143, 582-596	11.2	20
188	Spontaneous network activity. <i>NeuroImage</i> , 2020 , 207, 116374	7.9	8
187	Post-stimulus beta responses are modulated by task duration. <i>NeuroImage</i> , 2020 , 206, 116288	7.9	4
186	Dissecting beta-state changes during timed movement preparation in Parkinson's disease. <i>Progress in Neurobiology</i> , 2020 , 184, 101731	10.9	13
185	Modelling subject variability in the spatial and temporal characteristics of functional modes. <i>NeuroImage</i> , 2020 , 222, 117226	7.9	15
184	Challenges and future directions for representations of functional brain organization. <i>Nature Neuroscience</i> , 2020 , 23, 1484-1495	25.5	35
183	The psychological correlates of distinct neural states occurring during wakeful rest. <i>Scientific Reports</i> , 2020 , 10, 21121	4.9	17
182	Functional network dynamics in a neurodevelopmental disorder of known genetic origin. <i>Human Brain Mapping</i> , 2020 , 41, 530-544	5.9	16
181	How Sensitive Are Conventional MEG Functional Connectivity Metrics With Sliding Windows to Detect Genuine Fluctuations in Dynamic Functional Connectivity?. <i>Frontiers in Neuroscience</i> , 2019 , 13, 797	5.1	7
180	Do the posterior midline cortices belong to the electrophysiological default-mode network?. <i>NeuroImage</i> , 2019 , 200, 221-230	7.9	20

179	Tracking dynamic brain networks using high temporal resolution MEG measures of functional connectivity. <i>NeuroImage</i> , 2019 , 200, 38-50	7.9	31
178	Discovery of key whole-brain transitions and dynamics during human wakefulness and non-REM sleep. <i>Nature Communications</i> , 2019 , 10, 1035	17.4	72
177	Metastable brain waves. <i>Nature Communications</i> , 2019 , 10, 1056	17.4	69
176	Biomagnetic biomarkers for dementia: A pilot multicentre study with a recommended methodological framework for magnetoencephalography. <i>Alzheimers and Dementia: Diagnosis, Assessment and Disease Monitoring</i> , 2019 , 11, 450-462	5.2	14
175	Altered transient brain dynamics in multiple sclerosis: Treatment or pathology?. <i>Human Brain Mapping</i> , 2019 , 40, 4789-4800	5.9	16
174	A tool for functional brain imaging with lifespan compliance. <i>Nature Communications</i> , 2019 , 10, 4785	17.4	41
173	The relationship between spatial configuration and functional connectivity of brain regions revisited. <i>ELife</i> , 2019 , 8,	8.9	34
172	An Introduction to MEG Connectivity Measurements 2019 , 433-470		
171	An Introduction to MEG Connectivity Measurements 2019 , 1-38		
170	Unpacking Transient Event Dynamics in Electrophysiological Power Spectra. <i>Brain Topography</i> , 2019 , 32, 1020-1034	4.3	20
169	Stable between-subject statistical inference from unstable within-subject functional connectivity estimates. <i>Human Brain Mapping</i> , 2019 , 40, 1234-1243	5.9	7
168	Temporally Unconstrained Decoding Reveals Consistent but Time-Varying Stages of Stimulus Processing. <i>Cerebral Cortex</i> , 2019 , 29, 863-874	5.1	25
167	Spatial parcellations, spectral filtering, and connectivity measures in fMRI: Optimizing for discrimination. <i>Human Brain Mapping</i> , 2019 , 40, 407-419	5.9	17
166	A dynamic system of brain networks revealed by fast transient EEG fluctuations and their fMRI correlates. <i>NeuroImage</i> , 2019 , 185, 72-82	7.9	25
165	Disambiguating brain functional connectivity. <i>NeuroImage</i> , 2018 , 173, 540-550	7.9	38
164	Bayesian Optimisation of Large-Scale Biophysical Networks. <i>NeuroImage</i> , 2018 , 174, 219-236	7.9	7
163	Increased cerebral functional connectivity in ALS: A resting-state magnetoencephalography study. <i>Neurology</i> , 2018 , 90, e1418-e1424	6.5	15
162	Directed functional connectivity using dynamic graphical models. <i>NeuroImage</i> , 2018 , 175, 340-353	7.9	17

161	Impaired corticomuscular and interhemispheric cortical beta oscillation coupling in amyotrophic lateral sclerosis. <i>Clinical Neurophysiology</i> , 2018 , 129, 1479-1489	4.3	21
160	Altered temporal stability in dynamic neural networks underlies connectivity changes in neurodevelopment. <i>NeuroImage</i> , 2018 , 174, 563-575	7.9	35
159	Distinct criticality of phase and amplitude dynamics in the resting brain. <i>NeuroImage</i> , 2018 , 180, 442-447.9	17	
158	Discovering dynamic brain networks from big data in rest and task. <i>NeuroImage</i> , 2018 , 180, 646-656	7.9	137
157	Dynamics of large-scale electrophysiological networks: A technical review. <i>NeuroImage</i> , 2018 , 180, 559-57.6	89	
156	Spontaneous cortical activity transiently organises into frequency specific phase-coupling networks. <i>Nature Communications</i> , 2018 , 9, 2987	17.4	137
155	Neural Oscillations: Sustained Rhythms or Transient Burst-Events?. <i>Trends in Neurosciences</i> , 2018 , 41, 415-417	13.3	74
154	Multi-subject hierarchical inverse covariance modelling improves estimation of functional brain networks. <i>NeuroImage</i> , 2018 , 178, 370-384	7.9	12
153	Task-Evoked Dynamic Network Analysis Through Hidden Markov Modeling. <i>Frontiers in Neuroscience</i> , 2018 , 12, 603	5.1	64
152	A biophysical model of dynamic balancing of excitation and inhibition in fast oscillatory large-scale networks. <i>PLoS Computational Biology</i> , 2018 , 14, e1006007	5	35
151	Author response: The relationship between spatial configuration and functional connectivity of brain regions 2018 ,		12
150	Decoding Movement States in Stepping Cycles Based on Subthalamic LFPs in Parkinsonian Patients. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2018 , 2018, 1384-1387	0.9	4
149	Short timescale abnormalities in the states of spontaneous synchrony in the functional neural networks in Alzheimer's disease. <i>NeuroImage: Clinical</i> , 2018 , 20, 128-152	5.3	18
148	The relationship between spatial configuration and functional connectivity of brain regions. <i>ELife</i> , 2018 , 7,	8.9	105
147	Using generative models to make probabilistic statements about hippocampal engagement in MEG. <i>NeuroImage</i> , 2017 , 149, 468-482	7.9	33
146	Single or multiple frequency generators in on-going brain activity: A mechanistic whole-brain model of empirical MEG data. <i>NeuroImage</i> , 2017 , 152, 538-550	7.9	87
145	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
144	Investigations into within- and between-subject resting-state amplitude variations. <i>NeuroImage</i> , 2017 , 159, 57-69	7.9	51

143	Preparatory β -band oscillations reflect spatial gating independently of predictions regarding target identity. <i>Journal of Neurophysiology</i> , 2017 , 117, 1385-1394	3.2	19
142	Altered cortical beta-band oscillations reflect motor system degeneration in amyotrophic lateral sclerosis. <i>Human Brain Mapping</i> , 2017 , 38, 237-254	5.9	40
141	Measurement of dynamic task related functional networks using MEG. <i>NeuroImage</i> , 2017 , 146, 667-678	7.9	59
140	The heritability of multi-modal connectivity in human brain activity. <i>ELife</i> , 2017 , 6,	8.9	62
139	Author response: The heritability of multi-modal connectivity in human brain activity 2017 ,		3
138	Electrophysiological measures of resting state functional connectivity and their relationship with working memory capacity in childhood. <i>Developmental Science</i> , 2016 , 19, 19-31	4.5	21
137	Training Working Memory in Childhood Enhances Coupling between Frontoparietal Control Network and Task-Related Regions. <i>Journal of Neuroscience</i> , 2016 , 36, 9001-11	6.6	30
136	How reliable are MEG resting-state connectivity metrics?. <i>NeuroImage</i> , 2016 , 138, 284-293	7.9	205
135	Spectrally resolved fast transient brain states in electrophysiological data. <i>NeuroImage</i> , 2016 , 126, 81-95	7.9	152
134	Evidence for a Caregiving Instinct: Rapid Differentiation of Infant from Adult Vocalizations Using Magnetoencephalography. <i>Cerebral Cortex</i> , 2016 , 26, 1309-1321	5.1	28
133	Non-linear Parameter Estimates from Non-stationary MEG Data. <i>Frontiers in Neuroscience</i> , 2016 , 10, 366	5.1	7
132	Intrusive memories to traumatic footage: the neural basis of their encoding and involuntary recall. <i>Psychological Medicine</i> , 2016 , 46, 505-18	6.9	34
131	Statistical Analysis of fMRI Data. <i>Neuroinformatics</i> , 2016 , 183-239	0.4	1
130	Integrating cross-frequency and within band functional networks in resting-state MEG: A multi-layer network approach. <i>NeuroImage</i> , 2016 , 142, 324-336	7.9	68
129	A symmetric multivariate leakage correction for MEG connectomes. <i>NeuroImage</i> , 2015 , 117, 439-48	7.9	218
128	Dynamic recruitment of resting state sub-networks. <i>NeuroImage</i> , 2015 , 115, 85-95	7.9	58
127	Cognitive training enhances intrinsic brain connectivity in childhood. <i>Journal of Neuroscience</i> , 2015 , 35, 6277-83	6.6	85
126	Learning to identify CNS drug action and efficacy using multistudy fMRI data. <i>Science Translational Medicine</i> , 2015 , 7, 274ra16	17.5	71

125	Role of white-matter pathways in coordinating alpha oscillations in resting visual cortex. <i>NeuroImage</i> , 2015 , 106, 328-39	7.9	29
124	Modulation of hippocampal theta and hippocampal-prefrontal cortex function by a schizophrenia risk gene. <i>Human Brain Mapping</i> , 2015 , 36, 2387-95	5.9	36
123	Probabilistic non-linear registration with spatially adaptive regularisation. <i>Medical Image Analysis</i> , 2015 , 26, 203-16	15.4	18
122	Testing sensory evidence against mnemonic templates. <i>ELife</i> , 2015 , 4, e09000	8.9	79
121	Frontoparietal and Cingulo-opercular Networks Play Dissociable Roles in Control of Working Memory. <i>Journal of Cognitive Neuroscience</i> , 2015 , 27, 2019-34	3.1	92
120	The Neural Dynamics of Fronto-Parietal Networks in Childhood Revealed using Magnetoencephalography. <i>Cerebral Cortex</i> , 2015 , 25, 3868-76	5.1	21
119	Large-scale probabilistic functional modes from resting state fMRI. <i>NeuroImage</i> , 2015 , 109, 217-31	7.9	67
118	How delays matter in an oscillatory whole-brain spiking-neuron network model for MEG alpha-rhythms at rest. <i>NeuroImage</i> , 2014 , 87, 383-94	7.9	29
117	Modulation of alpha power at encoding and retrieval tracks the precision of visual short-term memory. <i>Journal of Neurophysiology</i> , 2014 , 112, 2939-45	3.2	10
116	Magnetoencephalography. <i>Practical Neurology</i> , 2014 , 14, 336-43	2.4	37
115	Non-Gaussian probabilistic MEG source localisation based on kernel density estimation. <i>NeuroImage</i> , 2014 , 87, 444-64	7.9	15
114	Exploring mechanisms of spontaneous functional connectivity in MEG: how delayed network interactions lead to structured amplitude envelopes of band-pass filtered oscillations. <i>NeuroImage</i> , 2014 , 90, 423-35	7.9	175
113	Multi-session statistics on beamformed MEG data. <i>NeuroImage</i> , 2014 , 95, 330-5	7.9	12
112	Memory load modulates graded changes in distracter filtering. <i>Frontiers in Human Neuroscience</i> , 2014 , 8, 1025	3.3	3
111	Fast transient networks in spontaneous human brain activity. <i>ELife</i> , 2014 , 3, e01867	8.9	295
110	MVPA to enhance the study of rare cognitive events: An investigation of experimental PTSD 2014 ,		2
109	Optimising beamformer regions of interest analysis. <i>NeuroImage</i> , 2014 , 102 Pt 2, 945-54	7.9	6
108	Guiding functional connectivity estimation by structural connectivity in MEG: an application to discrimination of conditions of mild cognitive impairment. <i>NeuroImage</i> , 2014 , 101, 765-77	7.9	43

107	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
106	Serotonin and social norms: tryptophan depletion impairs social comparison and leads to resource depletion in a multiplayer harvesting game. <i>Psychological Science</i> , 2014 , 25, 1303-13	7.9	17
105	Measuring temporal, spectral and spatial changes in electrophysiological brain network connectivity. <i>NeuroImage</i> , 2014 , 91, 282-99	7.9	90
104	Localization of MEG human brain responses to retinotopic visual stimuli with contrasting source reconstruction approaches. <i>Frontiers in Neuroscience</i> , 2014 , 8, 127	5.1	9
103	Local GABA concentration is related to network-level resting functional connectivity. <i>ELife</i> , 2014 , 3, e01465	11.5	120
102	Author response: Fast transient networks in spontaneous human brain activity 2014 ,		5
101	An Introduction to MEG Connectivity Measurements 2014 , 321-358		5
100	Modeling dispersion in arterial spin labeling: validation using dynamic angiographic measurements. <i>Magnetic Resonance in Medicine</i> , 2013 , 69, 563-70	4.4	33
99	Comparing model-based and model-free analysis methods for QUASAR arterial spin labeling perfusion quantification. <i>Magnetic Resonance in Medicine</i> , 2013 , 69, 1466-75	4.4	13
98	Dynamic state allocation for MEG source reconstruction. <i>NeuroImage</i> , 2013 , 77, 77-92	7.9	47
97	Functional connectomics from resting-state fMRI. <i>Trends in Cognitive Sciences</i> , 2013 , 17, 666-82	14	560
96	Utility of Partial Correlation for Characterising Brain Dynamics: MVPA-based Assessment of Regularisation and Network Selection 2013 ,		2
95	RubiX: combining spatial resolutions for Bayesian inference of crossing fibers in diffusion MRI. <i>IEEE Transactions on Medical Imaging</i> , 2013 , 32, 969-82	11.7	29
94	Set-level threshold-free tests on the intrinsic volumes of SPMs. <i>NeuroImage</i> , 2013 , 68, 133-40	7.9	0
93	Using variance information in magnetoencephalography measures of functional connectivity. <i>NeuroImage</i> , 2013 , 67, 203-12	7.9	43
92	Adding dynamics to the Human Connectome Project with MEG. <i>NeuroImage</i> , 2013 , 80, 190-201	7.9	132
91	Biophysical network models and the human connectome. <i>NeuroImage</i> , 2013 , 80, 330-8	7.9	62
90	Resting-state fMRI in the Human Connectome Project. <i>NeuroImage</i> , 2013 , 80, 144-68	7.9	865

89	Minor structural abnormalities in the infant face disrupt neural processing: a unique window into early caregiving responses. <i>Social Neuroscience</i> , 2013 , 8, 268-74	2	37
88	Ensemble learning incorporating uncertain registration. <i>IEEE Transactions on Medical Imaging</i> , 2013 , 32, 748-56	11.7	15
87	Trial-type dependent frames of reference for value comparison. <i>PLoS Computational Biology</i> , 2013 , 9, e1003225	5	35
86	A Bayesian approach for spatially adaptive regularisation in non-rigid registration. <i>Lecture Notes in Computer Science</i> , 2013 , 16, 10-8	0.9	11
85	A fast analysis method for non-invasive imaging of blood flow in individual cerebral arteries using vessel-encoded arterial spin labelling angiography. <i>Medical Image Analysis</i> , 2012 , 16, 831-9	15.4	22
84	Fusion of magnetometer and gradiometer sensors of MEG in the presence of multiplicative error. <i>IEEE Transactions on Biomedical Engineering</i> , 2012 , 59, 1951-61	5	5
83	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
82	Mechanisms underlying cortical activity during value-guided choice. <i>Nature Neuroscience</i> , 2012 , 15, 470-6, S1-3	25.5	290
81	The danger of systematic bias in group-level fMRI-lag-based causality estimation. <i>NeuroImage</i> , 2012 , 59, 1228-9	7.9	44
80	Probabilistic inference of regularisation in non-rigid registration. <i>NeuroImage</i> , 2012 , 59, 2438-51	7.9	50
79	FSL. <i>NeuroImage</i> , 2012 , 62, 782-90	7.9	5752
78	Bayesian inference in fMRI. <i>NeuroImage</i> , 2012 , 62, 801-10	7.9	37
77	Task-driven ICA feature generation for accurate and interpretable prediction using fMRI. <i>NeuroImage</i> , 2012 , 60, 189-203	7.9	26
76	Measuring functional connectivity in MEG: a multivariate approach insensitive to linear source leakage. <i>NeuroImage</i> , 2012 , 63, 910-20	7.9	227
75	Inferring task-related networks using independent component analysis in magnetoencephalography. <i>NeuroImage</i> , 2012 , 62, 530-41	7.9	99
74	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
73	Task induced modulation of neural oscillations in electrophysiological brain networks. <i>NeuroImage</i> , 2012 , 63, 1918-30	7.9	49
72	Tools of the trade: psychophysiological interactions and functional connectivity. <i>Social Cognitive and Affective Neuroscience</i> , 2012 , 7, 604-9	4	529

71	A probabilistic non-rigid registration framework using local noise estimates 2012 ,		1
70	MEG beamforming using Bayesian PCA for adaptive data covariance matrix regularization. <i>NeuroImage</i> , 2011 , 57, 1466-79	7.9	88
69	Network modelling methods for fMRI. <i>NeuroImage</i> , 2011 , 54, 875-91	7.9	1254
68	Linked independent component analysis for multimodal data fusion. <i>NeuroImage</i> , 2011 , 54, 2198-217	7.9	210
67	Relationship between physiological measures of excitability and levels of glutamate and GABA in the human motor cortex. <i>Journal of Physiology</i> , 2011 , 589, 5845-55	3.9	250
66	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
65	Partial volume correction of multiple inversion time arterial spin labeling MRI data. <i>Magnetic Resonance in Medicine</i> , 2011 , 65, 1173-83	4.4	86
64	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
63	A fast solution to robust minimum variance beamformer and application to simultaneous MEG and local field potential 2011 ,		1
62	Motor practice promotes increased activity in brain regions structurally disconnected after subcortical stroke. <i>Neurorehabilitation and Neural Repair</i> , 2011 , 25, 607-16	4.7	42
61	Longitudinal brain MRI analysis with uncertain registration. <i>Lecture Notes in Computer Science</i> , 2011 , 14, 647-54	0.9	18
60	Assessment of arterial arrival times derived from multiple inversion time pulsed arterial spin labeling MRI. <i>Magnetic Resonance in Medicine</i> , 2010 , 63, 641-7	4.4	100
59	Separation of macrovascular signal in multi-inversion time arterial spin labelling MRI. <i>Magnetic Resonance in Medicine</i> , 2010 , 63, 1357-65	4.4	79
58	Vessel-encoded dynamic magnetic resonance angiography using arterial spin labeling. <i>Magnetic Resonance in Medicine</i> , 2010 , 64, 430-8	4.4	9
57	Vessel-encoded dynamic magnetic resonance angiography using arterial spin labeling. <i>Magnetic Resonance in Medicine</i> , 2010 , 64, 698-706	4.4	35
56	A general framework for the analysis of vessel encoded arterial spin labeling for vascular territory mapping. <i>Magnetic Resonance in Medicine</i> , 2010 , 64, 1529-39	4.4	31
55	Modulation of movement-associated cortical activation by transcranial direct current stimulation. <i>European Journal of Neuroscience</i> , 2009 , 30, 1412-23	3.5	132
54	How green is the grass on the other side? Frontopolar cortex and the evidence in favor of alternative courses of action. <i>Neuron</i> , 2009 , 62, 733-43	13.9	471

53	Variational Bayesian Inference for a Nonlinear Forward Model. <i>IEEE Transactions on Signal Processing</i> , 2009 , 57, 223-236	4.8	200
52	Vascular territory image analysis using vessel encoded arterial spin labeling. <i>Lecture Notes in Computer Science</i> , 2009 , 12, 514-21	0.9	2
51	Multiple-subjects connectivity-based parcellation using hierarchical Dirichlet process mixture models. <i>NeuroImage</i> , 2009 , 44, 373-84	7.9	77
50	Combined spatial and non-spatial prior for inference on MRI time-series. <i>NeuroImage</i> , 2009 , 45, 795-809	7.9	65
49	Bayesian analysis of neuroimaging data in FSL. <i>NeuroImage</i> , 2009 , 45, S173-86	7.9	1553
48	Statistical Analysis of fMRI Data. <i>Neuroinformatics</i> , 2009 , 179-236	0.4	8
47	Associative learning of social value. <i>Nature</i> , 2008 , 456, 245-9	50.4	676
46	Knowing when to stop: the brain mechanisms of chasing losses. <i>Biological Psychiatry</i> , 2008 , 63, 293-300	7.9	123
45	Robust group analysis using outlier inference. <i>NeuroImage</i> , 2008 , 41, 286-301	7.9	382
44	Bayesian deconvolution of [corrected] fMRI data using bilinear dynamical systems. <i>NeuroImage</i> , 2008 , 42, 1381-96	7.9	27
43	Learning the value of information in an uncertain world. <i>Nature Neuroscience</i> , 2007 , 10, 1214-21	25.5	1218
42	Evidence for a vascular contribution to diffusion FMRI at high b value. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 20967-72	11.5	70
41	Probabilistic diffusion tractography with multiple fibre orientations: What can we gain?. <i>NeuroImage</i> , 2007 , 34, 144-55	7.9	2514
40	Meaningful design and contrast estimability in FMRI. <i>NeuroImage</i> , 2007 , 34, 127-36	7.9	50
39	A Bayesian framework for global tractography. <i>NeuroImage</i> , 2007 , 37, 116-29	7.9	215
38	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
37	Bayesian inference of hemodynamic changes in functional arterial spin labeling data. <i>Magnetic Resonance in Medicine</i> , 2006 , 56, 891-906	4.4	34
36	Variational Bayes inference of spatial mixture models for segmentation. <i>IEEE Transactions on Medical Imaging</i> , 2006 , 25, 1380-91	11.7	64

35	Automated single-trial measurement of amplitude and latency of laser-evoked potentials (LEPs) using multiple linear regression. <i>Clinical Neurophysiology</i> , 2006 , 117, 1331-44	4.3	47
34	Mixture models with adaptive spatial regularization for segmentation with an application to fMRI data. <i>IEEE Transactions on Medical Imaging</i> , 2005 , 24, 1-11	11.7	99
33	Variability in fMRI: a re-examination of inter-session differences. <i>Human Brain Mapping</i> , 2005 , 24, 248-57	5.9	140
32	Fully Bayesian spatio-temporal modeling of fMRI data. <i>IEEE Transactions on Medical Imaging</i> , 2004 , 23, 213-31	11.7	181
31	Multilevel linear modelling for fMRI group analysis using Bayesian inference. <i>NeuroImage</i> , 2004 , 21, 1732-47	7.9	1171
30	Constrained linear basis sets for HRF modelling using Variational Bayes. <i>NeuroImage</i> , 2004 , 21, 1748-61	7.9	192
29	Advances in functional and structural MR image analysis and implementation as FSL. <i>NeuroImage</i> , 2004 , 23 Suppl 1, S208-19	7.9	8876
28	Characterization and propagation of uncertainty in diffusion-weighted MR imaging. <i>Magnetic Resonance in Medicine</i> , 2003 , 50, 1077-88	4.4	2240
27	Non-invasive mapping of connections between human thalamus and cortex using diffusion imaging. <i>Nature Neuroscience</i> , 2003 , 6, 750-7	25.5	1817
26	Functional brain reorganization for hand movement in patients with multiple sclerosis: defining distinct effects of injury and disability. <i>Brain</i> , 2002 , 125, 2646-57	11.2	136
25	Temporal autocorrelation in univariate linear modeling of fMRI data. <i>NeuroImage</i> , 2001 , 14, 1370-86	7.9	1941
24	Attention to touch modulates activity in both primary and secondary somatosensory areas. <i>NeuroReport</i> , 2000 , 11, 1237-41	1.7	137
23	Temporally unconstrained decoding reveals consistent but time-varying stages of stimulus processing		2
22	Stable between-subject statistical inference from unstable within-subject functional connectivity estimates		1
21	Spontaneous cortical activity transiently organises into frequency specific phase-coupling networks		4
20	The psychological correlates of distinct neural states occurring during wakeful rest		4
19	Effective psychological treatment for PTSD changes the dynamics of specific large-scale brain networks		2
18	Projections of non-invasive human recordings into state space show unfolding of spontaneous and over-trained choice		1

17	Intrinsic/extrinsic duality of large-scale neural functional integration in the human brain	2
16	Spontaneous activity changes in large-scale cortical networks in older adults couple to distinct hemodynamic morphology	2
15	Replay bursts coincide with activation of the default mode and parietal alpha network	4
14	Dynamic Analysis on Simultaneous iEEG-MEG Data via Hidden Markov Model	1
13	Motor learning shapes temporal activity in human sensorimotor cortex	4
12	Metastable brain waves	1
11	Neural dynamics at rest associated with patterns of ongoing thought	1
10	Tau pathology in early Alzheimer's disease disrupts selective neurophysiological network dynamics	1
9	Modelling Subject Variability in the Spatial and Temporal Characteristics of Functional Modes	3
8	Optimising network modelling methods for fMRI	2
7	Disambiguating brain functional connectivity	2
6	Transient beta activity and connectivity during sustained motor behaviour	3
5	Within-cycle instantaneous frequency profiles report oscillatory waveform dynamics	3
4	Multi-dynamic Modelling Reveals Strongly Time-varying Resting fMRI Correlations	1
3	Automatic decomposition of electrophysiological data into distinct non-sinusoidal oscillatory modes	3
2	Hierarchical modelling of functional brain networks in population and individuals from big fMRI data	1
1	Modulations of local synchrony over time lead to resting-state functional connectivity in a parsimonious large-scale brain model	1