

Michael J Breakspear

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.

239 papers	16,720 citations	64 h-index	124 g-index
286 ext. papers	20,810 ext. citations	6.2 avg, IF	7.25 L-index

#	Paper	IF	Citations
239	Characterising activity and diet compositions for dementia prevention: protocol for the ACTIVate prospective longitudinal cohort study.. <i>BMJ Open</i> , 2022 , 12, e047888	3	0
238	Longitudinal Changes in Structural Connectivity in Young People at High Genetic Risk for Bipolar Disorder.. <i>American Journal of Psychiatry</i> , 2022 , appiajp21010047	11.9	1
237	Detection of Cross-Frequency Coupling Between Brain Areas: An Extension of Phase Linearity Measurement.. <i>Frontiers in Neuroscience</i> , 2022 , 16, 846623	5.1	
236	Neuroimaging, Neural Population Models for 2022 , 2256-2281		
235	Sub-optimal modulation of gain by the cognitive control system in young adults with early psychosis. <i>Translational Psychiatry</i> , 2021 , 11, 549	8.6	0
234	Computational models link cellular mechanisms of neuromodulation to large-scale neural dynamics. <i>Nature Neuroscience</i> , 2021 , 24, 765-776	25.5	16
233	Data-driven analysis of facial thermal responses and multimodal physiological consistency among subjects. <i>Scientific Reports</i> , 2021 , 11, 12059	4.9	2
232	A prospective cohort study of prodromal Alzheimer's disease: Prospective Imaging Study of Ageing: Genes, Brain and Behaviour (PISA). <i>NeuroImage: Clinical</i> , 2021 , 29, 102527	5.3	7
231	Flexible brain dynamics underpins complex behaviours as observed in Parkinson's disease. <i>Scientific Reports</i> , 2021 , 11, 4051	4.9	10
230	An active inference perspective on the negative symptoms of schizophrenia. <i>Lancet Psychiatry</i> , 2021 , 8, 732-738	23.3	6
229	Blankets at birth: Transitional objects: Commentary on "The growth of cognition: Free energy minimization and the embryogenesis of cortical computation" by Wright and Bourke. <i>Physics of Life Reviews</i> , 2021 , 38, 150-152	2.1	1
228	Impact of In Utero Exposure to Antiepileptic Drugs on Neonatal Brain Function. <i>Cerebral Cortex</i> , 2021 ,	5.1	3
227	Insula cortex gates the interplay of action observation and preparation for controlled imitation. <i>Neuropsychologia</i> , 2021 , 161, 108021	3.2	0
226	Revisiting the effectiveness of repetitive transcranial magnetic stimulation treatment in depression, again.. <i>Australian and New Zealand Journal of Psychiatry</i> , 2021 , 48674211068788	2.6	0
225	Early effects of amyloid- β structural and vascular brain changes in mid-life cognitively unimpaired individuals.. <i>Alzheimer's and Dementia</i> , 2021 , 17 Suppl 3, e052681	1.2	
224	Automated cot-side tracking of functional brain age in preterm infants. <i>Annals of Clinical and Translational Neurology</i> , 2020 , 7, 891-902	5.3	9
223	The structural connectivity of subthalamic deep brain stimulation correlates with impulsivity in Parkinson's disease. <i>Brain</i> , 2020 , 143, 2235-2254	11.2	28

222	Intracranial-EEG evidence for medial temporal pole driving amygdala activity induced by multi-modal emotional stimuli. <i>Cortex</i> , 2020 , 130, 32-48	3.8	1
221	Reconfiguration of functional brain networks and metabolic cost converge during task performance. <i>ELife</i> , 2020 , 9,	8.9	15
220	Prediction-error signals to violated expectations about person identity and head orientation are doubly-dissociated across dorsal and ventral visual stream regions. <i>NeuroImage</i> , 2020 , 206, 116325	7.9	3
219	Alterations to dual stream connectivity predicts response to aphasia therapy following stroke. <i>Cortex</i> , 2020 , 125, 30-43	3.8	5
218	Questions and controversies in the study of time-varying functional connectivity in resting fMRI. <i>Network Neuroscience</i> , 2020 , 4, 30-69	5.6	159
217	Subthalamic deep brain stimulation identifies frontal networks supporting initiation, inhibition and strategy use in Parkinson's disease. <i>NeuroImage</i> , 2020 , 223, 117352	7.9	4
216	Topographic organization of the human subcortex unveiled with functional connectivity gradients. <i>Nature Neuroscience</i> , 2020 , 23, 1421-1432	25.5	74
215	Movie viewing elicits rich and reliable brain state dynamics. <i>Nature Communications</i> , 2020 , 11, 5004	17.4	32
214	Manipulating the structure of natural scenes using wavelets to study the functional architecture of perceptual hierarchies in the brain. <i>NeuroImage</i> , 2020 , 221, 117173	7.9	2
213	Dose-dependent modulation of the visually evoked N1/N170 by perceptual surprise: a clear demonstration of prediction-error signalling. <i>European Journal of Neuroscience</i> , 2020 , 52, 4442-4452	3.5	12
212	Harmonised collection of data in youth mental health: Towards large datasets. <i>Australian and New Zealand Journal of Psychiatry</i> , 2020 , 54, 46-56	2.6	5
211	Hierarchical and Nonlinear Dynamics in Prefrontal Cortex Regulate the Precision of Perceptual Beliefs. <i>Frontiers in Neural Circuits</i> , 2019 , 13, 27	3.5	
210	Human cognition involves the dynamic integration of neural activity and neuromodulatory systems. <i>Nature Neuroscience</i> , 2019 , 22, 289-296	25.5	182
209	Naturalistic Stimuli in Neuroscience: Critically Acclaimed. <i>Trends in Cognitive Sciences</i> , 2019 , 23, 699-714	14	131
208	Are the 'atoms of thought' longer in Lewy body dementia?. <i>Brain</i> , 2019 , 142, 1494-1497	11.2	1
207	Large-scale brain modes reorganize between infant sleep states and carry prognostic information for preterms. <i>Nature Communications</i> , 2019 , 10, 2619	17.4	28
206	Woe Betides Anybody Who Tries to Turn me Down. A Qualitative Analysis of Neuropsychiatric Symptoms Following Subthalamic Deep Brain Stimulation for Parkinson's Disease. <i>Neuroethics</i> , 2019 , 1	1.2	12
205	Detecting changes in facial temperature induced by a sudden auditory stimulus based on deep learning-assisted face tracking. <i>Scientific Reports</i> , 2019 , 9, 4729	4.9	23

204	Metastable brain waves. <i>Nature Communications</i> , 2019 , 10, 1056	17.4	69
203	Development of frontoparietal connectivity predicts longitudinal symptom changes in young people with autism spectrum disorder. <i>Translational Psychiatry</i> , 2019 , 9, 86	8.6	25
202	A Neuroethics Framework for the Australian Brain Initiative. <i>Neuron</i> , 2019 , 101, 365-369	13.9	5
201	Transitions in information processing dynamics at the whole-brain network level are driven by alterations in neural gain. <i>PLoS Computational Biology</i> , 2019 , 15, e1006957	5	24
200	Subjective estimates of uncertainty during gambling and impulsivity after subthalamic deep brain stimulation for Parkinson's disease. <i>Scientific Reports</i> , 2019 , 9, 14795	4.9	12
199	The Low-Dimensional Neural Architecture of Cognitive Complexity Is Related to Activity in Medial Thalamic Nuclei. <i>Neuron</i> , 2019 , 104, 849-855.e3	13.9	38
198	The structural connectivity of discrete networks underlies impulsivity and gambling in Parkinson's disease. <i>Brain</i> , 2019 , 142, 3917-3935	11.2	22
197	Neurodevelopmental correlates of the emerging adult self. <i>Developmental Cognitive Neuroscience</i> , 2019 , 36, 100626	5.5	9
196	Connectomics of bipolar disorder: a critical review, and evidence for dynamic instabilities within interoceptive networks. <i>Molecular Psychiatry</i> , 2019 , 24, 1296-1318	15.1	47
195	Caregiver burden and caregiver appraisal of psychiatric symptoms are not modulated by subthalamic deep brain stimulation for Parkinson's disease. <i>Npj Parkinson's Disease</i> , 2018 , 4, 12	9.7	20
194	Understanding the Brain, By Default. <i>Trends in Neurosciences</i> , 2018 , 41, 244-247	13.3	8
193	Putting the "dynamic" back into dynamic functional connectivity. <i>Network Neuroscience</i> , 2018 , 2, 150-174	5.6	27
192	Brain-behavior patterns define a dimensional biotype in medication-naïve adults with attention-deficit hyperactivity disorder. <i>Psychological Medicine</i> , 2018 , 48, 2399-2408	6.9	21
191	Sifting through the surfeit of neuroinflammation tracers. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2018 , 38, 204-224	7.3	70
190	Fronto-limbic dysconnectivity leads to impaired brain network controllability in young people with bipolar disorder and those at high genetic risk. <i>NeuroImage: Clinical</i> , 2018 , 19, 71-81	5.3	45
189	The site of stimulation moderates neuropsychiatric symptoms after subthalamic deep brain stimulation for Parkinson's disease. <i>NeuroImage: Clinical</i> , 2018 , 18, 996-1006	5.3	43
188	Structural dysconnectivity of key cognitive and emotional hubs in young people at high genetic risk for bipolar disorder. <i>Molecular Psychiatry</i> , 2018 , 23, 413-421	15.1	36
187	Multimodal Depression Detection: Fusion Analysis of Paralinguistic, Head Pose and Eye Gaze Behaviors. <i>IEEE Transactions on Affective Computing</i> , 2018 , 9, 478-490	5.7	45

186	Fragility and volatility of structural hubs in the human connectome. <i>Nature Neuroscience</i> , 2018 , 21, 1107-1116	15.6	68
185	Clinical predictors of conversion to bipolar disorder in a prospective longitudinal familial high-risk sample: focus on depressive features. <i>Psychological Medicine</i> , 2018 , 48, 1713-1721	6.9	11
184	Effective connectivity of the anterior hippocampus predicts recollection confidence during natural memory retrieval. <i>Nature Communications</i> , 2018 , 9, 4875	17.4	23
183	Neuroscience: Modeling the Brain on Acid. <i>Current Biology</i> , 2018 , 28, R1157-R1160	6.3	1
182	Protocol for a randomised controlled trial of interventions to promote adoption and maintenance of physical activity in adults with mental illness. <i>BMJ Open</i> , 2018 , 8, e023460	3	5
181	Transcranial magnetic stimulation in obsessive-compulsive disorder: A focus on network mechanisms and state dependence. <i>NeuroImage: Clinical</i> , 2018 , 19, 661-674	5.3	25
180	Differentiation of Alzheimer's disease based on local and global parameters in personalized Virtual Brain models. <i>NeuroImage: Clinical</i> , 2018 , 19, 240-251	5.3	36
179	Synaptic assays: using biophysical models to infer neuronal dysfunction from non-invasive EEG. <i>Brain</i> , 2018 , 141, 1583	11.2	2
178	The modulation of neural gain facilitates a transition between functional segregation and integration in the brain. <i>ELife</i> , 2018 , 7,	8.9	72
177	The Brain Dynamics Toolbox for Matlab. <i>Neurocomputing</i> , 2018 , 315, 82-88	5.4	16
176	Network structure of the human musculoskeletal system shapes neural interactions on multiple time scales. <i>Science Advances</i> , 2018 , 4, eaat0497	14.3	47
175	White matter alterations in the internal capsule and psychomotor impairment in melancholic depression. <i>PLoS ONE</i> , 2018 , 13, e0195672	3.7	15
174	Dynamic models of large-scale brain activity. <i>Nature Neuroscience</i> , 2017 , 20, 340-352	25.5	419
173	Quantification of free-living activity patterns using accelerometry in adults with mental illness. <i>Scientific Reports</i> , 2017 , 7, 43174	4.9	10
172	Clinical Applications of Stochastic Dynamic Models of the Brain, Part II: A Review. <i>Biological Psychiatry: Cognitive Neuroscience and Neuroimaging</i> , 2017 , 2, 225-234	3.4	11
171	Clinical Applications of Stochastic Dynamic Models of the Brain, Part I: A Primer. <i>Biological Psychiatry: Cognitive Neuroscience and Neuroimaging</i> , 2017 , 2, 216-224	3.4	19
170	Distinct Cerebellar Contributions to Cognitive-Perceptual Dynamics During Natural Viewing. <i>Cerebral Cortex</i> , 2017 , 27, 5652-5662	5.1	29
169	A Brain Model of Disturbed Self-Appraisal in Depression. <i>American Journal of Psychiatry</i> , 2017 , 174, 895-903	20.3	35

168	Criticality in the brain: A synthesis of neurobiology, models and cognition. <i>Progress in Neurobiology</i> , 2017 , 158, 132-152	10.9	193
167	The independent influences of age and education on functional brain networks and cognition in healthy older adults. <i>Human Brain Mapping</i> , 2017 , 38, 5094-5114	5.9	37
166	A Video-Based Facial Behaviour Analysis Approach to Melancholia 2017 ,		8
165	Predicting tDCS treatment outcomes of patients with major depressive disorder using automated EEG classification. <i>Journal of Affective Disorders</i> , 2017 , 208, 597-603	6.6	42
164	Functional Dysconnection of the Inferior Frontal Gyrus in Young People With Bipolar Disorder or at Genetic High Risk. <i>Biological Psychiatry</i> , 2017 , 81, 718-727	7.9	92
163	Consistency-based thresholding of the human connectome. <i>NeuroImage</i> , 2017 , 145, 118-129	7.9	92
162	Functional connectivity analysis of multiplex muscle network across frequencies. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2017 , 2017, 1567-1570	0.9	4
161	Richness in Functional Connectivity Depends on the Neuronal Integrity within the Posterior Cingulate Cortex. <i>Frontiers in Neuroscience</i> , 2017 , 11, 184	5.1	13
160	N-way Decomposition: Towards Linking Concurrent EEG and fMRI Analysis During Natural Stimulus. <i>Lecture Notes in Computer Science</i> , 2017 , 382-389	0.9	0
159	The integration of the internal and external milieu in the insula during dynamic emotional experiences. <i>NeuroImage</i> , 2016 , 124, 455-463	7.9	49
158	The contribution of geometry to the human connectome. <i>NeuroImage</i> , 2016 , 124, 379-393	7.9	128
157	Predicting brain stimulation treatment outcomes of depressed patients through the classification of EEG oscillations. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2016 , 2016, 5211-5218	0.9	7
156	Preprocessing strategy influences graph-based exploration of altered functional networks in major depression. <i>Human Brain Mapping</i> , 2016 , 37, 1422-42	5.9	19
155	The spatiotemporal hemodynamic response function for depth-dependent functional imaging of human cortex. <i>NeuroImage</i> , 2016 , 139, 240-248	7.9	30
154	Upregulation of cortico-cerebellar functional connectivity after motor learning. <i>NeuroImage</i> , 2016 , 128, 252-263	7.9	31
153	Charting the landscape of priority problems in psychiatry, part 2: pathogenesis and aetiology. <i>Lancet Psychiatry</i> , 2016 , 3, 84-90	23.3	37
152	Charting the landscape of priority problems in psychiatry, part 1: classification and diagnosis. <i>Lancet Psychiatry</i> , 2016 , 3, 77-83	23.3	107
151	Cortical Representations of Cognitive Control and Working Memory Are Dependent Yet Non-Interacting. <i>Cerebral Cortex</i> , 2016 , 26, 557-65	5.1	12

150	A hierarchy of timescales explains distinct effects of local inhibition of primary visual cortex and frontal eye fields. <i>ELife</i> , 2016 , 5,	8.9	65
149	Using Computational Neuroscience to Define Common Input to Spinal Motor Neurons. <i>Frontiers in Human Neuroscience</i> , 2016 , 10, 313	3.3	11
148	Are there subtypes of bipolar depression?. <i>Acta Psychiatrica Scandinavica</i> , 2016 , 134, 260-7	6.5	5
147	Connectome sensitivity or specificity: which is more important?. <i>NeuroImage</i> , 2016 , 142, 407-420	7.9	184
146	Distinct neurobiological signatures of brain connectivity in depression subtypes during natural viewing of emotionally salient films. <i>Psychological Medicine</i> , 2016 , 46, 1535-45	6.9	26
145	Interhemispheric white matter integrity in young people with bipolar disorder and at high genetic risk. <i>Psychological Medicine</i> , 2016 , 46, 2385-96	6.9	10
144	Whole-brain analytic measures of network communication reveal increased structure-function correlation in right temporal lobe epilepsy. <i>NeuroImage: Clinical</i> , 2016 , 11, 707-718	5.3	34
143	Disrupted effective connectivity of cortical systems supporting attention and interoception in melancholia. <i>JAMA Psychiatry</i> , 2015 , 72, 350-8	14.5	70
142	Heritability of the network architecture of intrinsic brain functional connectivity. <i>NeuroImage</i> , 2015 , 121, 243-52	7.9	44
141	Building capacity in academic psychiatry: The Queensland Mental Health Research Alliance. <i>Australian and New Zealand Journal of Psychiatry</i> , 2015 , 49, 482-3	2.6	
140	What clinical features precede the onset of bipolar disorder?. <i>Journal of Psychiatric Research</i> , 2015 , 62, 71-7	5.2	32
139	The organisation of the elderly connectome. <i>NeuroImage</i> , 2015 , 114, 414-26	7.9	47
138	Towards a statistical test for functional connectivity dynamics. <i>NeuroImage</i> , 2015 , 114, 466-70	7.9	177
137	The rhythms of steady posture: Motor commands as spatially organized oscillation patterns. <i>Neurocomputing</i> , 2015 , 170, 3-14	5.4	8
136	Network dysfunction of emotional and cognitive processes in those at genetic risk of bipolar disorder. <i>Brain</i> , 2015 , 138, 3427-39	11.2	34
135	Effective connectivity within the frontoparietal control network differentiates cognitive control and working memory. <i>NeuroImage</i> , 2015 , 106, 144-53	7.9	86
134	Clinical characteristics and temperament influences on 'happy' euphoric and 'snappy' irritable bipolar hypo/manic mood states. <i>Journal of Affective Disorders</i> , 2015 , 174, 144-9	6.6	5
133	The heavy tail of the human brain. <i>Current Opinion in Neurobiology</i> , 2015 , 31, 164-72	7.6	47

132	Out-of-sync: disrupted neural activity in emotional circuitry during film viewing in melancholic depression. <i>Scientific Reports</i> , 2015 , 5, 11605	4.9	28
131	Are rich club regions masters or slaves of brain network dynamics?. <i>BMC Neuroscience</i> , 2015 , 16,	3.2	78
130	Early Detection of Preterm Intraventricular Hemorrhage From Clinical Electroencephalography. <i>Critical Care Medicine</i> , 2015 , 43, 2219-27	1.4	23
129	Scene unseen: Disrupted neuronal adaptation in melancholia during emotional film viewing. <i>NeuroImage: Clinical</i> , 2015 , 9, 660-7	5.3	20
128	Dwelling quietly in the rich club: brain network determinants of slow cortical fluctuations. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2015 , 370,	5.8	109
127	Dissociable effects of local inhibitory and excitatory theta-burst stimulation on large-scale brain dynamics. <i>Journal of Neurophysiology</i> , 2015 , 113, 3375-85	3.2	46
126	Cortical burst dynamics predict clinical outcome early in extremely preterm infants. <i>Brain</i> , 2015 , 138, 2206-18	11.2	68
125	Cross-Cultural Detection of Depression from Nonverbal Behaviour 2015 , 1,		28
124	Posterior compensatory network in cognitively intact elders with hippocampal atrophy. <i>Hippocampus</i> , 2015 , 25, 581-93	3.5	6
123	The connectomics of brain disorders. <i>Nature Reviews Neuroscience</i> , 2015 , 16, 159-72	13.5	882
122	Subdiffusive dynamics of bump attractors: mechanisms and functional roles. <i>Neural Computation</i> , 2015 , 27, 255-80	2.9	4
121	Comparing the phenomenology of depressive episodes in bipolar I and II disorder and major depressive disorder within bipolar disorder pedigrees. <i>Journal of Clinical Psychiatry</i> , 2015 , 76, 32-8; quiz 39	4.6	28
120	Muscle networks: Connectivity analysis of EMG activity during postural control. <i>Scientific Reports</i> , 2015 , 5, 17830	4.9	58
119	Low-dimensional dynamics of resting-state cortical activity. <i>Brain Topography</i> , 2014 , 27, 338-52	4.3	40
118	Fusing concurrent EEG-fMRI with dynamic causal modeling: application to effective connectivity during face perception. <i>NeuroImage</i> , 2014 , 102 Pt 1, 60-70	7.9	34
117	Using the virtual brain to reveal the role of oscillations and plasticity in shaping brain's dynamical landscape. <i>Brain Connectivity</i> , 2014 , 4, 791-811	2.7	34
116	The frustrated brain: from dynamics on motifs to communities and networks. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2014 , 369,	5.8	53
115	The reorganization of corticomuscular coherence during a transition between sensorimotor states. <i>NeuroImage</i> , 2014 , 100, 692-702	7.9	54

114	Bias and discriminability during emotional signal detection in melancholic depression. <i>BMC Psychiatry</i> , 2014 , 14, 122	4.2	4
113	Critical Slowing and Perception 2014 , 191-226		2
112	Modulation of cortical activity by transcranial direct current stimulation in patients with affective disorder. <i>PLoS ONE</i> , 2014 , 9, e98503	3.7	28
111	Critical role for resource constraints in neural models. <i>Frontiers in Systems Neuroscience</i> , 2014 , 8, 154	3.5	15
110	Time-resolved resting-state brain networks. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 10341-6	11.5	494
109	Intrinsic coupling modes in source-reconstructed electroencephalography. <i>Brain Connectivity</i> , 2014 , 4, 812-25	2.7	23
108	Mechanisms of zero-lag synchronization in cortical motifs. <i>PLoS Computational Biology</i> , 2014 , 10, e1003548	5.48	91
107	Reciprocal interactions of the SMA and cingulate cortex sustain premovement activity for voluntary actions. <i>Journal of Neuroscience</i> , 2014 , 34, 16397-407	6.6	56
106	Novel features of early burst suppression predict outcome after birth asphyxia. <i>Annals of Clinical and Translational Neurology</i> , 2014 , 1, 209-14	5.3	25
105	Rejection sensitivity and pain in bipolar versus unipolar depression. <i>Bipolar Disorders</i> , 2014 , 16, 190-8	3.8	19
104	Scale-free bursting in human cortex following hypoxia at birth. <i>Journal of Neuroscience</i> , 2014 , 34, 6557-70.6	7.6	44
103	Deconvolution of neural dynamics from fMRI data using a spatiotemporal hemodynamic response function. <i>NeuroImage</i> , 2014 , 94, 203-215	7.9	31
102	Non-identical smoothing operators for estimating time-frequency interdependence in electrophysiological recordings. <i>Eurasip Journal on Advances in Signal Processing</i> , 2013 , 2013,	1.9	6
101	Zero-lag synchronization in cortical motifs. <i>BMC Neuroscience</i> , 2013 , 14,	3.2	2
100	Dynamic and stochastic models of neuroimaging data: a comment on Lohmann et al. <i>NeuroImage</i> , 2013 , 75, 270-274	7.9	13
99	Detecting depression: A comparison between spontaneous and read speech 2013 ,		45
98	Multimodal assistive technologies for depression diagnosis and monitoring. <i>Journal on Multimodal User Interfaces</i> , 2013 , 7, 217-228	1.7	86
97	Can body expressions contribute to automatic depression analysis? 2013 ,		50

96	Reduced inferior frontal gyrus activation during response inhibition to emotional stimuli in youth at high risk of bipolar disorder. <i>Biological Psychiatry</i> , 2013 , 74, 55-61	7.9	71
95	Anxiety, stress and perfectionism in bipolar disorder. <i>Journal of Affective Disorders</i> , 2013 , 151, 1016-24	6.6	17
94	Effects of mnemonic load on cortical activity during visual working memory: linking ongoing brain activity with evoked responses. <i>International Journal of Psychophysiology</i> , 2013 , 89, 409-18	2.9	16
93	Graph analysis of the human connectome: promise, progress, and pitfalls. <i>NeuroImage</i> , 2013 , 80, 426-44	7.9	493
92	A comparative study of different classifiers for detecting depression from spontaneous speech 2013 ,		38
91	A dendritic mechanism for decoding traveling waves: principles and applications to motor cortex. <i>PLoS Computational Biology</i> , 2013 , 9, e1003260	5	25
90	Eye movement analysis for depression detection 2013 ,		50
89	Head Pose and Movement Analysis as an Indicator of Depression 2013 ,		49
88	Fixational eye movements during viewing of dynamic natural scenes. <i>Frontiers in Psychology</i> , 2013 , 4, 797	3.4	19
87	The influence of prior experience and expected timing on vibrotactile discrimination. <i>Frontiers in Neuroscience</i> , 2013 , 7, 255	5.1	7
86	Neural mechanisms of intermuscular coherence: implications for the rectification of surface electromyography. <i>Journal of Neurophysiology</i> , 2012 , 107, 796-807	3.2	88
85	A canonical model of multistability and scale-invariance in biological systems. <i>PLoS Computational Biology</i> , 2012 , 8, e1002634	5	107
84	Perception and self-organized instability. <i>Frontiers in Computational Neuroscience</i> , 2012 , 6, 44	3.5	98
83	Hemodynamic traveling waves in human visual cortex. <i>PLoS Computational Biology</i> , 2012 , 8, e1002435	5	67
82	Critical fluctuations in cortical models near instability. <i>Frontiers in Physiology</i> , 2012 , 3, 331	4.6	32
81	Phase-locked cluster oscillations in periodically forced integrate-and-fire-or-burst neuronal populations. <i>Physical Review E</i> , 2012 , 86, 061903	2.4	5
80	Perceptions as hypotheses: saccades as experiments. <i>Frontiers in Psychology</i> , 2012 , 3, 151	3.4	215
79	A computational role for bistability and traveling waves in motor cortex. <i>Frontiers in Computational Neuroscience</i> , 2012 , 6, 67	3.5	19

78	Fragmentation: loss of global coherence or breakdown of modularity in functional brain architecture?. <i>Frontiers in Systems Neuroscience</i> , 2012 , 6, 20	3.5	24
77	Prior and present evidence: how prior experience interacts with present information in a perceptual decision making task. <i>PLoS ONE</i> , 2012 , 7, e37580	3.7	14
76	Changes in community structure of resting state functional connectivity in unipolar depression. <i>PLoS ONE</i> , 2012 , 7, e41282	3.7	135
75	Muscle co-contraction modulates damping and joint stability in a three-link biomechanical limb. <i>Frontiers in Neurorobotics</i> , 2011 , 5, 5	3.4	24
74	Cortical responses to a graded working memory challenge predict functional decline in mild cognitive impairment. <i>Biological Psychiatry</i> , 2011 , 70, 123-30	7.9	24
73	The impact of detecting bipolar disorder in previously diagnosed unipolar patients at a specialist depression clinic. <i>Journal of Nervous and Mental Disease</i> , 2011 , 199, 419-22	1.8	
72	Pain and rejection sensitivity in bipolar depression. <i>Bipolar Disorders</i> , 2011 , 13, 59-66	3.8	10
71	Multi-frequency phase locking in human somatosensory cortex. <i>Progress in Biophysics and Molecular Biology</i> , 2011 , 105, 58-66	4.7	39
70	Exploiting the potential of three dimensional spatial wavelet analysis to explore nesting of temporal oscillations and spatial variance in simultaneous EEG-fMRI data. <i>Progress in Biophysics and Molecular Biology</i> , 2011 , 105, 67-79	4.7	15
69	Evaluating the first 1000 patients referred to a specialist depression clinic: a case for tertiary referral facilities. <i>Journal of Affective Disorders</i> , 2011 , 131, 52-8	6.6	9
68	Maximized directed information transfer in critical neuronal networks. <i>BMC Neuroscience</i> , 2011 , 12, P18	3.2	2
67	Biophysical mechanisms of multistability in resting-state cortical rhythms. <i>Journal of Neuroscience</i> , 2011 , 31, 6353-61	6.6	182
66	Comparison of depressive episodes in bipolar disorder and in major depressive disorder within bipolar disorder pedigrees. <i>British Journal of Psychiatry</i> , 2011 , 199, 303-9	5.4	57
65	Neurobiologically realistic determinants of self-organized criticality in networks of spiking neurons. <i>PLoS Computational Biology</i> , 2011 , 7, e1002038	5	167
64	Impact of load-related neural processes on feature binding in visuospatial working memory. <i>PLoS ONE</i> , 2011 , 6, e23960	3.7	23
63	Functional alterations in brain activation and deactivation in mild cognitive impairment in response to a graded working memory challenge. <i>Dementia and Geriatric Cognitive Disorders</i> , 2010 , 30, 553-68	2.6	37
62	Modeling magnification and anisotropy in the primate foveal confluence. <i>PLoS Computational Biology</i> , 2010 , 6, e1000651	5	48
61	Generative models of cortical oscillations: neurobiological implications of the kuramoto model. <i>Frontiers in Human Neuroscience</i> , 2010 , 4, 190	3.3	264

60	Inching toward Bethlehem: mapping melancholia. <i>Journal of Affective Disorders</i> , 2010 , 123, 291-8	6.6	33
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3	Brain-behavior patterns define a dimensional biotype in medication-naïve adults with attention-deficit hyperactivity disorder	1
2	An investigation of depressed speech detection: features and normalization	55
1	Modeling spectral variability for the classification of depressed speech	10