

William Penny

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.

95
papers

11,939
citations

43
h-index

100
g-index

100
ext. papers

13,906
ext. citations

5.8
avg, IF

6.41
L-index

#	Paper	IF	Citations
95	An introduction to thermodynamic integration and application to dynamic causal models.. <i>Cognitive Neurodynamics</i> , 2022 , 16, 1-15	4.2	
94	Pupil dilation indexes automatic and dynamic inference about the precision of stimulus distributions. <i>Journal of Mathematical Psychology</i> , 2021 , 101, 102503	1.2	
93	Learning words in space and time: Contrasting models of the suspicious coincidence effect. <i>Cognition</i> , 2021 , 210, 104576	3.5	1
92	Dynamics of Cortical Degeneration Over a Decade in Huntington's Disease. <i>Biological Psychiatry</i> , 2021 , 89, 807-816	7.9	10
91	How do neural processes give rise to cognition? Simultaneously predicting brain and behavior with a dynamic model of visual working memory. <i>Psychological Review</i> , 2021 , 128, 362-395	6.3	3
90	Multitask learning over shared subspaces. <i>PLoS Computational Biology</i> , 2021 , 17, e1009092	5	1
89	Retrospective Inference as a Form of Bounded Rationality, and Its Beneficial Influence on Learning. <i>Frontiers in Artificial Intelligence</i> , 2020 , 3, 2	3	1
88	How Does iReadMore Therapy Change the Reading Network of Patients with Central Alexia?. <i>Journal of Neuroscience</i> , 2019 , 39, 5719-5727	6.6	2
87	Prefrontal Dynamics Associated with Efficient Detours and Shortcuts: A Combined Functional Magnetic Resonance Imaging and Magnetoencephalography Study. <i>Journal of Cognitive Neuroscience</i> , 2019 , 31, 1227-1247	3.1	13
86	Backtracking during navigation is correlated with enhanced anterior cingulate activity and suppression of alpha oscillations and the default-mode network. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2019 , 286, 20191016	4.4	11
85	Dynamic causal modelling on infant fNIRS data: A validation study on a simultaneously recorded fNIRS-fMRI dataset. <i>NeuroImage</i> , 2018 , 175, 413-424	7.9	16
84	Dynamic Causal Modeling of Preclinical Autosomal-Dominant Alzheimer's Disease. <i>Journal of Alzheimer's Disease</i> , 2018 , 65, 697-711	4.3	14
83	Bayesian population receptive field modelling. <i>NeuroImage</i> , 2018 , 180, 173-187	7.9	37
82	Auditory training changes temporal lobe connectivity in a Wernicke's aphasia a randomised trial. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2017 , 88, 586-594	5.5	25
81	Multivariate dynamical modelling of structural change during development. <i>NeuroImage</i> , 2017 , 147, 746-762	7.62	16
80	Working Memory Replay Prioritizes Weakly Attended Events. <i>ENeuro</i> , 2017 , 4,	3.9	8
79	Causal evidence that intrinsic beta-frequency is relevant for enhanced signal propagation in the motor system as shown through rhythmic TMS. <i>NeuroImage</i> , 2016 , 126, 120-30	7.9	51

78	Gradient-based MCMC samplers for dynamic causal modelling. <i>NeuroImage</i> , 2016 , 125, 1107-1118	7.9	29
77	mpdcm: A toolbox for massively parallel dynamic causal modeling. <i>Journal of Neuroscience Methods</i> , 2016 , 257, 7-16	3	25
76	The Role of Dopamine in Temporal Uncertainty. <i>Journal of Cognitive Neuroscience</i> , 2016 , 28, 96-110	3.1	26
75	Annealed Importance Sampling for Neural Mass Models. <i>PLoS Computational Biology</i> , 2016 , 12, e1004793	5	7
74	Behavioral modeling of human choices reveals dissociable effects of physical effort and temporal delay on reward devaluation. <i>PLoS Computational Biology</i> , 2015 , 11, e1004116	5	72
73	Gradient-free MCMC methods for dynamic causal modelling. <i>NeuroImage</i> , 2015 , 112, 375-381	7.9	28
72	Objective Bayesian fMRI analysis-a pilot study in different clinical environments. <i>Frontiers in Neuroscience</i> , 2015 , 9, 168	5.1	4
71	Dynamic causal modelling for functional near-infrared spectroscopy. <i>NeuroImage</i> , 2015 , 111, 338-49	7.9	35
70	Simultaneous Localisation and Planning 2014 ,		2
69	Transcranial electrical brain stimulation modulates neuronal tuning curves in perception of numerosity and duration. <i>NeuroImage</i> , 2014 , 102 Pt 2, 451-7	7.9	17
68	Modelling Effective Connectivity with Dynamic Causal Models 2014 , 47-58		
67	Efficient gradient computation for dynamical models. <i>NeuroImage</i> , 2014 , 98, 521-7	7.9	35
66	Does function fit structure? A ground truth for non-invasive neuroimaging. <i>NeuroImage</i> , 2014 , 94, 89-95	7.9	8
65	Dissecting psychiatric spectrum disorders by generative embedding. <i>NeuroImage: Clinical</i> , 2014 , 4, 98-111	3.3	123
64	Impact of feedback on three phases of performance monitoring. <i>Experimental Psychology</i> , 2014 , 61, 224-33	3.3	3
63	Estimating neural response functions from fMRI. <i>Frontiers in Neuroinformatics</i> , 2014 , 8, 48	3.9	6
62	Replay of very early encoding representations during recollection. <i>Journal of Neuroscience</i> , 2014 , 34, 242-8	6.6	66
61	A Dynamic Bayesian Model of Homeostatic Control. <i>Lecture Notes in Computer Science</i> , 2014 , 60-69	0.9	5

60	Decoding oscillatory representations and mechanisms in memory. <i>Neuropsychologia</i> , 2013 , 51, 772-80	3.2	26
59	Reading therapy strengthens top-down connectivity in patients with pure alexia. <i>Brain</i> , 2013 , 136, 2579-91.2	9.2	39
58	Forward and backward inference in spatial cognition. <i>PLoS Computational Biology</i> , 2013 , 9, e1003383	5	51
57	Cortical surface reconstruction based on MEG data and spherical harmonics. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2013 , 2013, 6449-52	0.9	4
56	Population level inference for multivariate MEG analysis. <i>PLoS ONE</i> , 2013 , 8, e71305	3.7	7
55	Self-Associations Influence Task-Performance through Bayesian Inference. <i>Frontiers in Human Neuroscience</i> , 2013 , 7, 490	3.3	3
54	Post-hoc selection of dynamic causal models. <i>Journal of Neuroscience Methods</i> , 2012 , 208, 66-78	3	45
53	Comparing dynamic causal models using AIC, BIC and free energy. <i>NeuroImage</i> , 2012 , 59, 319-30	7.9	220
52	The problem of low variance voxels in statistical parametric mapping; a new hat avoids a haircut. <i>NeuroImage</i> , 2012 , 59, 2131-41	7.9	25
51	Age-related changes in causal interactions between cortical motor regions during hand grip. <i>NeuroImage</i> , 2012 , 59, 3398-405	7.9	45
50	A general Bayesian treatment for MEG source reconstruction incorporating lead field uncertainty. <i>NeuroImage</i> , 2012 , 60, 1194-204	7.9	27
49	Changes in auditory feedback connections determine the severity of speech processing deficits after stroke. <i>Journal of Neuroscience</i> , 2012 , 32, 4260-70	6.6	31
48	Bayesian Models of Brain and Behaviour 2012 , 2012, 1-19		13
47	Generalised filtering and stochastic DCM for fMRI. <i>NeuroImage</i> , 2011 , 58, 442-57	7.9	140
46	Post hoc Bayesian model selection. <i>NeuroImage</i> , 2011 , 56, 2089-99	7.9	154
45	Time scales of representation in the human brain: weighing past information to predict future events. <i>Frontiers in Human Neuroscience</i> , 2011 , 5, 37	3.3	31
44	EEG and MEG data analysis in SPM8. <i>Computational Intelligence and Neuroscience</i> , 2011 , 2011, 852961	3	398
43	Bayesian comparison of neurovascular coupling models using EEG-fMRI. <i>PLoS Computational Biology</i> , 2011 , 7, e1002070	5	22

42	Comparing families of dynamic causal models. <i>PLoS Computational Biology</i> , 2010 , 6, e1000709	5	503
41	Bayesian model selection maps for group studies. <i>NeuroImage</i> , 2010 , 49, 217-24	7.9	59
40	Estimating the transfer function from neuronal activity to BOLD using simultaneous EEG-fMRI. <i>NeuroImage</i> , 2010 , 49, 1496-509	7.9	82
39	Ten simple rules for dynamic causal modeling. <i>NeuroImage</i> , 2010 , 49, 3099-109	7.9	571
38	Brain oscillations and memory. <i>Current Opinion in Neurobiology</i> , 2010 , 20, 143-9	7.6	222
37	Theta-coupled periodic replay in working memory. <i>Current Biology</i> , 2010 , 20, 606-12	6.3	145
36	Dynamic Causal Models for phase coupling. <i>Journal of Neuroscience Methods</i> , 2009 , 183, 19-30	3	61
35	Bayesian model selection for group studies. <i>NeuroImage</i> , 2009 , 46, 1004-17	7.9	972
34	Oscillatory activity in the pedunculopontine area of patients with Parkinson's disease. <i>Experimental Neurology</i> , 2008 , 211, 59-66	5.7	84
33	Bayesian decoding of brain images. <i>NeuroImage</i> , 2008 , 39, 181-205	7.9	155
32	Diffusion-based spatial priors for functional magnetic resonance images. <i>NeuroImage</i> , 2008 , 41, 408-23	7.9	34
31	Graph-partitioned spatial priors for functional magnetic resonance images. <i>NeuroImage</i> , 2008 , 43, 694-707	7.9	13
30	Testing for nested oscillation. <i>Journal of Neuroscience Methods</i> , 2008 , 174, 50-61	3	162
29	Integrated Bayesian models of learning and decision making for saccadic eye movements. <i>Neural Networks</i> , 2008 , 21, 1247-60	9.1	27
28	Bayesian comparison of spatially regularised general linear models. <i>Human Brain Mapping</i> , 2007 , 28, 275-93	7.9	47
27	Dynamic causal models of neural system dynamics: current state and future extensions. <i>Journal of Biosciences</i> , 2007 , 32, 129-44	2.3	169
26	Interhemispheric integration of visual processing during task-driven lateralization. <i>Journal of Neuroscience</i> , 2007 , 27, 3512-22	6.6	125
25	Robust Bayesian General Linear Models. <i>NeuroImage</i> , 2007 , 36, 661-71	7.9	20

24	Diffusion-based spatial priors for imaging. <i>NeuroImage</i> , 2007 , 38, 677-95	7.9	60
23	Variational free energy and the Laplace approximation. <i>NeuroImage</i> , 2007 , 34, 220-34	7.9	557
22	Two approaches to repetition suppression. <i>Human Brain Mapping</i> , 2006 , 27, 411-6	5.9	10
21	Two distinct neural mechanisms for category-selective responses. <i>Cerebral Cortex</i> , 2006 , 16, 437-45	5.1	147
20	Identification of degenerate neuronal systems based on intersubject variability. <i>NeuroImage</i> , 2006 , 30, 885-90	7.9	29
19	Information theory, novelty and hippocampal responses: unpredicted or unpredictable?. <i>Neural Networks</i> , 2005 , 18, 225-30	9.1	180
18	Investigating the functional role of callosal connections with dynamic causal models. <i>Annals of the New York Academy of Sciences</i> , 2005 , 1064, 16-36	6.5	43
17	Modeling brain responses. <i>International Review of Neurobiology</i> , 2005 , 66, 89-124	4.4	18
16	Biophysical models of fMRI responses. <i>Current Opinion in Neurobiology</i> , 2004 , 14, 629-35	7.6	80
15	Cognitive tasks for driving a brain-computer interfacing system: a pilot study. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2004 , 12, 48-54	4.8	83
14	New approaches for exploring anatomical and functional connectivity in the human brain. <i>Biological Psychiatry</i> , 2004 , 56, 613-9	7.9	160
13	Comparing dynamic causal models. <i>NeuroImage</i> , 2004 , 22, 1157-72	7.9	709
12	Variational Bayesian inference for fMRI time series. <i>NeuroImage</i> , 2003 , 19, 727-41	7.9	158
11	Posterior probability maps and SPMs. <i>NeuroImage</i> , 2003 , 19, 1240-9	7.9	175
10	Dynamic causal modelling. <i>NeuroImage</i> , 2003 , 19, 1273-302	7.9	3187
9	Mixtures of general linear models for functional neuroimaging. <i>IEEE Transactions on Medical Imaging</i> , 2003 , 22, 504-14	11.7	61
8	. <i>IEEE Transactions on Signal Processing</i> , 2002 , 50, 2245-2257	4.8	104
7	Classical and Bayesian inference in neuroimaging: theory. <i>NeuroImage</i> , 2002 , 16, 465-83	7.9	456

6	Effective connectivity and intersubject variability: using a multisubject network to test differences and commonalities. <i>NeuroImage</i> , 2002 , 17, 1459-69	7.9	82
5	Event-related brain dynamics. <i>Trends in Neurosciences</i> , 2002 , 25, 387-9	13.3	70
4	Neural networks: friends or foes?. <i>Sensor Review</i> , 1997 , 17, 64-70	1.4	4
3	Neural network modeling of the level of observation decision in an acute psychiatric ward. <i>Journal of Biomedical Informatics</i> , 1997 , 30, 1-17		11
2	Neural networks in clinical medicine. <i>Medical Decision Making</i> , 1996 , 16, 386-98	2.5	121
1	An introduction to thermodynamic integration and application to dynamic causal models		1