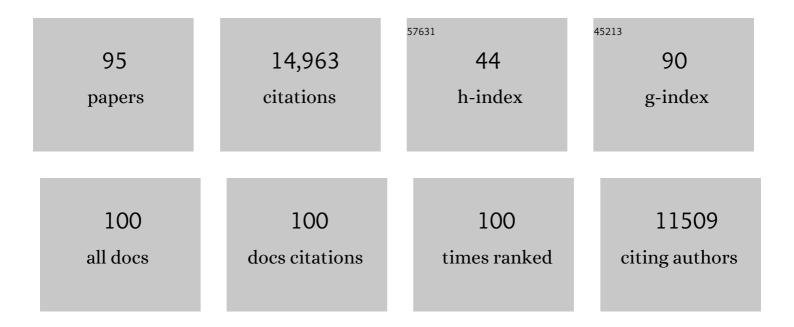
William Penny

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/1947209/publications.pdf Version: 2024-02-01



| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Dynamic causal modelling. NeuroImage, 2003, 19, 1273-1302. | 2.1 | 3,997 |
| 2 | Bayesian model selection for group studies. NeuroImage, 2009, 46, 1004-1017. | 2.1 | 1,253 |
| 3 | Comparing dynamic causal models. NeuroImage, 2004, 22, 1157-1172. | 2.1 | 809 |
| 4 | Variational free energy and the Laplace approximation. NeuroImage, 2007, 34, 220-234. | 2.1 | 737 |
| 5 | Ten simple rules for dynamic causal modeling. NeuroImage, 2010, 49, 3099-3109. | 2.1 | 712 |
| 6 | Comparing Families of Dynamic Causal Models. PLoS Computational Biology, 2010, 6, e1000709. | 1.5 | 606 |
| 7 | Classical and Bayesian Inference in Neuroimaging: Theory. NeuroImage, 2002, 16, 465-483. | 2.1 | 537 |
| 8 | EEG and MEG Data Analysis in SPM8. Computational Intelligence and Neuroscience, 2011, 2011, 1-32. | 1.1 | 500 |
| 9 | Comparing Dynamic Causal Models using AIC, BIC and Free Energy. NeuroImage, 2012, 59, 319-330. | 2.1 | 306 |
| 10 | Brain oscillations and memory. Current Opinion in Neurobiology, 2010, 20, 143-149. | 2.0 | 289 |
| 11 | Post hoc Bayesian model selection. NeuroImage, 2011, 56, 2089-2099. | 2.1 | 222 |
| 12 | Information theory, novelty and hippocampal responses: unpredicted or unpredictable?. Neural Networks, 2005, 18, 225-230. | 3.3 | 221 |
| 13 | Testing for nested oscillation. Journal of Neuroscience Methods, 2008, 174, 50-61. | 1.3 | 216 |
| 14 | Posterior probability maps and SPMs. NeuroImage, 2003, 19, 1240-1249. | 2.1 | 206 |
| 15 | New approaches for exploring anatomical and functional connectivity in the human brain. Biological Psychiatry, 2004, 56, 613-619. | 0.7 | 206 |
| 16 | Dynamic causal models of neural system dynamics: current state and future extensions. Journal of Biosciences, 2007, 32, 129-144. | 0.5 | 201 |
| 17 | Variational Bayesian inference for fMRI time series. NeuroImage, 2003, 19, 727-741. | 2.1 | 192 |
| 18 | Theta-Coupled Periodic Replay in Working Memory. Current Biology, 2010, 20, 606-612. | 1.8 | 183 |

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| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Generalised filtering and stochastic DCM for fMRI. NeuroImage, 2011, 58, 442-457. | 2.1 | 177 |
| 20 | Two Distinct Neural Mechanisms for Category-selective Responses. Cerebral Cortex, 2006, 16, 437-445. | 1.6 | 174 |
| 21 | Bayesian decoding of brain images. NeuroImage, 2008, 39, 181-205. | 2.1 | 171 |
| 22 | Dissecting psychiatric spectrum disorders by generative embedding. NeuroImage: Clinical, 2014, 4, 98-111. | 1.4 | 150 |
| 23 | Neural Networks in Clinical Medicine. Medical Decision Making, 1996, 16, 386-398. | 1.2 | 145 |
| 24 | Interhemispheric Integration of Visual Processing during Task-Driven Lateralization. Journal of Neuroscience, 2007, 27, 3512-3522. | 1.7 | 143 |
| 25 | Variational Bayes for generalized autoregressive models. IEEE Transactions on Signal Processing, 2002, 50, 2245-2257. | 3.2 | 124 |
| 26 | Behavioral Modeling of Human Choices Reveals Dissociable Effects of Physical Effort and Temporal Delay on Reward Devaluation. PLoS Computational Biology, 2015, 11, e1004116. | 1.5 | 104 |
| 27 | Biophysical models of fMRI responses. Current Opinion in Neurobiology, 2004, 14, 629-635. | 2.0 | 99 |
| 28 | Cognitive Tasks for Driving a Brain-Computer Interfacing System: A Pilot Study. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2004, 12, 48-54. | 2.7 | 96 |
| 29 | Estimating the transfer function from neuronal activity to BOLD using simultaneous EEG-fMRI. NeuroImage, 2010, 49, 1496-1509. | 2.1 | 95 |
| 30 | Oscillatory activity in the pedunculopontine area of patients with Parkinson's disease. Experimental Neurology, 2008, 211, 59-66. | 2.0 | 93 |
| 31 | Replay of Very Early Encoding Representations during Recollection. Journal of Neuroscience, 2014, 34, 242-248. | 1.7 | 93 |
| 32 | Effective Connectivity and Intersubject Variability: Using a Multisubject Network to Test Differences and Commonalities. NeuroImage, 2002, 17, 1459-1469. | 2.1 | 92 |
| 33 | Event-related brain dynamics. Trends in Neurosciences, 2002, 25, 387-389. | 4.2 | 86 |
| 34 | Bayesian model selection maps for group studies. NeuroImage, 2010, 49, 217-224. | 2.1 | 78 |
| 35 | Causal evidence that intrinsic beta-frequency is relevant for enhanced signal propagation in the motor system as shown through rhythmic TMS. NeuroImage, 2016, 126, 120-130. | 2.1 | 75 |
| 36 | Dynamic Causal Models for phase coupling. Journal of Neuroscience Methods, 2009, 183, 19-30. | 1.3 | 71 |

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|----|--|-----|-----------|
| 37 | Mixtures of general linear models for functional neuroimaging. IEEE Transactions on Medical Imaging, 2003, 22, 504-514. | 5.4 | 69 |
| 38 | Diffusion-based spatial priors for imaging. NeuroImage, 2007, 38, 677-695. | 2.1 | 65 |
| 39 | Post-hoc selection of dynamic causal models. Journal of Neuroscience Methods, 2012, 208, 66-78. | 1.3 | 65 |
| 40 | Bayesian comparison of spatially regularised general linear models. Human Brain Mapping, 2007, 28, 275-293. | 1.9 | 62 |
| 41 | Forward and Backward Inference in Spatial Cognition. PLoS Computational Biology, 2013, 9, e1003383. | 1.5 | 61 |
| 42 | Bayesian population receptive field modelling. Neurolmage, 2018, 180, 173-187. | 2.1 | 56 |
| 43 | Age-related changes in causal interactions between cortical motor regions during hand grip. NeuroImage, 2012, 59, 3398-3405. | 2.1 | 54 |
| 44 | Investigating the Functional Role of Callosal Connections with Dynamic Causal Models. Annals of the New York Academy of Sciences, 2005, 1064, 16-36. | 1.8 | 50 |
| 45 | Efficient gradient computation for dynamical models. NeuroImage, 2014, 98, 521-527. | 2.1 | 48 |
| 46 | Auditory training changes temporal lobe connectivity in †Wernicke's aphasia': a randomised trial. Journal of Neurology, Neurosurgery and Psychiatry, 2017, 88, 586-594. | 0.9 | 47 |
| 47 | The Role of Dopamine in Temporal Uncertainty. Journal of Cognitive Neuroscience, 2016, 28, 96-110. | 1.1 | 44 |
| 48 | Gradient-based MCMC samplers for dynamic causal modelling. NeuroImage, 2016, 125, 1107-1118. | 2.1 | 43 |
| 49 | Diffusion-based spatial priors for functional magnetic resonance images. Neurolmage, 2008, 41, 408-423. | 2.1 | 41 |
| 50 | Reading therapy strengthens top–down connectivity in patients with pure alexia. Brain, 2013, 136, 2579-2591. | 3.7 | 41 |
| 51 | Dynamic causal modelling for functional near-infrared spectroscopy. NeuroImage, 2015, 111, 338-349. | 2.1 | 41 |
| 52 | The problem of low variance voxels in statistical parametric mapping; a new hat avoids a â€~haircut'. NeuroImage, 2012, 59, 2131-2141. | 2.1 | 38 |
| 53 | Gradient-free MCMC methods for dynamic causal modelling. NeuroImage, 2015, 112, 375-381. | 2.1 | 38 |
| 54 | Time scales of representation in the human brain: weighing past information to predict future events. Frontiers in Human Neuroscience, 2011, 5, 37. | 1.0 | 36 |

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|----|--|-----|-----------|
| 55 | Changes in Auditory Feedback Connections Determine the Severity of Speech Processing Deficits after Stroke. Journal of Neuroscience, 2012, 32, 4260-4270. | 1.7 | 35 |
| 56 | mpdcm: A toolbox for massively parallel dynamic causal modeling. Journal of Neuroscience Methods, 2016, 257, 7-16. | 1.3 | 35 |
| 57 | Identification of degenerate neuronal systems based on intersubject variability. NeuroImage, 2006, 30, 885-890. | 2.1 | 32 |
| 58 | Decoding oscillatory representations and mechanisms in memory. Neuropsychologia, 2013, 51, 772-780. | 0.7 | 32 |
| 59 | Dynamics of Cortical Degeneration Over a Decade in Huntington's Disease. Biological Psychiatry, 2021, 89, 807-816. | 0.7 | 32 |
| 60 | Integrated Bayesian models of learning and decision making for saccadic eye movements. Neural Networks, 2008, 21, 1247-1260. | 3.3 | 31 |
| 61 | A general Bayesian treatment for MEG source reconstruction incorporating lead field uncertainty. NeuroImage, 2012, 60, 1194-1204. | 2.1 | 31 |
| 62 | Dynamic causal modelling on infant fNIRS data: A validation study on a simultaneously recorded fNIRS-fMRI dataset. NeuroImage, 2018, 175, 413-424. | 2.1 | 30 |
| 63 | Prefrontal Dynamics Associated with Efficient Detours and Shortcuts: A Combined Functional Magnetic Resonance Imaging and Magnetoencenphalography Study. Journal of Cognitive Neuroscience, 2019, 31, 1227-1247. | 1.1 | 28 |
| 64 | Bayesian Comparison of Neurovascular Coupling Models Using EEG-fMRI. PLoS Computational Biology, 2011, 7, e1002070. | 1.5 | 26 |
| 65 | Robust Bayesian general linear models. NeuroImage, 2007, 36, 661-671. | 2.1 | 24 |
| 66 | Multivariate dynamical modelling of structural change during development. NeuroImage, 2017, 147, 746-762. | 2.1 | 22 |
| 67 | Modeling Brain Responses. International Review of Neurobiology, 2005, 66, 89-124. | 0.9 | 21 |
| 68 | Transcranial electrical brain stimulation modulates neuronal tuning curves in perception of numerosity and duration. NeuroImage, 2014, 102, 451-457. | 2.1 | 21 |
| 69 | Bayesian Models of Brain and Behaviour. , 2012, 2012, 1-19. | | 19 |
| 70 | Graph-partitioned spatial priors for functional magnetic resonance images. NeuroImage, 2008, 43, 694-707. | 2.1 | 18 |
| 71 | Backtracking during navigation is correlated with enhanced anterior cingulate activity and suppression of alpha oscillations and the â€~default-mode' network. Proceedings of the Royal Society B: Biological Sciences, 2019, 286, 20191016. | 1.2 | 17 |
| 72 | Dynamic Causal Modeling of Preclinical Autosomal-Dominant Alzheimer's Disease. Journal of Alzheimer's Disease, 2018, 65, 697-711. | 1.2 | 15 |

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|----|--|-----|-----------|
| 73 | Annealed Importance Sampling for Neural Mass Models. PLoS Computational Biology, 2016, 12, e1004797. | 1.5 | 13 |
| 74 | Two approaches to repetition suppression. Human Brain Mapping, 2006, 27, 411-416. | 1.9 | 12 |
| 75 | Neural Network Modeling of the Level of Observation Decision in an Acute Psychiatric Ward. Journal of Biomedical Informatics, 1997, 30, 1-17. | 0.7 | 11 |
| 76 | Working Memory Replay Prioritizes Weakly Attended Events. ENeuro, 2017, 4, ENEURO.0171-17.2017. | 0.9 | 11 |
| 77 | Does function fit structure? A ground truth for non-invasive neuroimaging. NeuroImage, 2014, 94, 89-95. | 2.1 | 8 |
| 78 | Objective Bayesian fMRI analysisââ,¬â€a pilot study in different clinical environments. Frontiers in Neuroscience, 2015, 9, 168. | 1.4 | 8 |
| 79 | Cortical surface reconstruction based on MEG data and spherical harmonics. , 2013, 2013, 6449-52. | | 7 |
| 80 | Population Level Inference for Multivariate MEG Analysis. PLoS ONE, 2013, 8, e71305. | 1.1 | 7 |
| 81 | Estimating neural response functions from fMRI. Frontiers in Neuroinformatics, 2014, 8, 48. | 1.3 | 7 |
| 82 | A Dynamic Bayesian Model of Homeostatic Control. Lecture Notes in Computer Science, 2014, , 60-69. | 1.0 | 7 |
| 83 | How do neural processes give rise to cognition? Simultaneously predicting brain and behavior with a dynamic model of visual working memory Psychological Review, 2021, 128, 362-395. | 2.7 | 6 |
| 84 | Simultaneous Localisation and Planning. , 2014, , . | | 5 |
| 85 | Impact of Feedback on Three Phases of Performance Monitoring. Experimental Psychology, 2014, 61, 224-233. | 0.3 | 5 |
| 86 | Neural networks: friends or foes?. Sensor Review, 1997, 17, 64-70. | 1.0 | 4 |
| 87 | How Does iReadMore Therapy Change the Reading Network of Patients with Central Alexia?. Journal of Neuroscience, 2019, 39, 5719-5727. | 1.7 | 4 |
| 88 | An introduction to thermodynamic integration and application to dynamic causal models. Cognitive Neurodynamics, 2022, 16, 1-15. | 2.3 | 4 |
| 89 | Self-Associations Influence Task-Performance through Bayesian Inference. Frontiers in Human Neuroscience, 2013, 7, 490. | 1.0 | 3 |
| 90 | Retrospective Inference as a Form of Bounded Rationality, and Its Beneficial Influence on Learning. Frontiers in Artificial Intelligence, 2020, 3, 2. | 2.0 | 3 |

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| 91 | Learning words in space and time: Contrasting models of the suspicious coincidence effect. Cognition, 2021, 210, 104576. | 1.1 | 3 |
| 92 | Multitask learning over shared subspaces. PLoS Computational Biology, 2021, 17, e1009092. | 1.5 | 2 |
| 93 | Pupil dilation indexes automatic and dynamic inference about the precision of stimulus distributions. Journal of Mathematical Psychology, 2021, 101, 102503. | 1.0 | 1 |
| 94 | Modelling Effective Connectivity with Dynamic Causal Models. , 2014, , 47-58. | | 0 |
| 95 | E01â€Modelling the trajectory of cortical atrophy in huntingtonâ \in ™s disease. , 2018, , . | | Ο |
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