Jean Daunizeau

List of Publications by Year
in descending order

110 papers	13,908 citations	34105 52 h-index	46799 89 g-index
122 all docs	122 docs citations	122 times ranked	9628 citing authors

#	Article	IF	Citations
1	Bayesian model selection for group studies. NeuroImage, 2009, 46, 1004-1017.	4.2	1,253
2	Ten simple rules for dynamic causal modeling. NeuroImage, 2010, 49, 3099-3109.	4.2	712
3	Action and behavior: a free-energy formulation. Biological Cybernetics, 2010, 102, 227-260.	1.3	686
4	Comparing Families of Dynamic Causal Models. PLoS Computational Biology, 2010, 6, e1000709.	3.2	606
5	A Hierarchy of Time-Scales and the Brain. PLoS Computational Biology, 2008, 4, e1000209.	3.2	557
6	Multiple sparse priors for the M/EEG inverse problem. NeuroImage, 2008, 39, 1104-1120.	4.2	548
7	EEG and MEG Data Analysis in SPM8. Computational Intelligence and Neuroscience, 2011, 2011, 1-32.	1.7	500
8	Bayesian model selection for group studies â€" Revisited. NeuroImage, 2014, 84, 971-985.	4.2	490
9	A Bayesian foundation for individual learning under uncertainty. Frontiers in Human Neuroscience, 2011, 5, 39.	2.0	460
10	Nonlinear dynamic causal models for fMRI. NeuroImage, 2008, 42, 649-662.	4.2	374
11	Effective connectivity: Influence, causality and biophysical modeling. NeuroImage, 2011, 58, 339-361.	4.2	361
12	Striatal Prediction Error Modulates Cortical Coupling. Journal of Neuroscience, 2010, 30, 3210-3219.	3.6	294
13	Uncertainty in perception and the Hierarchical Gaussian Filter. Frontiers in Human Neuroscience, 2014, 8, 825.	2.0	286
14	Subliminal Instrumental Conditioning Demonstrated in the Human Brain. Neuron, 2008, 59, 561-567.	8.1	281
15	Reinforcement Learning or Active Inference?. PLoS ONE, 2009, 4, e6421.	2.5	281
16	VBA: A Probabilistic Treatment of Nonlinear Models for Neurobiological and Behavioural Data. PLoS Computational Biology, 2014, 10, e1003441.	3.2	278
17	DEM: A variational treatment of dynamic systems. NeuroImage, 2008, 41, 849-885.	4.2	266
18	Dynamic causal modelling: A critical review of the biophysical and statistical foundations. NeuroImage, 2011, 58, 312-322.	4.2	266

#	ARTICLE	IF	CITATIONS
19	Neural Mechanisms Underlying Motivation of Mental Versus Physical Effort. PLoS Biology, 2012, 10, e1001266.	5.6	255
20	Network discovery with DCM. NeuroImage, 2011, 56, 1202-1221.	4.2	248
21	Automatic integration of confidence in the brain valuation signal. Nature Neuroscience, 2015, 18, 1159-1167.	14.8	223
22	Evaluation of EEG localization methods using realistic simulations of interictal spikes. NeuroImage, 2006, 29, 734-753.	4.2	211
23	Symmetrical event-related EEG/fMRI information fusion in a variational Bayesian framework. NeuroImage, 2007, 36, 69-87.	4.2	189
24	A neural mass model of spectral responses in electrophysiology. NeuroImage, 2007, 37, 706-720.	4.2	185
25	Generalised filtering and stochastic DCM for fMRI. NeuroImage, 2011, 58, 442-457.	4.2	177
26	Recent advances in recording electrophysiological data simultaneously with magnetic resonance imaging. NeuroImage, 2008, 40, 515-528.	4.2	175
27	Variational Bayesian identification and prediction of stochastic nonlinear dynamic causal models. Physica D: Nonlinear Phenomena, 2009, 238, 2089-2118.	2.8	165
28	Spatial Attention, Precision, and Bayesian Inference: A Study of Saccadic Response Speed. Cerebral Cortex, 2014, 24, 1436-1450.	2.9	151
29	Computational neuroimaging strategies for single patient predictions. NeuroImage, 2017, 145, 180-199.	4.2	144
30	Modelling Trial-by-Trial Changes in the Mismatch Negativity. PLoS Computational Biology, 2013, 9, e1002911.	3.2	137
31	Inferring on the Intentions of Others by Hierarchical Bayesian Learning. PLoS Computational Biology, 2014, 10, e1003810.	3.2	134
32	Population dynamics: Variance and the sigmoid activation function. NeuroImage, 2008, 42, 147-157.	4.2	130
33	Observing the Observer (I): Meta-Bayesian Models of Learning and Decision-Making. PLoS ONE, 2010, 5, e15554.	2.5	130
34	Why not try harder? Computational approach to motivation deficits in neuro-psychiatric diseases. Brain, 2018, 141, 629-650.	7.6	127
35	Generalised Filtering. Mathematical Problems in Engineering, 2010, 2010, 1-34.	1.1	113
36	Computational Dissection of Dopamine Motor and Motivational Functions in Humans. Journal of Neuroscience, 2016, 36, 6623-6633.	3.6	109

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37	Recognizing Sequences of Sequences. PLoS Computational Biology, 2009, 5, e1000464.	3.2	105
38	EEG-fMRI INTEGRATION: A CRITICAL REVIEW OF BIOPHYSICAL MODELING AND DATA ANALYSIS APPROACHES. Journal of Integrative Neuroscience, 2010, 09, 453-476.	1.7	104
39	Stochastic dynamic causal modelling of fMRI data: Should we care about neural noise?. NeuroImage, 2012, 62, 464-481.	4.2	98
40	A Neurocomputational Model of the Mismatch Negativity. PLoS Computational Biology, 2013, 9, e1003288.	3.2	96
41	Dynamic causal modelling of distributed electromagnetic responses. NeuroImage, 2009, 47, 590-601.	4.2	95
42	Variational Bayesian inversion of the equivalent current dipole model in EEG/MEG. NeuroImage, 2008, 39, 728-741.	4.2	94
43	Accurate Anisotropic Fast Marching for Diffusion-Based Geodesic Tractography. International Journal of Biomedical Imaging, 2008, 2008, 1-12.	3.9	91
44	Concordance between distributed EEG source localization and simultaneous EEG-fMRI studies of epileptic spikes. NeuroImage, 2008, 39, 755-774.	4.2	89
45	Perception and hierarchical dynamics. Frontiers in Neuroinformatics, 2009, 3, 20.	2.5	85
46	Neurocomputational account of how the human brain decides when to have a break. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 2641-2646.	7.1	80
47	Dynamic causal modelling of anticipatory skin conductance responses. Biological Psychology, 2010, 85, 163-170.	2.2	79
48	Population dynamics under the Laplace assumption. NeuroImage, 2009, 44, 701-714.	4.2	76
49	The combination of EEG Source Imaging and EEG‐correlated functional MRI to map epileptic networks. Epilepsia, 2010, 51, 491-505.	5.1	75
50	Bayesian Spatio-Temporal Approach for EEG Source Reconstruction: Conciliating ECD and Distributed Models. IEEE Transactions on Biomedical Engineering, 2006, 53, 503-516.	4.2	63
51	Assessing inter-individual differences with task-related functional neuroimaging. Nature Human Behaviour, 2019, 3, 897-905.	12.0	62
52	Theory of Mind: Did Evolution Fool Us?. PLoS ONE, 2014, 9, e87619.	2.5	59
53	The Social Bayesian Brain: Does Mentalizing Make a Difference When We Learn?. PLoS Computational Biology, 2014, 10, e1003992.	3.2	58
54	Concepts of Connectivity and Human Epileptic Activity. Frontiers in Systems Neuroscience, 2011, 5, 12.	2.5	56

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55	Assessing the relevance of fMRI-based prior in the EEG inverse problem: a bayesian model comparison approach. IEEE Transactions on Signal Processing, 2005, 53, 3461-3472.	5.3	50
56	Reading wild minds: A computational assay of Theory of Mind sophistication across seven primate species. PLoS Computational Biology, 2017, 13, e1005833.	3.2	45
57	Dynamic causal modeling of spontaneous fluctuations in skin conductance. Psychophysiology, 2011, 48, 252-257.	2.4	44
58	Observing the Observer (II): Deciding When to Decide. PLoS ONE, 2010, 5, e15555.	2.5	43
59	Diffusion-based spatial priors for functional magnetic resonance images. NeuroImage, 2008, 41, 408-423.	4.2	41
60	Dynamic causal modelling of COVID-19. Wellcome Open Research, 2020, 5, 89.	1.8	41
61	Optimizing Experimental Design for Comparing Models of Brain Function. PLoS Computational Biology, 2011, 7, e1002280.	3.2	40
62	Second waves, social distancing, and the spread of COVID-19 across America. Wellcome Open Research, 2020, 5, 103.	1.8	40
63	A mesostate-space model for EEG and MEG. NeuroImage, 2007, 38, 67-81.	4.2	34
64	Your Goal Is Mine: Unraveling Mimetic Desires in the Human Brain. Journal of Neuroscience, 2012, 32, 7146-7157.	3.6	33
65	Conditional correlation as a measure of mediated interactivity in fMRI and MEG/EEG. IEEE Transactions on Signal Processing, 2005, 53, 3503-3516.	5.3	32
66	Dynamic causal modelling of COVID-19. Wellcome Open Research, 2020, 5, 89.	1.8	32
67	Integrated Bayesian models of learning and decision making for saccadic eye movements. Neural Networks, 2008, 21, 1247-1260.	5.9	31
68	Variational Bayesian mixed-effects inference for classification studies. NeuroImage, 2013, 76, 345-361.	4.2	30
69	Choosing what we like vs liking what we choose: How choice-induced preference change might actually be instrumental to decision-making. PLoS ONE, 2020, 15, e0231081.	2.5	29
70	Dynamic causal modelling of brain–behaviour relationships. NeuroImage, 2015, 117, 202-221.	4.2	28
71	Trading mental effort for confidence in the metacognitive control of value-based decision-making. ELife, 2021, 10, .	6.0	28
72	Does the way we read others' mind change over the lifespan? Insights from a massive web poll of cognitive skills from childhood to late adulthood. Cortex, 2017, 86, 205-215.	2.4	27

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73	Model selection and gobbledygook: Response to Lohmann et al.. NeuroImage, 2013, 75, 275-278.	4.2	25
74	An electrophysiological validation of stochastic DCM for fMRI. Frontiers in Computational Neuroscience, 2012, 6, 103.	2.1	20
75	Dissecting functional contributions of the social brain to strategic behavior. Neuron, 2021, 109, 3323-3337.e5.	8.1	20
76	Choose, rate or squeeze: Comparison of economic value functions elicited by different behavioral tasks. PLoS Computational Biology, 2017, 13, e1005848.	3.2	18
77	Learning and Generalization under Ambiguity: An fMRI Study. PLoS Computational Biology, 2012, 8, e1002346.	3.2	17
78	Social behavioural adaptation in Autism. PLoS Computational Biology, 2020, 16, e1007700.	3.2	15
79	Learning about and from others' prudence, impatience or laziness: The computational bases of attitude alignment. PLoS Computational Biology, 2017, 13, e1005422.	3.2	15
80	EEG–fMRI Information Fusion: Biophysics and Data Analysis. , 2009, , 511-526.		14
81	Toward a New Application of Real-Time Electrophysiology: Online Optimization of Cognitive Neurosciences Hypothesis Testing. Brain Sciences, 2014, 4, 49-72.	2.3	14
82	Sour grapes and sweet victories: How actions shape preferences. PLoS Computational Biology, 2019, 15, e1006499.	3.2	14
83	Bayesian multi-modal model comparison: A case study on the generators of the spike and the wave in generalized spike–wave complexes. NeuroImage, 2010, 49, 656-667.	4.2	13
84	Is non-recognition of choreic movements in Huntington disease always pathological?. Neuropsychologia, 2013, 51, 748-759.	1.6	13
85	Testing and tracking in the UK: A dynamic causal modelling study. Wellcome Open Research, 0, 5, 144.	1.8	12
86	Bridging across functional models: The OFC as a value-making neural network.. Behavioral Neuroscience, 2021, 135, 277-290.	1.2	10
87	Localization Estimation Algorithm (LEA): A Supervised Prior-Based Approach for Solving the EEG/MEG Inverse Problem. Lecture Notes in Computer Science, 2003, 18, 536-547.	1.3	9
88	Estimating required 'lockdown' cycles before immunity to SARS-CoV-2: model-based analyses of susceptible population sizes, 'S0', in seven European countries, including the UK and Ireland. Wellcome Open Research, 0, 5, 85.	1.8	9
89	Effective immunity and second waves: a dynamic causal modelling study. Wellcome Open Research, 2020, 5, 204.	1.8	7
90	Effective immunity and second waves: a dynamic causal modelling study. Wellcome Open Research, 2020, 5, 204.	1.8	6

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91	An Overcomplete Approach to Fitting Drift-Diffusion Decision Models to Trial-By-Trial Data. Frontiers in Artificial Intelligence, 2021, 4, 531316.	3.4	5
92	A plea for â€œvariational neuroethologyâ€. Physics of Life Reviews, 2018, 24, 56-58.	2.8	3
93	The Bayesian Brain: An Evolutionary Approach to Cognition. , 2022, , 202-221.		0
94	Bayesian inversion for induced responses. , 2007, , 377-390.		0
95	Social behavioural adaptation in Autism. , 2020, 16, e1007700.		0
96	Social behavioural adaptation in Autism. , 2020, 16, e1007700.		0
97	Social behavioural adaptation in Autism. , 2020, 16, e1007700.		0
98	Social behavioural adaptation in Autism. , 2020, 16, e1007700.		0
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