Jrmie Mattout

List of Publications by Citations

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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.

73
papers

4,752
citations

81
ext. papers

5,586
ext. citations

30
h-index
g-index

5,36
ext. citations

4.7
avg, IF

L-index

#	Paper	IF	Citations
73	Variational free energy and the Laplace approximation. <i>NeuroImage</i> , 2007 , 34, 220-34	7.9	557
72	Dynamic causal modeling of evoked responses in EEG and MEG. <i>NeuroImage</i> , 2006 , 30, 1255-72	7.9	456
71	Multiple sparse priors for the M/EEG inverse problem. <i>NeuroImage</i> , 2008 , 39, 1104-20	7.9	451
70	Action understanding and active inference. <i>Biological Cybernetics</i> , 2011 , 104, 137-60	2.8	427
69	EEG and MEG data analysis in SPM8. Computational Intelligence and Neuroscience, 2011, 2011, 852961	3	398
68	Automatic analysis of single-channel sleep EEG: validation in healthy individuals. <i>Sleep</i> , 2007 , 30, 1587-9	951.1	177
67	Hemodynamic correlates of EEG: a heuristic. <i>NeuroImage</i> , 2005 , 28, 280-6	7.9	170
66	Impaired pitch perception and memory in congenital amusia: the deficit starts in the auditory cortex. <i>Brain</i> , 2013 , 136, 1639-61	11.2	163
65	An empirical Bayesian solution to the source reconstruction problem in EEG. <i>NeuroImage</i> , 2005 , 24, 997	'-]1 0511	158
64	MEG source localization under multiple constraints: an extended Bayesian framework. <i>NeuroImage</i> , 2006 , 30, 753-67	7.9	155
63	Symmetrical event-related EEG/fMRI information fusion in a variational Bayesian framework. <i>Neurolmage</i> , 2007 , 36, 69-87	7.9	143
62	Canonical source reconstruction for MEG. Computational Intelligence and Neuroscience, 2007, 2007, 676	13	105
61	Hearing faces: how the infant brain matches the face it sees with the speech it hears. <i>Journal of Cognitive Neuroscience</i> , 2009 , 21, 905-21	3.1	102
60	Disentangling motor execution from motor imagery with the phantom limb. <i>Brain</i> , 2012 , 135, 582-95	11.2	88
59	A parametric empirical Bayesian framework for fMRI-constrained MEG/EEG source reconstruction. <i>Human Brain Mapping</i> , 2010 , 31, 1512-31	5.9	83
58	Selecting forward models for MEG source-reconstruction using model-evidence. <i>NeuroImage</i> , 2009 , 46, 168-76	7.9	82
57	Bayesian estimation of evoked and induced responses. <i>Human Brain Mapping</i> , 2006 , 27, 722-35	5.9	76

56	A robust sensor-selection method for P300 brain-computer interfaces. <i>Journal of Neural Engineering</i> , 2011 , 8, 016001	5	74	
55	Bayesian spatio-temporal approach for EEG source reconstruction: conciliating ECD and distributed models. <i>IEEE Transactions on Biomedical Engineering</i> , 2006 , 53, 503-16	5	57	
54	Inferring hand movement kinematics from MEG, EEG and intracranial EEG: From brain-machine interfaces to motor rehabilitation. <i>Irbm</i> , 2011 , 32, 8-18	4.8	51	
53	Population-level inferences for distributed MEG source localization under multiple constraints: application to face-evoked fields. <i>NeuroImage</i> , 2007 , 38, 422-38	7.9	50	
52	Decision-making in a changing world: a study in autism spectrum disorders. <i>Journal of Autism and Developmental Disorders</i> , 2015 , 45, 1603-13	4.6	45	
51	Objective and Subjective Evaluation of Online Error Correction during P300-Based Spelling. <i>Advances in Human-Computer Interaction</i> , 2012 , 2012, 1-13	2.8	45	
50	Assessing the relevance of fMRI-based prior in the EEG inverse problem: a bayesian model comparison approach. <i>IEEE Transactions on Signal Processing</i> , 2005 , 53, 3461-3472	4.8	44	
49	The impact of MEG source reconstruction method on source-space connectivity estimation: A comparison between minimum-norm solution and beamforming. <i>NeuroImage</i> , 2017 , 156, 29-42	7.9	41	
48	Altered retrieval of melodic information in congenital amusia: insights from dynamic causal modeling of MEG data. <i>Frontiers in Human Neuroscience</i> , 2015 , 9, 20	3.3	40	
47	First results on the GEM operated at low gas pressures. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment,</i> 1998 , 419, 423-42	28 ^{1.2}	38	
46	Multivariate source prelocalization (MSP): use of functionally informed basis functions for better conditioning the MEG inverse problem. <i>NeuroImage</i> , 2005 , 26, 356-73	7.9	38	
45	Tactile hypersensitivity and GABA concentration in the sensorimotor cortex of adults with autism. <i>Autism Research</i> , 2019 , 12, 562-575	5.1	35	
44	Implicit learning of predictable sound sequences modulates human brain responses at different levels of the auditory hierarchy. <i>Frontiers in Human Neuroscience</i> , 2015 , 9, 505	3.3	31	
43	Brain-computer interfaces: a neuroscience paradigm of social interaction? A matter of perspective. <i>Frontiers in Human Neuroscience</i> , 2012 , 6, 114	3.3	24	
42	Data-driven parceling and entropic inference in MEG. NeuroImage, 2006, 30, 160-71	7.9	23	
41	Improving BCI performance through co-adaptation: applications to the P300-speller. <i>Annals of Physical and Rehabilitation Medicine</i> , 2015 , 58, 23-28	3.8	21	
40	On assessing neurofeedback effects: should double-blind replace neurophysiological mechanisms?. <i>Brain</i> , 2017 , 140, e63	11.2	20	
39	BCI Could Make Old Two-Player Games Even More Fun: A Proof of Concept with Connect Four Advances in Human-Computer Interaction, 2012, 2012, 1-8	2.8	20	

38	Impact of spatial filters during sensor selection in a visual P300 brain-computer interface. <i>Brain Topography</i> , 2012 , 25, 55-63	4.3	19
37	The epistemic and pragmatic value of non-action: a predictive coding perspective on meditation. <i>Current Opinion in Psychology</i> , 2019 , 28, 166-171	6.2	19
36	BCI in patients with disorders of consciousness: clinical perspectives. <i>Annals of Physical and Rehabilitation Medicine</i> , 2015 , 58, 29-34	3.8	18
35	EEG neurofeedback research: A fertile ground for psychiatry?. <i>LpEncephale</i> , 2019 , 45, 245-255	2.9	17
34	Adaptive training session for a P300 speller brain-computer interface. <i>Journal of Physiology (Paris)</i> , 2011 , 105, 123-9		16
33	Models of functional neuroimaging data. <i>Current Medical Imaging</i> , 2006 , 2, 15-34	1.2	13
32	Toward a new application of real-time electrophysiology: online optimization of cognitive neurosciences hypothesis testing. <i>Brain Sciences</i> , 2014 , 4, 49-72	3.4	12
31	MEG Connectivity and Power Detections with Minimum Norm Estimates Require Different Regularization Parameters. <i>Computational Intelligence and Neuroscience</i> , 2016 , 2016, 3979547	3	12
30	EEG sensor selection by sparse spatial filtering in P300 speller brain-computer interface. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2010 , 2010, 5379-82	0.9	11
29	Mind the Traps! Design Guidelines for Rigorous BCI Experiments 2018 , 613-634		11
28	Exploring scoring methods for research studies: Accuracy and variability of visual and automated sleep scoring. <i>Journal of Sleep Research</i> , 2020 , 29, e12994	5.8	10
27	Does function fit structure? A ground truth for non-invasive neuroimaging. <i>NeuroImage</i> , 2014 , 94, 89-95	7.9	8
26	Estimates of cortical column orientation improve MEG source inversion. <i>NeuroImage</i> , 2020 , 216, 116862	7.9	7
25	A multi-thermogram-based Bayesian model for the determination of the thermal diffusivity of a material. <i>Metrologia</i> , 2016 , 53, S1-S9	2.1	7
24	A Generic Framework for Adaptive EEG-Based BCI Training and Operation 2018, 595-612		7
23	Modelling lockdown-induced 2ndCOVID waves in France		7
22	Active inference as a unifying, generic and adaptive framework for a P300-based BCI. <i>Journal of Neural Engineering</i> , 2020 , 17, 016054	5	7
21	Automatic analysis of single-channel sleep EEG in a large spectrum of sleep disorders. <i>Journal of Clinical Sleep Medicine</i> , 2021 , 17, 393-402	3.1	7

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20	Adults with Autism Tend to Underestimate the Hidden Environmental Structure: Evidence from a Visual Associative Learning Task. <i>Journal of Autism and Developmental Disorders</i> , 2018 , 48, 3061-3074	4.6	6
19	Neuromagnetic correlates of adaptive plasticity across the hand-face border in human primary somatosensory cortex. <i>Journal of Neurophysiology</i> , 2016 , 115, 2095-104	3.2	6
18	Active SAmpling Protocol (ASAP) to Optimize Individual Neurocognitive Hypothesis Testing: A BCI-Inspired Dynamic Experimental Design. <i>Frontiers in Human Neuroscience</i> , 2016 , 10, 347	3.3	6
17	Empirical Bayes evaluation of fused EEG-MEG source reconstruction: Application to auditory mismatch evoked responses. <i>NeuroImage</i> , 2021 , 226, 117468	7.9	6
16	Towards a computational phenomenology of mental action: modelling meta-awareness and attentional control with deep parametric active inference. <i>Neuroscience of Consciousness</i> , 2021 , 2021, niab018	3.3	5
15	On the reliability of model-based predictions in the context of the current COVID epidemic event: impact of outbreak peak phase and data paucity		4
14	Localization Estimation Algorithm (LEA): a supervised prior-based approach for solving the EEG/MEG inverse problem. <i>Lecture Notes in Computer Science</i> , 2003 , 18, 536-47	0.9	3
13	Neurocomputational underpinnings of expected surprise		3
12	Brain Lomputer Interfaces in Disorders of Consciousness 2016 , 1-28		2
11	Adaptive Methods in Machine Learning 2016 , 207-232		2
10	Estimates of cortical column orientation improve MEG source inversion		2
9	Retrospective study of the acute period of locked-in syndrome: Consciousness recovery and communication restoration. <i>Annals of Physical and Rehabilitation Medicine</i> , 2016 , 59, e151-e152	3.8	2
8	Les trois cultures de la psychiatrie computationnelle. <i>Annales Medico-Psychologiques</i> , 2021 , 179, 63-71	0.2	2
7	Towards identifying optimal biased feedback for various user states and traits in motor imagery BCI. <i>IEEE Transactions on Biomedical Engineering</i> , 2021 , PP,	5	2
6	Neurocomputational underpinnings of expected surprise. Journal of Neuroscience, 2021,	6.6	1
5	Multivariate group effect analysis in functional Magnetic Resonance Imaging. <i>Lecture Notes in Computer Science</i> , 2003 , 18, 548-59	0.9	1
4	EEG artifact correction strategies for online trial-by-trial analysis. Journal of Neural Engineering,	5	1
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