

# JÃ©rÃ©mie Mattout

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8454419/publications.pdf>

Version: 2024-02-01

72  
papers

6,172  
citations

147566

31  
h-index

106150

65  
g-index

81  
all docs

81  
docs citations

81  
times ranked

5623  
citing authors

#	ARTICLE	IF	CITATIONS
1	Towards Identifying Optimal Biased Feedback for Various User States and Traits in Motor Imagery BCI. IEEE Transactions on Biomedical Engineering, 2022, 69, 1101-1110.	2.5	13
2	Neurocomputational Underpinnings of Expected Surprise. Journal of Neuroscience, 2022, 42, 474-486.	1.7	15
3	Empirical Bayes evaluation of fused EEG-MEG source reconstruction: Application to auditory mismatch evoked responses. NeuroImage, 2021, 226, 117468.	2.1	15
4	Les trois cultures de la psychiatrie computationnelle. Annales Medico-Psychologiques, 2021, 179, 63-71.	0.2	5
5	Automatic analysis of single-channel sleep EEG in a large spectrum of sleep disorders. Journal of Clinical Sleep Medicine, 2021, 17, 393-402.	1.4	26
6	Towards a computational phenomenology of mental action: modelling meta-awareness and attentional control with deep parametric active inference. Neuroscience of Consciousness, 2021, 2021, niab018.	1.4	35
7	Publisher's note to: towards a computational phenomenology of mental action: modelling meta-awareness and attentional control with deep parametric active inference. Neuroscience of Consciousness, 2021, 2021, .	1.4	2
8	Transfer Learning for the Riemannian Tangent Space: Applications to Brain-Computer Interfaces. , 2021, , .		7
9	An Impending Paradigm Shift in Motor Imagery Based Brain-Computer Interfaces. Frontiers in Neuroscience, 2021, 15, 824759.	1.4	5
10	Dynamics of Oddball Sound Processing: Trial-by-Trial Modeling of ECoG Signals. Frontiers in Human Neuroscience, 2021, 15, 794654.	1.0	2
11	EEG artifact correction strategies for online trial-by-trial analysis. Journal of Neural Engineering, 2020, 17, 016035.	1.8	6
12	Active inference as a unifying, generic and adaptive framework for a P300-based BCI. Journal of Neural Engineering, 2020, 17, 016054.	1.8	10
13	Estimates of cortical column orientation improve MEG source inversion. NeuroImage, 2020, 216, 116862.	2.1	11
14	Exploring scoring methods for research studies: Accuracy and variability of visual and automated sleep scoring. Journal of Sleep Research, 2020, 29, e12994.	1.7	31
15	EEG neurofeedback research: A fertile ground for psychiatry?. L'Encephale, 2019, 45, 245-255.	0.3	33
16	Tactile hypersensitivity and GABA concentration in the sensorimotor cortex of adults with autism. Autism Research, 2019, 12, 562-575.	2.1	65
17	The epistemic and pragmatic value of non-action: a predictive coding perspective on meditation. Current Opinion in Psychology, 2019, 28, 166-171.	2.5	47
18	Adults with Autism Tend to Undermine the Hidden Environmental Structure: Evidence from a Visual Associative Learning Task. Journal of Autism and Developmental Disorders, 2018, 48, 3061-3074.	1.7	12

#	ARTICLE	IF	CITATIONS
19	A Generic Framework for Adaptive EEG-Based BCI Training and Operation. , 2018, , 595-612.		10
20	Mind the Traps! Design Guidelines for Rigorous BCI Experiments. , 2018, , 613-634.		16
21	The impact of MEG source reconstruction method on source-space connectivity estimation: A comparison between minimum-norm solution and beamforming. NeuroImage, 2017, 156, 29-42.	2.1	79
22	On assessing neurofeedback effects: should double-blind replace neurophysiological mechanisms?. Brain, 2017, 140, e63-e63.	3.7	34
23	MEG Connectivity and Power Detections with Minimum Norm Estimates Require Different Regularization Parameters. Computational Intelligence and Neuroscience, 2016, 2016, 1-11.	1.1	24
24	Active SAMpling Protocol (ASAP) to Optimize Individual Neurocognitive Hypothesis Testing: A BCI-Inspired Dynamic Experimental Design. Frontiers in Human Neuroscience, 2016, 10, 347.	1.0	10
25	Retrospective study of the acute period of locked-in syndrome: Consciousness recovery and communication restoration. Annals of Physical and Rehabilitation Medicine, 2016, 59, e151-e152.	1.1	2
26	Neuromagnetic correlates of adaptive plasticity across the hand-face border in human primary somatosensory cortex. Journal of Neurophysiology, 2016, 115, 2095-2104.	0.9	15
27	A multi-thermogram-based Bayesian model for the determination of the thermal diffusivity of a material. Metrologia, 2016, 53, S1-S9.	0.6	9
28	Altered retrieval of melodic information in congenital amusia: insights from dynamic causal modeling of MEG data. Frontiers in Human Neuroscience, 2015, 9, 20.	1.0	55
29	Implicit learning of predictable sound sequences modulates human brain responses at different levels of the auditory hierarchy. Frontiers in Human Neuroscience, 2015, 9, 505.	1.0	44
30	Improving BCI performance through co-adaptation: Applications to the P300-speller. Annals of Physical and Rehabilitation Medicine, 2015, 58, 23-28.	1.1	25
31	BCI in patients with disorders of consciousness: Clinical perspectives. Annals of Physical and Rehabilitation Medicine, 2015, 58, 29-34.	1.1	34
32	Decision-Making in a Changing World: A Study in Autism Spectrum Disorders. Journal of Autism and Developmental Disorders, 2015, 45, 1603-1613.	1.7	60
33	Toward a New Application of Real-Time Electrophysiology: Online Optimization of Cognitive Neurosciences Hypothesis Testing. Brain Sciences, 2014, 4, 49-72.	1.1	14
34	Does function fit structure? A ground truth for non-invasive neuroimaging. NeuroImage, 2014, 94, 89-95.	2.1	8
35	Impaired pitch perception and memory in congenital amusia: the deficit starts in the auditory cortex. Brain, 2013, 136, 1639-1661.	3.7	213
36	Disentangling motor execution from motor imagery with the phantom limb. Brain, 2012, 135, 582-595.	3.7	116

#	ARTICLE	IF	CITATIONS
37	Objective and Subjective Evaluation of Online Error Correction during P300-Based Spelling. <i>Advances in Human-Computer Interaction</i> , 2012, 2012, 1-13.	1.8	81
38	BCI Could Make Old Two-Player Games Even More Fun: A Proof of Concept with "Connect Four". <i>Advances in Human-Computer Interaction</i> , 2012, 2012, 1-8.	1.8	26
39	Brain-Computer Interfaces: A Neuroscience Paradigm of Social Interaction? A Matter of Perspective. <i>Frontiers in Human Neuroscience</i> , 2012, 6, 114.	1.0	24
40	The hands have it: Hand specific vision of touch enhances touch perception and somatosensory evoked potential. <i>Seeing and Perceiving</i> , 2012, 25, 43.	0.4	1
41	Impact of Spatial Filters During Sensor Selection in a Visual P300 Brain-Computer Interface. <i>Brain Topography</i> , 2012, 25, 55-63.	0.8	24
42	Adaptive training session for a P300 speller brain-computer interface. <i>Journal of Physiology (Paris)</i> , 2011, 105, 123-9.	2.1	20
43	Action understanding and active inference. <i>Biological Cybernetics</i> , 2011, 104, 137-160.	0.6	550
44	Inferring hand movement kinematics from MEG, EEG and intracranial EEG: From brain-machine interfaces to motor rehabilitation. <i>Irbm</i> , 2011, 32, 8-18.	3.7	64
45	EEG and MEG Data Analysis in SPM8. <i>Computational Intelligence and Neuroscience</i> , 2011, 2011, 1-32.	1.1	500
46	A robust sensor-selection method for P300 brain-computer interfaces. <i>Journal of Neural Engineering</i> , 2011, 8, 016001.	1.8	87
47	A Parametric Empirical Bayesian framework for fMRI-constrained MEG/EEG source reconstruction. <i>Human Brain Mapping</i> , 2010, 31, 1512-1531.	1.9	101
48	EEG sensor selection by sparse spatial filtering in P300 speller brain-computer interface. , 2010, 2010, 5379-82.		14
49	SÃ©lection de capteurs pour interfaces cerveau-ordinateur de type P300. <i>Traitement Du Signal</i> , 2010, 27, 515-540.	0.8	0
50	Selecting forward models for MEG source-reconstruction using model-evidence. <i>NeuroImage</i> , 2009, 46, 168-176.	2.1	101
51	Multiple sparse priors for the M/EEG inverse problem. <i>NeuroImage</i> , 2008, 39, 1104-1120.	2.1	548
52	Hearing Faces: How the Infant Brain Matches the Face It Sees with the Speech It Hears. <i>Journal of Cognitive Neuroscience</i> , 2008, 21, 905-921.	1.1	125
53	Canonical Source Reconstruction for MEG. <i>Computational Intelligence and Neuroscience</i> , 2007, 2007, 1-10.	1.1	121
54	Automatic Analysis of Single-Channel Sleep EEG: Validation in Healthy Individuals. <i>Sleep</i> , 2007, 30, 1587-1595.	0.6	228

#	ARTICLE	IF	CITATIONS
55	REAL-TIME AUTOMATIC MEASUREMENT OF RECORDED SLEEP TIME. Chest, 2007, 132, 649B.	0.4	0
56	Symmetrical event-related EEG/fMRI information fusion in a variational Bayesian framework. NeuroImage, 2007, 36, 69-87.	2.1	189
57	Population-level inferences for distributed MEG source localization under multiple constraints: Application to face-evoked fields. NeuroImage, 2007, 38, 422-438.	2.1	54
58	Variational free energy and the Laplace approximation. NeuroImage, 2007, 34, 220-234.	2.1	737
59	Data-driven parceling and entropic inference in MEG. NeuroImage, 2006, 30, 160-171.	2.1	29
60	MEG source localization under multiple constraints: An extended Bayesian framework. NeuroImage, 2006, 30, 753-767.	2.1	174
61	Dynamic causal modeling of evoked responses in EEG and MEG. NeuroImage, 2006, 30, 1255-1272.	2.1	563
62	Bayesian Spatio-Temporal Approach for EEG Source Reconstruction: Conciliating ECD and Distributed Models. IEEE Transactions on Biomedical Engineering, 2006, 53, 503-516.	2.5	63
63	Bayesian estimation of evoked and induced responses. Human Brain Mapping, 2006, 27, 722-735.	1.9	86
64	Models of Functional Neuroimaging Data. Current Medical Imaging, 2006, 2, 15-34.	0.4	15
65	An empirical Bayesian solution to the source reconstruction problem in EEG. NeuroImage, 2005, 24, 997-1011.	2.1	171
66	Multivariate source prelocalization (MSP): Use of functionally informed basis functions for better conditioning the MEG inverse problem. NeuroImage, 2005, 26, 356-373.	2.1	49
67	Hemodynamic correlates of EEG: A heuristic. NeuroImage, 2005, 28, 280-286.	2.1	188
68	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.	3.2	50
69	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.	1.0	9
70	Multivariate Group Effect Analysis in Functional Magnetic Resonance Imaging. Lecture Notes in Computer Science, 2003, 18, 548-559.	1.0	1
71	Maximum entropy on the mean approach for solving the MEG inverse problem. NeuroImage, 2001, 13, 62.	2.1	0
72	First results on the GEM operated at low gas pressures. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1998, 419, 423-428.	0.7	41