

JÃ©rÃ©mie Mattout

List of Publications by Year in descending order

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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 | Variational free energy and the Laplace approximation. <i>NeuroImage</i> , 2007, 34, 220-234. | 2.1 | 737 |
| 2 | Dynamic causal modeling of evoked responses in EEG and MEG. <i>NeuroImage</i> , 2006, 30, 1255-1272. | 2.1 | 563 |
| 3 | Action understanding and active inference. <i>Biological Cybernetics</i> , 2011, 104, 137-160. | 0.6 | 550 |
| 4 | Multiple sparse priors for the M/EEG inverse problem. <i>NeuroImage</i> , 2008, 39, 1104-1120. | 2.1 | 548 |
| 5 | EEG and MEG Data Analysis in SPM8. <i>Computational Intelligence and Neuroscience</i> , 2011, 2011, 1-32. | 1.1 | 500 |
| 6 | Automatic Analysis of Single-Channel Sleep EEG: Validation in Healthy Individuals. <i>Sleep</i> , 2007, 30, 1587-1595. | 0.6 | 228 |
| 7 | Impaired pitch perception and memory in congenital amusia: the deficit starts in the auditory cortex. <i>Brain</i> , 2013, 136, 1639-1661. | 3.7 | 213 |
| 8 | Symmetrical event-related EEG/fMRI information fusion in a variational Bayesian framework. <i>NeuroImage</i> , 2007, 36, 69-87. | 2.1 | 189 |
| 9 | Hemodynamic correlates of EEG: A heuristic. <i>NeuroImage</i> , 2005, 28, 280-286. | 2.1 | 188 |
| 10 | MEG source localization under multiple constraints: An extended Bayesian framework. <i>NeuroImage</i> , 2006, 30, 753-767. | 2.1 | 174 |
| 11 | An empirical Bayesian solution to the source reconstruction problem in EEG. <i>NeuroImage</i> , 2005, 24, 997-1011. | 2.1 | 171 |
| 12 | 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 |
| 13 | Canonical Source Reconstruction for MEG. <i>Computational Intelligence and Neuroscience</i> , 2007, 2007, 1-10. | 1.1 | 121 |
| 14 | Disentangling motor execution from motor imagery with the phantom limb. <i>Brain</i> , 2012, 135, 582-595. | 3.7 | 116 |
| 15 | Selecting forward models for MEG source-reconstruction using model-evidence. <i>NeuroImage</i> , 2009, 46, 168-176. | 2.1 | 101 |
| 16 | A Parametric Empirical Bayesian framework for fMRI-constrained MEG/EEG source reconstruction. <i>Human Brain Mapping</i> , 2010, 31, 1512-1531. | 1.9 | 101 |
| 17 | A robust sensor-selection method for P300 brain-computer interfaces. <i>Journal of Neural Engineering</i> , 2011, 8, 016001. | 1.8 | 87 |
| 18 | Bayesian estimation of evoked and induced responses. <i>Human Brain Mapping</i> , 2006, 27, 722-735. | 1.9 | 86 |

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|----|--|-----|-----------|
| 19 | 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 |
| 20 | 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. | 2.1 | 79 |
| 21 | Tactile hypersensitivity and GABA concentration in the sensorimotor cortex of adults with autism. <i>Autism Research</i> , 2019, 12, 562-575. | 2.1 | 65 |
| 22 | 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 |
| 23 | Bayesian Spatio-Temporal Approach for EEG Source Reconstruction: Conciliating ECD and Distributed Models. <i>IEEE Transactions on Biomedical Engineering</i> , 2006, 53, 503-516. | 2.5 | 63 |
| 24 | Decision-Making in a Changing World: A Study in Autism Spectrum Disorders. <i>Journal of Autism and Developmental Disorders</i> , 2015, 45, 1603-1613. | 1.7 | 60 |
| 25 | 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. | 1.0 | 55 |
| 26 | Population-level inferences for distributed MEG source localization under multiple constraints: Application to face-evoked fields. <i>NeuroImage</i> , 2007, 38, 422-438. | 2.1 | 54 |
| 27 | 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. | 3.2 | 50 |
| 28 | Multivariate source prelocalization (MSP): Use of functionally informed basis functions for better conditioning the MEG inverse problem. <i>NeuroImage</i> , 2005, 26, 356-373. | 2.1 | 49 |
| 29 | The epistemic and pragmatic value of non-action: a predictive coding perspective on meditation. <i>Current Opinion in Psychology</i> , 2019, 28, 166-171. | 2.5 | 47 |
| 30 | 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. | 1.0 | 44 |
| 31 | 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, 423-428. | 0.7 | 41 |
| 32 | 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. | 1.4 | 35 |
| 33 | BCI in patients with disorders of consciousness: Clinical perspectives. <i>Annals of Physical and Rehabilitation Medicine</i> , 2015, 58, 29-34. | 1.1 | 34 |
| 34 | On assessing neurofeedback effects: should double-blind replace neurophysiological mechanisms?. <i>Brain</i> , 2017, 140, e63-e63. | 3.7 | 34 |
| 35 | EEG neurofeedback research: A fertile ground for psychiatry?. <i>L'Encephale</i> , 2019, 45, 245-255. | 0.3 | 33 |
| 36 | Exploring scoring methods for research studies: Accuracy and variability of visual and automated sleep scoring. <i>Journal of Sleep Research</i> , 2020, 29, e12994. | 1.7 | 31 |

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|----|--|-----|-----------|
| 37 | Data-driven parcelling and entropic inference in MEG. <i>NeuroImage</i> , 2006, 30, 160-171. | 2.1 | 29 |
| 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 | 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. | 1.4 | 26 |
| 40 | Improving BCI performance through co-adaptation: Applications to the P300-speller. <i>Annals of Physical and Rehabilitation Medicine</i> , 2015, 58, 23-28. | 1.1 | 25 |
| 41 | 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 |
| 42 | 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 |
| 43 | MEG Connectivity and Power Detections with Minimum Norm Estimates Require Different Regularization Parameters. <i>Computational Intelligence and Neuroscience</i> , 2016, 2016, 1-11. | 1.1 | 24 |
| 44 | Adaptive training session for a P300 speller brain-computer interface. <i>Journal of Physiology (Paris)</i> , 2011, 105, 123-9. | 2.1 | 20 |
| 45 | Mind the Traps! Design Guidelines for Rigorous BCI Experiments. , 2018, , 613-634. | | 16 |
| 46 | Models of Functional Neuroimaging Data. <i>Current Medical Imaging</i> , 2006, 2, 15-34. | 0.4 | 15 |
| 47 | Neuromagnetic correlates of adaptive plasticity across the hand-face border in human primary somatosensory cortex. <i>Journal of Neurophysiology</i> , 2016, 115, 2095-2104. | 0.9 | 15 |
| 48 | Empirical Bayes evaluation of fused EEG-MEG source reconstruction: Application to auditory mismatch evoked responses. <i>NeuroImage</i> , 2021, 226, 117468. | 2.1 | 15 |
| 49 | Neurocomputational Underpinnings of Expected Surprise. <i>Journal of Neuroscience</i> , 2022, 42, 474-486. | 1.7 | 15 |
| 50 | EEG sensor selection by sparse spatial filtering in P300 speller brain-computer interface. , 2010, 2010, 5379-82. | | 14 |
| 51 | Toward a New Application of Real-Time Electrophysiology: Online Optimization of Cognitive Neurosciences Hypothesis Testing. <i>Brain Sciences</i> , 2014, 4, 49-72. | 1.1 | 14 |
| 52 | Towards Identifying Optimal Biased Feedback for Various User States and Traits in Motor Imagery BCI. <i>IEEE Transactions on Biomedical Engineering</i> , 2022, 69, 1101-1110. | 2.5 | 13 |
| 53 | Adults with Autism Tend to Undermine the Hidden Environmental Structure: Evidence from a Visual Associative Learning Task. <i>Journal of Autism and Developmental Disorders</i> , 2018, 48, 3061-3074. | 1.7 | 12 |
| 54 | Estimates of cortical column orientation improve MEG source inversion. <i>NeuroImage</i> , 2020, 216, 116862. | 2.1 | 11 |

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|----|---|-----|-----------|
| 55 | 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. | 1.0 | 10 |
| 56 | Active inference as a unifying, generic and adaptive framework for a P300-based BCI. <i>Journal of Neural Engineering</i> , 2020, 17, 016054. | 1.8 | 10 |
| 57 | A Generic Framework for Adaptive EEG-Based BCI Training and Operation. , 2018, , 595-612. | | 10 |
| 58 | A multi-thermogram-based Bayesian model for the determination of the thermal diffusivity of a material. <i>Metrologia</i> , 2016, 53, S1-S9. | 0.6 | 9 |
| 59 | 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, 536-547. | 1.0 | 9 |
| 60 | Does function fit structure? A ground truth for non-invasive neuroimaging. <i>NeuroImage</i> , 2014, 94, 89-95. | 2.1 | 8 |
| 61 | Transfer Learning for the Riemannian Tangent Space: Applications to Brain-Computer Interfaces. , 2021, , . | | 7 |
| 62 | EEG artifact correction strategies for online trial-by-trial analysis. <i>Journal of Neural Engineering</i> , 2020, 17, 016035. | 1.8 | 6 |
| 63 | Les trois cultures de la psychiatrie computationnelle. <i>Annales Medico-Psychologiques</i> , 2021, 179, 63-71. | 0.2 | 5 |
| 64 | An Impending Paradigm Shift in Motor Imagery Based Brain-Computer Interfaces. <i>Frontiers in Neuroscience</i> , 2021, 15, 824759. | 1.4 | 5 |
| 65 | 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. | 1.1 | 2 |
| 66 | Publisherâ€™s note to: 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, . | 1.4 | 2 |
| 67 | Dynamics of Oddball Sound Processing: Trial-by-Trial Modeling of ECoG Signals. <i>Frontiers in Human Neuroscience</i> , 2021, 15, 794654. | 1.0 | 2 |
| 68 | 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 |
| 69 | Multivariate Group Effect Analysis in Functional Magnetic Resonance Imaging. <i>Lecture Notes in Computer Science</i> , 2003, 18, 548-559. | 1.0 | 1 |
| 70 | Maximum entropy on the mean approach for solving the MEG inverse problem. <i>NeuroImage</i> , 2001, 13, 62. | 2.1 | 0 |
| 71 | REAL-TIME AUTOMATIC MEASUREMENT OF RECORDED SLEEP TIME. <i>Chest</i> , 2007, 132, 649B. | 0.4 | 0 |
| 72 | SÃ©lection de capteurs pour interfaces cerveau-ordinateur de type P300. <i>Traitement Du Signal</i> , 2010, 27, 515-540. | 0.8 | 0 |