

# Alexandre Gramfort

## List of Publications by Year in Descending Order

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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.

98  
papers

6,186  
citations

30  
h-index

78  
g-index

113  
ext. papers

9,059  
ext. citations

5.8  
avg, IF

6.02  
L-index

#	Paper	IF	Citations
98	Intracranial Electrode Location and Analysis in MNE-Python. <i>Journal of Open Source Software</i> , <b>2022</b> , 7, 3897	5.2	0
97	Robust learning from corrupted EEG with dynamic spatial filtering.. <i>NeuroImage</i> , <b>2022</b> , 251, 118994	7.9	2
96	A unified view on beamformers for M/EEG source reconstruction. <i>NeuroImage</i> , <b>2021</b> , 246, 118789	7.9	3
95	Dexamethasone use and mortality in hospitalized patients with coronavirus disease 2019: A multicentre retrospective observational study. <i>British Journal of Clinical Pharmacology</i> , <b>2021</b> , 87, 3766-3775	3.8	13
94	Spectral Independent Component Analysis with noise modeling for M/EEG source separation. <i>Journal of Neuroscience Methods</i> , <b>2021</b> , 356, 109144	3	0
93	Cytoarchitecture Measurements in Brain Gray Matter Using Likelihood-Free Inference. <i>Lecture Notes in Computer Science</i> , <b>2021</b> , 191-202	0.9	
92	Observational Study of Chlorpromazine in Hospitalized Patients with COVID-19. <i>Clinical Drug Investigation</i> , <b>2021</b> , 41, 221-233	3.2	23
91	Observational study of haloperidol in hospitalized patients with COVID-19. <i>PLoS ONE</i> , <b>2021</b> , 16, e0247122	3.7	24
90	Association between antidepressant use and reduced risk of intubation or death in hospitalized patients with COVID-19: results from an observational study. <i>Molecular Psychiatry</i> , <b>2021</b> , 26, 5199-5212	15.1	96
89	Association Between FIASMAS and Reduced Risk of Intubation or Death in Individuals Hospitalized for Severe COVID-19: An Observational Multicenter Study. <i>Clinical Pharmacology and Therapeutics</i> , <b>2021</b> , 110, 1498-1511	6.1	34
88	Comparison of beamformer implementations for MEG source localization. <i>NeuroImage</i> , <b>2020</b> , 216, 116797	7.9	14
87	Predictive regression modeling with MEG/EEG: from source power to signals and cognitive states. <i>NeuroImage</i> , <b>2020</b> , 222, 116893	7.9	21
86	Combining magnetoencephalography with magnetic resonance imaging enhances learning of surrogate-biomarkers. <i>ELife</i> , <b>2020</b> , 9,	8.9	30
85	Multi-subject MEG/EEG source imaging with sparse multi-task regression. <i>NeuroImage</i> , <b>2020</b> , 220, 116847	7.9	5
84	Issues and recommendations from the OHBM COBIDAS MEEG committee for reproducible EEG and MEG research. <i>Nature Neuroscience</i> , <b>2020</b> , 23, 1473-1483	25.5	43
83	Uncovering the structure of clinical EEG signals with self-supervised learning. <i>Journal of Neural Engineering</i> , <b>2020</b> ,	5	20
82	Deep learning-based electroencephalography analysis: a systematic review. <i>Journal of Neural Engineering</i> , <b>2019</b> , 16, 051001	5	339

81	MNE: Software for Acquiring, Processing, and Visualizing MEG/EEG Data <b>2019</b> , 1-17		
80	MNE-BIDS: Organizing electrophysiological data into the BIDS format and facilitating their analysis. <i>Journal of Open Source Software</i> , <b>2019</b> , 4, 1896	5.2	16
79	MNE: Software for Acquiring, Processing, and Visualizing MEG/EEG Data <b>2019</b> , 355-371		5
78	The Strength of Alpha-Beta Oscillatory Coupling Predicts Motor Timing Precision. <i>Journal of Neuroscience</i> , <b>2019</b> , 39, 3277-3291	6.6	9
77	Self-Supervised Representation Learning from Electroencephalography Signals <b>2019</b> ,		13
76	A Deep Learning Architecture for Temporal Sleep Stage Classification Using Multivariate and Multimodal Time Series. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , <b>2018</b> , 26, 758-769	4.8	213
75	A hierarchical Bayesian perspective on majorization-minimization for non-convex sparse regression: application to M/EEG source imaging. <i>Inverse Problems</i> , <b>2018</b> , 34, 085010	2.3	11
74	Faster Independent Component Analysis by Preconditioning With Hessian Approximations. <i>IEEE Transactions on Signal Processing</i> , <b>2018</b> , 66, 4040-4049	4.8	27
73	MEG-BIDS, the brain imaging data structure extended to magnetoencephalography. <i>Scientific Data</i> , <b>2018</b> , 5, 180110	8.2	61
72	Subspecialization within default mode nodes characterized in 10,000 UK Biobank participants. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, 12295-12300	11.5	71
71	A Deep Learning Architecture to Detect Events in EEG Signals During Sleep <b>2018</b> ,		14
70	An Ensemble Learning Approach to Detect Epileptic Seizures from Long Intracranial EEG Recordings <b>2018</b> ,		7
69	A Reproducible MEG/EEG Group Study With the MNE Software: Recommendations, Quality Assessments, and Good Practices. <i>Frontiers in Neuroscience</i> , <b>2018</b> , 12, 530	5.1	52
68	Accelerating Likelihood Optimization for ICA on Real Signals. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 151-160	0.9	1
67	Autoreject: Automated artifact rejection for MEG and EEG data. <i>NeuroImage</i> , <b>2017</b> , 159, 417-429	7.9	114
66	Non-linear auto-regressive models for cross-frequency coupling in neural time series. <i>PLoS Computational Biology</i> , <b>2017</b> , 13, e1005893	5	25
65	Seeing it all: Convolutional network layers map the function of the human visual system. <i>NeuroImage</i> , <b>2017</b> , 152, 184-194	7.9	134
64	Efficient Smoothed Concomitant Lasso Estimation for High Dimensional Regression. <i>Journal of Physics: Conference Series</i> , <b>2017</b> , 904, 012006	0.3	4

63	Parametric estimation of spectrum driven by an exogenous signal <b>2017</b> ,		2
62	Caveats with Stochastic Gradient and Maximum Likelihood Based ICA for EEG. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 279-289	0.9	4
61	M/EEG source localization with multi-scale time-frequency dictionaries <b>2016</b> ,		1
60	Spatiotemporal Signatures of Lexical-Semantic Prediction. <i>Cerebral Cortex</i> , <b>2016</b> , 26, 1377-87	5.1	46
59	Automated rejection and repair of bad trials in MEG/EEG <b>2016</b> ,		8
58	The Iterative Reweighted Mixed-Norm Estimate for Spatio-Temporal MEG/EEG Source Reconstruction. <i>IEEE Transactions on Medical Imaging</i> , <b>2016</b> , 35, 2218-2228	11.7	21
57	Data-driven HRF estimation for encoding and decoding models. <i>NeuroImage</i> , <b>2015</b> , 104, 209-20	7.9	35
56	MEG/EEG Source Imaging with a Non-Convex Penalty in the Time-Frequency Domain <b>2015</b> ,		3
55	FAST: Speeding up linear transforms for tractable inverse problems <b>2015</b> ,		1
54	Mind the Noise Covariance When Localizing Brain Sources with M/EEG <b>2015</b> ,		4
53	Calibration of One-Class SVM for MV set estimation <b>2015</b> ,		6
52	Automated model selection in covariance estimation and spatial whitening of MEG and EEG signals. <i>NeuroImage</i> , <b>2015</b> , 108, 328-42	7.9	102
51	MNE software for processing MEG and EEG data. <i>NeuroImage</i> , <b>2014</b> , 86, 446-60	7.9	831
50	<b>2014</b> ,		7
49	Benchmarking solvers for TV- $\ell_1$ least-squares and logistic regression in brain imaging <b>2014</b> ,		9
48	Blind Denoising with Random Greedy Pursuits. <i>IEEE Signal Processing Letters</i> , <b>2014</b> , 21, 1341-1345	3.2	1
47	Large scale screening of neural signatures of consciousness in patients in a vegetative or minimally conscious state. <i>Brain</i> , <b>2014</b> , 137, 2258-70	11.2	263
46	Encoding of event timing in the phase of neural oscillations. <i>NeuroImage</i> , <b>2014</b> , 92, 274-84	7.9	88

45	Supramodal processing optimizes visual perceptual learning and plasticity. <i>NeuroImage</i> , <b>2014</b> , 93 Pt 1, 32-46	7.9	24
44	Denosing and fast diffusion imaging with physically constrained sparse dictionary learning. <i>Medical Image Analysis</i> , <b>2014</b> , 18, 36-49	15.4	23
43	Two distinct dynamic modes subtend the detection of unexpected sounds. <i>PLoS ONE</i> , <b>2014</b> , 9, e85791	3.7	40
42	Machine learning for neuroimaging with scikit-learn. <i>Frontiers in Neuroinformatics</i> , <b>2014</b> , 8, 14	3.9	690
41	Time-frequency mixed-norm estimates: sparse M/EEG imaging with non-stationary source activations. <i>NeuroImage</i> , <b>2013</b> , 70, 410-22	7.9	139
40	Single-trial decoding of auditory novelty responses facilitates the detection of residual consciousness. <i>NeuroImage</i> , <b>2013</b> , 83, 726-38	7.9	106
39	Second Order Scattering Descriptors Predict fMRI Activity Due to Visual Textures <b>2013</b> ,		1
38	Local and long-range functional connectivity is reduced in concert in autism spectrum disorders. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, 3107-12	11.5	205
37	Automatic semantic facilitation in anterior temporal cortex revealed through multimodal neuroimaging. <i>Journal of Neuroscience</i> , <b>2013</b> , 33, 17174-81	6.6	64
36	<b>2013</b> ,		23
35	Non-negative matrix factorization for single-channel EEG artifact rejection <b>2013</b> ,		14
34	HRF Estimation Improves Sensitivity of fMRI Encoding and Decoding Models <b>2013</b> ,		6
33	MEG and EEG data analysis with MNE-Python. <i>Frontiers in Neuroscience</i> , <b>2013</b> , 7, 267	5.1	802
32	Learning from M/EEG data with variable brain activation delays. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 23, 414-25	0.9	2
31	A supervised clustering approach for fMRI-based inference of brain states. <i>Pattern Recognition</i> , <b>2012</b> , 45, 2041-2049	7.7	87
30	Improved Brain Pattern Recovery through Ranking Approaches <b>2012</b> ,		1
29	Mixed-norm estimates for the M/EEG inverse problem using accelerated gradient methods. <i>Physics in Medicine and Biology</i> , <b>2012</b> , 57, 1937-61	3.8	112
28	Multiscale Mining of fMRI Data with Hierarchical Structured Sparsity. <i>SIAM Journal on Imaging Sciences</i> , <b>2012</b> , 5, 835-856	1.9	40

27	Decoding Visual Percepts Induced by Word Reading with fMRI <b>2012</b> ,		1
26	Beyond Brain Reading: Randomized Sparsity and Clustering to Simultaneously Predict and Identify. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 9-16	0.9	1
25	A Comparative Study of Algorithms for Intra- and Inter-subjects fMRI Decoding. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 1-8	0.9	2
24	Learning to Rank from Medical Imaging Data. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 234-241	0.9	12
23	Tracking cortical activity from M/EEG using graph cuts with spatiotemporal constraints. <i>NeuroImage</i> , <b>2011</b> , 54, 1930-41	7.9	4
22	Phase delays within visual cortex shape the response to steady-state visual stimulation. <i>NeuroImage</i> , <b>2011</b> , 54, 1919-29	7.9	27
21	Multi-scale Mining of fMRI Data with Hierarchical Structured Sparsity <b>2011</b> ,		16
20	Forward field computation with OpenMEEG. <i>Computational Intelligence and Neuroscience</i> , <b>2011</b> , 2011, 923703	3	66
19	Total variation regularization for fMRI-based prediction of behavior. <i>IEEE Transactions on Medical Imaging</i> , <b>2011</b> , 30, 1328-40	11.7	90
18	Multi-subject dictionary learning to segment an atlas of brain spontaneous activity. <i>Lecture Notes in Computer Science</i> , <b>2011</b> , 22, 562-73	0.9	91
17	Functional brain imaging with M/EEG using structured sparsity in time-frequency dictionaries. <i>Lecture Notes in Computer Science</i> , <b>2011</b> , 22, 600-11	0.9	17
16	Total Variation Regularization Enhances Regression-Based Brain Activity Prediction <b>2010</b> ,		2
15	OpenMEEG: opensource software for quasistatic bioelectromagnetics. <i>BioMedical Engineering OnLine</i> , <b>2010</b> , 9, 45	4.1	537
14	Graph-based variability estimation in single-trial event-related neural responses. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2010</b> , 57, 1051-61	5	13
13	The Symmetric BEM: Bringing in More Variables for Better Accuracy. <i>IFMBE Proceedings</i> , <b>2010</b> , 109-112	0.2	7
12	Improving M/EEG source localization with an inter-condition sparse prior <b>2009</b> ,		3
11	Low Dimensional Representations of MEG/EEG Data Using Laplacian Eigenmaps <b>2007</b> ,		7
10	Challenging the estimation of cortical activity from MEG with simulated fMRI-constrained retinotopic maps. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , <b>2007</b> , 2007, 4945-8		2

9	A reusable benchmark of brain-age prediction from M/EEG resting-state signals	1
8	Best Practices in Data Analysis and Sharing in Neuroimaging using MEEG	17
7	Predictive regression modeling with MEG/EEG: from source power to signals and cognitive states	1
6	MEG-BIDS: an extension to the Brain Imaging Data Structure for magnetoencephalography	3
5	Predicting future cognitive decline from non-brain and multimodal brain imaging data in healthy and pathological aging	2
4	Oscillatory multiplexing indexes precision	1
3	MEG/EEG group study with MNE: recommendations, quality assessments and best practices	2
2	Decoding the categorization of visual motion with magnetoencephalography	1
1	Non-linear Auto-Regressive Models for Cross-Frequency Coupling in Neural Time Series	1