

Alexandre Gramfort

List of Publications by Year in descending order

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Version: 2024-02-01

99
papers

11,396
citations

116194

36
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107981

68
g-index

113
all docs

113
docs citations

113
times ranked

12808
citing authors

#	ARTICLE	IF	CITATIONS
1	DiCoDiLe: Distributed Convolutional Dictionary Learning. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, 44, 2426-2437.	9.7	2
2	A unified view on beamformers for M/EEG source reconstruction. NeuroImage, 2022, 246, 118789.	2.1	50
3	Intracranial Electrode Location and Analysis in MNE-Python. Journal of Open Source Software, 2022, 7, 3897.	2.0	10
4	Robust learning from corrupted EEG with dynamic spatial filtering. NeuroImage, 2022, 251, 118994.	2.1	14
5	A large, curated, open-source stroke neuroimaging dataset to improve lesion segmentation algorithms. Scientific Data, 2022, 9, .	2.4	33
6	Predicting future cognitive decline from non-brain and multimodal brain imaging data in healthy and pathological aging. Neurobiology of Aging, 2022, 118, 55-65.	1.5	7
7	Cytoarchitecture Measurements in Brain Gray Matter Using Likelihood-Free Inference. Lecture Notes in Computer Science, 2021, , 191-202.	1.0	0
8	Observational Study of Chlorpromazine in Hospitalized Patients with COVID-19. Clinical Drug Investigation, 2021, 41, 221-233.	1.1	33
9	Observational study of haloperidol in hospitalized patients with COVID-19. PLoS ONE, 2021, 16, e0247122.	1.1	35
10	Association between antidepressant use and reduced risk of intubation or death in hospitalized patients with COVID-19: results from an observational study. Molecular Psychiatry, 2021, 26, 5199-5212.	4.1	183
11	Dexamethasone use and mortality in hospitalized patients with coronavirus disease 2019: A multicentre retrospective observational study. British Journal of Clinical Pharmacology, 2021, 87, 3766-3775.	1.1	30
12	Uncovering the structure of clinical EEG signals with self-supervised learning. Journal of Neural Engineering, 2021, 18, 046020.	1.8	86
13	Spectral Independent Component Analysis with noise modeling for M/EEG source separation. Journal of Neuroscience Methods, 2021, 356, 109144.	1.3	9
14	Association Between FIASMA and Reduced Risk of Intubation or Death in Individuals Hospitalized for Severe COVID-19: An Observational Multicenter Study. Clinical Pharmacology and Therapeutics, 2021, 110, 1498-1511.	2.3	59
15	Issues and recommendations from the OHBM COBIDAS MEEG committee for reproducible EEG and MEG research. Nature Neuroscience, 2020, 23, 1473-1483.	7.1	113
16	Comparison of beamformer implementations for MEG source localization. NeuroImage, 2020, 216, 116797.	2.1	48
17	Predictive regression modeling with MEG/EEG: from source power to signals and cognitive states. NeuroImage, 2020, 222, 116893.	2.1	56
18	Multi-subject MEG/EEG source imaging with sparse multi-task regression. NeuroImage, 2020, 220, 116847.	2.1	11

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19	Combining magnetoencephalography with magnetic resonance imaging enhances learning of surrogate-biomarkers. <i>ELife</i> , 2020, 9, .	2.8	64
20	Deep learning-based electroencephalography analysis: a systematic review. <i>Journal of Neural Engineering</i> , 2019, 16, 051001.	1.8	710
21	MNE: Software for Acquiring, Processing, and Visualizing MEG/EEG Data. , 2019, , 1-17.		0
22	The Strength of Alpha-Beta Oscillatory Coupling Predicts Motor Timing Precision. <i>Journal of Neuroscience</i> , 2019, 39, 3277-3291.	1.7	19
23	Self-Supervised Representation Learning from Electroencephalography Signals. , 2019, , .		29
24	MNE: Software for Acquiring, Processing, and Visualizing MEG/EEG Data. , 2019, , 355-371.		7
25	MNE-BIDS: Organizing electrophysiological data into the BIDS format and facilitating their analysis. <i>Journal of Open Source Software</i> , 2019, 4, 1896.	2.0	65
26	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> , 2018, 26, 758-769.	2.7	390
27	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> , 2018, 115, 12295-12300.	3.3	125
28	A Deep Learning Architecture to Detect Events in EEG Signals During Sleep. , 2018, , .		28
29	An Ensemble Learning Approach to Detect Epileptic Seizures from Long Intracranial EEG Recordings. , 2018, , .		22
30	A Reproducible MEG/EEG Group Study With the MNE Software: Recommendations, Quality Assessments, and Good Practices. <i>Frontiers in Neuroscience</i> , 2018, 12, 530.	1.4	82
31	Accelerating Likelihood Optimization for ICA on Real Signals. <i>Lecture Notes in Computer Science</i> , 2018, , 151-160.	1.0	1
32	A hierarchical Bayesian perspective on majorization-minimization for non-convex sparse regression: application to M/EEG source imaging. <i>Inverse Problems</i> , 2018, 34, 085010.	1.0	12
33	Faster Independent Component Analysis by Preconditioning With Hessian Approximations. <i>IEEE Transactions on Signal Processing</i> , 2018, 66, 4040-4049.	3.2	85
34	MEG-BIDS, the brain imaging data structure extended to magnetoencephalography. <i>Scientific Data</i> , 2018, 5, 180110.	2.4	101
35	Autoreject: Automated artifact rejection for MEG and EEG data. <i>NeuroImage</i> , 2017, 159, 417-429.	2.1	300
36	Seeing it all: Convolutional network layers map the function of the human visual system. <i>NeuroImage</i> , 2017, 152, 184-194.	2.1	248

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37	Efficient Smoothed Concomitant Lasso Estimation for High Dimensional Regression. Journal of Physics: Conference Series, 2017, 904, 012006.	0.3	6
38	Parametric estimation of spectrum driven by an exogenous signal. , 2017, , .		2
39	Hyperparameter estimation in maximum a posteriori regression using group sparsity with an application to brain imaging. , 2017, , .		0
40	Non-linear auto-regressive models for cross-frequency coupling in neural time series. PLoS Computational Biology, 2017, 13, e1005893.	1.5	49
41	Caveats with Stochastic Gradient and Maximum Likelihood Based ICA for EEG. Lecture Notes in Computer Science, 2017, , 279-289.	1.0	5
42	Automated rejection and repair of bad trials in MEG/EEG. , 2016, , .		28
43	The Iterative Reweighted Mixed-Norm Estimate for Spatio-Temporal MEG/EEG Source Reconstruction. IEEE Transactions on Medical Imaging, 2016, 35, 2218-2228.	5.4	30
44	M/EEG source localization with multi-scale time-frequency dictionaries. , 2016, , .		3
45	Spatiotemporal Signatures of Lexicalâ€“Semantic Prediction. Cerebral Cortex, 2016, 26, 1377-1387.	1.6	62
46	MEG/EEG Source Imaging with a Non-Convex Penalty in the Time-Frequency Domain. , 2015, , .		4
47	Inverse problems with time-frequency dictionaries and non-white Gaussian noise. , 2015, , .		0
48	FA ^{1/4} ST: Speeding up linear transforms for tractable inverse problems. , 2015, , .		2
49	Mind the Noise Covariance When Localizing Brain Sources with M/EEG. , 2015, , .		8
50	Calibration of One-Class SVM for MV set estimation. , 2015, , .		8
51	Automated model selection in covariance estimation and spatial whitening of MEG and EEG signals. NeuroImage, 2015, 108, 328-342.	2.1	162
52	Data-driven HRF estimation for encoding and decoding models. NeuroImage, 2015, 104, 209-220.	2.1	55
53	Two Distinct Dynamic Modes Subtend the Detection of Unexpected Sounds. PLoS ONE, 2014, 9, e85791.	1.1	76
54	Machine learning for neuroimaging with scikit-learn. Frontiers in Neuroinformatics, 2014, 8, 14.	1.3	1,422

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55	MNE software for processing MEG and EEG data. <i>NeuroImage</i> , 2014, 86, 446-460.	2.1	1,431
56	Improved MEG/EEG source localization with reweighted mixed-norms. , 2014, , .		8
57	Decoding perceptual thresholds from MEG/EEG. , 2014, , .		0
58	Benchmarking solvers for TV- ℓ_1 least-squares and logistic regression in brain imaging. , 2014, , .		12
59	Blind Denoising with Random Greedy Pursuits. <i>IEEE Signal Processing Letters</i> , 2014, 21, 1341-1345.	2.1	2
60	Large scale screening of neural signatures of consciousness in patients in a vegetative or minimally conscious state. <i>Brain</i> , 2014, 137, 2258-2270.	3.7	398
61	Encoding of event timing in the phase of neural oscillations. <i>NeuroImage</i> , 2014, 92, 274-284.	2.1	117
62	Supramodal processing optimizes visual perceptual learning and plasticity. <i>NeuroImage</i> , 2014, 93, 32-46.	2.1	32
63	Denoising and fast diffusion imaging with physically constrained sparse dictionary learning. <i>Medical Image Analysis</i> , 2014, 18, 36-49.	7.0	33
64	Non-negative Tensor Factorization for single-channel EEG artifact rejection. , 2013, , .		2
65	Time-frequency mixed-norm estimates: Sparse M/EEG imaging with non-stationary source activations. <i>NeuroImage</i> , 2013, 70, 410-422.	2.1	193
66	Single-trial decoding of auditory novelty responses facilitates the detection of residual consciousness. <i>NeuroImage</i> , 2013, 83, 726-738.	2.1	146
67	Second Order Scattering Descriptors Predict fMRI Activity Due to Visual Textures. , 2013, , .		1
68	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> , 2013, 110, 3107-3112.	3.3	260
69	Automatic Semantic Facilitation in Anterior Temporal Cortex Revealed through Multimodal Neuroimaging. <i>Journal of Neuroscience</i> , 2013, 33, 17174-17181.	1.7	87
70	Identifying Predictive Regions from fMRI with TV-L1 Prior. , 2013, , .		36
71	Non-negative matrix factorization for single-channel EEG artifact rejection. , 2013, , .		21
72	HRF Estimation Improves Sensitivity of fMRI Encoding and Decoding Models. , 2013, , .		7

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73	MEG and EEG data analysis with MNE-Python. <i>Frontiers in Neuroscience</i> , 2013, 7, 267.	1.4	1,864
74	Learning from M/EEG Data with Variable Brain Activation Delays. <i>Lecture Notes in Computer Science</i> , 2013, 23, 414-425.	1.0	2
75	Decoding Visual Percepts Induced by Word Reading with fMRI. , 2012, , .		6
76	Beyond Brain Reading: Randomized Sparsity and Clustering to Simultaneously Predict and Identify. <i>Lecture Notes in Computer Science</i> , 2012, , 9-16.	1.0	3
77	Multilayer Scattering Image Analysis Fits fMRI Activity in Visual Areas. , 2012, , .		1
78	Improved Brain Pattern Recovery through Ranking Approaches. , 2012, , .		3
79	Mixed-norm estimates for the M/EEG inverse problem using accelerated gradient methods. <i>Physics in Medicine and Biology</i> , 2012, 57, 1937-1961.	1.6	169
80	Multiscale Mining of fMRI Data with Hierarchical Structured Sparsity. <i>SIAM Journal on Imaging Sciences</i> , 2012, 5, 835-856.	1.3	50
81	A supervised clustering approach for fMRI-based inference of brain states. <i>Pattern Recognition</i> , 2012, 45, 2041-2049.	5.1	107
82	A Comparative Study of Algorithms for Intra- and Inter-subjects fMRI Decoding. <i>Lecture Notes in Computer Science</i> , 2012, , 1-8.	1.0	2
83	Learning to Rank from Medical Imaging Data. <i>Lecture Notes in Computer Science</i> , 2012, , 234-241.	1.0	19
84	MEG/EEG source reconstruction based on Gabor thresholding in the source space. , 2011, , .		0
85	Tracking cortical activity from M/EEG using graph cuts with spatiotemporal constraints. <i>NeuroImage</i> , 2011, 54, 1930-1941.	2.1	4
86	Phase delays within visual cortex shape the response to steady-state visual stimulation. <i>NeuroImage</i> , 2011, 54, 1919-1929.	2.1	30
87	Multi-scale Mining of fMRI Data with Hierarchical Structured Sparsity. , 2011, , .		20
88	Forward Field Computation with OpenMEEG. <i>Computational Intelligence and Neuroscience</i> , 2011, 2011, 1-13.	1.1	93
89	Total Variation Regularization for fMRI-Based Prediction of Behavior. <i>IEEE Transactions on Medical Imaging</i> , 2011, 30, 1328-1340.	5.4	113
90	Multi-subject Dictionary Learning to Segment an Atlas of Brain Spontaneous Activity. <i>Lecture Notes in Computer Science</i> , 2011, 22, 562-573.	1.0	119

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91	Functional Brain Imaging with M/EEG Using Structured Sparsity in Time-Frequency Dictionaries. Lecture Notes in Computer Science, 2011, 22, 600-611.	1.0	27
92	Graph-Based Variability Estimation in Single-Trial Event-Related Neural Responses. IEEE Transactions on Biomedical Engineering, 2010, 57, 1051-1061.	2.5	17
93	Total Variation Regularization Enhances Regression-Based Brain Activity Prediction. , 2010, , .		3
94	OpenMEEG: opensource software for quasistatic bioelectromagnetics. BioMedical Engineering OnLine, 2010, 9, 45.	1.3	883
95	Multi-condition M/EEG Inverse Modeling with Sparsity Assumptions: How to Estimate What Is Common and What Is Specific in Multiple Experimental Conditions. IFMBE Proceedings, 2010, , 124-127.	0.2	1
96	A priori par normes mixtes pour les problÃmes inverses. Application Ã la localisation de sources en M/EEG. Traitement Du Signal, 2010, 27, 53-78.	0.8	0
97	Improving M/EEG source localization with an inter-condition sparse prior. , 2009, , .		9
98	Low Dimensional Representations of MEG/EEG Data Using Laplacian Eigenmaps. , 2007, , .		10
99	Challenging the estimation of cortical activity from MEG with simulated fMRI-constrained retinotopic maps. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 4945-8.	0.5	2