Stefan Haufe

List of Publications by Year
in descending order

60 papers	5,676 citations	172457 29 h-index	189892 50 g-index
71 all docs	71 docs citations	71 times ranked	5878 citing authors

#	Article	IF	Citations
1	Relationship between regional white matter hyperintensities and alpha oscillations in older adults. Neurobiology of Aging, 2022, 112, 1-11.	3.1	9
2	Machine learning based brain signal decoding for intelligent adaptive deep brain stimulation. Experimental Neurology, 2022, 351, 113993.	4.1	35
3	Scrutinizing XAI using linear ground-truth data with suppressor variables. Machine Learning, 2022, 111, 1903-1923.	5.4	5
4	A benchmark for prediction of psychiatric multimorbidity from resting EEG data in a large pediatric sample. NeuroImage, 2022, 258, 119348.	4.2	5
5	Empirical Bayesian localization of event-related time-frequency neural activity dynamics. NeuroImage, 2022, 258, 119369.	4.2	3
6	Robust estimation of noise for electromagnetic brain imaging with the champagne algorithm. NeuroImage, 2021, 225, 117411.	4.2	24
7	Predicting lethal courses in critically ill COVID-19 patients using a machine learning model trained on patients with non-COVID-19 viral pneumonia. Scientific Reports, 2021, 11, 13205.	3.3	12
8	Unification of sparse Bayesian learning algorithms for electromagnetic brain imaging with the majorization minimization framework. NeuroImage, 2021, 239, 118309.	4.2	15
9	Machine Learning for Health: Algorithm Auditing & Quality Control. Journal of Medical Systems, 2021, 45, 105.	3.6	23
10	Temporal Signatures of Criticality in Human Cortical Excitability as Probed by Early Somatosensory Responses. Journal of Neuroscience, 2020, 40, 6572-6583.	3.6	25
11	Sensorimotor Functional Connectivity: A Neurophysiological Factor Related to BCI Performance. Frontiers in Neuroscience, 2020, 14, 575081.	2.8	21
12	Functional connectivity of EEG is subject-specific, associated with phenotype, and different from fMRI. NeuroImage, 2020, 218, 117001.	4.2	58
13	Enhancing sensorimotor BCI performance with assistive afferent activity: An online evaluation. NeuroImage, 2019, 199, 375-386.	4.2	30
14	Quantifying the Effect of Demixing Approaches on Directed Connectivity Estimated Between Reconstructed EEG Sources. Brain Topography, 2019, 32, 655-674.	1.8	46
15	Ongoing monitoring of mindwandering in avoidant grief through cortico-basal-ganglia interactions. Social Cognitive and Affective Neuroscience, 2019, 14, 163-172.	3.0	8
16	A Simulation Framework for Benchmarking EEG-Based Brain Connectivity Estimation Methodologies. Brain Topography, 2019, 32, 625-642.	1.8	93
17	Improving EEG Source Localization Through Spatio-Temporal Sparse Bayesian Learning. , 2018, , .		4
18	Powerful Statistical Inference for Nested Data Using Sufficient Summary Statistics. Frontiers in Human Neuroscience, 2018, 12, 103.	2.0	22

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19	Elucidating relations between fMRI, ECoG, and EEG through a common natural stimulus. NeuroImage, 2018, 179, 79-91.	4.2	64
20	Consistency of EEG source localization and connectivity estimates. NeuroImage, 2017, 152, 590-601.	4.2	177
21	Tracking Deceased-Related Thinking With Neural Pattern Decoding of a Cortical-Basal Ganglia Circuit. Biological Psychiatry: Cognitive Neuroscience and Neuroimaging, 2017, 2, 421-429.	1.5	8
22	The Berlin Brain-Computer Interface: Progress Beyond Communication and Control. Frontiers in Neuroscience, 2016, 10, 530.	2.8	172
23	The New York Head—A precise standardized volume conductor model for EEG source localization and tES targeting. NeuroImage, 2016, 140, 150-162.	4.2	215
24	Validity of Time Reversal for Testing Granger Causality. IEEE Transactions on Signal Processing, 2016, 64, 2746-2760.	5.3	53
25	An extendable simulation framework for benchmarking EEG-based brain connectivity estimation methodologies. , 2015, 2015, 7562-5.		3
26	Identifying Granger causal relationships between neural power dynamics and variables of interest. NeuroImage, 2015, 111, 489-504.	4.2	18
27	Detection of braking intention in diverse situations during simulated driving based on EEG feature combination. Journal of Neural Engineering, 2015, 12, 016001.	3.5	109
28	Solving the EEG inverse problem based on space–time–frequency structured sparsity constraints. NeuroImage, 2015, 118, 598-612.	4.2	58
29	Multivariate Machine Learning Methods for Fusing Multimodal Functional Neuroimaging Data. Proceedings of the IEEE, 2015, 103, 1507-1530.	21.3	79
30	A highly detailed FEM volume conductor model based on the ICBM152 average head template for EEG source imaging and TCS targeting. Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2015, 2015, 5744-7.	0.5	2
31	Electrophysiology-based detection of emergency braking intention in real-world driving. Journal of Neural Engineering, 2014, 11, 056011.	3.5	105
32	Optimizing the regularization for image reconstruction of cerebral diffuse optical tomography. Journal of Biomedical Optics, 2014, 19, 096006.	2.6	35
33	Finding brain oscillations with power dependencies in neuroimaging data. NeuroImage, 2014, 96, 334-348.	4.2	40
34	Parameter interpretation, regularization and source localization in multivariate linear models. , 2014, , .		4
35	Brain-computer interface for smart vehicle: Detection of braking intention during simulated driving. , 2014, , .		4
36	Dimensionality reduction for the analysis of brain oscillations. NeuroImage, 2014, 101, 583-597.	4.2	74

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37	SPoC: A novel framework for relating the amplitude of neuronal oscillations to behaviorally relevant parameters. NeuroImage, 2014, 86, 111-122.	4.2	95
38	On the interpretation of weight vectors of linear models in multivariate neuroimaging. NeuroImage, 2014, 87, 96-110.	4.2	1,049
39	The effect of linear mixing in the EEG on Hurst exponent estimation. NeuroImage, 2014, 99, 377-387.	4.2	33
40	Decoding cognitive brain states. , 2013, , .		1
41	A critical assessment of connectivity measures for EEG data: A simulation study. NeuroImage, 2013, 64, 120-133.	4.2	276
42	Optimizing event-related potential based brainâ€"computer interfaces: a systematic evaluation of dynamic stopping methods. Journal of Neural Engineering, 2013, 10, 036025.	3.5	81
43	Detection of multi-class emergency situations during simulated driving from ERP. , 2013, , .		10
44	Pre-Stimulus Sensorimotor Rhythms Influence Brainâ€"Computer Interface Classification Performance. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2012, 20, 653-662.	4.9	47
45	Pitfalls in EEG-Based Brain Effective Connectivity Analysis. Lecture Notes in Computer Science, 2012, , 202-209.	1.3	0
46	Alleviating the Influence of Weak Data Asymmetries on Granger-Causal Analyses. Lecture Notes in Computer Science, 2012, , 25-33.	1.3	20
47	EEG potentials predict upcoming emergency brakings during simulated driving. Journal of Neural Engineering, 2011, 8, 056001.	3.5	167
48	Large-scale EEG/MEG source localization with spatial flexibility. NeuroImage, 2011, 54, 851-859.	4.2	94
49	Estimating brain connectivity patterns from EEG: Performance of Granger Causality, PDC and PSI on simulated data. Neuroscience Letters, 2011, 500, e42.	2.1	0
50	Single-trial analysis and classification of ERP components â€" A tutorial. NeuroImage, 2011, 56, 814-825.	4.2	946
51	Identifying brain effective connectivity patterns from EEG: performance of Granger Causality, DTF, PDC and PSI on simulated data. BMC Neuroscience, 2011, 12, .	1.9	12
52	Automatic Classification of Artifactual ICA-Components for Artifact Removal in EEG Signals. Behavioral and Brain Functions, 2011, 7, 30.	3.3	532
53	Open Database of Epileptic EEG with MRI and Postoperational Assessment of Fociâ€"a Real World Verification for the EEG Inverse Solutions. Neuroinformatics, 2010, 8, 285-299.	2.8	30
54	Modeling Sparse Connectivity Between Underlying Brain Sources for EEG/MEG. IEEE Transactions on Biomedical Engineering, 2010, 57, 1954-1963.	4.2	101

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55	The Berlin Brain–Computer Interface: Non-Medical Uses of BCI Technology. Frontiers in Neuroscience, 2010, 4, 198.	2.8	277
56	Localization of class-related mu-rhythm desynchronization in motor imagery based Brain-Computer Interface sessions. , 2010, 2010, 5137-40.		2
57	Now You'll Feel It, Now You Won't: EEG Rhythms Predict the Effectiveness of Perceptual Masking. Journal of Cognitive Neuroscience, 2009, 21, 2407-2419.	2.3	85
58	Practicing fast-decision BCI using a "goalkeeper" paradigm. BMC Neuroscience, 2009, 10, P69.	1.9	9
59	Combining sparsity and rotational invariance in EEG/MEG source reconstruction. NeuroImage, 2008, 42, 726-738.	4.2	108
60	Assessing Drivers' Vigilance State During Monotonous Driving. , 2007, , .		12