

Alois Schlägl

List of Publications by Year in descending order

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Version: 2024-02-01

34
papers

5,803
citations

279798

23
h-index

414414

32
g-index

36
all docs

36
docs citations

36
times ranked

5546
citing authors

#	ARTICLE	IF	CITATIONS
1	MOD: A novel machine-learning optimal-filtering method for accurate and efficient detection of subthreshold synaptic events in vivo. <i>Journal of Neuroscience Methods</i> , 2021, 357, 109125.	2.5	4
2	The History and Challenges of SCP-ECG: The Standard Communication Protocol for Computer-Assisted Electrocardiography. <i>Hearts</i> , 2021, 2, 384-409.	0.9	8
3	How connectivity rules and synaptic properties shape the efficacy of pattern separation in the entorhinal cortexâ€™dentate gyrusâ€™CA3 network. <i>Nature Computational Science</i> , 2021, 1, 830-842.	8.0	13
4	Selective Routing of Spatial Information Flow from Input to Output in Hippocampal Granule Cells. <i>Neuron</i> , 2020, 107, 1212-1225.e7.	8.1	34
5	Synaptic mechanisms of pattern completion in the hippocampal CA3 network. <i>Science</i> , 2016, 353, 1117-1123.	12.6	203
6	Stimfit: quantifying electrophysiological data with Python. <i>Frontiers in Neuroinformatics</i> , 2014, 8, 16.	2.5	138
7	Sequential effects in continued visual search: Using fixationâ€™related potentials to compare distractor processing before and after target detection. <i>Psychophysiology</i> , 2014, 51, 385-395.	2.4	27
8	A Deconvolution-Based Method with High Sensitivity and Temporal Resolution for Detection of Spontaneous Synaptic Currents In Vitro and In Vivo. <i>Biophysical Journal</i> , 2012, 103, 1429-1439.	0.5	54
9	Review of the BCI Competition IV. <i>Frontiers in Neuroscience</i> , 2012, 6, 55.	2.8	686
10	Autonomic dysfunction in PD during sleep. <i>Movement Disorders</i> , 2012, 27, 454-454.	3.9	2
11	BioSig: The Free and Open Source Software Library for Biomedical Signal Processing. <i>Computational Intelligence and Neuroscience</i> , 2011, 2011, 1-12.	1.7	161
12	Recent advances in modeling and analysis of bioelectric and biomagnetic sources. <i>Biomedizinische Technik</i> , 2010, 55, 65-76.	0.8	16
13	Time Domain Parameters as a feature for EEG-based Brainâ€™Computer Interfaces. <i>Neural Networks</i> , 2009, 22, 1313-1319.	5.9	353
14	Adaptive Methods in BCI Research - An Introductory Tutorial. <i>The Frontiers Collection</i> , 2009, , 331-355.	0.2	24
15	BioSig: A Free and Open Source Software Library for BCI Research. <i>Computer</i> , 2008, 41, 44-50.	1.1	107
16	Toward Self-Paced Brainâ€™Computer Communication: Navigation Through Virtual Worlds. <i>IEEE Transactions on Biomedical Engineering</i> , 2008, 55, 675-682.	4.2	186
17	Robustly Estimating the Flow Direction of Information in Complex Physical Systems. <i>Physical Review Letters</i> , 2008, 100, 234101.	7.8	484
18	Comparison of Evaluation Metrics in Classification Applications with Imbalanced Datasets. , 2008, , .		72

#	ARTICLE	IF	CITATIONS
19	Comparison of adaptive features with linear discriminant classifier for Brain computer Interfaces. , 2008, 2008, 173-6.		10
20	Study of discriminant analysis applied to motor imagery bipolar data. Medical and Biological Engineering and Computing, 2007, 45, 61-68.	2.8	35
21	Directed Cortical Information Flow during Human Object Recognition: Analyzing Induced EEG Gamma-Band Responses in Brain's Source Space. PLoS ONE, 2007, 2, e684.	2.5	127
22	Analyzing event-related EEG data with multivariate autoregressive parameters. Progress in Brain Research, 2006, 159, 135-147.	1.4	142
23	A comparison of multivariate autoregressive estimators. Signal Processing, 2006, 86, 2426-2429.	3.7	119
24	BCI meeting 2005-workshop on BCI signal processing: feature extraction and translation. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2006, 14, 135-138.	4.9	167
25	The BCI competition III: validating alternative approaches to actual BCI problems. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2006, 14, 153-159.	4.9	832
26	Semantic memory retrieval: cortical couplings in object recognition in the N400 window. European Journal of Neuroscience, 2005, 21, 1139-1143.	2.6	20
27	Hemodynamic and autonomic changes induced by Ironman: prediction of competition time by blood pressure variability. Journal of Applied Physiology, 2005, 99, 1728-1735.	2.5	80
28	An E-Health Solution for Automatic Sleep Classification according to Rechtschaffen and Kales: Validation Study of the Somnolyzer 24 A— 7 Utilizing the Siesta Database. Neuropsychobiology, 2005, 51, 115-133.	1.9	251
29	Characterization of four-class motor imagery EEG data for the BCI-competition 2005. Journal of Neural Engineering, 2005, 2, L14-L22.	3.5	393
30	The BCI Competition 2003: Progress and Perspectives in Detection and Discrimination of EEG Single Trials. IEEE Transactions on Biomedical Engineering, 2004, 51, 1044-1051.	4.2	535
31	Lexical memory search during N400: cortical couplings in auditory comprehension. NeuroReport, 2004, 15, 1209-1213.	1.2	24
32	Detection of movement-related patterns in ongoing single-channel electrocorticogram. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2003, 11, 276-281.	4.9	108
33	Artifact Processing in Computerized Analysis of Sleep EEG – A Review. Neuropsychobiology, 1999, 40, 150-157.	1.9	134
34	Enhancement of Left-Right Sensorimotor EEG Differences During Feedback-Regulated Motor Imagery. Journal of Clinical Neurophysiology, 1999, 16, 373-382.	1.7	247