

Sebastian Halder

List of Publications by Year in descending order

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Version: 2024-02-01

57
papers

5,761
citations

126708

33
h-index

161609

54
g-index

58
all docs

58
docs citations

58
times ranked

3887
citing authors

#	ARTICLE	IF	CITATIONS
1	An auditory oddball brain-computer interface for binary choices. <i>Clinical Neurophysiology</i> , 2010, 121, 516-523.	0.7	719
2	Neurophysiological predictor of SMR-based BCI performance. <i>NeuroImage</i> , 2010, 51, 1303-1309.	2.1	576
3	A P300-based brain-computer interface for people with amyotrophic lateral sclerosis. <i>Clinical Neurophysiology</i> , 2008, 119, 1909-1916.	0.7	559
4	An auditory oddball (P300) spelling system for brain-computer interfaces. <i>Psychophysiology</i> , 2009, 46, 617-625.	1.2	279
5	A Brain-Computer Interface Controlled Auditory Event-Related Potential (P300) Spelling System for Locked-In Patients. <i>Annals of the New York Academy of Sciences</i> , 2009, 1157, 90-100.	1.8	250
6	Psychological predictors of SMR-BCI performance. <i>Biological Psychology</i> , 2012, 89, 80-86.	1.1	228
7	Effects of mental workload and fatigue on the P300, alpha and theta band power during operation of an ERP (P300) brain-computer interface. <i>Biological Psychology</i> , 2014, 102, 118-129.	1.1	218
8	Probing command following in patients with disorders of consciousness using a brain-computer interface. <i>Clinical Neurophysiology</i> , 2013, 124, 101-106.	0.7	217
9	Motivation modulates the P300 amplitude during brain-computer interface use. <i>Clinical Neurophysiology</i> , 2010, 121, 1023-1031.	0.7	215
10	Neural mechanisms of brain-computer interface control. <i>NeuroImage</i> , 2011, 55, 1779-1790.	2.1	205
11	A Brain-Computer Interface as Input Channel for a Standard Assistive Technology Software. <i>Clinical EEG and Neuroscience</i> , 2011, 42, 236-244.	0.9	181
12	Proprioceptive Feedback and Brain Computer Interface (BCI) Based Neuroprostheses. <i>PLoS ONE</i> , 2012, 7, e47048.	1.1	178
13	Transition from the locked in to the completely locked-in state: A physiological analysis. <i>Clinical Neurophysiology</i> , 2011, 122, 925-933.	0.7	163
14	Design and Implementation of a P300-Based Brain-Computer Interface for Controlling an Internet Browser. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2010, 18, 599-609.	2.7	146
15	Brain Painting: First Evaluation of a New Brain-Computer Interface Application with ALS-Patients and Healthy Volunteers. <i>Frontiers in Neuroscience</i> , 2010, 4, 182.	1.4	133
16	Brain Painting: Usability testing according to the user-centered design in end users with severe motor paralysis. <i>Artificial Intelligence in Medicine</i> , 2013, 59, 99-110.	3.8	104
17	Prediction of brain-computer interface aptitude from individual brain structure. <i>Frontiers in Human Neuroscience</i> , 2013, 7, 105.	1.0	97
18	Out of the frying pan into the fire—the P300-based BCI faces real-world challenges. <i>Progress in Brain Research</i> , 2011, 194, 27-46.	0.9	81

#	ARTICLE	IF	CITATIONS
19	A portable auditory P300 brain-computer interface with directional cues. <i>Clinical Neurophysiology</i> , 2013, 124, 327-338.	0.7	80
20	Online Artifact Removal for Brain-Computer Interfaces Using Support Vector Machines and Blind Source Separation. <i>Computational Intelligence and Neuroscience</i> , 2007, 2007, 1-10.	1.1	76
21	Brain communication in the locked-in state. <i>Brain</i> , 2013, 136, 1989-2000.	3.7	73
22	Usability and Workload of Access Technology for People With Severe Motor Impairment. <i>Neurorehabilitation and Neural Repair</i> , 2015, 29, 950-957.	1.4	73
23	Effects of training and motivation on auditory P300 brain-computer interface performance. <i>Clinical Neurophysiology</i> , 2016, 127, 379-387.	0.7	71
24	On Optimal Channel Configurations for SMR-based Brain-Computer Interfaces. <i>Brain Topography</i> , 2010, 23, 186-193.	0.8	68
25	An auditory multiclass brain-computer interface with natural stimuli: Usability evaluation with healthy participants and a motor impaired end user. <i>Frontiers in Human Neuroscience</i> , 2014, 8, 1039.	1.0	65
26	Prediction of Auditory and Visual P300 Brain-Computer Interface Aptitude. <i>PLoS ONE</i> , 2013, 8, e53513.	1.1	60
27	Comparison of eye tracking, electrooculography and an auditory brain-computer interface for binary communication: a case study with a participant in the locked-in state. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2015, 12, 76.	2.4	59
28	Training leads to increased auditory brain-computer interface performance of end-users with motor impairments. <i>Clinical Neurophysiology</i> , 2016, 127, 1288-1296.	0.7	52
29	Rapid P300 brain-computer interface communication with a head-mounted display. <i>Frontiers in Neuroscience</i> , 2015, 9, 207.	1.4	47
30	Control or non-control state: that is the question! An asynchronous visual P300-based BCI approach. <i>Journal of Neural Engineering</i> , 2015, 12, 014001.	1.8	46
31	Brain-controlled applications using dynamic P300 speller matrices. <i>Artificial Intelligence in Medicine</i> , 2015, 63, 7-17.	3.8	46
32	Brain Computer Interface on Track to Home. <i>Scientific World Journal</i> , The, 2015, 2015, 1-17.	0.8	44
33	A Multifunctional Brain-Computer Interface Intended for Home Use: An Evaluation with Healthy Participants and Potential End Users with Dry and Gel-Based Electrodes. <i>Frontiers in Neuroscience</i> , 2017, 11, 286.	1.4	38
34	A new (semantic) reflexive brain-computer interface: In search for a suitable classifier. <i>Journal of Neuroscience Methods</i> , 2012, 203, 233-240.	1.3	33
35	Assessing attention and cognitive function in completely locked-in state with event-related brain potentials and epidural electrocorticography. <i>Journal of Neural Engineering</i> , 2014, 11, 026006.	1.8	27
36	Effective functional mapping of fMRI data with support vector machines. <i>Human Brain Mapping</i> , 2010, 31, 1502-1511.	1.9	24

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37	Brain-computer interface and semantic classical conditioning of communication in paralysis. <i>Biological Psychology</i> , 2013, 92, 267-274.	1.1	23
38	Fragmentation of Slow Wave Sleep after Onset of Complete Locked-In State. <i>Journal of Clinical Sleep Medicine</i> , 2013, 09, 951-953.	1.4	22
39	Psychological Predictors of Visual and Auditory P300 Brain-Computer Interface Performance. <i>Frontiers in Neuroscience</i> , 2018, 12, 307.	1.4	19
40	Neural mechanisms of training an auditory event-related potential task in a brain-computer interface context. <i>Human Brain Mapping</i> , 2019, 40, 2399-2412.	1.9	18
41	An Evaluation of Training with an Auditory P300 Brain-Computer Interface for the Japanese Hiragana Syllabary. <i>Frontiers in Neuroscience</i> , 2016, 10, 446.	1.4	17
42	Prediction of P300 BCI Aptitude in Severe Motor Impairment. <i>PLoS ONE</i> , 2013, 8, e76148.	1.1	16
43	Proprioceptive feedback in BCI. , 2009, , .		15
44	Semantic Classical Conditioning and Brain-Computer Interface Control: Encoding of Affirmative and Negative Thinking. <i>Frontiers in Neuroscience</i> , 2013, 7, 23.	1.4	13
45	Comparison of Four Control Methods for a Five-Choice Assistive Technology. <i>Frontiers in Human Neuroscience</i> , 2018, 12, 228.	1.0	13
46	Changes in measures of consciousness during anaesthesia of one hemisphere (Wada test). <i>NeuroImage</i> , 2021, 226, 117566.	2.1	11
47	Post-Adaptation Effects in a Motor Imagery Brain-Computer Interface Online Coadaptive Paradigm. <i>IEEE Access</i> , 2021, 9, 41688-41703.	2.6	9
48	Epidural electrocorticography for monitoring of arousal in locked-in state. <i>Frontiers in Human Neuroscience</i> , 2014, 8, 861.	1.0	8
49	Brain Neural Computer Interface for Everyday Home Usage. <i>Lecture Notes in Computer Science</i> , 2015, , 437-446.	1.0	8
50	Stimulus modality influences session-to-session transfer of training effects in auditory and tactile streaming-based P300 brain-computer interfaces. <i>Scientific Reports</i> , 2020, 10, 11873.	1.6	8
51	Two sides of the same coin: adaptation of BCIs to internal states with user-centered design and electrophysiological features. <i>Brain-Computer Interfaces</i> , 2022, 9, 102-114.	0.9	8
52	Assessing the specificity of the relationship between brain alpha oscillations and tonic pain. <i>NeuroImage</i> , 2022, 255, 119143.	2.1	8
53	Write, read and answer emails with a dry ‘n’ wireless brain-computer interface system. , 2014, 2014, 1286-9.		5
54	Workshops of the eighth international brain-computer interface meeting: BCIs: the next frontier. <i>Brain-Computer Interfaces</i> , 2022, 9, 69-101.	0.9	4

#	ARTICLE	IF	CITATIONS
55	Multimodal brain-computer interface communication in disorders of consciousness. BMC Neuroscience, 2014, 15, .	0.8	2
56	Improving EEG-BCI analysis for low certainty subjects by using dictionary learning. , 2015, , .		1
57	Towards Communication in the Completely Locked-In State: Neuroelectric Semantic Conditioning BCI. Springer Briefs in Electrical and Computer Engineering, 2013, , 111-118.	0.3	1