Sebastian Halder

List of Publications by Year
in descending order

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	Workshops of the eighth international brain–computer interface meeting: BCIs: the next frontier. Brain-Computer Interfaces, 2022, 9, 69-101.	0.9	4
2	Two sides of the same coin: adaptation of BCIs to internal states with user-centered design and electrophysiological features. Brain-Computer Interfaces, 2022, 9, 102-114.	0.9	8
3	Assessing the specificity of the relationship between brain alpha oscillations and tonic pain. NeuroImage, 2022, 255, 119143.	2.1	8
4	Changes in measures of consciousness during anaesthesia of one hemisphere (Wada test). NeuroImage, 2021, 226, 117566.	2.1	11
5	Post-Adaptation Effects in a Motor Imagery Brain-Computer Interface Online Coadaptive Paradigm. IEEE Access, 2021, 9, 41688-41703.	2.6	9
6	Stimulus modality influences session-to-session transfer of training effects in auditory and tactile streaming-based P300 brain–computer interfaces. Scientific Reports, 2020, 10, 11873.	1.6	8
7	Neural mechanisms of training an auditory event-related potential task in a brain–computer interface context. Human Brain Mapping, 2019, 40, 2399-2412.	1.9	18
8	Comparison of Four Control Methods for a Five-Choice Assistive Technology. Frontiers in Human Neuroscience, 2018, 12, 228.	1.0	13
9	Psychological Predictors of Visual and Auditory P300 Brain-Computer Interface Performance. Frontiers in Neuroscience, 2018, 12, 307.	1.4	19
10	A Multifunctional Brain-Computer Interface Intended for Home Use: An Evaluation with Healthy Participants and Potential End Users with Dry and Gel-Based Electrodes. Frontiers in Neuroscience, 2017, 11, 286.	1.4	38
11	An Evaluation of Training with an Auditory P300 Brain-Computer Interface for the Japanese Hiragana Syllabary. Frontiers in Neuroscience, 2016, 10, 446.	1.4	17
12	Training leads to increased auditory brain–computer interface performance of end-users with motor impairments. Clinical Neurophysiology, 2016, 127, 1288-1296.	0.7	52
13	Effects of training and motivation on auditory P300 brain–computer interface performance. Clinical Neurophysiology, 2016, 127, 379-387.	0.7	71
14	Improving EEG-BCI analysis for low certainty subjects by using dictionary learning. , 2015, , .		1
15	Rapid P300 brain-computer interface communication with a head-mounted display. Frontiers in Neuroscience, 2015, 9, 207.	1.4	47
16	Brain Computer Interface on Track to Home. Scientific World Journal, The, 2015, 2015, 1-17.	0.8	44
17	Control or non-control state: that is the question! An asynchronous visual P300-based BCI approach. Journal of Neural Engineering, 2015, 12, 014001.	1.8	46
18	Usability and Workload of Access Technology for People With Severe Motor Impairment. Neurorehabilitation and Neural Repair, 2015, 29, 950-957.	1.4	73

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19	Brain Neural Computer Interface for Everyday Home Usage. Lecture Notes in Computer Science, 2015, , 437-446.	1.0	8
20	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. Journal of NeuroEngineering and Rehabilitation, 2015, 12, 76.	2.4	59
21	Brain-controlled applications using dynamic P300 speller matrices. Artificial Intelligence in Medicine, 2015, 63, 7-17.	3.8	46
22	Epidural electrocorticography for monitoring of arousal in locked-in state. Frontiers in Human Neuroscience, 2014, 8, 861.	1.0	8
23	Assessing attention and cognitive function in completely locked-in state with event-related brain potentials and epidural electrocorticography. Journal of Neural Engineering, 2014, 11, 026006.	1.8	27
24	Write, read and answer emails with a dry ‘n’ wireless brain-computer interface system. , 2014, 2014, 1286-9.		5
25	Effects of mental workload and fatigue on the P300, alpha and theta band power during operation of an ERP (P300) brain–computer interface. Biological Psychology, 2014, 102, 118-129.	1.1	218
26	Multimodal brain-computer interface communication in disorders of consciousness. BMC Neuroscience, 2014, 15, .	0.8	2
27	An auditory multiclass brain-computer interface with natural stimuli: Usability evaluation with healthy participants and a motor impaired end user. Frontiers in Human Neuroscience, 2014, 8, 1039.	1.0	65
28	Brain–computer interface and semantic classical conditioning of communication in paralysis. Biological Psychology, 2013, 92, 267-274.	1.1	23
29	Brain Painting: Usability testing according to the user-centered design in end users with severe motor paralysis. Artificial Intelligence in Medicine, 2013, 59, 99-110.	3.8	104
30	A portable auditory P300 brain–computer interface with directional cues. Clinical Neurophysiology, 2013, 124, 327-338.	0.7	80
31	Prediction of Auditory and Visual P300 Brain-Computer Interface Aptitude. PLoS ONE, 2013, 8, e53513.	1.1	60
32	Probing command following in patients with disorders of consciousness using a brain–computer interface. Clinical Neurophysiology, 2013, 124, 101-106.	0.7	217
33	Brain communication in the locked-in state. Brain, 2013, 136, 1989-2000.	3.7	73
34	Prediction of P300 BCI Aptitude in Severe Motor Impairment. PLoS ONE, 2013, 8, e76148.	1.1	16
35	Prediction of brain-computer interface aptitude from individual brain structure. Frontiers in Human Neuroscience, 2013, 7, 105.	1.0	97
36	Semantic Classical Conditioning and Brain-Computer Interface Control: Encoding of Affirmative and Negative Thinking. Frontiers in Neuroscience, 2013, 7, 23.	1.4	13

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37	Fragmentation of Slow Wave Sleep after Onset of Complete Locked-In State. Journal of Clinical Sleep Medicine, 2013, 09, 951-953.	1.4	22
38	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
39	Psychological predictors of SMR-BCI performance. Biological Psychology, 2012, 89, 80-86.	1.1	228
40	Proprioceptive Feedback and Brain Computer Interface (BCI) Based Neuroprostheses. PLoS ONE, 2012, 7, e47048.	1.1	178
41	A new (semantic) reflexive brain–computer interface: In search for a suitable classifier. Journal of Neuroscience Methods, 2012, 203, 233-240.	1.3	33
42	Neural mechanisms of brain–computer interface control. NeuroImage, 2011, 55, 1779-1790.	2.1	205
43	Transition from the locked in to the completely locked-in state: A physiological analysis. Clinical Neurophysiology, 2011, 122, 925-933.	0.7	163
44	Out of the frying pan into the fire–the P300-based BCI faces real-world challenges. Progress in Brain Research, 2011, 194, 27-46.	0.9	81
45	A Brain-Computer Interface as Input Channel for a Standard Assistive Technology Software. Clinical EEG and Neuroscience, 2011, 42, 236-244.	0.9	181
46	On Optimal Channel Configurations for SMR-based Brain–Computer Interfaces. Brain Topography, 2010, 23, 186-193.	0.8	68
47	Design and Implementation of a P300-Based Brain-Computer Interface for Controlling an Internet Browser. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2010, 18, 599-609.	2.7	146
48	Effective functional mapping of fMRI data with support–vector machines. Human Brain Mapping, 2010, 31, 1502-1511.	1.9	24
49	Brain Painting: First Evaluation of a New Brain–Computer Interface Application with ALS-Patients and Healthy Volunteers. Frontiers in Neuroscience, 2010, 4, 182.	1.4	133
50	Neurophysiological predictor of SMR-based BCI performance. NeuroImage, 2010, 51, 1303-1309.	2.1	576
51	An auditory oddball brain–computer interface for binary choices. Clinical Neurophysiology, 2010, 121, 516-523.	0.7	719
52	Motivation modulates the P300 amplitude during brain–computer interface use. Clinical Neurophysiology, 2010, 121, 1023-1031.	0.7	215
53	A Brain–Computer Interface Controlled Auditory Event–Related Potential (P300) Spelling System for Locked–In Patients. Annals of the New York Academy of Sciences, 2009, 1157, 90-100.	1.8	250
54	An auditory oddball (P300) spelling system for brain–computer interfaces. Psychophysiology, 2009, 46, 617-625.	1.2	279

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55	Proprioceptive feedback in BCI. , 2009, , .		15
56	A P300-based brainâ€"computer interface for people with amyotrophic lateral sclerosis. Clinical Neurophysiology, 2008, 119, 1909-1916.	0.7	559
57	Online Artifact Removal for Brain-Computer Interfaces Using Support Vector Machines and Blind Source Separation. Computational Intelligence and Neuroscience, 2007, 2007, 1-10.	1.1	76