Andrea KÃ¼bler

List of Publications by Year
in descending order

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Version: 2024-02-01

115 papers	9,290 citations	36303 51 h-index	40979 93 g-index
118 all docs	118 docs citations	118 times ranked	6377 citing authors

#	Article	IF	Citations
1	Brain-computer interface research at the university of south Florida cognitive psychophysiology laboratory: the P300 speller. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2006, 14, 221-224.	4.9	695
2	Neurophysiological predictor of SMR-based BCI performance. NeuroImage, 2010, 51, 1303-1309.	4.2	576
3	Brainâ€“computer communication: Unlocking the locked in.. Psychological Bulletin, 2001, 127, 358-375.	6.1	531
4	An auditory brainâ€“computer interface (BCI). Journal of Neuroscience Methods, 2008, 167, 43-50.	2.5	324
5	Brain-computer communication: Self-regulation of slow cortical potentials for verbal communication. Archives of Physical Medicine and Rehabilitation, 2001, 82, 1533-1539.	0.9	317
6	P300 brain computer interface: current challenges and emerging trends. Frontiers in Neuroengineering, 2012, 5, 14.	4.8	278
7	A Brainâ€“Computer Interface Controlled Auditory Eventâ€Related Potential (P300) Spelling System for Lockedâ€In Patients. Annals of the New York Academy of Sciences, 2009, 1157, 90-100.	3.8	250
8	The thought translation device: a neurophysiological approach to communication in total motor paralysis. Experimental Brain Research, 1999, 124, 223-232.	1.5	247
9	Psychological predictors of SMR-BCI performance. Biological Psychology, 2012, 89, 80-86.	2.2	228
10	Effects of mental workload and fatigue on the P300, alpha and theta band power during operation of an ERP (P300) brainâ€“computer interface. Biological Psychology, 2014, 102, 118-129.	2.2	218
11	Probing command following in patients with disorders of consciousness using a brainâ€“computer interface. Clinical Neurophysiology, 2013, 124, 101-106.	1.5	217
12	Consensus on the reporting and experimental design of clinical and cognitive-behavioural neurofeedback studies (CRED-nf checklist). Brain, 2020, 143, 1674-1685.	7.6	188
13	A Brain-Computer Interface as Input Channel for a Standard Assistive Technology Software. Clinical EEG and Neuroscience, 2011, 42, 236-244.	1.7	181
14	Food cravings discriminate differentially between successful and unsuccessful dieters and non-dieters. Validation of the Food Cravings Questionnaires in German. Appetite, 2012, 58, 88-97.	3.7	176
15	BNCI Horizon 2020: towards a roadmap for the BCI community. Brain-Computer Interfaces, 2015, 2, 1-10.	1.8	169
16	The User-Centered Design as Novel Perspective for Evaluating the Usability of BCI-Controlled Applications. PLoS ONE, 2014, 9, e112392.	2.5	151
17	Predictability of Brain-Computer Communication. Journal of Psychophysiology, 2004, 18, 121-129.	0.7	142
18	Face stimuli effectively prevent brainâ€“computer interface inefficiency in patients with neurodegenerative disease. Clinical Neurophysiology, 2013, 124, 893-900.	1.5	138

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19	A short version of the Food Cravings QuestionnaireÃ¢â‚¬â€Trait: the FCQ-T-reduced. Frontiers in Psychology, 2014, 5, 190.	2.1	135
20	Long-Term Independent Brain-Computer Interface Home Use Improves Quality of Life of a Patient in the Locked-In State: A Case Study. Archives of Physical Medicine and Rehabilitation, 2015, 96, S16-S26.	0.9	134
21	Severity of Depressive Symptoms and Quality of Life in Patients with Amyotrophic Lateral Sclerosis. Neurorehabilitation and Neural Repair, 2005, 19, 182-193.	2.9	133
22	Brain Painting: First Evaluation of a New Brainâ€“Computer Interface Application with ALS-Patients and Healthy Volunteers. Frontiers in Neuroscience, 2010, 4, 182.	2.8	133
23	Toward brain-computer interface based wheelchair control utilizing tactually-evoked event-related potentials. Journal of NeuroEngineering and Rehabilitation, 2014, 11, 7.	4.6	124
24	Comparison of tactile, auditory, and visual modality for brain-computer interface use: a case study with a patient in the locked-in state. Frontiers in Neuroscience, 2013, 7, 129.	2.8	111
25	Food cravings in food addiction: The distinct role of positive reinforcement. Eating Behaviors, 2012, 13, 252-255.	2.0	107
26	Classifying EEG and ECoG signals without subject training for fast BCI implementation: comparison of nonparalyzed and completely paralyzed subjects. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2006, 14, 183-186.	4.9	106
27	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.	6.5	104
28	Brainâ€“computer interfaces for communication with nonresponsive patients. Annals of Neurology, 2012, 72, 312-323.	5.3	100
29	Neural Internet: Web Surfing with Brain Potentials for the Completely Paralyzed. Neurorehabilitation and Neural Repair, 2006, 20, 508-515.	2.9	94
30	Brainâ€“computer interface controlled gaming: Evaluation of usability by severely motor restricted end-users. Artificial Intelligence in Medicine, 2013, 59, 111-120.	6.5	93
31	Proof of Principle of a Brain-Computer Interface Approach to Support Poststroke Arm Rehabilitation in Hospitalized Patients: Design, Acceptability, and Usability. Archives of Physical Medicine and Rehabilitation, 2015, 96, S71-S78.	0.9	84
32	Food cravings mediate the relationship between rigid, but not flexible control of eating behavior and dieting success. Appetite, 2011, 57, 582-584.	3.7	83
33	Differentiating between successful and unsuccessful dieters. Validity and reliability of the Perceived Self-Regulatory Success in Dieting Scale. Appetite, 2012, 58, 822-826.	3.7	83
34	Out of the frying pan into the fireâ€”the P300-based BCI faces real-world challenges. Progress in Brain Research, 2011, 194, 27-46.	1.4	81
35	Women with elevated food addiction symptoms show accelerated reactions, but no impaired inhibitory control, in response to pictures of high-calorie food-cues. Eating Behaviors, 2012, 13, 423-428.	2.0	78
36	The auditory P300-based single-switch brainâ€“computer interface: Paradigm transition from healthy subjects to minimally conscious patients. Artificial Intelligence in Medicine, 2013, 59, 81-90.	6.5	74

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37	Conscious perception of brain states: mental strategies for brainâ€“computer communication. Neuropsychologia, 2003, 41, 1028-1036.	1.6	72
38	Training locked-in patients: a challenge for the use of brain-computer interfaces. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2003, 11, 169-172.	4.9	71
39	Brain-computer interfaces â€" the key for the conscious brain locked into a paralyzed body. Progress in Brain Research, 2005, 150, 513-525.	1.4	71
40	Restrained eating is related to accelerated reaction to high caloric foods and cardiac autonomic dysregulation. Appetite, 2012, 58, 638-644.	3.7	70
41	Motor Imagery for Severely Motor-Impaired Patients: Evidence for Brain-Computer Interfacing as Superior Control Solution. PLoS ONE, 2014, 9, e104854.	2.5	69
42	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.	2.0	65
43	Double trouble. Trait food craving and impulsivity interactively predict food-cue affected behavioral inhibition. Appetite, 2014, 79, 174-182.	3.7	63
44	Wheelchair control by elderly participants in a virtual environment with a brain-computer interface (BCI) and tactile stimulation. Biological Psychology, 2016, 121, 117-124.	2.2	61
45	Heart Rate Variability Biofeedback Reduces Food Cravings in High Food Cravers. Applied Psychophysiology Biofeedback, 2012, 37, 241-251.	1.7	60
46	Spelling is Just a Click Away â€" A User-Centered Brainâ€"Computer Interface Including Auto-Calibration and Predictive Text Entry. Frontiers in Neuroscience, 2012, 6, 72.	2.8	60
47	Prediction of Auditory and Visual P300 Brain-Computer Interface Aptitude. PLoS ONE, 2013, 8, e53513.	2.5	60
48	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.	4.6	59
49	Brainâ€"computer interfaces in the continuum of consciousness. Current Opinion in Neurology, 2007, 20, 643-649.	3.6	58
50	Impulsive reactions to food-cues predict subsequent food craving. Eating Behaviors, 2014, 15, 99-105.	2.0	54
51	Enhanced behavioral inhibition in restrained eaters. Eating Behaviors, 2011, 12, 152-155.	2.0	52
52	The history of BCI: From a vision for the future to real support for personhood in people with locked-in syndrome. Neuroethics, 2020, 13, 163-180.	2.8	50
53	Hybrid P300-Based Brain-Computer Interface to Improve Usability for People With Severe Motor Disability: Electromyographic Signals for Error Correction During a Spelling Task. Archives of Physical Medicine and Rehabilitation, 2015, 96, S54-S61.	0.9	49
54	Rapid P300 brain-computer interface communication with a head-mounted display. Frontiers in Neuroscience, 2015, 9, 207.	2.8	47

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55	Brain-controlled applications using dynamic P300 speller matrices. Artificial Intelligence in Medicine, 2015, 63, 7-17.	6.5	46
56	30+ years of P300 brainâ€“computer interfaces. Psychophysiology, 2020, 57, e13569.	2.4	46
57	High-calorie food-cues impair working memory performance in high and low food cravers. Appetite, 2012, 59, 264-269.	3.7	45
58	Individually Adapted Imagery Improves Brain-Computer Interface Performance in End-Users with Disability. PLoS ONE, 2015, 10, e0123727.	2.5	45
59	Large-Scale Assessment of a Fully Automatic Co-Adaptive Motor Imagery-Based Brain Computer Interface. PLoS ONE, 2016, 11, e0148886.	2.5	45
60	Brain Computer Interface on Track to Home. Scientific World Journal, The, 2015, 2015, 1-17.	2.1	44
61	Toward Independent Home Use of Brain-Computer Interfaces: A Decision Algorithm for Selection of Potential End-Users. Archives of Physical Medicine and Rehabilitation, 2015, 96, S27-S32.	0.9	43
62	Visuo-motor coordination ability predicts performance with brain-computer interfaces controlled by modulation of sensorimotor rhythms (SMR). Frontiers in Human Neuroscience, 2014, 8, 574.	2.0	42
63	Task instructions modulate the attentional mode affecting the auditory MMN and the semantic N400. Frontiers in Human Neuroscience, 2014, 8, 654.	2.0	38
64	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.	2.8	38
65	Workshops of the Fifth International Brain-Computer Interface Meeting: Defining the Future. Brain-Computer Interfaces, 2014, 1, 27-49.	1.8	35
66	Food-cue affected motor response inhibition and self-reported dieting success: a pictorial affective shifting task. Frontiers in Psychology, 2014, 5, 216.	2.1	34
67	Independent home use of Brain Painting improves quality of life of two artists in the locked-in state diagnosed with amyotrophic lateral sclerosis. Brain-Computer Interfaces, 2015, 2, 117-134.	1.8	33
68	Information processing in patients in vegetative and minimally conscious states. Clinical Neurophysiology, 2016, 127, 1395-1402.	1.5	32
69	Psychosocial adjustment to ALS: a longitudinal study. Frontiers in Psychology, 2015, 6, 1197.	2.1	30
70	Facing the challenge: Bringing brainâ€“computer interfaces to end-users. Artificial Intelligence in Medicine, 2013, 59, 55-60.	6.5	27
71	Psychological Factors Influencing Brain-Computer Interface (BCI) Performance. , 2015, , .		25
72	Further Evidence for the JuSt Program as Treatment for Insomnia in Adolescents: Results from a 1-Year Follow-Up Study. Journal of Clinical Sleep Medicine, 2016, 12, 257-262.	2.6	24

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73	Wheelchair Control in a Virtual Environment by Healthy Participants Using a P300-BCI Based on Tactile Stimulation: Training Effects and Usability. Frontiers in Human Neuroscience, 2020, 14, 265.	2.0	23
74	Self-reported dieting success is associated with cardiac autonomic regulation in current dieters. Appetite, 2012, 59, 494-498.	3.7	20
75	A brief intervention utilising visual feedback reduces pain and enhances tactile acuity in CLBP patients. Journal of Back and Musculoskeletal Rehabilitation, 2015, 28, 651-660.	1.1	20
76	The WIN-speller: a new intuitive auditory brain-computer interface spelling application. Frontiers in Neuroscience, 2015, 9, 346.	2.8	20
77	Basic discriminative and semantic processing in patients in the vegetative and minimally conscious state. International Journal of Psychophysiology, 2017, 113, 8-16.	1.0	20
78	Psychological Predictors of Visual and Auditory P300 Brain-Computer Interface Performance. Frontiers in Neuroscience, 2018, 12, 307.	2.8	19
79	A User Centred Approach for Bringing BCI Controlled Applications to End-Users. , 0, , .		18
80	Effects of Background Music on Objective and Subjective Performance Measures in an Auditory BCI. Frontiers in Computational Neuroscience, 2016, 10, 105.	2.1	18
81	Neural mechanisms of training an auditory eventâ€related potential task in a brainâ€“computer interface context. Human Brain Mapping, 2019, 40, 2399-2412.	3.6	18
82	Brain-computer interface based motor and cognitive rehabilitation after stroke â€“ state of the art, opportunity, and barriers: summary of the BCI Meeting 2016 in Asilomar. Brain-Computer Interfaces, 2017, 4, 53-59.	1.8	17
83	Prediction of P300 BCI Aptitude in Severe Motor Impairment. PLoS ONE, 2013, 8, e76148.	2.5	16
84	Cognitive Processing in Non-Communicative Patients: What Can Event-Related Potentials Tell Us?. Frontiers in Human Neuroscience, 2016, 10, 569.	2.0	16
85	The Childrenâ€™s Sleep Comic: Psychometrics of a Self-rating Instrument for Childhood Insomnia. Child Psychiatry and Human Development, 2016, 47, 53-63.	1.9	16
86	Hearing the needs of clinical users. Handbook of Clinical Neurology / Edited By P J Vinken and G W Bruyn, 2020, 168, 353-368.	1.8	16
87	BNCI Horizon 2020 â€“ Towards a Roadmap for Brain/Neural Computer Interaction. Lecture Notes in Computer Science, 2014, , 475-486.	1.3	15
88	Modulation of slow cortical potentials by transcranial magnetic stimulation in humans. Neuroscience Letters, 2002, 324, 205-208.	2.1	14
89	Implicit and explicit reward learning in chronic nicotine use. Drug and Alcohol Dependence, 2013, 129, 8-17.	3.2	13
90	Brain-computer interfacing: science fiction has come true. Brain, 2013, 136, 2001-2004.	7.6	13

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91	Mental imagery for brain-computer interface control and communication in non-responsive individuals. Annals of Physical and Rehabilitation Medicine, 2020, 63, 21-27.	2.3	13
92	Brainâ€“Computer Interface Based Solutions for End-Users with Severe Communication Disorders. , 2016, , 217-240.		10
93	A Tactile Brain-Computer Interface for Virtual Wheelchair Control at Home. , 2021, , .		10
94	Studentized continuous wavelet transform (t-CWT) in the analysis of individual ERPs: real and simulated EEG data. Frontiers in Neuroscience, 2014, 8, 279.	2.8	10
95	A Pilot Study on the Effects of Slow Paced Breathing on Current Food Craving. Applied Psychophysiology Biofeedback, 2017, 42, 59-68.	1.7	9
96	Ethical Principles in Patient-Centered Medical Care to Support Quality of Life in Amyotrophic Lateral Sclerosis. Frontiers in Neurology, 2019, 10, 259.	2.4	9
97	Turning negative into positives! Exploiting â€˜negativeâ€™ results in Brainâ€“Machine Interface (BMI) research. Brain-Computer Interfaces, 2019, 6, 178-189.	1.8	9
98	User-centred design in brainâ€“computer interface research and development. Annals of Physical and Rehabilitation Medicine, 2015, 58, 312-314.	2.3	8
99	Using Brain Painting at Home for 5 Years: Stability of the P300 During Prolonged BCI Usage by Two End-Users with ALS. Lecture Notes in Computer Science, 2017, , 282-292.	1.3	8
100	Circadian course of the P300 ERP in patients with amyotrophic lateral sclerosis - implications for brain-computer interfaces (BCI). BMC Neurology, 2017, 17, 3.	1.8	7
101	Quo vadis P300 BCI?. , 2017, , .		7
102	The influence of motivation and emotion on sensorimotor rhythmâ€based brainâ€“computer interface performance. Psychophysiology, 2021, 58, e13832.	2.4	6
103	Effects of Chronotype and Synchrony/Asynchrony on Creativity. Journal of Individual Differences, 2015, 36, 131-137.	1.0	6
104	A comparison of implicit and explicit reward learning in low risk alcohol users versus people who binge drink and people with alcohol dependence. Addictive Behaviors Reports, 2019, 9, 100178.	1.9	5
105	Well-being in amyotrophic lateral sclerosis: a pilot experience sampling study. Frontiers in Psychology, 2014, 5, 704.	2.1	4
106	The Relationship Between Valence, Task Difficulty, and the COMT Val ¹⁵⁸ Met Polymorphism in Disengagement Processes. Journal of Psychophysiology, 2012, 26, 124-131.	0.7	4
107	High performance with tactile P300 BCIs. , 2016, , .		3
108	The Making of Brain Paintingâ€”From the Idea to Daily Life Use by People in the Locked-in State. , 2019, , 409-431.		3

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109	External Validity of the Multicomponent Group Treatment KiSS for School-Aged Children With Insomnia. Behavioral Sleep Medicine, 2020, 18, 147-162.	2.1	3
110	Imagining the P300 Speller: Good idea or nonsense?. , 2019, , .		2
111	Applicability and validity of the Amnestic Comparative Self-Assessment in adolescents. Health Psychology Research, 2013, 1, 8.	1.4	1
112	Reliable predictors of SMR BCI performance â€" Do they exist?. , 2018, , .		1
113	Reducing stimulation intensity in a visual ERP BCI to approach gaze-independent spelling. , 2020, , .		1
114	P300 BCI for Persons with Spinal Cord Injury: A BCI in Search of an Application?. , 2021, , 193-216.		1
115	Editorial: Datasets for Brain-Computer Interface Applications. Frontiers in Neuroscience, 2021, 15, 732165.	2.8	0