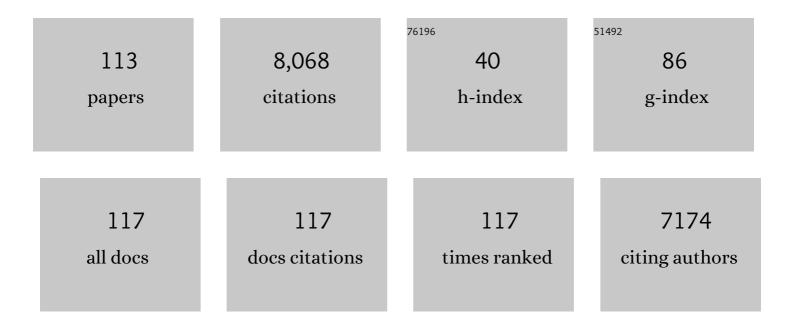
Niels Birbaumer

List of Publications by Year in descending order

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NIELS RIDBALIMED

#	Article	IF	CITATIONS
1	Brain–machine interface in chronic stroke rehabilitation: A controlled study. Annals of Neurology, 2013, 74, 100-108.	2.8	754
2	Deficient Fear Conditioning in Psychopathy. Archives of General Psychiatry, 2005, 62, 799.	13.8	625
3	Brain-computer interfaces: communication and restoration of movement in paralysis. Journal of Physiology, 2007, 579, 621-636.	1.3	597
4	Brain–computer interfaces for communication and rehabilitation. Nature Reviews Neurology, 2016, 12, 513-525.	4.9	559
5	Breaking the silence: Brain?computer interfaces (BCI) for communication and motor control. Psychophysiology, 2006, 43, 517-532.	1.2	534
6	Brain–machine interfaces in neurorehabilitation of stroke. Neurobiology of Disease, 2015, 83, 172-179.	2.1	256
7	Brain–computer interface in paralysis. Current Opinion in Neurology, 2008, 21, 634-638.	1.8	221
8	Learned regulation of brain metabolism. Trends in Cognitive Sciences, 2013, 17, 295-302.	4.0	195
9	Consensus on the reporting and experimental design of clinical and cognitive-behavioural neurofeedback studies (CRED-nf checklist). Brain, 2020, 143, 1674-1685.	3.7	188
10	Aversive Pavlovian conditioning in psychopaths: Peripheral and central correlates. Psychophysiology, 2002, 39, 505-518.	1.2	179
11	Brain–Computer Interface–Based Communication in the Completely Locked-In State. PLoS Biology, 2017, 15, e1002593.	2.6	176
12	Real-time fMRI feedback training may improve chronic tinnitus. European Radiology, 2010, 20, 696-703.	2.3	159
13	The thought-translation device (TTD): neurobehavioral mechanisms and clinical outcome. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2003, 11, 120-123.	2.7	148
14	Real-time fMRI brain computer interfaces: Self-regulation of single brain regions to networks. Biological Psychology, 2014, 95, 4-20.	1.1	147
15	Mapping entrained brain oscillations during transcranial alternating current stimulation (tACS). NeuroImage, 2016, 140, 89-98.	2.1	144
16	Predictability of Brain-Computer Communication. Journal of Psychophysiology, 2004, 18, 121-129.	0.3	142
17	Recognition of Point-Light Biological Motion Displays by Young Children. Perception, 2001, 30, 925-933.	0.5	122
18	Chapter 8 Neurofeedback and Brain–Computer Interface. International Review of Neurobiology, 2009, 86, 107-117.	0.9	122

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19	Alcohol Affects Emotion Through Cognition. Psychological Science, 2001, 12, 527-531.	1.8	120
20	The cortical somatotopic map and phantom phenomena in subjects with congenital limb atrophy and traumatic amputees with phantom limb pain. European Journal of Neuroscience, 1998, 10, 1095-1102.	1.2	115
21	Brain communication in a completely locked-in patient using bedside near-infrared spectroscopy. Neurology, 2014, 82, 1930-1932.	1.5	115
22	Manipulating motor performance and memory through real-time fMRI neurofeedback. Biological Psychology, 2015, 108, 85-97.	1.1	97
23	Improving Motor Corticothalamic Communication After Stroke Using Real-Time fMRI Connectivity-Based Neurofeedback. Neurorehabilitation and Neural Repair, 2016, 30, 671-675.	1.4	89
24	Semantic Memory Impairment in Alzheimer's Disease. Journal of Clinical and Experimental Neuropsychology, 1996, 18, 648-665.	0.8	79
25	Physiological regulation of thinking: brain–computer interface (BCI) research. Progress in Brain Research, 2006, 159, 369-391.	0.9	79
26	Cortical correlates of semantic classical conditioning. Psychophysiology, 1996, 33, 644-649.	1.2	76
27	Lower Limb Movement Preparation in Chronic Stroke. Neurorehabilitation and Neural Repair, 2014, 28, 564-575.	1.4	75
28	Aversive Pavlovian conditioning in psychopaths: Peripheral and central correlates. , 2002, 39, 505.		70
29	Brain oscillatory signatures of motor tasks. Journal of Neurophysiology, 2015, 113, 3663-3682.	0.9	69
30	Short-term effects of behavioral treatment on movement initiation and postural control in Parkinson's disease: A controlled clinical study. Movement Disorders, 1997, 12, 306-314.	2.2	66
31	Volitional regulation of brain responses to food stimuli in overweight and obese subjects: A real-time fMRI feedback study. Appetite, 2017, 112, 188-195.	1.8	66
32	Brain-Machine Interface in Chronic Stroke: Randomized Trial Long-Term Follow-up. Neurorehabilitation and Neural Repair, 2019, 33, 188-198.	1.4	61
33	Real-time fMRI neurofeedback training to improve eating behavior by self-regulation of the dorsolateral prefrontal cortex: A randomized controlled trial in overweight and obese subjects. NeuroImage, 2019, 191, 596-609.	2.1	58
34	Spelling interface using intracortical signals in a completely locked-in patient enabled via auditory neurofeedback training. Nature Communications, 2022, 13, 1236.	5.8	54
35	The distribution of mislocalizations across fingers demonstrates training-induced neuroplastic changes in somatosensory cortex. Experimental Brain Research, 2001, 139, 435-442.	0.7	53
36	Direct Brain Control and Communication in Paralysis. Brain Topography, 2014, 27, 4-11.	0.8	52

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37	Auditory habituation in the fetus and neonate: an fMEG study. Developmental Science, 2013, 16, 287-295.	1.3	50
38	Enhancing Hebbian Learning to Control Brain Oscillatory Activity. Cerebral Cortex, 2015, 25, 2409-2415.	1.6	49
39	Voxel-based morphometry in opera singers: Increased gray-matter volume in right somatosensory and auditory cortices. NeuroImage, 2016, 133, 477-483.	2.1	47
40	Brain self-regulation in criminal psychopaths. Scientific Reports, 2015, 5, 9426.	1.6	46
41	Neurophysiological correlates of mental arithmetic. Psychophysiology, 1996, 33, 522-529.	1.2	45
42	Neuropsychological and neurophysiological aspects of brainâ€computerâ€interface (BCI) control in paralysis. Journal of Physiology, 2021, 599, 2351-2359.	1.3	45
43	Investigation of brain dynamics in Parkinson's disease by methods derived from nonlinear dynamics. Experimental Brain Research, 2001, 137, 103-110.	0.7	43
44	Motor Learning: Passing a Skill from One Hand to the Other. Current Biology, 2007, 17, R1024-R1026.	1.8	43
45	Category-specific semantic impairment in Alzheimer's disease and temporal lobe dysfunction: A comparative study. Journal of Clinical and Experimental Neuropsychology, 1994, 16, 689-701.	0.8	41
46	Ideomotor silence: the case of complete paralysis and brain–computer interfaces (BCI). Psychological Research, 2012, 76, 183-191.	1.0	41
47	Cortex Integrity Relevance in Muscle Synergies in Severe Chronic Stroke. Frontiers in Human Neuroscience, 2014, 8, 744.	1.0	41
48	Cerebral processing of words and the development of chronic pain. Psychophysiology, 1997, 34, 474-481.	1.2	40
49	Pavlovian aversive and appetitive odor conditioning in humans: subjective, peripheral, and electrocortical changes. Experimental Brain Research, 2000, 132, 203-215.	0.7	40
50	Slow potentials, event-related potentials, ?gamma-band? activity, and motor responses during aversive conditioning in humans. Experimental Brain Research, 1996, 112, 298-312.	0.7	39
51	Decoding upper limb residual muscle activity in severe chronic stroke. Annals of Clinical and Translational Neurology, 2015, 2, 1-11.	1.7	38
52	Brain oscillatory activity as a biomarker of motor recovery in chronic stroke. Human Brain Mapping, 2020, 41, 1296-1308.	1.9	37
53	Learned self-regulation of the lesioned brain with epidural electrocorticography. Frontiers in Behavioral Neuroscience, 2014, 8, 429.	1.0	36
54	Self-Regulation of Anterior Insula with Real-Time fMRI and Its Behavioral Effects in Obsessive-Compulsive Disorder: A Feasibility Study. PLoS ONE, 2015, 10, e0135872.	1.1	33

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55	Simultaneous transcranial direct current stimulation (tDCS) and whole-head magnetoencephalography (MEG): assessing the impact of tDCS on slow cortical magnetic fields. NeuroImage, 2016, 140, 33-40.	2.1	30
56	Event-related desynchronization during movement attempt and execution in severely paralyzed stroke patients: An artifact removal relevance analysis. NeuroImage: Clinical, 2018, 20, 972-986.	1.4	30
57	Learned maintenance of pain: Muscle tension reduces central nervous system processing of painful stimulation in chronic and subchronic pain patients. Psychophysiology, 1999, 36, 755-764.	1.2	28
58	Differential effects of aging on explicit and implicit memory. Aging, Neuropsychology, and Cognition, 1997, 4, 33-44.	0.7	26
59	Deficient discrimination of EMG levels and overestimation of perceived tension in chronic pain patients. Applied Psychophysiology Biofeedback, 1999, 24, 55-66.	1.0	26
60	Perception of Emotional Facial Expressions in Amyotrophic Lateral Sclerosis (ALS) at Behavioural and Brain Metabolic Level. PLoS ONE, 2016, 11, e0164655.	1.1	26
61	Epidural electrocorticography of phantom hand movement following long-term upper-limb amputation. Frontiers in Human Neuroscience, 2014, 8, 285.	1.0	22
62	EMG-based multi-joint kinematics decoding for robot-aided rehabilitation therapies. , 2015, , .		22
63	Magnetoencephalography in Stroke Recovery and Rehabilitation. Frontiers in Neurology, 2016, 7, 35.	1.1	20
64	Residual Upper Arm Motor Function Primes Innervation of Paretic Forearm Muscles in Chronic Stroke after Brain-Machine Interface (BMI) Training. PLoS ONE, 2015, 10, e0140161.	1.1	20
65	Myofascial triggerpoint release (MTR) for treating chronic shoulder pain: A novel approach. Journal of Bodywork and Movement Therapies, 2016, 20, 614-622.	0.5	19
66	Functional synergy recruitment index as a reliable biomarker of motor function and recovery in chronic stroke patients. Journal of Neural Engineering, 2021, 18, 046061.	1.8	18
67	Simultaneous epidural functional near-infrared spectroscopy and cortical electrophysiology as a tool for studying local neurovascular coupling in primates. NeuroImage, 2015, 120, 394-399.	2.1	17
68	Pain reduction due to novel sensory-motor training in Complex Regional Pain Syndrome I – A pilot study. Scandinavian Journal of Pain, 2017, 15, 30-37.	0.5	17
69	Changes in EEG power spectra during biofeedback of slow cortical potentials in epilepsy. Applied Psychophysiology Biofeedback, 1999, 24, 213-233.	1.0	16
70	Auditory Electrooculogram-based Communication System for ALS Patients in Transition from Locked-in to Complete Locked-in State. Scientific Reports, 2020, 10, 8452.	1.6	16
71	Direct brain communication: neuroelectric and metabolic approaches at Ti¿½bingen. Cognitive Processing, 2005, 6, 65-74.	0.7	14
72	Movement-related brain oscillations vary with lesion location in severely paralyzed chronic stroke patients. , 2017, 2017, 1664-1667.		14

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73	Intermittent theta burst stimulation over right somatosensory larynx cortex enhances vocal pitchâ€regulation in nonsingers. Human Brain Mapping, 2019, 40, 2174-2187.	1.9	14
74	Semantic and BCI-performance in completely paralyzed patients: Possibility of language attrition in completely locked in syndrome. Brain and Language, 2019, 194, 93-97.	0.8	14
75	Real-Time Subject-Independent Pattern Classification of Overt and Covert Movements from fNIRS Signals. PLoS ONE, 2016, 11, e0159959.	1.1	14
76	Psychophysiological treatment of chronic tinnitus: A review. Clinical Psychology and Psychotherapy, 2022, 29, 1236-1253.	1.4	14
77	Sleep in the completely locked-in state (CLIS) in amyotrophic lateral sclerosis. Sleep, 2019, 42, .	0.6	13
78	Design and effectiveness evaluation of mirror myoelectric interfaces: a novel method to restore movement in hemiplegic patients. Scientific Reports, 2018, 8, 16688.	1.6	11
79	Open Software/Hardware Platform for Human-Computer Interface Based on Electrooculography (EOG) Signal Classification. Sensors, 2020, 20, 2443.	2.1	11
80	A dataset of EEG and EOG from an auditory EOG-based communication system for patients in locked-in state. Scientific Data, 2021, 8, 8.	2.4	11
81	Learning from brain control: clinical application of brain–computer interfaces. E-Neuroforum, 2015, 6, 87-95.	0.2	10
82	EEG power spectral density in locked-in and completely locked-in state patients: a longitudinal study. Cognitive Neurodynamics, 2021, 15, 473-480.	2.3	10
83	Brain Computer Interfaces for Assisted Communication in Paralysis and Quality of Life. International Journal of Neural Systems, 2021, 31, 2130003.	3.2	10
84	Epidural electrocorticography for monitoring of arousal in locked-in state. Frontiers in Human Neuroscience, 2014, 8, 861.	1.0	8
85	Neurophysiological aspects of the completely locked-in syndrome in patients with advanced amyotrophic lateral sclerosis. Clinical Neurophysiology, 2021, 132, 1064-1076.	0.7	8
86	BRAIN-COMPUTER INTERFACES FOR VERBAL COMMUNICATION. Series on Bioengineering and Biomedical Engineering, 2004, , 1146-1157.	0.1	8
87	A new hand assessment instrument for severely affected stroke patients. NeuroRehabilitation, 2014, 34, 409-427.	0.5	7
88	Neural mechanisms of savant calendar calculating in autism: An MEG-study of few single cases. Brain and Cognition, 2014, 90, 157-164.	0.8	7
89	Applied psychophysiology and learned physiological regulation. Applied Psychophysiology Biofeedback, 1999, 24, 35-37.	1.0	6
90	On the extraction of purely motor EEG neural correlates during an upper limb visuomotor task. Cerebral Cortex, 2022, 32, 4243-4254.	1.6	6

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91	Sensorimotor rhythm modulation depends on resting-state oscillations and cortex integrity in severely paralyzed stroke patients. , 2019, , .		5
92	Balancing the brain of offenders with psychopathy? Resting state EEG and electrodermal activity after a pilot study of brain self-regulation training. PLoS ONE, 2021, 16, e0242830.	1.1	5
93	A 20-Questions-Based Binary Spelling Interface for Communication Systems. Brain Sciences, 2018, 8, 126.	1.1	4
94	The physiology of brain-computer interfaces. Journal of Physiology, 2007, 579, 570-570.	1.3	3
95	For distinguished contributions to psychophysiology: Robert M. Stern. Psychophysiology, 2007, 44, 1.	1.2	3
96	Memory: Reconsolidation Allows Modification of Motor Memories. Current Biology, 2010, 20, R709-R710.	1.8	3
97	A useful communication in brain-computer interfaces. Neurology, 2018, 91, 109-110.	1.5	3
98	Self-Myofascial Vibro-Shearing: a Randomized Controlled Trial of Biomechanical and Related Changes in Male Breakdancers. Sports Medicine - Open, 2018, 4, 13.	1.3	3
99	Spatial characteristics of spontaneous and stimulus-induced individual functional connectivity networks in severe disorders of consciousness. Brain and Cognition, 2019, 131, 10-21.	0.8	3
100	Real-time monitoring and regulating auditory cortex alpha activity in patients with chronic tinnitus. Journal of Neural Engineering, 2020, 17, 016032.	1.8	3
101	Learned maintenance of pain: Muscle tension reduces central nervous system processing of painful stimulation in chronic and subchronic pain patients. , 1999, 36, 755.		3
102	A leg to stand on: Learning creates pain. Behavioral and Brain Sciences, 1997, 20, 441-442.	0.4	2
103	Phantom limb pain: a report of two cases. European Journal of Pain, 2001, 5, 449-455.	1.4	2
104	Habit learning and brain–machine interfaces (BMI): a tribute to Valentino Braitenberg's "Vehicles― Biological Cybernetics, 2014, 108, 595-601.	0.6	2
105	Communication in locked-in state after brainstem stroke: a brain-computer-interface approach. Annals of Translational Medicine, 2015, 3, S29.	0.7	2
106	Neural Signatures of Modified Memories. Neuron, 2014, 81, 3-5.	3.8	1
107	Longitudinal Analysis of the Connectivity and Complexity of Complete Locked-in Syndrome Patients Electroencephalographic signal. , 2020, , .		1
108	Affective Cortical Asymmetry at the Early Developmental Emergence of Emotional Expression. ENeuro, 2020, 7, ENEURO.0042-20.2020.	0.9	1

#	Article	IF	CITATIONS
109	Title is missing!. Applied Psychophysiology Biofeedback, 2001, 26, 331-331.	1.0	Ο
110	Human motor behaviour and neuroprosthesis control. Cognitive Processing, 2005, 6, 1-2.	0.7	0
111	Tom Budzynski: The Hero of Neurofeedback. Biofeedback, 2011, 39, 146-147.	0.3	Ο
112	Binary Semantic Classification Using Cortical Activation with Pavlovian-Conditioned Vestibular Responses in Healthy and Locked-In Individuals. Cerebral Cortex Communications, 2021, 2, tgab046.	0.7	0
113	Editorial: The Classification of Thoughts and IJNS. International Journal of Neural Systems, 2021, 31, 2103011.	3.2	0