Mads Jochumsen

List of Publications by Year
in descending order

63 papers	1,326 citations	430874 18 h-index	395702 33 g-index
66 all docs	66 docs citations	66 times ranked	1193 citing authors

#	Article	IF	Citations
1	Multiday EMG-Based Classification of Hand Motions with Deep Learning Techniques. Sensors, 2018, 18, 2497.	3.8	146
2	Detection and classification of movement-related cortical potentials associated with task force and speed. Journal of Neural Engineering, 2013, 10, 056015.	3.5	98
3	A Review of Techniques for Detection of Movement Intention Using Movement-Related Cortical Potentials. Computational and Mathematical Methods in Medicine, 2015, 2015, 1-13.	1.3	91
4	Detection of movement-related cortical potentials based on subject-independent training. Medical and Biological Engineering and Computing, 2013, 51, 507-512.	2.8	75
5	Detecting and classifying movement-related cortical potentials associated with hand movements in healthy subjects and stroke patients from single-electrode, single-trial EEG. Journal of Neural Engineering, 2015, 12, 056013.	3.5	70
6	Detecting and classifying three different hand movement types through electroencephalography recordings for neurorehabilitation. Medical and Biological Engineering and Computing, 2016, 54, 1491-1501.	2.8	60
7	Xbox 360 Kinect Cognitive Games Improve Slowness, Complexity of EEG, and Cognitive Functions in Subjects with Mild Cognitive Impairment: A Randomized Control Trial. Games for Health Journal, 2019, 8, 144-152.	2.0	51
8	Comparison of spatial filters and features for the detection and classification of movement-related cortical potentials in healthy individuals and stroke patients. Journal of Neural Engineering, 2015, 12, 056003.	3.5	47
9	Manipulation of Dysfunctional Spinal Joints Affects Sensorimotor Integration in the Prefrontal Cortex: A Brain Source Localization Study. Neural Plasticity, 2016, 2016, 1-9.	2.2	47
10	The effect of arm position on classification of hand gestures with intramuscular EMG. Biomedical Signal Processing and Control, 2018, 43, 1-8.	5.7	44
11	Impact of Spinal Manipulation on Cortical Drive to Upper and Lower Limb Muscles. Brain Sciences, 2017, 7, 2.	2.3	37
12	Therapeutic effects of aerobic exercise on EEG parameters and higher cognitive functions in mild cognitive impairment patients. International Journal of Neuroscience, 2019, 129, 551-562.	1.6	37
13	Upper limb complex movements decoding from pre-movement EEG signals using wavelet common spatial patterns. Computer Methods and Programs in Biomedicine, 2020, 183, 105076.	4.7	35
14	Quantification of Movement-Related EEG Correlates Associated with Motor Training: A Study on Movement-Related Cortical Potentials and Sensorimotor Rhythms. Frontiers in Human Neuroscience, 2017, 11, 604.	2.0	29
15	Pairing Voluntary Movement and Muscle-Located Electrical Stimulation Increases Cortical Excitability. Frontiers in Human Neuroscience, 2016, 10, 482.	2.0	26
16	Comparison of Features for Movement Prediction from Single-Trial Movement-Related Cortical Potentials in Healthy Subjects and Stroke Patients. Computational Intelligence and Neuroscience, 2015, 2015, 1-8.	1.7	22
17	EMG- Versus EEG-Triggered Electrical Stimulation for Inducing Corticospinal Plasticity. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2019, 27, 1901-1908.	4.9	22
18	Online multi-class brain-computer interface for detection and classification of lower limb movement intentions and kinetics for stroke rehabilitation. Brain-Computer Interfaces, 2015, 2, 202-210.	1.8	20

#	Article	IF	Citations
19	Paired Associative Stimulation Delivered by Pairing Movement-Related Cortical Potentials With Peripheral Electrical Stimulation: An Investigation of the Duration of Neuromodulatory Effects. Neuromodulation, 2018, 21, 362-367.	0.8	20
20	Evaluation of EEG Headset Mounting for Brain-Computer Interface-Based Stroke Rehabilitation by Patients, Therapists, and Relatives. Frontiers in Human Neuroscience, 2020, 14, 13.	2.0	20
21	Self-Paced Online vs. Cue-Based Offline Brain–Computer Interfaces for Inducing Neural Plasticity. Brain Sciences, 2019, 9, 127.	2.3	17
22	Investigation of Optimal Afferent Feedback Modality for Inducing Neural Plasticity with A Self-Paced Brain-Computer Interface. Sensors, 2018, 18, 3761.	3.8	16
23	Movement intention detection in adolescents with cerebral palsy from single-trial EEG. Journal of Neural Engineering, 2018, 15, 066030.	3.5	16
24	Chiropractic spinal manipulation alters TMS induced I-wave excitability and shortens the cortical silent period. Journal of Electromyography and Kinesiology, 2018, 42, 24-35.	1.7	16
25	A Tensor-Based Method for Completion of Missing Electromyography Data. IEEE Access, 2019, 7, 104710-104720.	4.2	15
26	EEG Headset Evaluation for Detection of Single-Trial Movement Intention for Brain-Computer Interfaces. Sensors, 2020, 20, 2804.	3.8	15
27	Peripheral Electrical Stimulation Paired With Movement-Related Cortical Potentials Improves Isometric Muscle Strength and Voluntary Activation Following Stroke. Frontiers in Human Neuroscience, 2020, 14, 156.	2.0	15
28	Decoding Attempted Hand Movements in Stroke Patients Using Surface Electromyography. Sensors, 2020, 20, 6763.	3.8	14
29	Continuous 2D control via state-machine triggered by endogenous sensory discrimination and a fast brain switch. Journal of Neural Engineering, 2019, 16, 056001.	3.5	13
30	Classification of error-related potentials from single-trial EEG in association with executed and imagined movements: a feature and classifier investigation. Medical and Biological Engineering and Computing, 2020, 58, 2699-2710.	2.8	13
31	Classification of Hand Grasp Kinetics and Types Using Movement-Related Cortical Potentials and EEG Rhythms. Computational Intelligence and Neuroscience, 2017, 2017, 1-8.	1.7	12
32	A Multiday Evaluation of Real-Time Intramuscular EMG Usability with ANN. Sensors, 2020, 20, 3385.	3.8	12
33	Induction of Neural Plasticity Using a Low-Cost Open Source Brain-Computer Interface and a 3D-Printed Wrist Exoskeleton. Sensors, 2021, 21, 572.	3.8	12
34	Effect of subject training on a movement-related cortical potential-based brain-computer interface. Biomedical Signal Processing and Control, 2018, 41, 63-68.	5.7	11
35	Automated Labeling of Movement- Related Cortical Potentials Using Segmented Regression. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2019, 27, 1282-1291.	4.9	10
36	Detection and classification of single-trial movement-related cortical potentials associated with functional lower limb movements. Journal of Neural Engineering, 2020, 17, 035009.	3.5	10

#	Article	IF	Citations
37	Evaluation of windowing techniques for intramuscular EMG-based diagnostic, rehabilitative and assistive devices. Journal of Neural Engineering, 2021, 18, 016017.	3.5	10
38	Electroencephalographic Recording of the Movement-Related Cortical Potential in Ecologically Valid Movements: A Scoping Review. Frontiers in Neuroscience, 2021, 15, 721387.	2.8	10
39	Induction of Long-term Depression-like Plasticity by Pairings of Motor Imagination and Peripheral Electrical Stimulation. Frontiers in Human Neuroscience, 2015, 9, 644.	2.0	9
40	Feature and Classification Analysis for Detection and Classification of Tongue Movements From Single-Trial Pre-Movement EEG. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2022, 30, 678-687.	4.9	9
41	â€œMine Works Betterâ€: Examining the Influence of Embodiment in Virtual Reality on the Sense of Agency During a Binary Motor Imagery Task With a Brain-Computer Interface. Frontiers in Psychology, 2021, 12, 806424.	2.1	9
42	Detection and classification of tongue movements from single-trial EEG. , 2020, , .		8
43	Detection of Error-Related Potentials in Stroke Patients from EEG Using an Artificial Neural Network. Sensors, 2021, 21, 6274.	3.8	7
44	Detection of Movement Intentions through a Single Channel of Electroencephalography. Biosystems and Biorobotics, 2014, , 465-472.	0.3	6
45	Associative cued asynchronous <scp>BCI</scp> induces cortical plasticity in stroke patients. Annals of Clinical and Translational Neurology, 2022, 9, 722-733.	3.7	6
46	Decoding kinetic features of hand motor preparation from singleâ€trial EEG using convolutional neural networks. European Journal of Neuroscience, 2021, 53, 556-570.	2.6	5
47	Investigating the feasibility of combining EEG and EMG for controlling a hybrid human computer interface in patients with spinal cord injury. , 2020, , .		4
48	Performance of Combined Surface and Intramuscular EMG for Classification of Hand Movements. , 2018, 2018, 5220-5223.		3
49	Investigating the Intervention Parameters of Endogenous Paired Associative Stimulation (ePAS). Brain Sciences, 2021, 11, 224.	2.3	3
50	Decoding of Ankle Joint Movements in Stroke Patients Using Surface Electromyography. Sensors, 2021, 21, 1575.	3.8	3
51	The Danish Future Patient Telerehabilitation Program for Patients With Atrial Fibrillation: Design and Pilot Study in Collaboration With Patients and Their Spouses. JMIR Cardio, 2021, 5, e27321.	1.7	3
52	Modulating Frustration and Agency Using Fabricated Input for Motor Imagery BCIs in Stroke Rehabilitation. IEEE Access, 2022, 10, 72312-72327.	4.2	3
53	Single-Trial Classification of Error-Related Potentials in People with Motor Disabilities: A Study in Cerebral Palsy, Stroke, and Amputees. Sensors, 2022, 22, 1676.	3.8	2
54	Scalable tensor factorization for recovering multiday missing intramuscular electromyography data. Journal of Intelligent and Fuzzy Systems, 2022, 43, 1177-1187.	1.4	2

#	Article	IF	Citations
55	Improved Detection and Force Decoding through Combined Near-Infrared Spectroscopy and Electroencephalographic Measurements. Biosystems and Biorobotics, 2014, , 411-419.	0.3	1
56	Chiropractic, Cortical Excitability and BCI. Biosystems and Biorobotics, 2014, , 121-125.	0.3	1
57	An empirical study to remove noise from single-trial MRCP for movement intention detection. , 2015, , .		1
58	Manual 3D Control of an Assistive Robotic Manipulator Using Alpha Rhythms and an Auditory Menu: A Proof-of-Concept. Signals, 2022, 3, 396-409.	1.9	1
59	Universal Matched-Filter Template Versus Individualized Template for Single Trial Detection of Movement Intentions of Different Tasks. Smart Innovation, Systems and Technologies, 2016, , 275-282.	0.6	0
60	Detection of Attempted Stroke Hand Motions from Surface EMG. Biosystems and Biorobotics, 2022, , 47-52.	0.3	0
61	Subject-Independent Detection of Movement-Related Cortical Potentials and Classifier Adaptation from Single-Channel EEG. Biosystems and Biorobotics, 2022, , 77-81.	0.3	0
62	Use of Empirical Mode Decomposition for Classification of MRCP Based Task Parameters. Lecture Notes in Computer Science, 2014, , 77-84.	1.3	0
63	Modeling and Control of Rehabilitation Robotic Device: motoBOTTE. Biosystems and Biorobotics, 2019, , 546-550.	0.3	0