

Mads Jochumsen

List of Publications by Year in descending order

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63
papers

1,326
citations

430874

18
h-index

395702

33
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66
all docs

66
docs citations

66
times ranked

1193
citing authors

#	ARTICLE	IF	CITATIONS
1	Detection of Attempted Stroke Hand Motions from Surface EMG. Biosystems and Biorobotics, 2022, , 47-52.	0.3	0
2	Subject-Independent Detection of Movement-Related Cortical Potentials and Classifier Adaptation from Single-Channel EEG. Biosystems and Biorobotics, 2022, , 77-81.	0.3	0
3	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
4	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
5	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
6	Scalable tensor factorization for recovering multiday missing intramuscular electromyography data. Journal of Intelligent and Fuzzy Systems, 2022, 43, 1177-1187.	1.4	2
7	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
8	Modulating Frustration and Agency Using Fabricated Input for Motor Imagery BCIs in Stroke Rehabilitation. IEEE Access, 2022, 10, 72312-72327.	4.2	3
9	Decoding kinetic features of hand motor preparation from single-trial EEG using convolutional neural networks. European Journal of Neuroscience, 2021, 53, 556-570.	2.6	5
10	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
11	Investigating the Intervention Parameters of Endogenous Paired Associative Stimulation (ePAS). Brain Sciences, 2021, 11, 224.	2.3	3
12	Decoding of Ankle Joint Movements in Stroke Patients Using Surface Electromyography. Sensors, 2021, 21, 1575.	3.8	3
13	Evaluation of windowing techniques for intramuscular EMG-based diagnostic, rehabilitative and assistive devices. Journal of Neural Engineering, 2021, 18, 016017.	3.5	10
14	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
15	Detection of Error-Related Potentials in Stroke Patients from EEG Using an Artificial Neural Network. Sensors, 2021, 21, 6274.	3.8	7
16	Electroencephalographic Recording of the Movement-Related Cortical Potential in Ecologically Valid Movements: A Scoping Review. Frontiers in Neuroscience, 2021, 15, 721387.	2.8	10
17	“Mine Works Better”: 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
18	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

#	ARTICLE	IF	CITATIONS
19	Decoding Attempted Hand Movements in Stroke Patients Using Surface Electromyography. <i>Sensors</i> , 2020, 20, 6763.	3.8	14
20	Classification of error-related potentials from single-trial EEG in association with executed and imagined movements: a feature and classifier investigation. <i>Medical and Biological Engineering and Computing</i> , 2020, 58, 2699-2710.	2.8	13
21	EEG Headset Evaluation for Detection of Single-Trial Movement Intention for Brain-Computer Interfaces. <i>Sensors</i> , 2020, 20, 2804.	3.8	15
22	Peripheral Electrical Stimulation Paired With Movement-Related Cortical Potentials Improves Isometric Muscle Strength and Voluntary Activation Following Stroke. <i>Frontiers in Human Neuroscience</i> , 2020, 14, 156.	2.0	15
23	A Multiday Evaluation of Real-Time Intramuscular EMG Usability with ANN. <i>Sensors</i> , 2020, 20, 3385.	3.8	12
24	Detection and classification of single-trial movement-related cortical potentials associated with functional lower limb movements. <i>Journal of Neural Engineering</i> , 2020, 17, 035009.	3.5	10
25	Evaluation of EEG Headset Mounting for Brain-Computer Interface-Based Stroke Rehabilitation by Patients, Therapists, and Relatives. <i>Frontiers in Human Neuroscience</i> , 2020, 14, 13.	2.0	20
26	Detection and classification of tongue movements from single-trial EEG. , 2020, , .		8
27	Investigating the feasibility of combining EEG and EMG for controlling a hybrid human computer interface in patients with spinal cord injury. , 2020, , .		4
28	EMG- Versus EEG-Triggered Electrical Stimulation for Inducing Corticospinal Plasticity. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2019, 27, 1901-1908.	4.9	22
29	Automated Labeling of Movement- Related Cortical Potentials Using Segmented Regression. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2019, 27, 1282-1291.	4.9	10
30	A Tensor-Based Method for Completion of Missing Electromyography Data. <i>IEEE Access</i> , 2019, 7, 104710-104720.	4.2	15
31	Self-Paced Online vs. Cue-Based Offline Brain-Computer Interfaces for Inducing Neural Plasticity. <i>Brain Sciences</i> , 2019, 9, 127.	2.3	17
32	Continuous 2D control via state-machine triggered by endogenous sensory discrimination and a fast brain switch. <i>Journal of Neural Engineering</i> , 2019, 16, 056001.	3.5	13
33	Therapeutic effects of aerobic exercise on EEG parameters and higher cognitive functions in mild cognitive impairment patients. <i>International Journal of Neuroscience</i> , 2019, 129, 551-562.	1.6	37
34	Xbox 360 Kinect Cognitive Games Improve Slowness, Complexity of EEG, and Cognitive Functions in Subjects with Mild Cognitive Impairment: A Randomized Control Trial. <i>Games for Health Journal</i> , 2019, 8, 144-152.	2.0	51
35	Modeling and Control of Rehabilitation Robotic Device: motoBOTTE. <i>Biosystems and Biorobotics</i> , 2019, , 546-550.	0.3	0
36	The effect of arm position on classification of hand gestures with intramuscular EMG. <i>Biomedical Signal Processing and Control</i> , 2018, 43, 1-8.	5.7	44

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37	Paired Associative Stimulation Delivered by Pairing Movement-Related Cortical Potentials With Peripheral Electrical Stimulation: An Investigation of the Duration of Neuromodulatory Effects. <i>Neuromodulation</i> , 2018, 21, 362-367.	0.8	20
38	Effect of subject training on a movement-related cortical potential-based brain-computer interface. <i>Biomedical Signal Processing and Control</i> , 2018, 41, 63-68.	5.7	11
39	Investigation of Optimal Afferent Feedback Modality for Inducing Neural Plasticity with A Self-Paced Brain-Computer Interface. <i>Sensors</i> , 2018, 18, 3761.	3.8	16
40	Performance of Combined Surface and Intramuscular EMG for Classification of Hand Movements. , 2018, 2018, 5220-5223.		3
41	Movement intention detection in adolescents with cerebral palsy from single-trial EEG. <i>Journal of Neural Engineering</i> , 2018, 15, 066030.	3.5	16
42	Multiday EMG-Based Classification of Hand Motions with Deep Learning Techniques. <i>Sensors</i> , 2018, 18, 2497.	3.8	146
43	Chiropractic spinal manipulation alters TMS induced I-wave excitability and shortens the cortical silent period. <i>Journal of Electromyography and Kinesiology</i> , 2018, 42, 24-35.	1.7	16
44	Impact of Spinal Manipulation on Cortical Drive to Upper and Lower Limb Muscles. <i>Brain Sciences</i> , 2017, 7, 2.	2.3	37
45	Quantification of Movement-Related EEG Correlates Associated with Motor Training: A Study on Movement-Related Cortical Potentials and Sensorimotor Rhythms. <i>Frontiers in Human Neuroscience</i> , 2017, 11, 604.	2.0	29
46	Classification of Hand Grasp Kinetics and Types Using Movement-Related Cortical Potentials and EEG Rhythms. <i>Computational Intelligence and Neuroscience</i> , 2017, 2017, 1-8.	1.7	12
47	Manipulation of Dysfunctional Spinal Joints Affects Sensorimotor Integration in the Prefrontal Cortex: A Brain Source Localization Study. <i>Neural Plasticity</i> , 2016, 2016, 1-9.	2.2	47
48	Pairing Voluntary Movement and Muscle-Located Electrical Stimulation Increases Cortical Excitability. <i>Frontiers in Human Neuroscience</i> , 2016, 10, 482.	2.0	26
49	Universal Matched-Filter Template Versus Individualized Template for Single Trial Detection of Movement Intentions of Different Tasks. <i>Smart Innovation, Systems and Technologies</i> , 2016, , 275-282.	0.6	0
50	Detecting and classifying three different hand movement types through electroencephalography recordings for neurorehabilitation. <i>Medical and Biological Engineering and Computing</i> , 2016, 54, 1491-1501.	2.8	60
51	Induction of Long-term Depression-like Plasticity by Pairings of Motor Imagination and Peripheral Electrical Stimulation. <i>Frontiers in Human Neuroscience</i> , 2015, 9, 644.	2.0	9
52	A Review of Techniques for Detection of Movement Intention Using Movement-Related Cortical Potentials. <i>Computational and Mathematical Methods in Medicine</i> , 2015, 2015, 1-13.	1.3	91
53	Comparison of Features for Movement Prediction from Single-Trial Movement-Related Cortical Potentials in Healthy Subjects and Stroke Patients. <i>Computational Intelligence and Neuroscience</i> , 2015, 2015, 1-8.	1.7	22
54	Online multi-class brain-computer interface for detection and classification of lower limb movement intentions and kinetics for stroke rehabilitation. <i>Brain-Computer Interfaces</i> , 2015, 2, 202-210.	1.8	20

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55	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
56	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
57	An empirical study to remove noise from single-trial MRCP for movement intention detection. , 2015, , .		1
58	Improved Detection and Force Decoding through Combined Near-Infrared Spectroscopy and Electroencephalographic Measurements. Biosystems and Biorobotics, 2014, , 411-419.	0.3	1
59	Detection of Movement Intentions through a Single Channel of Electroencephalography. Biosystems and Biorobotics, 2014, , 465-472.	0.3	6
60	Chiropractic, Cortical Excitability and BCI. Biosystems and Biorobotics, 2014, , 121-125.	0.3	1
61	Use of Empirical Mode Decomposition for Classification of MRCP Based Task Parameters. Lecture Notes in Computer Science, 2014, , 77-84.	1.3	0
62	Detection of movement-related cortical potentials based on subject-independent training. Medical and Biological Engineering and Computing, 2013, 51, 507-512.	2.8	75
63	Detection and classification of movement-related cortical potentials associated with task force and speed. Journal of Neural Engineering, 2013, 10, 056015.	3.5	98