

Ernest Nlandu Kamavuako

List of Publications by Year in descending order

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86
papers

2,872
citations

136950

32
h-index

182427

51
g-index

86
all docs

86
docs citations

86
times ranked

2249
citing authors

#	ARTICLE	IF	CITATIONS
1	Precise temporal association between cortical potentials evoked by motor imagination and afference induces cortical plasticity. <i>Journal of Physiology</i> , 2012, 590, 1669-1682.	2.9	210
2	Detection of movement intention from single-trial movement-related cortical potentials. <i>Journal of Neural Engineering</i> , 2011, 8, 066009.	3.5	208
3	Efficient neuroplasticity induction in chronic stroke patients by an associative brain-computer interface. <i>Journal of Neurophysiology</i> , 2016, 115, 1410-1421.	1.8	189
4	Multiday EMG-Based Classification of Hand Motions with Deep Learning Techniques. <i>Sensors</i> , 2018, 18, 2497.	3.8	146
5	Peripheral Electrical Stimulation Triggered by Self-Paced Detection of Motor Intention Enhances Motor Evoked Potentials. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2012, 20, 595-604.	4.9	129
6	Detection and classification of movement-related cortical potentials associated with task force and speed. <i>Journal of Neural Engineering</i> , 2013, 10, 056015.	3.5	98
7	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
8	Multiday Evaluation of Techniques for EMG-Based Classification of Hand Motions. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2019, 23, 1526-1534.	6.3	82
9	Performance Evaluation of Convolutional Neural Network for Hand Gesture Recognition Using EMG. <i>Sensors</i> , 2020, 20, 1642.	3.8	76
10	Detecting and classifying movement-related cortical potentials associated with hand movements in healthy subjects and stroke patients from single-electrode, single-trial EEG. <i>Journal of Neural Engineering</i> , 2015, 12, 056013.	3.5	70
11	Online mapping of EMG signals into kinematics by autoencoding. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2018, 15, 21.	4.6	68
12	Relationship between grasping force and features of single-channel intramuscular EMG signals. <i>Journal of Neuroscience Methods</i> , 2009, 185, 143-150.	2.5	63
13	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
14	Simultaneous and Proportional Force Estimation in Multiple Degrees of Freedom From Intramuscular EMG. <i>IEEE Transactions on Biomedical Engineering</i> , 2012, 59, 1804-1807.	4.2	57
15	Changes in H-reflex and V-waves following spinal manipulation. <i>Experimental Brain Research</i> , 2015, 233, 1165-1173.	1.5	57
16	An EEG Experimental Study Evaluating the Performance of Texas Instruments ADS1299. <i>Sensors</i> , 2018, 18, 3721.	3.8	49
17	Influence of the feature space on the estimation of hand grasping force from intramuscular EMG. <i>Biomedical Signal Processing and Control</i> , 2013, 8, 1-5.	5.7	48
18	Comparison of spatial filters and features for the detection and classification of movement-related cortical potentials in healthy individuals and stroke patients. <i>Journal of Neural Engineering</i> , 2015, 12, 056003.	3.5	47

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19	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
20	Classification of EEG signals to identify variations in attention during motor task execution. <i>Journal of Neuroscience Methods</i> , 2017, 284, 27-34.	2.5	45
21	Stacked Sparse Autoencoders for EMG-Based Classification of Hand Motions: A Comparative Multi Day Analyses between Surface and Intramuscular EMG. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 1126.	2.5	45
22	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
23	Combined surface and intramuscular EMG for improved real-time myoelectric control performance. <i>Biomedical Signal Processing and Control</i> , 2014, 10, 102-107.	5.7	43
24	The effect of time on EMG classification of hand motions in able-bodied and transradial amputees. <i>Journal of Electromyography and Kinesiology</i> , 2018, 40, 72-80.	1.7	43
25	Effect of threshold values on the combination of EMG time domain features: Surface versus intramuscular EMG. <i>Biomedical Signal Processing and Control</i> , 2018, 45, 267-273.	5.7	39
26	The effects of a single session of spinal manipulation on strength and cortical drive in athletes. <i>European Journal of Applied Physiology</i> , 2018, 118, 737-749.	2.5	38
27	On the usability of intramuscular EMG for prosthetic control: A Fitts's Law approach. <i>Journal of Electromyography and Kinesiology</i> , 2014, 24, 770-777.	1.7	37
28	Impact of Spinal Manipulation on Cortical Drive to Upper and Lower Limb Muscles. <i>Brain Sciences</i> , 2017, 7, 2.	2.3	37
29	Wrist torque estimation during simultaneous and continuously changing movements: surface vs. untargeted intramuscular EMG. <i>Journal of Neurophysiology</i> , 2013, 109, 2658-2665.	1.8	36
30	Determination of optimum threshold values for EMG time domain features; a multi-dataset investigation. <i>Journal of Neural Engineering</i> , 2016, 13, 046011.	3.5	36
31	Upper limb complex movements decoding from pre-movement EEG signals using wavelet common spatial patterns. <i>Computer Methods and Programs in Biomedicine</i> , 2020, 183, 105076.	4.7	35
32	Surface Versus Untargeted Intramuscular EMG Based Classification of Simultaneous and Dynamically Changing Movements. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2013, 21, 992-998.	4.9	34
33	Chronic high-dose beetroot juice supplementation improves time trial performance of well-trained cyclists in normoxia and hypoxia. <i>Nitric Oxide - Biology and Chemistry</i> , 2019, 85, 44-52.	2.7	32
34	Distinct patterns of variation in the distribution of knee pain. <i>Scientific Reports</i> , 2018, 8, 16522.	3.3	25
35	Rehabilitation of Upper Limb Motor Impairment in Stroke: A Narrative Review on the Prevalence, Risk Factors, and Economic Statistics of Stroke and State of the Art Therapies. <i>Healthcare (Switzerland)</i> , 2022, 10, 190.	2.0	23
36	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

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37	The contemporary model of vertebral column joint dysfunction and impact of high-velocity, low-amplitude controlled vertebral thrusts on neuromuscular function. <i>European Journal of Applied Physiology</i> , 2021, 121, 2675-2720.	2.5	22
38	Optimal automatic detection of muscle activation intervals. <i>Journal of Electromyography and Kinesiology</i> , 2019, 48, 103-111.	1.7	21
39	Validity and Reliability of a Smartphone App for Gait and Balance Assessment. <i>Sensors</i> , 2022, 22, 124.	3.8	21
40	Psychophysical Evaluation of Subdermal Electrical Stimulation in Relation to Prosthesis Sensory Feedback. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2018, 26, 709-715.	4.9	20
41	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
42	The effects of chiropractic spinal manipulation on central processing of tonic pain - a pilot study using standardized low-resolution brain electromagnetic tomography (sLORETA). <i>Scientific Reports</i> , 2019, 9, 6925.	3.3	20
43	On the robustness of real-time myoelectric control investigations: a multiday Fitts's law approach. <i>Journal of Neural Engineering</i> , 2019, 16, 026003.	3.5	20
44	Pressure buffering by the tympanic membrane. In-vivo measurements of middle ear pressure fluctuations during elevator motion. <i>Hearing Research</i> , 2016, 340, 113-120.	2.0	19
45	The effects of a single session of chiropractic care on strength, cortical drive, and spinal excitability in stroke patients. <i>Scientific Reports</i> , 2019, 9, 2673.	3.3	19
46	Review on electromyography based intention for upper limb control using pattern recognition for human-machine interaction. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2022, 236, 628-645.	1.8	17
47	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
48	Determination of Optimum Segmentation Schemes for Pattern Recognition-Based Myoelectric Control: A Multi-Dataset Investigation. <i>IEEE Access</i> , 2020, 8, 90862-90877.	4.2	15
49	Hysteresis in the electromyography-force relationship: Toward an optimal model for the estimation of force. <i>Muscle and Nerve</i> , 2012, 46, 755-758.	2.2	14
50	Decoding Attempted Hand Movements in Stroke Patients Using Surface Electromyography. <i>Sensors</i> , 2020, 20, 6763.	3.8	14
51	The Short-Term Repeatability of Subdermal Electrical Stimulation for Sensory Feedback. <i>IEEE Access</i> , 2020, 8, 63983-63992.	4.2	14
52	Influence of attention alternation on movement-related cortical potentials in healthy individuals and stroke patients. <i>Clinical Neurophysiology</i> , 2017, 128, 165-175.	1.5	13
53	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
54	A Multiday Evaluation of Real-Time Intramuscular EMG Usability with ANN. <i>Sensors</i> , 2020, 20, 3385.	3.8	12

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55	Chiropractic Manipulation Increases Maximal Bite Force in Healthy Individuals. <i>Brain Sciences</i> , 2018, 8, 76.	2.3	10
56	A comparative study of motion detection with FMG and sEMG methods for assistive applications. <i>Journal of Rehabilitation and Assistive Technologies Engineering</i> , 2020, 7, 205566832093858.	0.9	10
57	Evaluation of windowing techniques for intramuscular EMG-based diagnostic, rehabilitative and assistive devices. <i>Journal of Neural Engineering</i> , 2021, 18, 016017.	3.5	10
58	Electroencephalographic Recording of the Movement-Related Cortical Potential in Ecologically Valid Movements: A Scoping Review. <i>Frontiers in Neuroscience</i> , 2021, 15, 721387.	2.8	10
59	Estimation of the Respiratory Rate from Localised ECG at Different Auscultation Sites. <i>Sensors</i> , 2021, 21, 78.	3.8	9
60	The Effect of Signal Duration on the Classification of Heart Sounds: A Deep Learning Approach. <i>Sensors</i> , 2022, 22, 2261.	3.8	9
61	The Variability of Psychophysical Parameters Following Surface and Subdermal Stimulation: A Multiday Study in Amputees. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2020, 28, 174-180.	4.9	8
62	Classification of Overt and Covert Speech for Near-Infrared Spectroscopy-Based Brain Computer Interface. <i>Sensors</i> , 2018, 18, 2989.	3.8	7
63	Affordable Embroidered EMG Electrodes for Myoelectric Control of Prostheses: A Pilot Study. <i>Sensors</i> , 2021, 21, 5245.	3.8	7
64	Detection of Movement Intentions through a Single Channel of Electroencephalography. <i>Biosystems and Biorobotics</i> , 2014, , 465-472.	0.3	6
65	Classification of Movement Preparation Between Attended and Distracted Self-Paced Motor Tasks. <i>IEEE Transactions on Biomedical Engineering</i> , 2019, 66, 3060-3071.	4.2	6
66	Associative cued asynchronous <sc>BCI</sc> induces cortical plasticity in stroke patients. <i>Annals of Clinical and Translational Neurology</i> , 2022, 9, 722-733.	3.7	6
67	Comparison between Embroidered and Gel Electrodes on ECG-Derived Respiration Rate. , 2020, 2020, 2622-2625.		5
68	The Effect of Spinal Manipulation on the Electrophysiological and Metabolic Properties of the Tibialis Anterior Muscle. <i>Healthcare (Switzerland)</i> , 2020, 8, 548.	2.0	5
69	Hammersteinâ€“Wiener Multimodel Approach for Fast and Efficient Muscle Force Estimation from EMG Signals. <i>Biosensors</i> , 2022, 12, 117.	4.7	5
70	Reply to Morone, G.; Giansanti, D. Comment on â€œAnwer et al. Rehabilitation of Upper Limb Motor Impairment in Stroke: A Narrative Review on the Prevalence, Risk Factors, and Economic Statistics of Stroke and State of the Art Therapies. <i>Healthcare</i> 2022, 10, 190â€œ. <i>Healthcare (Switzerland)</i> , 2022, 10, 847.	2.0	5
71	Efficacy of a Single-Task ERP Measure to Evaluate Cognitive Workload During a Novel Exergame. <i>Frontiers in Human Neuroscience</i> , 2021, 15, 742384.	2.0	4
72	Inter-classifier comparison for upper extremity EMG signal at different hand postures and arm positions using pattern recognition. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2022, 236, 228-238.	1.8	4

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73	The Effect of EMG Features on the Classification of Swallowing Events and the Estimation of Fluid Intake Volume. <i>Sensors</i> , 2022, 22, 3380.	3.8	4
74	Investigating the Intervention Parameters of Endogenous Paired Associative Stimulation (ePAS). <i>Brain Sciences</i> , 2021, 11, 224.	2.3	3
75	Decoding of Ankle Joint Movements in Stroke Patients Using Surface Electromyography. <i>Sensors</i> , 2021, 21, 1575.	3.8	3
76	Multiple-day high-dose beetroot juice supplementation does not improve pulmonary or muscle deoxygenation kinetics of well-trained cyclists in normoxia and hypoxia. <i>Nitric Oxide - Biology and Chemistry</i> , 2021, 111-112, 37-44.	2.7	3
77	The Effects of Spinal Manipulation on Motor Unit Behavior. <i>Brain Sciences</i> , 2021, 11, 105.	2.3	3
78	Nerve Injury Decreases Hyperacute Resting-State Connectivity Between the Anterior Cingulate and Primary Somatosensory Cortex in Anesthetized Rats. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2020, 28, 2691-2698.	4.9	3
79	Correlation between the stability of feature distribution and classification performance in sEMG signals. , 2021, , .		3
80	Modeling simple and complex handwriting based on EMG signals. , 2020, , 129-149.		2
81	Chiropractic Spinal Adjustment Increases the Cortical Drive to the Lower Limb Muscle in Chronic Stroke Patients. <i>Frontiers in Neurology</i> , 2021, 12, 747261.	2.4	2
82	Software Sensor to Enhance Online Parametric Identification for Nonlinear Closed-Loop Systems for Robotic Applications. <i>Sensors</i> , 2021, 21, 3653.	3.8	1
83	Altered evoked low-frequency connectivity from SI to ACC following nerve injury in rats. <i>Journal of Neural Engineering</i> , 2021, 18, 046063.	3.5	1
84	Intra- and Inter-Rater Reliability of Manual Feature Extraction Methods in Movement Related Cortical Potential Analysis. <i>Sensors</i> , 2020, 20, 2427.	3.8	0
85	Modulation of SI and ACC response to noxious and non-noxious electrical stimuli after the spared nerve injury model of neuropathic pain. <i>European Journal of Pain</i> , 2021, 25, 612-623.	2.8	0
86	Online Closed-Loop Control Using Tactile Feedback Delivered Through Surface and Subdermal Electrotactile Stimulation. <i>Frontiers in Neuroscience</i> , 2021, 15, 580385.	2.8	0