Dario Farina

List of Publications by Year
in descending order

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439 papers	28,065 citations	3334 91 h-index	10158 140 g-index
465 all docs	465 docs citations	465 times ranked	10886 citing authors

#	Article	IF	Citations
1	Toward higher-performance bionic limbs for wider clinical use. Nature Biomedical Engineering, 2023, 7, 473-485.	22.5	104
2	Standard intensities of transcranial alternating current stimulation over the motor cortex do not entrain corticospinal inputs to motor neurons. Journal of Physiology, 2023, 601, 3187-3199.	2.9	4
3	Correlation networks of spinal motor neurons that innervate lower limb muscles during a multiâ€joint isometric task. Journal of Physiology, 2023, 601, 3201-3219.	2.9	18
4	Rehabilitation of high upper limb amputees after Targeted Muscle Reinnervation. Journal of Hand Therapy, 2022, 35, 58-66.	1.5	10
5	Intramuscular EMG-Driven Musculoskeletal Modelling: Towards Implanted Muscle Interfacing in Spinal Cord Injury Patients. IEEE Transactions on Biomedical Engineering, 2022, 69, 63-74.	4.2	15
6	Highly Accurate Real-Time Decomposition of Single Channel Intramuscular EMG. IEEE Transactions on Biomedical Engineering, 2022, 69, 746-757.	4.2	3
7	Analytical Modelling of Surface EMG Signals Generated by Curvilinear Fibers With Approximate Conductivity Tensor. IEEE Transactions on Biomedical Engineering, 2022, 69, 1052-1062.	4.2	1
8	Electrotactile and Vibrotactile Feedback Enable Similar Performance in Psychometric Tests and Closed-Loop Control. IEEE Transactions on Haptics, 2022, 15, 222-231.	2.7	6
9	Lack of increased rate of force development after strength training is explained by specific neural, not muscular, motor unit adaptations. Journal of Applied Physiology, 2022, 132, 84-94.	2.5	7
10	Co-Adaptive Control of Bionic Limbs via Unsupervised Adaptation of Muscle Synergies. IEEE Transactions on Biomedical Engineering, 2022, 69, 2581-2592.	4.2	9
11	Online Tracking of the Phase Difference Between Neural Drives to Antagonist Muscle Pairs in Essential Tremor Patients. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2022, 30, 709-718.	4.9	7
12	Case Report: Plasticity in Central Sensory Finger Representation and Touch Perception After Microsurgical Reconstruction of Infraclavicular Brachial Plexus Injury. Frontiers in Neuroscience, 2022, 16, 793036.	2.8	0
13	Feasibility of a Wireless Implantable Multi-electrode System for High-bandwidth Prosthetic Interfacing: Animal and Cadaver Study. Clinical Orthopaedics and Related Research, 2022, 480, 1191-1204.	1.5	4
14	Reading and Modulating Cortical Î² Bursts from Motor Unit Spiking Activity. Journal of Neuroscience, 2022, 42, 3611-3621.	3.6	20
15	Principles of human movement augmentation and the challenges in making it a reality. Nature Communications, 2022, 13, 1345.	12.8	34
16	Kernel Density Estimation of Electromyographic Signals and Ensemble Learning for Highly Accurate Classification of a Large Set of Hand/Wrist Motions. Frontiers in Neuroscience, 2022, 16, 796711.	2.8	3
17	Far-field electric potentials provide access to the output from the spinal cord from wrist-mounted sensors. Journal of Neural Engineering, 2022, 19, 026031.	3.5	8
18	Consensus for experimental design in electromyography (CEDE) project: High-density surface electromyography matrix. Journal of Electromyography and Kinesiology, 2022, 64, 102656.	1.7	22

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19	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
20	Motor Unit Discharge Patterns in Response to Focal Tendon Vibration of the Lower Limb in Cats and Humans. Frontiers in Integrative Neuroscience, 2022, 16, 836757.	2.1	2
21	Hand Gesture Recognition Using Temporal Convolutions and Attention Mechanism. , 2022, , .		12
22	Optimization of HD-sEMG-Based Cross-Day Hand Gesture Classification by Optimal Feature Extraction and Data Augmentation. IEEE Transactions on Human-Machine Systems, 2022, 52, 1281-1291.	3.5	12
23	Reducing the Calibration Time in Somatosensory BCI by Using Tactile ERD. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2022, 30, 1870-1876.	4.9	9
24	Control of Spinal Motoneurons by Feedback From a Non-Invasive Real-Time Interface. IEEE Transactions on Biomedical Engineering, 2021, 68, 926-935.	4.2	30
25	Deep Learning for Robust Decomposition of High-Density Surface EMG Signals. IEEE Transactions on Biomedical Engineering, 2021, 68, 526-534.	4.2	52
26	Individual differences in the neural strategies to control the lateral and medial head of the quadriceps during a mechanically constrained task. Journal of Applied Physiology, 2021, 130, 269-281.	2.5	28
27	Muscles from the same muscle group do not necessarily share common drive: evidence from the human triceps surae. Journal of Applied Physiology, 2021, 130, 342-354.	2.5	61
28	Intramuscular Stimulation of Muscle Afferents Attains Prolonged Tremor Reduction in EssentialÂTremor Patients. IEEE Transactions on Biomedical Engineering, 2021, 68, 1768-1776.	4.2	22
29	FS-HGR: Few-Shot Learning for Hand Gesture Recognition via Electromyography. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2021, 29, 1004-1015.	4.9	65
30	Prosthetic Feedback Systems. , 2021, , 147-167.		2
31	Control Strategies for Functional Upper Limb Prostheses. , 2021, , 127-135.		2
32	Enhancing IoT Security via Cancelable HD-sEMG-Based Biometric Authentication Password, Encoded by Gesture. IEEE Internet of Things Journal, 2021, 8, 16535-16547.	8.7	33
33	Treatment Strategies for Phantom Limb Pain. , 2021, , 113-124.		1
34	Towards human motor augmentation by voluntary decoupling beta activity in the neural drive to muscle and force production. Journal of Neural Engineering, 2021, 18, 016001.	3.5	20
35	Long exposure convolutional memory network for accurate estimation of finger kinematics from surface electromyographic signals. Journal of Neural Engineering, 2021, 18, 026027.	3.5	26
36	Force Steadiness: From Motor Units to Voluntary Actions. Physiology, 2021, 36, 114-130.	3.1	66

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37	Towards a mechanistic approach for the development of nonâ€invasive brainâ€computer interfaces for motor rehabilitation. Journal of Physiology, 2021, 599, 2361-2374.	2.9	22
38	Only the Fastest Corticospinal Fibers Contribute to Î² Corticomuscular Coherence. Journal of Neuroscience, 2021, 41, 4867-4879.	3.6	26
39	Prosthetic Embodiment and Body Image Changes in Patients Undergoing Bionic Reconstruction Following Brachial Plexus Injury. Frontiers in Neurorobotics, 2021, 15, 645261.	2.8	7
40	Brainâ€computer interfaces and plasticity of the human nervous system. Journal of Physiology, 2021, 599, 2349-2350.	2.9	1
41	Simultaneous and proportional control of wrist and hand movements by decoding motor unit discharges in real time. Journal of Neural Engineering, 2021, 18, 056010.	3.5	36
42	Altered evoked low-frequency connectivity from SI to ACC following nerve injury in rats. Journal of Neural Engineering, 2021, 18, 046063.	3.5	1
43	Analysis of motor unit spike trains estimated from high-density surface electromyography is highly reliable across operators. Journal of Electromyography and Kinesiology, 2021, 58, 102548.	1.7	61
44	Online control of an assistive active glove by slow cortical signals in patients with amyotrophic lateral sclerosis. Journal of Neural Engineering, 2021, 18, 046085.	3.5	6
45	Synergistic Organization of Neural Inputs from Spinal Motor Neurons to Extrinsic and Intrinsic Hand Muscles. Journal of Neuroscience, 2021, 41, 6878-6891.	3.6	28
46	Noninvasive Neural Interfacing With Wearable Muscle Sensors: Combining Convolutive Blind Source Separation Methods and Deep Learning Techniques for Neural Decoding. IEEE Signal Processing Magazine, 2021, 38, 103-118.	5.6	37
47	Signal Processing for Neurorehabilitation and Assistive Technologies [From the Guest Editors]. IEEE Signal Processing Magazine, 2021, 38, 5-7.	5.6	5
48	Consensus for experimental design in electromyography (CEDE) project: Terminology matrix. Journal of Electromyography and Kinesiology, 2021, 59, 102565.	1.7	29
49	Artificial Perception and Semiautonomous Control in Myoelectric Hand Prostheses Increases Performance and Decreases Effort. IEEE Transactions on Robotics, 2021, 37, 1298-1312.	10.3	21
50	Surface EMG cross talk quantified at the motor unit population level for muscles of the hand, thigh, and calf. Journal of Applied Physiology, 2021, 131, 808-820.	2.5	25
51	Recruitment order of motor neurons promoted by epidural stimulation in individuals with spinal cord injury. Journal of Applied Physiology, 2021, 131, 1100-1110.	2.5	12
52	Participant-specific classifier tuning increases the performance of hand movement detection from EEG in patients with amyotrophic lateral sclerosis. Journal of Neural Engineering, 2021, 18, 056023.	3.5	6
53	Human-Robot Interaction With Robust Prediction of Movement Intention Surpasses Manual Control. Frontiers in Neurorobotics, 2021, 15, 695022.	2.8	5
54	Pain-induced changes in motor unit discharge depend on recruitment threshold and contraction speed. Journal of Applied Physiology, 2021, 131, 1260-1271.	2.5	10

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55	Proof of concept for multiple nerve transfers to a single target muscle. ELife, 2021, 10, .	6.0	5
56	Motor Unit Characteristics After Selective Nerve Transfers. , 2021, , 83-91.		0
57	Spinal Interfacing via Muscle Recordings for Neuroprosthesis Control. , 2021, , 1-29.		0
58	Behavior of motor units during submaximal isometric contractions in chronically strength-trained individuals. Journal of Applied Physiology, 2021, 131, 1584-1598.	2.5	11
59	Deficit in knee extension strength following anterior cruciate ligament reconstruction is explained by a reduced neural drive to the vasti muscles. Journal of Physiology, 2021, 599, 5103-5120.	2.9	35
60	Therapy Interventions for Upper Limb Amputees Undergoing Selective Nerve Transfers. Journal of Visualized Experiments, 2021, , .	0.3	1
61	Sensing and decoding the neural drive to paralyzed muscles during attempted movements of a person with tetraplegia using a sleeve array. Journal of Neurophysiology, 2021, 126, 2104-2118.	1.8	23
62	Recursive Decomposition of Electromyographic Signals With a Varying Number of Active Sources: Bayesian Modeling and Filtering. IEEE Transactions on Biomedical Engineering, 2020, 67, 428-440.	4.2	8
63	Neural and muscular determinants of maximal rate of force development. Journal of Neurophysiology, 2020, 123, 149-157.	1.8	35
64	Interfacing the neural output of the spinal cord: robust and reliable longitudinal identification of motor neurons in humans. Journal of Neural Engineering, 2020, 17, 016003.	3.5	37
65	Hand gesture recognition based on motor unit spike trains decoded from high-density electromyography. Biomedical Signal Processing and Control, 2020, 55, 101637.	5.7	65
66	Dual-Parameter Modulation Improves Stimulus Localization in Multichannel Electrotactile Stimulation. IEEE Transactions on Haptics, 2020, 13, 393-403.	2.7	13
67	Plasticity induced by pairing brain stimulation with motor-related states only targets a subset of cortical neurones. Brain Stimulation, 2020, 13, 464-466.	1.6	8
68	Strength Training Increases Conduction Velocity of High-Threshold Motor Units. Medicine and Science in Sports and Exercise, 2020, 52, 955-967.	0.4	27
69	Neurophysiological correlates of force control improvement induced by sinusoidal vibrotactile stimulation. Journal of Neural Engineering, 2020, 17, 016043.	3.5	11
70	The Interaction Between Feedback Type and Learning in Routine Grasping With Myoelectric Prostheses. IEEE Transactions on Haptics, 2020, 13, 645-654.	2.7	13
71	Comparison of Intramuscular and Surface Electromyography Recordings Towards the Control of Wearable Robots for Incomplete Spinal Cord Injury Rehabilitation. , 2020, , .		8
72	Wearable multichannel haptic device for encoding proprioception in the upper limb. Journal of Neural Engineering, 2020, 17, 056035.	3.5	12

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73	Spinal motoneurons of the human newborn are highly synchronized during leg movements. Science Advances, 2020, 6, .	10.3	44
74	Energetic Passivity Decoding of Human Hip Joint for Physical Human-Robot Interaction. IEEE Robotics and Automation Letters, 2020, 5, 5953-5960.	5.1	10
75	Editorial: Autonomy and Intelligence in Neurorehabilitation Robotic and Prosthetic Technologies. Journal of Medical Robotics Research, 2020, 05, 2002001.	1.2	0
76	Subject-Specific EMG Modeling with Multiple Muscles: A Preliminary Study. , 2020, 2020, 740-743.		2
77	Inability to increase the neural drive to muscle is associated with task failure during submaximal contractions. Journal of Neurophysiology, 2020, 124, 1110-1121.	1.8	24
78	On the Selection of Neural Network Architecture for Supervised Motor Unit Identification from High-Density Surface EMG. , 2020, 2020, 736-739.		3
79	Toward Universal Neural Interfaces for Daily Use: Decoding the Neural Drive to Muscles Generalises Highly Accurate Finger Task Identification Across Humans. IEEE Access, 2020, 8, 149025-149035.	4.2	15
80	A Multimodal Intention Detection Sensor Suite for Shared Autonomy of Upper-Limb Robotic Prostheses. Sensors, 2020, 20, 6097.	3.8	16
81	Miniaturized Magnetic Sensors for Implantable Magnetomyography. Advanced Materials Technologies, 2020, 5, 2000185.	5.8	53
82	Wearable Dual-Frequency Vibrotactile System for Restoring Force and Stiffness Perception. IEEE Transactions on Haptics, 2020, 13, 191-196.	2.7	11
83	On-Line Recursive Decomposition of Intramuscular EMG Signals Using GPU-Implemented Bayesian Filtering. IEEE Transactions on Biomedical Engineering, 2020, 67, 1806-1818.	4.2	5
84	Adaptive Spatial Filtering of High-Density EMG for Reducing the Influence of Noise and Artefacts in Myoelectric Control. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2020, 28, 1511-1517.	4.9	26
85	Tutorial: Analysis of motor unit discharge characteristics from high-density surface EMG signals. Journal of Electromyography and Kinesiology, 2020, 53, 102426.	1.7	193
86	Real-time neurofeedback is effective in reducing diversion of attention from a motor task in healthy individuals and patients with amyotrophic lateral sclerosis. Journal of Neural Engineering, 2020, 17, 036017.	3.5	4
87	Magnetomyography: Miniaturized Magnetic Sensors for Implantable Magnetomyography (Adv. Mater.) Tj ETQq1 1 0.784314 rgBT /Ov	5.8	1
88	Longitudinal Case Study of Regression-Based Hand Prosthesis Control in Daily Life. Frontiers in Neuroscience, 2020, 14, 600.	2.8	77
89	Muscle fiber conduction velocity in the vastus lateralis and medialis muscles of soccer players after ACL reconstruction. Scandinavian Journal of Medicine and Science in Sports, 2020, 30, 1976-1984.	2.9	13
90	Consensus for experimental design in electromyography (CEDE) project: Amplitude normalization matrix. Journal of Electromyography and Kinesiology, 2020, 53, 102438.	1.7	170

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91	Divergent response of lowâ€•versus highâ€threshold motor units to experimental muscle pain. Journal of Physiology, 2020, 598, 2093-2108.	2.9	40
92	Direct translation of findings in isolated animal preparations to in vivo human motoneuron behaviour is challenging. Journal of Physiology, 2020, 598, 1111-1112.	2.9	0
93	Real-Time Interface Algorithm for Ankle Kinematics and Stiffness From Electromyographic Signals. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2020, 28, 1416-1427.	4.9	8
94	Adaptive Real-Time Identification of Motor Unit Discharges From Non-Stationary High-Density Surface Electromyographic Signals. IEEE Transactions on Biomedical Engineering, 2020, 67, 3501-3509.	4.2	51
95	Neuro-Musculoskeletal Mapping for Man-Machine Interfacing. Scientific Reports, 2020, 10, 5834.	3.3	38
96	Simulation of Motor Unit Action Potential Recordings From Intramuscular Multichannel Scanning Electrodes. IEEE Transactions on Biomedical Engineering, 2020, 67, 2005-2014.	4.2	12
97	Non-invasive analysis of motor neurons controlling the intrinsic and extrinsic muscles of the hand. Journal of Neural Engineering, 2020, 17, 046033.	3.5	17
98	Nerve Injury Decreases Hyperacute Resting-State Connectivity Between the Anterior Cingulate and Primary Somatosensory Cortex in Anesthetized Rats. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2020, 28, 2691-2698.	4.9	3
99	Sensory Stimulation Training for BCI System Based on Somatosensory Attentional Orientation. IEEE Transactions on Biomedical Engineering, 2019, 66, 640-646.	4.2	24
100	An Online Spectral Information-Enhanced Approach for Artifact Detection and Fault Attentuation in Myoelectric Control*. , 2019, 2019, 671-675.		0
101	Multiclass Detection and Tracking of Transient Motor Activation based on Decomposed Myoelectric Signals. , 2019, , .		9
102	Long-term implant of intramuscular sensors and nerve transfers for wireless control of robotic arms in above-elbow amputees. Science Robotics, 2019, 4, .	17.6	81
103	Voluntary control of wearable robotic exoskeletons by patients with paresis via neuromechanical modeling. Journal of NeuroEngineering and Rehabilitation, 2019, 16, 91.	4.6	76
104	Modulation of Cortical Excitability with BCI for Stroke Rehabilitation. , 2019, , .		1
105	Amplitude cancellation influences the association between frequency components in the neural drive to muscle and the rectified EMG signal. PLoS Computational Biology, 2019, 15, e1006985.	3.2	25
106	Optimal automatic detection of muscle activation intervals. Journal of Electromyography and Kinesiology, 2019, 48, 103-111.	1.7	21
107	Consensus for experimental design in electromyography (CEDE) project: Electrode selection matrix. Journal of Electromyography and Kinesiology, 2019, 48, 128-144.	1.7	95
108	Exogenous neuromodulation of spinal neurons induces beta-band coherence during self-sustained discharge of hind limb motor unit populations. Journal of Applied Physiology, 2019, 127, 1034-1041.	2.5	6

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109	A high-density surface EMG framework for the study of motor neurons controlling the intrinsic and extrinsic muscles of the hand. , 2019, 2019, 2307-2310.		4
110	A wearable neural interface for detecting and decoding attempted hand movements in a person with tetraplegia. , 2019, 2019, 1930-1933.		14
111	Modulation of reciprocal inhibition at the wrist as a neurophysiological correlate of tremor suppression: a pilot healthy subject study. , 2019, 2019, 6267-6272.		9
112	The human central nervous system transmits common synaptic inputs to distinct motor neuron pools during nonâ€synergistic digit actions. Journal of Physiology, 2019, 597, 5935-5948.	2.9	42
113	Structured Motor Rehabilitation After Selective Nerve Transfers. Journal of Visualized Experiments, 2019, , .	0.3	14
114	Can Multi-DoF Training Improve Robustness of Muscle Synergy Inspired Myocontrollers?. , 2019, 2019, 665-670.		1
115	Voluntary and tremorogenic inputs to motor neuron pools of agonist/antagonist muscles in essential tremor patients. Journal of Neurophysiology, 2019, 122, 2043-2053.	1.8	19
116	Estimation of Phantom Arm Mechanics About Four Degrees of Freedom After Targeted Muscle Reinnervation. IEEE Transactions on Medical Robotics and Bionics, 2019, 1, 58-64.	3.2	14
117	Directional Forgetting for Stable Co-Adaptation in Myoelectric Control. Sensors, 2019, 19, 2203.	3.8	11
118	The relative strength of common synaptic input to motor neurons is not a determinant of the maximal rate of force development in humans. Journal of Applied Physiology, 2019, 127, 205-214.	2.5	30
119	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
120	The Relationship Between Blood Flow and Motor Unit Firing Rates in Response to Fatiguing Exercise Post-stroke. Frontiers in Physiology, 2019, 10, 545.	2.8	10
121	Transferrable Expertise From Bionic Arms to Robotic Exoskeletons: Perspectives for Stroke and Duchenne Muscular Dystrophy. IEEE Transactions on Medical Robotics and Bionics, 2019, 1, 88-96.	3.2	15
122	Oscillations in neural drive and age-related reductions in force steadiness with a cognitive challenge. Journal of Applied Physiology, 2019, 126, 1056-1065.	2.5	22
123	Predicting wrist kinematics from motor unit discharge timings for the control of active prostheses. Journal of NeuroEngineering and Rehabilitation, 2019, 16, 47.	4.6	65
124	Classification of Movement Preparation Between Attended and Distracted Self-Paced Motor Tasks. IEEE Transactions on Biomedical Engineering, 2019, 66, 3060-3071.	4.2	6
125	The increase in muscle force after 4Âweeks of strength training is mediated by adaptations in motor unit recruitment and rate coding. Journal of Physiology, 2019, 597, 1873-1887.	2.9	212
126	A thin-film multichannel electrode for muscle recording and stimulation in neuroprosthetics applications. Journal of Neural Engineering, 2019, 16, 026035.	3.5	26

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127	Clinical Perspectives in Upper Limb Prostheses: An Update. Current Surgery Reports, 2019, 7, 1.	0.9	37
128	You are as fast as your motor neurons: speed of recruitment and maximal discharge of motor neurons determine the maximal rate of force development in humans. Journal of Physiology, 2019, 597, 2445-2456.	2.9	205
129	Adaptive learning in the detection of Movement Related Cortical Potentials improves usability of associative Brain-Computer Interfaces. , 2019, 2019, 3079-3082.		2
130	Peripheral nerve transfers change target muscle structure and function. Science Advances, 2019, 5, eaau2956.	10.3	46
131	Brain stateâ€“dependent stimulation boosts functional recovery following stroke. Annals of Neurology, 2019, 85, 84-95.	5.3	41
132	Tactile Stimulation Improves Sensorimotor Rhythm-Based BCI Performance in Stroke Patients. IEEE Transactions on Biomedical Engineering, 2019, 66, 1987-1995.	4.2	32
133	Bionic hand as artificial organ: Current status and future perspectives. Artificial Organs, 2019, 43, 109-118.	1.9	20
134	Decoding motor neuron activity from epimysial thin-film electrode recordings following targeted muscle reinnervation. Journal of Neural Engineering, 2019, 16, 016010.	3.5	27
135	Online Finger Control Using High-Density EMG and Minimal Training Data for Robotic Applications. IEEE Robotics and Automation Letters, 2019, 4, 217-223.	5.1	37
136	Prediction of finger kinematics from discharge timings of motor units: implications for intuitive control of myoelectric prostheses. Journal of Neural Engineering, 2019, 16, 026005.	3.5	41
137	Experimental Testing of Bionic Peripheral Nerve and Muscle Interfaces: Animal Model Considerations. Frontiers in Neuroscience, 2019, 13, 1442.	2.8	9
138	Analysis of Intramuscular Motor Unit Coherence in the Tibialis Anterior Muscle as a Tool for the Assessment of Robot-Assisted Rehabilitation. Biosystems and Biorobotics, 2019, , 231-235.	0.3	0
139	Psychophysical Evaluation of Subdermal Electrical Stimulation in Relation to Prosthesis Sensory Feedback. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2018, 26, 709-715.	4.9	20
140	Performance of Brainâ€“Computer Interfacing Based on Tactile Selective Sensation and Motor Imagery. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2018, 26, 60-68.	4.9	12
141	Online mapping of EMG signals into kinematics by autoencoding. Journal of NeuroEngineering and Rehabilitation, 2018, 15, 21.	4.6	68
142	The clinical relevance of advanced artificial feedback in the control of a multi-functional myoelectric prosthesis. Journal of NeuroEngineering and Rehabilitation, 2018, 15, 28.	4.6	97
143	Live Demonstration: Electrotactile feedback from an electronic skin through flexible electrode matrix. , 2018, , .		0
144	Robust and accurate decoding of motoneuron behaviour and prediction of the resulting force output. Journal of Physiology, 2018, 596, 2643-2659.	2.9	98

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145	Electro-tactile stimulation of the posterior neck induces body anteropulsion during upright stance. Experimental Brain Research, 2018, 236, 1471-1478.	1.5	6
146	Robust Real-Time Musculoskeletal Modeling Driven by Electromyograms. IEEE Transactions on Biomedical Engineering, 2018, 65, 556-564.	4.2	105
147	Robust extraction of basis functions for simultaneous and proportional myoelectric control via sparse non-negative matrix factorization. Journal of Neural Engineering, 2018, 15, 026017.	3.5	51
148	Decoding Motor Unit Activity From Forearm Muscles: Perspectives for Myoelectric Control. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2018, 26, 244-251.	4.9	58
149	Decoding Covert Somatosensory Attention by a BCI System Calibrated With Tactile Sensation. IEEE Transactions on Biomedical Engineering, 2018, 65, 1689-1695.	4.2	17
150	Distribution of muscle fibre conduction velocity for representative samples of motor units in the full recruitment range of the tibialis anterior muscle. Acta Physiologica, 2018, 222, e12930.	3.8	58
151	Comparison of fMRI Digit Representations of the Dominant and Non-dominant Hand in the Human Primary Somatosensory Cortex. Frontiers in Human Neuroscience, 2018, 12, 492.	2.0	21
152	Stroke increases ischemia-related decreases in motor unit discharge rates. Journal of Neurophysiology, 2018, 120, 3246-3256.	1.8	13
153	A real-time surface EMG decomposition system for non-invasive human-machine interfaces. , 2018, , .		20
154	Live Demonstration: System based on Electronic Skin and Cutaneous Electrostimulation for Sensory Feedback in Prosthetics. , 2018, , .		1
155	Early Motor Unit Conduction Velocity Changes to High-Intensity Interval Training versus Continuous Training. Medicine and Science in Sports and Exercise, 2018, 50, 2339-2350.	0.4	29
156	Estimation of Phantom Limb Musculoskeletal Mechanics After Targeted Muscle Reinnervation: Towards Online Model-Based Control of Myoelectric Bionic Limbs* Resrach supported by ERC Advanced Grant DEMOVE (267888).. , 2018, , .		3
157	Robust simultaneous myoelectric control of multiple degrees of freedom in wrist-hand prostheses by real-time neuromusculoskeletal modeling. Journal of Neural Engineering, 2018, 15, 066026.	3.5	97
158	Relieving phantom limb pain with multimodal sensory-motor training. Journal of Neural Engineering, 2018, 15, 066022.	3.5	31
159	Rehabilitation Induced Neural Plasticity after Acquired Brain Injury. Neural Plasticity, 2018, 2018, 1-3.	2.2	12
160	3D printed upper limb prosthetics. Expert Review of Medical Devices, 2018, 15, 505-512.	2.8	48
161	A Multi-Class BCI Based on Somatosensory Imagery. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2018, 26, 1508-1515.	4.9	21
162	Central nervous system modulates the neuromechanical delay in a broad range for the control of muscle force. Journal of Applied Physiology, 2018, 125, 1404-1410.	2.5	49

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163	Surface electromyographic amplitude does not identify differences in neural drive to synergistic muscles. Journal of Applied Physiology, 2018, 124, 1071-1079.	2.5	96
164	A hybrid auricular control system: direct, simultaneous, and proportional myoelectric control of two degrees of freedom in prosthetic hands. Journal of Neural Engineering, 2018, 15, 056028.	3.5	12
165	Stacked Sparse Autoencoders for EMG-Based Classification of Hand Motions: A Comparative Multi Day Analyses between Surface and Intramuscular EMG. Applied Sciences (Switzerland), 2018, 8, 1126.	2.5	45
166	Multiday EMG-Based Classification of Hand Motions with Deep Learning Techniques. Sensors, 2018, 18, 2497.	3.8	146
167	A Classification Method for Myoelectric Control of Hand Prostheses Inspired by Muscle Coordination. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2018, 26, 1745-1755.	4.9	28
168	Reciprocal inhibition between motor neurons of the tibialis anterior and triceps surae in humans. Journal of Neurophysiology, 2018, 119, 1699-1706.	1.8	27
169	Motor unit territories in human genioglossus estimated with multichannel intramuscular electrodes. Journal of Applied Physiology, 2018, 124, 664-671.	2.5	23
170	Higher muscle fiber conduction velocity and early rate of torque development in chronically strength-trained individuals. Journal of Applied Physiology, 2018, 125, 1218-1226.	2.5	42
171	Decrease in force steadiness with aging is associated with increased power of the common but not independent input to motor neurons. Journal of Neurophysiology, 2018, 120, 1616-1624.	1.8	40
172	Estimation of Neuromuscular Primitives from EEG Slow Cortical Potentials in Incomplete Spinal Cord Injury Individuals for a New Class of Brain-Machine Interfaces. Frontiers in Computational Neuroscience, 2018, 12, 3.	2.1	12
173	Coherence of the Surface EMG and Common Synaptic Input to Motor Neurons. Frontiers in Human Neuroscience, 2018, 12, 207.	2.0	28
174	Does vibration superimposed on low-level isometric contraction alter motor unit recruitment strategy?. Journal of Neural Engineering, 2018, 15, 066001.	3.5	12
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