

Dario Farina

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/6167951/dario-farina-publications-by-year.pdf>

Version: 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

423
papers

19,453
citations

79
h-index

120
g-index

465
ext. papers

24,230
ext. citations

4.1
avg, IF

7.33
L-index

#	Paper	IF	Citations
423	Online tracking of the phase difference between neural drives to antagonist muscle pairs in essential tremor patients.. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2022 , PP,	4.8	2
422	Case Report: Plasticity in Central Sensory Finger Representation and Touch Perception After Microsurgical Reconstruction of Infraclavicular Brachial Plexus Injury.. <i>Frontiers in Neuroscience</i> , 2022 , 16, 793036	5.1	
421	Principles of human movement augmentation and the challenges in making it a reality.. <i>Nature Communications</i> , 2022 , 13, 1345	17.4	1
420	Kernel Density Estimation of Electromyographic Signals and Ensemble Learning for Highly Accurate Classification of a Large Set of Hand/Wrist Motions.. <i>Frontiers in Neuroscience</i> , 2022 , 16, 796711	5.1	
419	Consensus for experimental design in electromyography (CEDE) project: High-density surface electromyography matrix.. <i>Journal of Electromyography and Kinesiology</i> , 2022 , 64, 102656	2.5	4
418	Motor Unit Discharge Patterns in Response to Focal Tendon Vibration of the Lower Limb in Cats and Humans.. <i>Frontiers in Integrative Neuroscience</i> , 2022 , 16, 836757	3.2	
417	Optimization of HD-sEMG-Based Cross-Day Hand Gesture Classification by Optimal Feature Extraction and Data Augmentation. <i>IEEE Transactions on Human-Machine Systems</i> , 2022 , 1-11	4.1	2
416	Lack of increased rate of force development after strength training is explained by specific neural, not muscular, motor unit adaptations. <i>Journal of Applied Physiology</i> , 2021 ,	3.7	2
415	Sensing and decoding the neural drive to paralyzed muscles during attempted movements of a person with tetraplegia using a sleeve array. <i>Journal of Neurophysiology</i> , 2021 ,	3.2	4
414	Spinal Interfacing via Muscle Recordings for Neuroprosthesis Control 2021 , 1-29		
413	Electrotactile and Vibrotactile Feedback Enable Similar Performance in Psychometric Tests and Closed-loop Control. <i>IEEE Transactions on Haptics</i> , 2021 , PP,	2.7	3
412	Behavior of motor units during submaximal isometric contractions in chronically strength-trained individuals. <i>Journal of Applied Physiology</i> , 2021 , 131, 1584-1598	3.7	1
411	Deficit in knee extension strength following anterior cruciate ligament reconstruction is explained by a reduced neural drive to the vasti muscles. <i>Journal of Physiology</i> , 2021 , 599, 5103-5120	3.9	1
410	Force Steadiness: From Motor Units to Voluntary Actions. <i>Physiology</i> , 2021 , 36, 114-130	9.8	9
409	Towards a mechanistic approach for the development of non-invasive brain-computer interfaces for motor rehabilitation. <i>Journal of Physiology</i> , 2021 , 599, 2361-2374	3.9	5
408	Only the Fastest Corticospinal Fibers Contribute to Corticomuscular Coherence. <i>Journal of Neuroscience</i> , 2021 , 41, 4867-4879	6.6	4
407	Prosthetic Embodiment and Body Image Changes in Patients Undergoing Bionic Reconstruction Following Brachial Plexus Injury. <i>Frontiers in Neurobotics</i> , 2021 , 15, 645261	3.4	3

406	Simultaneous and proportional control of wrist and hand movements by decoding motor unit discharges in real time. <i>Journal of Neural Engineering</i> , 2021 ,	5	9
405	Toward higher-performance bionic limbs for wider clinical use. <i>Nature Biomedical Engineering</i> , 2021 ,	19	18
404	Analysis of motor unit spike trains estimated from high-density surface electromyography is highly reliable across operators. <i>Journal of Electromyography and Kinesiology</i> , 2021 , 58, 102548	2.5	5
403	Online control of an assistive active glove by slow cortical signals in patients with amyotrophic lateral sclerosis. <i>Journal of Neural Engineering</i> , 2021 , 18,	5	3
402	Synergistic Organization of Neural Inputs from Spinal Motor Neurons to Extrinsic and Intrinsic Hand Muscles. <i>Journal of Neuroscience</i> , 2021 , 41, 6878-6891	6.6	5
401	Control of Spinal Motoneurons by Feedback From a Non-Invasive Real-Time Interface. <i>IEEE Transactions on Biomedical Engineering</i> , 2021 , 68, 926-935	5	10
400	Deep Learning for Robust Decomposition of High-Density Surface EMG Signals. <i>IEEE Transactions on Biomedical Engineering</i> , 2021 , 68, 526-534	5	11
399	Individual differences in the neural strategies to control the lateral and medial head of the quadriceps during a mechanically constrained task. <i>Journal of Applied Physiology</i> , 2021 , 130, 269-281	3.7	5
398	Muscles from the same muscle group do not necessarily share common drive: evidence from the human triceps surae. <i>Journal of Applied Physiology</i> , 2021 , 130, 342-354	3.7	7
397	Intramuscular Stimulation of Muscle Afferents Attains Prolonged Tremor Reduction in Essential Tremor Patients. <i>IEEE Transactions on Biomedical Engineering</i> , 2021 , 68, 1768-1776	5	9
396	FS-HGR: Few-Shot Learning for Hand Gesture Recognition via Electromyography. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2021 , 29, 1004-1015	4.8	21
395	Prosthetic Feedback Systems 2021 , 147-167		0
394	Control Strategies for Functional Upper Limb Prostheses 2021 , 127-135		
393	Enhancing IoT Security via Cancelable HD-sEMG-based Biometric Authentication Password, Encoded by Gesture. <i>IEEE Internet of Things Journal</i> , 2021 , 1-1	10.7	13
392	Treatment Strategies for Phantom Limb Pain 2021 , 113-124		1
391	. <i>IEEE Signal Processing Magazine</i> , 2021 , 38, 103-118	9.4	7
390	. <i>IEEE Signal Processing Magazine</i> , 2021 , 38, 5-7	9.4	1
389	Consensus for experimental design in electromyography (CEDE) project: Terminology matrix. <i>Journal of Electromyography and Kinesiology</i> , 2021 , 59, 102565	2.5	8

388	Artificial Perception and Semiautonomous Control in Myoelectric Hand Prostheses Increases Performance and Decreases Effort. <i>IEEE Transactions on Robotics</i> , 2021 , 37, 1298-1312	6.5	7
387	Surface EMG cross talk quantified at the motor unit population level for muscles of the hand, thigh, and calf. <i>Journal of Applied Physiology</i> , 2021 , 131, 808-820	3.7	3
386	Recruitment order of motor neurons promoted by epidural stimulation in individuals with spinal cord injury. <i>Journal of Applied Physiology</i> , 2021 , 131, 1100-1110	3.7	0
385	Participant-specific classifier tuning increases the performance of hand movement detection from EEG in patients with amyotrophic lateral sclerosis. <i>Journal of Neural Engineering</i> , 2021 , 18,	5	2
384	Human-Robot Interaction With Robust Prediction of Movement Intention Surpasses Manual Control. <i>Frontiers in Neurobotics</i> , 2021 , 15, 695022	3.4	0
383	Pain-induced changes in motor unit discharge depend on recruitment threshold and contraction speed. <i>Journal of Applied Physiology</i> , 2021 , 131, 1260-1271	3.7	1
382	Proof of concept for multiple nerve transfers to a single target muscle. <i>ELife</i> , 2021 , 10,	8.9	1
381	Motor Unit Characteristics After Selective Nerve Transfers 2021 , 83-91		
380	A Multimodal Intention Detection Sensor Suite for Shared Autonomy of Upper-Limb Robotic Prostheses. <i>Sensors</i> , 2020 , 20,	3.8	7
379	Miniaturized Magnetic Sensors for Implantable Magnetomyography. <i>Advanced Materials Technologies</i> , 2020 , 5, 2000185	6.8	25
378	Wearable Dual-Frequency Vibrotactile System for Restoring Force and Stiffness Perception. <i>IEEE Transactions on Haptics</i> , 2020 , 13, 191-196	2.7	7
377	On-Line Recursive Decomposition of Intramuscular EMG Signals Using GPU-Implemented Bayesian Filtering. <i>IEEE Transactions on Biomedical Engineering</i> , 2020 , 67, 1806-1818	5	3
376	Adaptive Spatial Filtering of High-Density EMG for Reducing the Influence of Noise and Artefacts in Myoelectric Control. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2020 , 28, 1511-1517	4.8	12
375	Tutorial: Analysis of motor unit discharge characteristics from high-density surface EMG signals. <i>Journal of Electromyography and Kinesiology</i> , 2020 , 53, 102426	2.5	45
374	Real-time neurofeedback is effective in reducing diversion of attention from a motor task in healthy individuals and patients with amyotrophic lateral sclerosis. <i>Journal of Neural Engineering</i> , 2020 , 17, 036017	5	2
373	Magnetomyography: Miniaturized Magnetic Sensors for Implantable Magnetomyography (Adv. Mater. Technol. 6/2020). <i>Advanced Materials Technologies</i> , 2020 , 5, 2070033	6.8	0
372	Longitudinal Case Study of Regression-Based Hand Prosthesis Control in Daily Life. <i>Frontiers in Neuroscience</i> , 2020 , 14, 600	5.1	9
371	Muscle fiber conduction velocity in the vastus lateralis and medialis muscles of soccer players after ACL reconstruction. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2020 , 30, 1976-1984	4.6	4

370	Consensus for experimental design in electromyography (CEDE) project: Amplitude normalization matrix. <i>Journal of Electromyography and Kinesiology</i> , 2020 , 53, 102438	2.5	64
369	Divergent response of low- versus high-threshold motor units to experimental muscle pain. <i>Journal of Physiology</i> , 2020 , 598, 2093-2108	3.9	17
368	Direct translation of findings in isolated animal preparations to in vivo human motoneuron behaviour is challenging. <i>Journal of Physiology</i> , 2020 , 598, 1111-1112	3.9	
367	Real-Time Interface Algorithm for Ankle Kinematics and Stiffness From Electromyographic Signals. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2020 , 28, 1416-1427	4.8	3
366	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	4.8	1
365	Non-invasive analysis of motor neurons controlling the intrinsic and extrinsic muscles of the hand. <i>Journal of Neural Engineering</i> , 2020 , 17, 046033	5	9
364	Dual-Parameter Modulation Improves Stimulus Localization in Multichannel Electrotactile Stimulation. <i>IEEE Transactions on Haptics</i> , 2020 , 13, 393-403	2.7	7
363	Plasticity induced by pairing brain stimulation with motor-related states only targets a subset of cortical neurones. <i>Brain Stimulation</i> , 2020 , 13, 464-466	5.1	5
362	Strength Training Increases Conduction Velocity of High-Threshold Motor Units. <i>Medicine and Science in Sports and Exercise</i> , 2020 , 52, 955-967	1.2	13
361	Neurophysiological correlates of force control improvement induced by sinusoidal vibrotactile stimulation. <i>Journal of Neural Engineering</i> , 2020 , 17, 016043	5	4
360	The Interaction Between Feedback Type and Learning in Routine Grasping With Myoelectric Prostheses. <i>IEEE Transactions on Haptics</i> , 2020 , 13, 645-654	2.7	5
359	Comparison of Intramuscular and Surface Electromyography Recordings Towards the Control of Wearable Robots for Incomplete Spinal Cord Injury Rehabilitation 2020 ,		5
358	Rehabilitation of high upper limb amputees after Targeted Muscle Reinnervation. <i>Journal of Hand Therapy</i> , 2020 ,	1.6	1
357	Wearable multichannel haptic device for encoding proprioception in the upper limb. <i>Journal of Neural Engineering</i> , 2020 , 17, 056035	5	6
356	Spinal motoneurons of the human newborn are highly synchronized during leg movements. <i>Science Advances</i> , 2020 , 6,	14.3	12
355	Energetic Passivity Decoding of Human Hip Joint for Physical Human-Robot Interaction. <i>IEEE Robotics and Automation Letters</i> , 2020 , 5, 5953-5960	4.2	3
354	Subject-Specific EMG Modeling with Multiple Muscles: A Preliminary Study. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2020 , 2020, 740-743	0.9	0
353	Inability to increase the neural drive to muscle is associated with task failure during submaximal contractions. <i>Journal of Neurophysiology</i> , 2020 , 124, 1110-1121	3.2	10

352	On the Selection of Neural Network Architecture for Supervised Motor Unit Identification from High-Density Surface EMG. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2020, 2020, 736-739</i>	0.9	1
351	Toward Universal Neural Interfaces for Daily Use: Decoding the Neural Drive to Muscles Generalises Highly Accurate Finger Task Identification Across Humans. <i>IEEE Access, 2020, 8, 149025-149035</i>	3.5	4
350	Long exposure convolutional memory network for accurate estimation of finger kinematics from surface electromyographic signals. <i>Journal of Neural Engineering, 2020,</i>	5	8
349	Recursive Decomposition of Electromyographic Signals With a Varying Number of Active Sources: Bayesian Modeling and Filtering. <i>IEEE Transactions on Biomedical Engineering, 2020, 67, 428-440</i>	5	5
348	Neural and muscular determinants of maximal rate of force development. <i>Journal of Neurophysiology, 2020, 123, 149-157</i>	3.2	17
347	Hand gesture recognition based on motor unit spike trains decoded from high-density electromyography. <i>Biomedical Signal Processing and Control, 2020, 55, 101637</i>	4.9	31
346	Adaptive Real-Time Identification of Motor Unit Discharges From Non-Stationary High-Density Surface Electromyographic Signals. <i>IEEE Transactions on Biomedical Engineering, 2020, 67, 3501-3509</i>	5	12
345	Neuro-Musculoskeletal Mapping for Man-Machine Interfacing. <i>Scientific Reports, 2020, 10, 5834</i>	4.9	17
344	Simulation of Motor Unit Action Potential Recordings From Intramuscular Multichannel Scanning Electrodes. <i>IEEE Transactions on Biomedical Engineering, 2020, 67, 2005-2014</i>	5	2
343	Towards human motor augmentation by voluntary decoupling beta activity in the neural drive to muscle and force production. <i>Journal of Neural Engineering, 2020,</i>	5	5
342	Structured Motor Rehabilitation After Selective Nerve Transfers. <i>Journal of Visualized Experiments, 2019,</i>	1.6	7
341	Can Multi-DoF Training Improve Robustness of Muscle Synergy Inspired Myocontrollers?. <i>IEEE International Conference on Rehabilitation Robotics, 2019, 2019, 665-670</i>	1.3	0
340	Voluntary and tremorogenic inputs to motor neuron pools of agonist/antagonist muscles in essential tremor patients. <i>Journal of Neurophysiology, 2019, 122, 2043-2053</i>	3.2	8
339	Estimation of Phantom Arm Mechanics About Four Degrees of Freedom After Targeted Muscle Reinnervation. <i>IEEE Transactions on Medical Robotics and Bionics, 2019, 1, 58-64</i>	3.1	11
338	Directional Forgetting for Stable Co-Adaptation in Myoelectric Control. <i>Sensors, 2019, 19,</i>	3.8	4
337	The relative strength of common synaptic input to motor neurons is not a determinant of the maximal rate of force development in humans. <i>Journal of Applied Physiology, 2019, 127, 205-214</i>	3.7	17
336	Continuous 2D control via state-machine triggered by endogenous sensory discrimination and a fast brain switch. <i>Journal of Neural Engineering, 2019, 16, 056001</i>	5	9
335	The Relationship Between Blood Flow and Motor Unit Firing Rates in Response to Fatiguing Exercise Post-stroke. <i>Frontiers in Physiology, 2019, 10, 545</i>	4.6	5

334	Transferrable Expertise From Bionic Arms to Robotic Exoskeletons: Perspectives for Stroke and Duchenne Muscular Dystrophy. <i>IEEE Transactions on Medical Robotics and Bionics</i> , 2019 , 1, 88-96	3.1	7
333	Oscillations in neural drive and age-related reductions in force steadiness with a cognitive challenge. <i>Journal of Applied Physiology</i> , 2019 , 126, 1056-1065	3.7	11
332	Predicting wrist kinematics from motor unit discharge timings for the control of active prostheses. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2019 , 16, 47	5.3	34
331	Classification of Movement Preparation Between Attended and Distracted Self-Paced Motor Tasks. <i>IEEE Transactions on Biomedical Engineering</i> , 2019 , 66, 3060-3071	5	5
330	The increase in muscle force after 4 weeks of strength training is mediated by adaptations in motor unit recruitment and rate coding. <i>Journal of Physiology</i> , 2019 , 597, 1873-1887	3.9	90
329	A thin-film multichannel electrode for muscle recording and stimulation in neuroprosthetics applications. <i>Journal of Neural Engineering</i> , 2019 , 16, 026035	5	17
328	Experimental Testing of Bionic Peripheral Nerve and Muscle Interfaces: Animal Model Considerations. <i>Frontiers in Neuroscience</i> , 2019 , 13, 1442	5.1	4
327	Sensory Stimulation Training for BCI System Based on Somatosensory Attentional Orientation. <i>IEEE Transactions on Biomedical Engineering</i> , 2019 , 66, 640-646	5	14
326	An Online Spectral Information-Enhanced Approach for Artifact Detection and Fault Attenuation in Myoelectric Control. <i>IEEE International Conference on Rehabilitation Robotics</i> , 2019 , 2019, 671-675	1.3	
325	Multiclass Detection and Tracking of Transient Motor Activation based on Decomposed Myoelectric Signals 2019 ,		6
324	Long-term implant of intramuscular sensors and nerve transfers for wireless control of robotic arms in above-elbow amputees. <i>Science Robotics</i> , 2019 , 4,	18.6	36
323	Voluntary control of wearable robotic exoskeletons by patients with paresis via neuromechanical modeling. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2019 , 16, 91	5.3	40
322	Amplitude cancellation influences the association between frequency components in the neural drive to muscle and the rectified EMG signal. <i>PLoS Computational Biology</i> , 2019 , 15, e1006985	5	9
321	Optimal automatic detection of muscle activation intervals. <i>Journal of Electromyography and Kinesiology</i> , 2019 , 48, 103-111	2.5	10
320	Consensus for experimental design in electromyography (CEDE) project: Electrode selection matrix. <i>Journal of Electromyography and Kinesiology</i> , 2019 , 48, 128-144	2.5	43
319	Exogenous neuromodulation of spinal neurons induces beta-band coherence during self-sustained discharge of hind limb motor unit populations. <i>Journal of Applied Physiology</i> , 2019 , 127, 1034-1041	3.7	3
318	A high-density surface EMG framework for the study of motor neurons controlling the intrinsic and extrinsic muscles of the hand. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2019 , 2019, 2307-2310	0.9	0
317	A wearable neural interface for detecting and decoding attempted hand movements in a person with tetraplegia. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2019 , 2019, 1830-1833	0.9	8

316	Modulation of reciprocal inhibition at the wrist as a neurophysiological correlate of tremor suppression: a pilot healthy subject study. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2019, 2019, 6267-6272</i>	0.9	8
315	The human central nervous system transmits common synaptic inputs to distinct motor neuron pools during non-synergistic digit actions. <i>Journal of Physiology, 2019, 597, 5935-5948</i>	3.9	22
314	Multi-scale Modelling of the Human Neuromuscular System for Symbiotic Human-Machine Motor Interaction. <i>Biosystems and Biorobotics, 2019, 167-170</i>	0.2	
313	Analysis of Intramuscular Motor Unit Coherence in the Tibialis Anterior Muscle as a Tool for the Assessment of Robot-Assisted Rehabilitation. <i>Biosystems and Biorobotics, 2019, 231-235</i>	0.2	
312	Clinical Perspectives in Upper Limb Protheses: An Update. <i>Current Surgery Reports, 2019, 7, 1</i>	0.5	13
311	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. <i>Journal of Physiology, 2019, 597, 2445-2456</i>	3.9	99
310	Adaptive learning in the detection of Movement Related Cortical Potentials improves usability of associative Brain-Computer Interfaces. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2019, 2019, 3079-3082</i>	0.9	1
309	Peripheral nerve transfers change target muscle structure and function. <i>Science Advances, 2019, 5, eaau2256</i>	2.5	26
308	Brain state-dependent stimulation boosts functional recovery following stroke. <i>Annals of Neurology, 2019, 85, 84-95</i>	9.4	24
307	Bionic hand as artificial organ: Current status and future perspectives. <i>Artificial Organs, 2019, 43, 109-118</i>	18.6	9
306	Decoding motor neuron activity from epimysial thin-film electrode recordings following targeted muscle reinnervation. <i>Journal of Neural Engineering, 2019, 16, 016010</i>	5	18
305	Online Finger Control Using High-Density EMG and Minimal Training Data for Robotic Applications. <i>IEEE Robotics and Automation Letters, 2019, 4, 217-223</i>	4.2	18
304	Prediction of finger kinematics from discharge timings of motor units: implications for intuitive control of myoelectric protheses. <i>Journal of Neural Engineering, 2019, 16, 026005</i>	5	21
303	Interfacing the neural output of the spinal cord: robust and reliable longitudinal identification of motor neurons in humans. <i>Journal of Neural Engineering, 2019, 17, 016003</i>	5	14
302	Psychophysical Evaluation of Subdermal Electrical Stimulation in Relation to Prosthesis Sensory Feedback. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2018, 26, 709-715</i>	4.8	11
301	Performance of Brain-Computer Interfacing Based on Tactile Selective Sensation and Motor Imagery. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2018, 26, 60-68</i>	4.8	8
300	Online mapping of EMG signals into kinematics by autoencoding. <i>Journal of NeuroEngineering and Rehabilitation, 2018, 15, 21</i>	5.3	40
299	The clinical relevance of advanced artificial feedback in the control of a multi-functional myoelectric prosthesis. <i>Journal of NeuroEngineering and Rehabilitation, 2018, 15, 28</i>	5.3	50

298	Robust and accurate decoding of motoneuron behaviour and prediction of the resulting force output. <i>Journal of Physiology</i> , 2018 , 596, 2643-2659	3.9	54
297	Electro-tactile stimulation of the posterior neck induces body anteropulsion during upright stance. <i>Experimental Brain Research</i> , 2018 , 236, 1471-1478	2.3	3
296	Robust Real-Time Musculoskeletal Modeling Driven by Electromyograms. <i>IEEE Transactions on Biomedical Engineering</i> , 2018 , 65, 556-564	5	54
295	Robust extraction of basis functions for simultaneous and proportional myoelectric control via sparse non-negative matrix factorization. <i>Journal of Neural Engineering</i> , 2018 , 15, 026017	5	30
294	Decoding Motor Unit Activity From Forearm Muscles: Perspectives for Myoelectric Control. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2018 , 26, 244-251	4.8	39
293	Decoding Covert Somatosensory Attention by a BCI System Calibrated With Tactile Sensation. <i>IEEE Transactions on Biomedical Engineering</i> , 2018 , 65, 1689-1695	5	6
292	3D printed upper limb prosthetics. <i>Expert Review of Medical Devices</i> , 2018 , 15, 505-512	3.5	22
291	A Multi-Class BCI Based on Somatosensory Imagery. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2018 , 26, 1508-1515	4.8	14
290	Central nervous system modulates the neuromechanical delay in a broad range for the control of muscle force. <i>Journal of Applied Physiology</i> , 2018 , 125, 1404-1410	3.7	32
289	Surface electromyographic amplitude does not identify differences in neural drive to synergistic muscles. <i>Journal of Applied Physiology</i> , 2018 , 124, 1071-1079	3.7	61
288	A hybrid auricular control system: direct, simultaneous, and proportional myoelectric control of two degrees of freedom in prosthetic hands. <i>Journal of Neural Engineering</i> , 2018 , 15, 056028	5	7
287	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	2.6	26
286	Multiday EMG-Based Classification of Hand Motions with Deep Learning Techniques. <i>Sensors</i> , 2018 , 18,	3.8	85
285	A Classification Method for Myoelectric Control of Hand Prostheses Inspired by Muscle Coordination. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2018 , 26, 1745-1755	4.8	20
284	Reciprocal inhibition between motor neurons of the tibialis anterior and triceps surae in humans. <i>Journal of Neurophysiology</i> , 2018 , 119, 1699-1706	3.2	11
283	Motor unit territories in human genioglossus estimated with multichannel intramuscular electrodes. <i>Journal of Applied Physiology</i> , 2018 , 124, 664-671	3.7	16
282	Higher muscle fiber conduction velocity and early rate of torque development in chronically strength trained individuals. <i>Journal of Applied Physiology</i> , 2018 ,	3.7	21
281	Decrease in force steadiness with aging is associated with increased power of the common but not independent input to motor neurons. <i>Journal of Neurophysiology</i> , 2018 , 120, 1616-1624	3.2	26

280	Estimation of Neuromuscular Primitives from EEG Slow Cortical Potentials in Incomplete Spinal Cord Injury Individuals for a New Class of Brain-Machine Interfaces. <i>Frontiers in Computational Neuroscience</i> , 2018 , 12, 3	3.5	9
279	Coherence of the Surface EMG and Common Synaptic Input to Motor Neurons. <i>Frontiers in Human Neuroscience</i> , 2018 , 12, 207	3.3	15
278	Does vibration superimposed on low-level isometric contraction alter motor unit recruitment strategy?. <i>Journal of Neural Engineering</i> , 2018 , 15, 066001	5	9
277	Simultaneous control of multiple functions of bionic hand prostheses: Performance and robustness in end users. <i>Science Robotics</i> , 2018 , 3,	18.6	98
276	A Multi-Class Tactile Brain-Computer Interface Based on Stimulus-Induced Oscillatory Dynamics. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2018 , 26, 3-10	4.8	12
275	Tactile Stimulation Improves Sensorimotor Rhythm-based BCI Performance in Stroke Patients. <i>IEEE Transactions on Biomedical Engineering</i> , 2018 ,	5	13
274	Distribution of muscle fibre conduction velocity for representative samples of motor units in the full recruitment range of the tibialis anterior muscle. <i>Acta Physiologica</i> , 2018 , 222, e12930	5.6	38
273	Comparison of fMRI Digit Representations of the Dominant and Non-dominant Hand in the Human Primary Somatosensory Cortex. <i>Frontiers in Human Neuroscience</i> , 2018 , 12, 492	3.3	10
272	Stroke increases ischemia-related decreases in motor unit discharge rates. <i>Journal of Neurophysiology</i> , 2018 , 120, 3246-3256	3.2	5
271	A real-time surface EMG decomposition system for non-invasive human-machine interfaces 2018 ,		7
270	Early Motor Unit Conduction Velocity Changes to High-Intensity Interval Training versus Continuous Training. <i>Medicine and Science in Sports and Exercise</i> , 2018 , 50, 2339-2350	1.2	18
269	Robust simultaneous myoelectric control of multiple degrees of freedom in wrist-hand prostheses by real-time neuromusculoskeletal modeling. <i>Journal of Neural Engineering</i> , 2018 , 15, 066026	5	60
268	Relieving phantom limb pain with multimodal sensory-motor training. <i>Journal of Neural Engineering</i> , 2018 , 15, 066022	5	15
267	A BCI System Based on Somatosensory Attentional Orientation. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2017 , 25, 78-87	4.8	20
266	Multichannel Electrotactile Feedback With Spatial and Mixed Coding for Closed-Loop Control of Grasping Force in Hand Prostheses. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2017 , 25, 183-195	4.8	65
265	Tick-tock, spinal motor neurons go with the cortical clock in young infants. <i>Journal of Physiology</i> , 2017 , 595, 2405-2406	3.9	1
264	Man/machine interface based on the discharge timings of spinal motor neurons after targeted muscle reinnervation. <i>Nature Biomedical Engineering</i> , 2017 , 1,	19	150
263	Correlation between discharge timings of pairs of motor units reveals the presence but not the proportion of common synaptic input to motor neurons. <i>Journal of Neurophysiology</i> , 2017 , 117, 1749-1760	3.2	2

262	Differential Motor Unit Changes after Endurance or High-Intensity Interval Training. <i>Medicine and Science in Sports and Exercise</i> , 2017 , 49, 1126-1136	1.2	42
261	Classification of EEG signals to identify variations in attention during motor task execution. <i>Journal of Neuroscience Methods</i> , 2017 , 284, 27-34	3	32
260	A Real-Time Method for Decoding the Neural Drive to Muscles Using Single-Channel Intra-Muscular EMG Recordings. <i>International Journal of Neural Systems</i> , 2017 , 27, 1750025	6.2	19
259	Decomposition of Multi-Channel Intramuscular EMG Signals by Cyclostationary-Based Blind Source Separation. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2017 , 25, 2035-2045	4.8	12
258	Tactile feedback is an effective instrument for the training of grasping with a prosthesis at low- and medium-force levels. <i>Experimental Brain Research</i> , 2017 , 235, 2547-2559	2.3	28
257	Short- and Long-Term Learning of Feedforward Control of a Myoelectric Prosthesis with Sensory Feedback by Amputees. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2017 , 25, 2133-2145	4.8	40
256	GLIMPSE: Google Glass interface for sensory feedback in myoelectric hand prostheses. <i>Journal of Neural Engineering</i> , 2017 , 14, 036007	5	28
255	A Stimulus-Independent Hybrid BCI Based on Motor Imagery and Somatosensory Attentional Orientation. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2017 , 25, 1674-1682	4.8	26
254	Tracking motor units longitudinally across experimental sessions with high-density surface electromyography. <i>Journal of Physiology</i> , 2017 , 595, 1479-1496	3.9	71
253	Toward modeling locomotion using electromyography-informed 3D models: application to cerebral palsy. <i>Wiley Interdisciplinary Reviews: Systems Biology and Medicine</i> , 2017 , 9, e1368	6.6	25
252	In Vivo Neuromechanics: Decoding Causal Motor Neuron Behavior with Resulting Musculoskeletal Function. <i>Scientific Reports</i> , 2017 , 7, 13465	4.9	30
251	Common Synaptic Input to Motor Neurons and Neural Drive to Targeted Reinnervated Muscles. <i>Journal of Neuroscience</i> , 2017 , 37, 11285-11292	6.6	24
250	Axonal components of nerves innervating the human arm. <i>Annals of Neurology</i> , 2017 , 82, 396-408	9.4	54
249	Influence of dual-tasking with different levels of attention diversion on characteristics of the movement-related cortical potential. <i>Brain Research</i> , 2017 , 1674, 10-19	3.7	16
248	The effect of type of afferent feedback timed with motor imagery on the induction of cortical plasticity. <i>Brain Research</i> , 2017 , 1674, 91-100	3.7	19
247	Associations between motor unit action potential parameters and surface EMG features. <i>Journal of Applied Physiology</i> , 2017 , 123, 835-843	3.7	75
246	User adaptation in Myoelectric Man-Machine Interfaces. <i>Scientific Reports</i> , 2017 , 7, 4437	4.9	69
245	Specificity of surface EMG recordings for gastrocnemius during upright standing. <i>Scientific Reports</i> , 2017 , 7, 13300	4.9	22

244	Influence of attention alternation on movement-related cortical potentials in healthy individuals and stroke patients. <i>Clinical Neurophysiology</i> , 2017 , 128, 165-175	4.3	12
243	An Associative Brain-Computer-Interface for Acute Stroke Patients. <i>Biosystems and Biorobotics</i> , 2017 , 841-845	0.2	4
242	A System for Electrotactile Feedback Using Electronic Skin and Flexible Matrix Electrodes: Experimental Evaluation. <i>IEEE Transactions on Haptics</i> , 2017 , 10, 162-172	2.7	40
241	Electronic skin and electrocutaneous stimulation to restore the sense of touch in hand prosthetics 2017 ,		5
240	Distributed Sensing and Stimulation Systems for Sense of Touch Restoration in Prosthetics 2017 ,		8
239	Translating Research on Myoelectric Control into Clinics-Are the Performance Assessment Methods Adequate?. <i>Frontiers in Neurorobotics</i> , 2017 , 11, 7	3.4	56
238	Electrical Stimulation of Afferent Pathways for the Suppression of Pathological Tremor. <i>Frontiers in Neuroscience</i> , 2017 , 11, 178	5.1	28
237	Electrocorticographic Temporal Alteration Mapping: A Clinical Technique for Mapping the Motor Cortex with Movement-Related Cortical Potentials. <i>Frontiers in Neuroscience</i> , 2017 , 11, 326	5.1	2
236	Detection of Movement Related Cortical Potentials from EEG Using Constrained ICA for Brain-Computer Interface Applications. <i>Frontiers in Neuroscience</i> , 2017 , 11, 356	5.1	24
235	Broadband Prosthetic Interfaces: Combining Nerve Transfers and Implantable Multichannel EMG Technology to Decode Spinal Motor Neuron Activity. <i>Frontiers in Neuroscience</i> , 2017 , 11, 421	5.1	27
234	Sensory Feedback in Interlimb Coordination: Contralateral Afferent Contribution to the Short-Latency Crossed Response during Human Walking. <i>PLoS ONE</i> , 2017 , 12, e0168557	3.7	9
233	Motor Unit Coherence at Low Frequencies Increases Together with Cortical Excitability Following a Brain-Computer Interface Intervention in Acute Stroke Patients. <i>Biosystems and Biorobotics</i> , 2017 , 1001-1005	0.2	2
232	Prospects of Neurorehabilitation Technologies Based on Robust Decoding of the Neural Drive to Muscles Following Targeted Muscle Reinnervation. <i>Biosystems and Biorobotics</i> , 2017 , 1359-1363	0.2	1
231	Physiology of Muscle Activation and Force Generation 2016 , 1-29		1
230	Proportional estimation of finger movements from high-density surface electromyography. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2016 , 13, 73	5.3	35
229	Properties of the motor unit action potential shape in proximal and distal muscles of the upper limb in healthy and post-stroke individuals. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2016 , 2016, 335-339	0.9	5
228	Elective amputation and bionic substitution restore functional hand use after critical soft tissue injuries. <i>Scientific Reports</i> , 2016 , 6, 34960	4.9	28
227	High-Density Electromyography and Motor Skill Learning for Robust Long-Term Control of a 7-DoF Robot Arm. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2016 , 24, 424-33	4.8	73

226	. <i>Proceedings of the IEEE</i> , 2016 , 104, 353-373	14.3	85
225	Efficient neuroplasticity induction in chronic stroke patients by an associative brain-computer interface. <i>Journal of Neurophysiology</i> , 2016 , 115, 1410-21	3.2	131
224	Principles of Motor Unit Physiology Evolve With Advances in Technology. <i>Physiology</i> , 2016 , 31, 83-94	9.8	92
223	Endogenous Sensory Discrimination and Selection by a Fast Brain Switch for a High Transfer Rate Brain-Computer Interface. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2016 , 24, 901-10	4.8	17
222	A Novel Method to Generate Amplitude-Frequency Modulated Vibrotactile Stimulation. <i>IEEE Transactions on Haptics</i> , 2016 , 9, 3-12	2.7	17
221	Multi-channel intramuscular and surface EMG decomposition by convolutive blind source separation. <i>Journal of Neural Engineering</i> , 2016 , 13, 026027	5	208
220	Discriminative Manifold Learning Based Detection of Movement-Related Cortical Potentials. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2016 , 24, 921-927	4.8	18
219	Reflections on the present and future of upper limb prostheses. <i>Expert Review of Medical Devices</i> , 2016 , 13, 321-4	3.5	38
218	Improving the Robustness of Myoelectric Pattern Recognition for Upper Limb Prostheses by Covariate Shift Adaptation. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2016 , 24, 961-970	4.8	83
217	High-density surface electromyography provides reliable estimates of motor unit behavior. <i>Clinical Neurophysiology</i> , 2016 , 127, 2534-41	4.3	57
216	Context-Dependent Upper Limb Prosthesis Control for Natural and Robust Use. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2016 , 24, 744-53	4.8	66
215	Characterization of In-Body to On-Body Wireless Radio Frequency Link for Upper Limb Prostheses. <i>PLoS ONE</i> , 2016 , 11, e0164987	3.7	12
214	Electrotactile Feedback Improves Performance and Facilitates Learning in the Routine Grasping Task. <i>European Journal of Translational Myology</i> , 2016 , 26, 6069	2.1	27
213	New developments in prosthetic arm systems. <i>Orthopedic Research and Reviews</i> , 2016 , 8, 31-39	2.1	80
212	A Novel Percutaneous Electrode Implant for Improving Robustness in Advanced Myoelectric Control. <i>Frontiers in Neuroscience</i> , 2016 , 10, 114	5.1	20
211	Modular Control of Treadmill vs Overground Running. <i>PLoS ONE</i> , 2016 , 11, e0153307	3.7	32
210	Motor Unit Characteristics after Targeted Muscle Reinnervation. <i>PLoS ONE</i> , 2016 , 11, e0149772	3.7	32
209	Detection of Multiple Innervation Zones from Multi-Channel Surface EMG Recordings with Low Signal-to-Noise Ratio Using Graph-Cut Segmentation. <i>PLoS ONE</i> , 2016 , 11, e0167954	3.7	11

208	The human motor neuron pools receive a dominant slow-varying common synaptic input. <i>Journal of Physiology</i> , 2016 , 594, 5491-505	3.9	46
207	Integrated and flexible multichannel interface for electrotactile stimulation. <i>Journal of Neural Engineering</i> , 2016 , 13, 046014	5	57
206	Neural Data-Driven Musculoskeletal Modeling for Personalized Neurorehabilitation Technologies. <i>IEEE Transactions on Biomedical Engineering</i> , 2016 , 63, 879-893	5	83
205	Electrotactile EMG feedback improves the control of prosthesis grasping force. <i>Journal of Neural Engineering</i> , 2016 , 13, 056010	5	52
204	Multichannel electrotactile feedback for simultaneous and proportional myoelectric control. <i>Journal of Neural Engineering</i> , 2016 , 13, 056015	5	27
203	One central oscillatory drive is compatible with experimental motor unit behaviour in essential and Parkinsonian tremor. <i>Journal of Neural Engineering</i> , 2015 , 12, 046019	5	11
202	EMG Biofeedback for online predictive control of grasping force in a myoelectric prosthesis. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2015 , 12, 55	5.3	42
201	The phase difference between neural drives to antagonist muscles in essential tremor is associated with the relative strength of supraspinal and afferent input. <i>Journal of Neuroscience</i> , 2015 , 35, 8925-37	6.6	44
200	Detection of movement intention from single-trial movement-related cortical potentials using random and non-random paradigms. <i>Brain-Computer Interfaces</i> , 2015 , 2, 29-39	2	8
199	User adaptation in long-term, open-loop myoelectric training: implications for EMG pattern recognition in prosthesis control. <i>Journal of Neural Engineering</i> , 2015 , 12, 046005	5	95
198	The impact of the stimulation frequency on closed-loop control with electrotactile feedback. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2015 , 12, 35	5.3	20
197	Bionic reconstruction to restore hand function after brachial plexus injury: a case series of three patients. <i>Lancet, The</i> , 2015 , 385, 2183-9	40	85
196	A Multi-Class Proportional Myocontrol Algorithm for Upper Limb Prosthesis Control: Validation in Real-Life Scenarios on Amputees. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2015 , 23, 827-36	4.8	53
195	Online tremor suppression using electromyography and low-level electrical stimulation. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2015 , 23, 385-95	4.8	56
194	Building an internal model of a myoelectric prosthesis via closed-loop control for consistent and routine grasping. <i>Experimental Brain Research</i> , 2015 , 233, 1855-65	2.3	29
193	The effect of crossed reflex responses on dynamic stability during locomotion. <i>Journal of Neurophysiology</i> , 2015 , 114, 1034-40	3.2	8
192	Musculoskeletal representation of a large repertoire of hand grasping actions in primates. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2015 , 23, 210-20	4.8	25
191	The optimal neural strategy for a stable motor task requires a compromise between level of muscle cocontraction and synaptic gain of afferent feedback. <i>Journal of Neurophysiology</i> , 2015 , 114, 1895-911	3.2	12

190	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	5	53
189	Experimental muscle pain increases variability of neural drive to muscle and decreases motor unit coherence in tremor frequency band. <i>Journal of Neurophysiology</i> , 2015 , 114, 1041-7	3.2	7
188	Classification of motor unit activity following targeted muscle reinnervation 2015 ,		10
187	Motor Neuron Pools of Synergistic Thigh Muscles Share Most of Their Synaptic Input. <i>Journal of Neuroscience</i> , 2015 , 35, 12207-16	6.6	82
186	Sensor fusion and computer vision for context-aware control of a multi degree-of-freedom prosthesis. <i>Journal of Neural Engineering</i> , 2015 , 12, 066022	5	61
185	Adaptive common average filtering for myocontrol applications. <i>Medical and Biological Engineering and Computing</i> , 2015 , 53, 179-86	3.1	5
184	Physiological recruitment of motor units by high-frequency electrical stimulation of afferent pathways. <i>Journal of Applied Physiology</i> , 2015 , 118, 365-76	3.7	19
183	Human?Machine Interfacing by Decoding the Surface Electromyogram [Life Sciences]. <i>IEEE Signal Processing Magazine</i> , 2015 , 32, 115-120	9.4	25
182	A brain-computer interface for single-trial detection of gait initiation from movement related cortical potentials. <i>Clinical Neurophysiology</i> , 2015 , 126, 154-9	4.3	91
181	Influence of common synaptic input to motor neurons on the neural drive to muscle in essential tremor. <i>Journal of Neurophysiology</i> , 2015 , 113, 182-91	3.2	40
180	Short-latency crossed responses in the human biceps femoris muscle. <i>Journal of Physiology</i> , 2015 , 593, 3657-71	3.9	9
179	A Structured Rehabilitation Protocol for Improved Multifunctional Prosthetic Control: A Case Study. <i>Journal of Visualized Experiments</i> , 2015 , e52968	1.6	13
178	Estimating reflex responses in large populations of motor units by decomposition of the high-density surface electromyogram. <i>Journal of Physiology</i> , 2015 , 593, 4305-18	3.9	30
177	Power spectrum of the rectified EMG: when and why is rectification beneficial for identifying neural connectivity?. <i>Journal of Neural Engineering</i> , 2015 , 12, 036008	5	33
176	Accurate and representative decoding of the neural drive to muscles in humans with multi-channel intramuscular thin-film electrodes. <i>Journal of Physiology</i> , 2015 , 593, 3789-804	3.9	59
175	Human-Machine Interface for the Control of Multi-Function Systems Based on Electrocutaneous Menu: Application to Multi-Grasp Prosthetic Hands. <i>PLoS ONE</i> , 2015 , 10, e0127528	3.7	15
174	Common synaptic input to motor neurons, motor unit synchronization, and force control. <i>Exercise and Sport Sciences Reviews</i> , 2015 , 43, 23-33	6.7	126
173	Spatial correlation of high density EMG signals provides features robust to electrode number and shift in pattern recognition for myocontrol. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2015 , 23, 189-98	4.8	95

172	Theoretical Model and Experimental Validation of the estimated proportions of common and independent input to motor neurons. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2015, 2015, 254-7</i>	0.9	5
171	Online multi-class brain-computer interface for detection and classification of lower limb movement intentions and kinetics for stroke rehabilitation. <i>Brain-Computer Interfaces, 2015, 2, 202-210</i>	2	15
170	The proportion of common synaptic input to motor neurons increases with an increase in net excitatory input. <i>Journal of Applied Physiology, 2015, 119, 1337-46</i>	3.7	55
169	Individual finger classification from surface EMG: Influence of electrode set. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2015, 2015, 7284-7</i>	0.9	6
168	Modeling and simulating the neuromuscular mechanisms regulating ankle and knee joint stiffness during human locomotion. <i>Journal of Neurophysiology, 2015, 114, 2509-27</i>	3.2	69
167	Robustness of movement detection techniques from motor execution: Single trial movement related cortical potential 2015,		5
166	Reply to De Luca, Nawab, and Kline: The proposed method to validate surface EMG signal decomposition remains problematic. <i>Journal of Applied Physiology, 2015, 118, 1085</i>	3.7	12
165	Jaw tremor as a physiological biomarker of bruxism. <i>Clinical Neurophysiology, 2015, 126, 1746-53</i>	4.3	5
164	Sensory feedback in prosthetics: a standardized test bench for closed-loop control. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2015, 23, 267-76</i>	4.8	23
163	Prosthetic Myoelectric Control Strategies: A Clinical Perspective. <i>Current Surgery Reports, 2014, 2, 1</i>	0.5	134
162	Human stretch reflex pathways reexamined. <i>Journal of Neurophysiology, 2014, 111, 602-12</i>	3.2	16
161	Closed-loop control of grasping with a myoelectric hand prosthesis: which are the relevant feedback variables for force control?. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2014, 22, 1041-52</i>	4.8	84
160	Enhanced low-latency detection of motor intention from EEG for closed-loop brain-computer interface applications. <i>IEEE Transactions on Biomedical Engineering, 2014, 61, 288-96</i>	5	132
159	A hybrid intelligent system for diagnosing microalbuminuria in type 2 diabetes patients without having to measure urinary albumin. <i>Computers in Biology and Medicine, 2014, 45, 34-42</i>	7	18
158	Sequential decoding of intramuscular EMG signals via estimation of a Markov model. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2014, 22, 1030-40</i>	4.8	14
157	Hybrid neuromusculoskeletal modeling to best track joint moments using a balance between muscle excitations derived from electromyograms and optimization. <i>Journal of Biomechanics, 2014, 47, 3613-21</i>	2.9	105
156	An Accurate, Versatile, and Robust Brain Switch for Neurorehabilitation. <i>Springer Briefs in Electrical and Computer Engineering, 2014, 47-61</i>	0.4	7
155	Is accurate mapping of EMG signals on kinematics needed for precise online myoelectric control?. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2014, 22, 549-58</i>	4.8	135

154	HyVE: hybrid vibro-electrotactile stimulation for sensory feedback and substitution in rehabilitation. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2014 , 22, 290-301	4.8	47
153	Extracting signals robust to electrode number and shift for online simultaneous and proportional myoelectric control by factorization algorithms. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2014 , 22, 623-33	4.8	114
152	Intuitive, online, simultaneous, and proportional myoelectric control over two degrees-of-freedom in upper limb amputees. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2014 , 22, 501-10	4.8	179
151	The effective neural drive to muscles is the common synaptic input to motor neurons. <i>Journal of Physiology</i> , 2014 , 592, 3427-41	3.9	98
150	A state-based, proportional myoelectric control method: online validation and comparison with the clinical state-of-the-art. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2014 , 11, 110	5.3	24
149	Detection of Movement Intentions through a Single Channel of Electroencephalography. <i>Biosystems and Biorobotics</i> , 2014 , 465-472	0.2	6
148	Self-correcting pattern recognition system of surface EMG signals for upper limb prosthesis control. <i>IEEE Transactions on Biomedical Engineering</i> , 2014 , 61, 1167-76	5	129
147	A closed-loop brain-computer interface triggering an active ankle-foot orthosis for inducing cortical neural plasticity. <i>IEEE Transactions on Biomedical Engineering</i> , 2014 , 61, 2092-101	5	112
146	Noninvasive, accurate assessment of the behavior of representative populations of motor units in targeted reinnervated muscles. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2014 , 22, 810-9	4.8	28
145	The extraction of neural information from the surface EMG for the control of upper-limb prostheses: emerging avenues and challenges. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2014 , 22, 797-809	4.8	506
144	Linear and nonlinear regression techniques for simultaneous and proportional myoelectric control. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2014 , 22, 269-79	4.8	229
143	Slipping during side-step cutting: anticipatory effects and familiarization. <i>Human Movement Science</i> , 2014 , 34, 128-36	2.4	4
142	Multi-channel EMG recording and muscle stimulation electrodes for diagnosis and treatment of tremor 2014 ,		1
141	Limitations of the spike-triggered averaging for estimating motor unit twitch force: a theoretical analysis. <i>PLoS ONE</i> , 2014 , 9, e92390	3.7	5
140	Movement-related cortical potentials in paraplegic patients: abnormal patterns and considerations for BCI-rehabilitation. <i>Frontiers in Neuroengineering</i> , 2014 , 7, 35		18
139	Motor modules of human locomotion: influence of EMG averaging, concatenation, and number of step cycles. <i>Frontiers in Human Neuroscience</i> , 2014 , 8, 335	3.3	113
138	Extending mode switching to multiple degrees of freedom in hand prosthesis control is not efficient. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2014 , 2014, 658-61	0.9	18
137	Time-division multiplexing for myoelectric closed-loop control using electrotactile feedback. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2014 , 11, 138	5.3	31

136	Blind source identification from the multichannel surface electromyogram. <i>Physiological Measurement</i> , 2014 , 35, R143-65	2.9	71
135	HyVE-hybrid vibro-electrotactile stimulation-is an efficient approach to multi-channel sensory feedback. <i>IEEE Transactions on Haptics</i> , 2014 , 7, 181-90	2.7	29
134	Task-related changes in sensorimotor integration influence the common synaptic input to motor neurones. <i>Acta Physiologica</i> , 2014 , 211, 229-39	5.6	29
133	The extraction of neural strategies from the surface EMG: an update. <i>Journal of Applied Physiology</i> , 2014 , 117, 1215-30	3.7	252
132	Accurate identification of motor unit discharge patterns from high-density surface EMG and validation with a novel signal-based performance metric. <i>Journal of Neural Engineering</i> , 2014 , 11, 016008 ⁵		163
131	Bionic limbs: clinical reality and academic promises. <i>Science Translational Medicine</i> , 2014 , 6, 257ps12	17.5	82
130	Virtual grasping: closed-loop force control using electrotactile feedback. <i>Computational and Mathematical Methods in Medicine</i> , 2014 , 2014, 120357	2.8	36
129	Stereovision and augmented reality for closed-loop control of grasping in hand prostheses. <i>Journal of Neural Engineering</i> , 2014 , 11, 046001	5	70
128	A non-parametric Bayesian approach for clustering and tracking non-stationarities of neural spikes. <i>Journal of Neuroscience Methods</i> , 2014 , 223, 85-91	3	8
127	Manipulating measurement scales in medical statistical analysis and data mining: A review of methodologies. <i>Journal of Research in Medical Sciences</i> , 2014 , 19, 47-56	1.6	13
126	Detection of movement-related cortical potentials based on subject-independent training. <i>Medical and Biological Engineering and Computing</i> , 2013 , 51, 507-12	3.1	63
125	Effect of arm position on the prediction of kinematics from EMG in amputees. <i>Medical and Biological Engineering and Computing</i> , 2013 , 51, 143-51	3.1	77
124	Identification of common synaptic inputs to motor neurons from the rectified electromyogram. <i>Journal of Physiology</i> , 2013 , 591, 2403-18	3.9	78
123	Spike Sorting 2013 , 155-172		4
122	Motor unit recruitment by size does not provide functional advantages for motor performance. <i>Journal of Physiology</i> , 2013 , 591, 6139-56	3.9	7
121	A signal-based approach for assessing the accuracy of high-density surface EMG decomposition 2013 ,		2
120	Neural correlates of task-related changes in physiological tremor. <i>Journal of Neurophysiology</i> , 2013 , 110, 170-6	3.2	15
119	A musculoskeletal model of human locomotion driven by a low dimensional set of impulsive excitation primitives. <i>Frontiers in Computational Neuroscience</i> , 2013 , 7, 79	3.5	82

118	Comparison of movement related cortical potential in healthy people and amyotrophic lateral sclerosis patients. <i>Frontiers in Neuroscience</i> , 2013 , 7, 65	5.1	20
117	Simultaneous and proportional control of 2D wrist movements with myoelectric signals 2012 ,		21
116	Real time simultaneous and proportional control of multiple degrees of freedom from surface EMG: Preliminary results on subjects with limb deficiency. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2012 , 2012, 1346-9	0.9	24
115	Assessing the neural drive to muscle and translation to neurorehabilitation technologies. <i>IEEE Reviews in Biomedical Engineering</i> , 2012 , 5, 3-14	6.4	72
114	Precise temporal association between cortical potentials evoked by motor imagination and afference induces cortical plasticity. <i>Journal of Physiology</i> , 2012 , 590, 1669-82	3.9	181
113	EMG-based simultaneous and proportional estimation of wrist/hand kinematics in uni-lateral trans-radial amputees. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2012 , 9, 42	5.3	124
112	Simultaneous and proportional estimation of hand kinematics from EMG during mirrored movements at multiple degrees-of-freedom. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2012 , 20, 371-8	4.8	187
111	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	4.8	108
110	Multivariate pattern analysis of evoked brain potentials by temporal matching pursuit and support vector machine. <i>Scandinavian Journal of Pain</i> , 2012 , 3, 194-194	1.9	2
109	EMG-driven forward-dynamic estimation of muscle force and joint moment about multiple degrees of freedom in the human lower extremity. <i>PLoS ONE</i> , 2012 , 7, e52618	3.7	169
108	Surface EMG crosstalk during phasic involuntary muscle activation in the nociceptive withdrawal reflex. <i>Muscle and Nerve</i> , 2012 , 46, 228-36	3.4	13
107	Estimation of grasping force from features of intramuscular EMG signals with mirrored bilateral training. <i>Annals of Biomedical Engineering</i> , 2012 , 40, 648-56	4.7	50
106	Recruitment of motor units in the medial gastrocnemius muscle during human quiet standing: is recruitment intermittent? What triggers recruitment?. <i>Journal of Neurophysiology</i> , 2012 , 107, 666-76	3.2	44
105	Non-invasive characterization of motor unit behaviour in pathological tremor. <i>Journal of Neural Engineering</i> , 2012 , 9, 056011	5	57
104	Motor unit recruitment strategies and muscle properties determine the influence of synaptic noise on force steadiness. <i>Journal of Neurophysiology</i> , 2012 , 107, 3357-69	3.2	100
103	A Multimodal HumanRobot Interface to Drive a Neuroprosthesis for Tremor Management. <i>IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews</i> , 2012 , 42, 1159-1168		25
102	Changes in H reflex and V wave following short-term endurance and strength training. <i>Journal of Applied Physiology</i> , 2012 , 112, 54-63	3.7	74
101	Adjustments in motor unit properties during fatiguing contractions after training. <i>Medicine and Science in Sports and Exercise</i> , 2012 , 44, 616-24	1.2	33

100	Low-frequency oscillations of the neural drive to the muscle are increased with experimental muscle pain. <i>Journal of Neurophysiology</i> , 2012 , 107, 958-65	3.2	27
99	Myoelectric Control of Artificial Limbs: Is There a Need to Change Focus? [In the Spotlight]. <i>IEEE Signal Processing Magazine</i> , 2012 , 29, 152-150	9.4	196
98	Factors influencing the estimates of correlation between motor unit activities in humans. <i>PLoS ONE</i> , 2012 , 7, e44894	3.7	56
97	Reduced force steadiness in women with neck pain and the effect of short term vibration. <i>Journal of Electromyography and Kinesiology</i> , 2011 , 21, 283-90	2.5	37
96	Performance of a Simulated Adaptive BCI Based on Experimental Classification of Movement-Related and Error Potentials. <i>IEEE Journal on Emerging and Selected Topics in Circuits and Systems</i> , 2011 , 1, 480-488	5.2	27
95	Assessment of the electrophysiological properties of the muscle fibers of a transplanted hand. <i>Transplantation</i> , 2011 , 92, 1202-7	1.8	0
94	Surface EMG decomposition requires an appropriate validation. <i>Journal of Neurophysiology</i> , 2011 , 105, 981-2; author reply 983-4	3.2	44
93	Postural activation of the human medial gastrocnemius muscle: are the muscle units spatially localised?. <i>Journal of Physiology</i> , 2011 , 589, 431-43	3.9	83
92	Linear transmission of cortical oscillations to the neural drive to muscles is mediated by common projections to populations of motoneurons in humans. <i>Journal of Physiology</i> , 2011 , 589, 629-37	3.9	90
91	A model of the surface electromyogram in pathological tremor. <i>IEEE Transactions on Biomedical Engineering</i> , 2011 , 58,	5	23
90	Spike sorting by stochastic simulation. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2011 , 19, 249-59	4.8	14
89	Influence of the training set on the accuracy of surface EMG classification in dynamic contractions for the control of multifunction prostheses. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2011 , 8, 25	5.3	103
88	Simultaneous and proportional force estimation for multifunction myoelectric prostheses using mirrored bilateral training. <i>IEEE Transactions on Biomedical Engineering</i> , 2011 , 58, 681-8	5	172
87	Detection of movement intention from single-trial movement-related cortical potentials. <i>Journal of Neural Engineering</i> , 2011 , 8, 066009	5	168
86	Robust decomposition of single-channel intramuscular EMG signals at low force levels. <i>Journal of Neural Engineering</i> , 2011 , 8, 066015	5	23
85	EMG-based characterization of pathological tremor using the iterated Hilbert transform. <i>IEEE Transactions on Biomedical Engineering</i> , 2011 , 58, 2911-21	5	30
84	Noninvasive analysis of motor unit behavior in pathological tremor. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2011 , 2011, 7512-5	0.9	4
83	Neuromuscular adjustments that constrain submaximal EMG amplitude at task failure of sustained isometric contractions. <i>Journal of Applied Physiology</i> , 2011 , 111, 485-94	3.7	67

82	A modelling study on transmission of the central oscillator in tremor by a motor neuron pool. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2011, 2011, 2037-40</i>	0.9	2
81	Decorrelation of cortical inputs and motoneuron output. <i>Journal of Neurophysiology, 2011, 106, 2688-97</i>	3.2	48
80	Transmission of cortical oscillations to motoneuron output for force control 2011, 35-37		2
79	Characterization of Pathological Tremor from Motor Unit Spike Trains. <i>IFMBE Proceedings, 2011, 41-44</i>	0.2	3
78	High-density EMG E-textile systems for the control of active prostheses. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2010, 2010, 3591-3</i>	0.9	26
77	Decoding the neural drive to muscles from the surface electromyogram. <i>Clinical Neurophysiology, 2010, 121, 1616-23</i>	4.3	216
76	Effect of pain on the modulation in discharge rate of sternocleidomastoid motor units with force direction. <i>Clinical Neurophysiology, 2010, 121, 744-53</i>	4.3	53
75	An integrative model of motor unit activity during sustained submaximal contractions. <i>Journal of Applied Physiology, 2010, 108, 1550-62</i>	3.7	41
74	Motor unit behavior during submaximal contractions following six weeks of either endurance or strength training. <i>Journal of Applied Physiology, 2010, 109, 1455-66</i>	3.7	109
73	Identifying representative synergy matrices for describing muscular activation patterns during multidirectional reaching in the horizontal plane. <i>Journal of Neurophysiology, 2010, 103, 1532-42</i>	3.2	120
72	Experimental analysis of accuracy in the identification of motor unit spike trains from high-density surface EMG. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2010, 18, 221-9</i>	4.8	132
71	Offline Identification of Imagined Speed of Wrist Movements in Paralyzed ALS Patients from Single-Trial EEG. <i>Frontiers in Neuroscience, 2009, 3, 62</i>	5.1	25
70	Analysis of intramuscular electromyogram signals. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2009, 367, 357-68</i>	3	71
69	Identification of task parameters from movement-related cortical potentials. <i>Medical and Biological Engineering and Computing, 2009, 47, 1257-64</i>	3.1	36
68	Fluctuations in isometric muscle force can be described by one linear projection of low-frequency components of motor unit discharge rates. <i>Journal of Physiology, 2009, 587, 5925-38</i>	3.9	177
67	Relationship between grasping force and features of single-channel intramuscular EMG signals. <i>Journal of Neuroscience Methods, 2009, 185, 143-50</i>	3	51
66	Estimating motor unit discharge patterns from high-density surface electromyogram. <i>Clinical Neurophysiology, 2009, 120, 551-62</i>	4.3	171
65	Adjustments differ among low-threshold motor units during intermittent, isometric contractions. <i>Journal of Neurophysiology, 2009, 101, 350-9</i>	3.2	51

64	Sympathetic-induced changes in discharge rate and spike-triggered average twitch torque of low-threshold motor units in humans. <i>Journal of Physiology</i> , 2008 , 586, 5561-74	3.9	39
63	Neuromuscular adaptation in experimental and clinical neck pain. <i>Journal of Electromyography and Kinesiology</i> , 2008 , 18, 255-61	2.5	94
62	Non-uniform electromyographic activity during fatigue and recovery of the vastus medialis and lateralis muscles. <i>Journal of Electromyography and Kinesiology</i> , 2008 , 18, 390-6	2.5	23
61	Analysis of motor units with high-density surface electromyography. <i>Journal of Electromyography and Kinesiology</i> , 2008 , 18, 879-90	2.5	191
60	The pain-induced decrease in low-threshold motor unit discharge rate is not associated with the amount of increase in spike-triggered average torque. <i>Clinical Neurophysiology</i> , 2008 , 119, 43-51	4.3	31
59	Counterpoint: spectral properties of the surface EMG do not provide information about motor unit recruitment and muscle fiber type. <i>Journal of Applied Physiology</i> , 2008 , 105, 1673-4	3.7	45
58	Detecting the unique representation of motor-unit action potentials in the surface electromyogram. <i>Journal of Neurophysiology</i> , 2008 , 100, 1223-33	3.2	94
57	Amplitude cancellation of motor-unit action potentials in the surface electromyogram can be estimated with spike-triggered averaging. <i>Journal of Neurophysiology</i> , 2008 , 100, 431-40	3.2	51
56	Multichannel thin-film electrode for intramuscular electromyographic recordings. <i>Journal of Applied Physiology</i> , 2008 , 104, 821-7	3.7	54
55	Effect of muscle-fiber velocity recovery function on motor unit action potential properties in voluntary contractions. <i>Muscle and Nerve</i> , 2008 , 37, 650-8	3.4	17
54	Optimization of wavelets for classification of movement-related cortical potentials generated by variation of force-related parameters. <i>Journal of Neuroscience Methods</i> , 2007 , 162, 357-63	3	78
53	Estimation of muscle fiber conduction velocity with a spectral multidip approach. <i>IEEE Transactions on Biomedical Engineering</i> , 2007 , 54, 1583-9	5	29
52	Correlation of average muscle fiber conduction velocity measured during cycling exercise with myosin heavy chain composition, lactate threshold, and VO ₂ max. <i>Journal of Electromyography and Kinesiology</i> , 2007 , 17, 393-400	2.5	38
51	A finite element model for describing the effect of muscle shortening on surface EMG. <i>IEEE Transactions on Biomedical Engineering</i> , 2006 , 53, 593-600	5	45
50	Amplitude cancellation reduces the size of motor unit potentials averaged from the surface EMG. <i>Journal of Applied Physiology</i> , 2006 , 100, 1928-37	3.7	85
49	Decomposition of Intramuscular EMG Signals 2005 , 47-80		2
48	Biophysics of the Generation of EMG Signals 2005 , 81-105		16
47	Single-Channel Techniques for Information Extraction from the Surface EMG Signal 2005 , 133-168		5

46	Multi-Channel Techniques for Information Extraction from the Surface EMG 2005 , 169-203		1
45	Myoelectric Manifestations of Muscle Fatigue 2005 , 233-258		12
44	Effect of temperature on spike-triggered average torque and electrophysiological properties of low-threshold motor units. <i>Journal of Applied Physiology</i> , 2005 , 99, 197-203	3.7	44
43	Conduction velocity of low-threshold motor units during ischemic contractions performed with surface EMG feedback. <i>Journal of Applied Physiology</i> , 2005 , 98, 1487-94	3.7	15
42	Sensitivity of surface EMG-based conduction velocity estimates to local tissue in-homogeneities--influence of the number of channels and inter-channel distance. <i>Journal of Neuroscience Methods</i> , 2005 , 142, 83-9	3	19
41	Experimental muscle pain changes motor control strategies in dynamic contractions. <i>Experimental Brain Research</i> , 2005 , 164, 215-24	2.3	66
40	Experimental muscle pain reduces initial motor unit discharge rates during sustained submaximal contractions. <i>Journal of Applied Physiology</i> , 2005 , 98, 999-1005	3.7	60
39	Influence of amplitude cancellation on the simulated surface electromyogram. <i>Journal of Applied Physiology</i> , 2005 , 98, 120-31	3.7	287
38	Surface EMG Crosstalk Evaluated from Experimental Recordings and Simulated Signals. <i>Methods of Information in Medicine</i> , 2004 , 43, 30-35	1.5	65
37	Effect of power, pedal rate, and force on average muscle fiber conduction velocity during cycling. <i>Journal of Applied Physiology</i> , 2004 , 97, 2035-41	3.7	68
36	A surface EMG generation model with multilayer cylindrical description of the volume conductor. <i>IEEE Transactions on Biomedical Engineering</i> , 2004 , 51, 415-26	5	154
35	Simulation of surface EMG signals generated by muscle tissues with inhomogeneity due to fiber pinnation. <i>IEEE Transactions on Biomedical Engineering</i> , 2004 , 51, 1521-9	5	40
34	Assessment of average muscle fiber conduction velocity from surface EMG signals during fatiguing dynamic contractions. <i>IEEE Transactions on Biomedical Engineering</i> , 2004 , 51, 1383-93	5	100
33	Methods for estimating muscle fibre conduction velocity from surface electromyographic signals. <i>Medical and Biological Engineering and Computing</i> , 2004 , 42, 432-45	3.1	117
32	Advances in surface electromyographic signal simulation with analytical and numerical descriptions of the volume conductor. <i>Medical and Biological Engineering and Computing</i> , 2004 , 42, 467-76	3.1	31
31	Comparison of spatial filter selectivity in surface myoelectric signal detection: influence of the volume conductor model. <i>Medical and Biological Engineering and Computing</i> , 2004 , 42, 114-20	3.1	30
30	Reproducibility of muscle-fiber conduction velocity estimates using multichannel surface EMG techniques. <i>Muscle and Nerve</i> , 2004 , 29, 282-91	3.4	35
29	Muscle-fiber conduction velocity estimated from surface EMG signals during explosive dynamic contractions. <i>Muscle and Nerve</i> , 2004 , 29, 823-33	3.4	34

28	Estimation of average muscle fiber conduction velocity from two-dimensional surface EMG recordings. <i>Journal of Neuroscience Methods</i> , 2004 , 134, 199-208	3	47
27	The extraction of neural strategies from the surface EMG. <i>Journal of Applied Physiology</i> , 2004 , 96, 1486-957	3.7	988
26	M-wave properties during progressive motor unit activation by transcutaneous stimulation. <i>Journal of Applied Physiology</i> , 2004 , 97, 545-55	3.7	44
25	Effect of experimental muscle pain on motor unit firing rate and conduction velocity. <i>Journal of Neurophysiology</i> , 2004 , 91, 1250-9	3.2	157
24	Selectivity of spatial filters for surface EMG detection from the tibialis anterior muscle. <i>IEEE Transactions on Biomedical Engineering</i> , 2003 , 50, 354-64	5	49
23	The linear electrode array: a useful tool with many applications. <i>Journal of Electromyography and Kinesiology</i> , 2003 , 13, 37-47	2.5	204
22	Assessment of low back muscle fatigue by surface EMG signal analysis: methodological aspects. <i>Journal of Electromyography and Kinesiology</i> , 2003 , 13, 319-32	2.5	79
21	Motor unit recruitment strategies investigated by surface EMG variables. <i>Journal of Applied Physiology</i> , 2002 , 92, 235-47	3.7	206
20	Surface EMG crosstalk between knee extensor muscles: experimental and model results. <i>Muscle and Nerve</i> , 2002 , 26, 681-95	3.4	141
19	Standardising surface electromyogram recordings for assessment of activity and fatigue in the human upper trapezius muscle. <i>European Journal of Applied Physiology</i> , 2002 , 86, 469-78	3.4	118
18	Influence of anatomical, physical, and detection-system parameters on surface EMG. <i>Biological Cybernetics</i> , 2002 , 86, 445-56	2.8	246
17	Assessment of single motor unit conduction velocity during sustained contractions of the tibialis anterior muscle with advanced spike triggered averaging. <i>Journal of Neuroscience Methods</i> , 2002 , 115, 1-12	3	113
16	Nonlinear surface EMG analysis to detect changes of motor unit conduction velocity and synchronization. <i>Journal of Applied Physiology</i> , 2002 , 93, 1753-63	3.7	145
15	A novel approach for joint estimation of time delay and scale factor with applications to the M-wave analysis 2001 ,		1
14	Estimation of single motor unit conduction velocity from surface electromyogram signals detected with linear electrode arrays. <i>Medical and Biological Engineering and Computing</i> , 2001 , 39, 225-36	3.1	145
13	A model for the generation of synthetic intramuscular EMG signals to test decomposition algorithms. <i>IEEE Transactions on Biomedical Engineering</i> , 2001 , 48, 66-77	5	47
12	A novel approach for precise simulation of the EMG signal detected by surface electrodes. <i>IEEE Transactions on Biomedical Engineering</i> , 2001 , 48, 637-46	5	189
11	Concentric-ring electrode systems for noninvasive detection of single motor unit activity. <i>IEEE Transactions on Biomedical Engineering</i> , 2001 , 48, 1326-34	5	75

10	Evaluation of intra-muscular EMG signal decomposition algorithms. <i>Journal of Electromyography and Kinesiology</i> , 2001 , 11, 175-87	2.5	51
9	Surface electromyography for noninvasive characterization of muscle. <i>Exercise and Sport Sciences Reviews</i> , 2001 , 29, 20-5	6.7	188
8	Effect of electrode shape on spectral features of surface detected motor unit action potentials. <i>Acta Physiologica Et Pharmacologica Bulgarica</i> , 2001 , 26, 63-6		6
7	Noninvasive estimation of motor unit conduction velocity distribution using linear electrode arrays. <i>IEEE Transactions on Biomedical Engineering</i> , 2000 , 47, 380-8	5	119
6	Geometrical factors in surface EMG of the vastus medialis and lateralis muscles. <i>Journal of Electromyography and Kinesiology</i> , 2000 , 10, 327-36	2.5	138
5	Comparison of algorithms for estimation of EMG variables during voluntary isometric contractions. <i>Journal of Electromyography and Kinesiology</i> , 2000 , 10, 337-49	2.5	234
4	Compensation of the effect of sub-cutaneous tissue layers on surface EMG: a simulation study. <i>Medical Engineering and Physics</i> , 1999 , 21, 487-97	2.4	95
3	Interfacing Spinal Motor Units in Non-Human Primates Identifies a Principal Neural Component for Force Control Constrained by the Size Principle		1
2	Sensing and decoding the neural drive to paralyzed muscles during attempted movements of a person with tetraplegia using a sleeve array		3
1	The control and training of single motor units in isometric tasks are constrained by a common synaptic input signal		2