Dario Farina

List of Publications by Year
in descending order

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	The extraction of neural strategies from the surface EMG. Journal of Applied Physiology, 2004, 96, 1486-1495.	2.5	1,166
2	The Extraction of Neural Information from the Surface EMG for the Control of Upper-Limb Prostheses: Emerging Avenues and Challenges. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2014, 22, 797-809.	4.9	725
3	Multi-channel intramuscular and surface EMG decomposition by convolutive blind source separation. Journal of Neural Engineering, 2016, 13, 026027.	3.5	391
4	The extraction of neural strategies from the surface EMG: an update. Journal of Applied Physiology, 2014, 117, 1215-1230.	2.5	378
5	Influence of amplitude cancellation on the simulated surface electromyogram. Journal of Applied Physiology, 2005, 98, 120-131.	2.5	324
6	Linear and Nonlinear Regression Techniques for Simultaneous and Proportional Myoelectric Control. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2014, 22, 269-279.	4.9	298
7	Influence of anatomical, physical, and detection-system parameters on surface EMG. Biological Cybernetics, 2002, 86, 445-456.	1.3	296
8	Comparison of algorithms for estimation of EMG variables during voluntary isometric contractions. Journal of Electromyography and Kinesiology, 2000, 10, 337-349.	1.7	279
9	Decoding the neural drive to muscles from the surface electromyogram. Clinical Neurophysiology, 2010, 121, 1616-1623.	1.5	279
10	Accurate identification of motor unit discharge patterns from high-density surface EMG and validation with a novel signal-based performance metric. Journal of Neural Engineering, 2014, 11, 016008.	3.5	279
11	Myoelectric Control of Artificial Limbsâ€"Is There a Need to Change Focus? [In the Spotlight]. IEEE Signal Processing Magazine, 2012, 29, 152-150.	5.6	275
12	Analysis of motor units with high-density surface electromyography. Journal of Electromyography and Kinesiology, 2008, 18, 879-890.	1.7	246
13	Man/machine interface based on the discharge timings of spinal motor neurons after targeted muscle reinnervation. Nature Biomedical Engineering, 2017, 1, .	22.5	245
14	EMG-Driven Forward-Dynamic Estimation of Muscle Force and Joint Moment about Multiple Degrees of Freedom in the Human Lower Extremity. PLoS ONE, 2012, 7, e52618.	2.5	239
15	Simultaneous and Proportional Estimation of Hand Kinematics From EMG During Mirrored Movements at Multiple Degrees-of-Freedom. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2012, 20, 371-378.	4.9	238
16	Motor unit recruitment strategies investigated by surface EMG variables. Journal of Applied Physiology, 2002, 92, 235-247.	2.5	237
17	Fluctuations in isometric muscle force can be described by one linear projection of lowâ€frequency components of motor unit discharge rates. Journal of Physiology, 2009, 587, 5925-5938.	2.9	236
18	The linear electrode array: a useful tool with many applications. Journal of Electromyography and Kinesiology, 2003, 13, 37-47.	1.7	234

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19	Estimating motor unit discharge patterns from high-density surface electromyogram. Clinical Neurophysiology, 2009, 120, 551-562.	1.5	234
20	A novel approach for precise simulation of the EMG signal detected by surface electrodes. IEEE Transactions on Biomedical Engineering, 2001, 48, 637-646.	4.2	229
21	Surface Electromyography for Noninvasive Characterization of Muscle. Exercise and Sport Sciences Reviews, 2001, 29, 20-25.	3.0	227
22	Intuitive, Online, Simultaneous, and Proportional Myoelectric Control Over Two Degrees-of-Freedom in Upper Limb Amputees. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2014, 22, 501-510.	4.9	223
23	Simultaneous and Proportional Force Estimation for Multifunction Myoelectric Prostheses Using Mirrored Bilateral Training. IEEE Transactions on Biomedical Engineering, 2011, 58, 681-688.	4.2	212
24	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
25	Precise temporal association between cortical potentials evoked by motor imagination and afference induces cortical plasticity. Journal of Physiology, 2012, 590, 1669-1682.	2.9	210
26	Detection of movement intention from single-trial movement-related cortical potentials. Journal of Neural Engineering, 2011, 8, 066009.	3.5	208
27	Common Synaptic Input to Motor Neurons, Motor Unit Synchronization, and Force Control. Exercise and Sport Sciences Reviews, 2015, 43, 23-33.	3.0	208
28	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
29	Tutorial: Analysis of motor unit discharge characteristics from high-density surface EMG signals. Journal of Electromyography and Kinesiology, 2020, 53, 102426.	1.7	193
30	Prosthetic Myoelectric Control Strategies: A Clinical Perspective. Current Surgery Reports, 2014, 2, 1.	0.9	191
31	Efficient neuroplasticity induction in chronic stroke patients by an associative brain-computer interface. Journal of Neurophysiology, 2016, 115, 1410-1421.	1.8	189
32	A Surface EMG Generation Model With Multilayer Cylindrical Description of the Volume Conductor. IEEE Transactions on Biomedical Engineering, 2004, 51, 415-426.	4.2	186
33	Experimental Analysis of Accuracy in the Identification of Motor Unit Spike Trains From High-Density Surface EMG. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2010, 18, 221-229.	4.9	183
34	Is Accurate Mapping of EMG Signals on Kinematics Needed for Precise Online Myoelectric Control?. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2014, 22, 549-558.	4.9	177
35	Effect of Experimental Muscle Pain on Motor Unit Firing Rate and Conduction Velocity. Journal of Neurophysiology, 2004, 91, 1250-1259.	1.8	172
36	Estimation of single motor unit conduction velocity from surface electromyogram signals detected with linear electrode arrays. Medical and Biological Engineering and Computing, 2001, 39, 225-236.	2.8	171

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37	Nonlinear surface EMG analysis to detect changes of motor unit conduction velocity and synchronization. Journal of Applied Physiology, 2002, 93, 1753-1763.	2.5	170
38	Consensus for experimental design in electromyography (CEDE) project: Amplitude normalization matrix. Journal of Electromyography and Kinesiology, 2020, 53, 102438.	1.7	170
39	Enhanced Low-Latency Detection of Motor Intention From EEG for Closed-Loop Brain-Computer Interface Applications. IEEE Transactions on Biomedical Engineering, 2014, 61, 288-296.	4.2	168
40	Motor modules of human locomotion: influence of EMG averaging, concatenation, and number of step cycles. Frontiers in Human Neuroscience, 2014, 8, 335.	2.0	166
41	Self-Correcting Pattern Recognition System of Surface EMG Signals for Upper Limb Prosthesis Control. IEEE Transactions on Biomedical Engineering, 2014, 61, 1167-1176.	4.2	163
42	Surface EMG crosstalk between knee extensor muscles: Experimental and model results. Muscle and Nerve, 2002, 26, 681-695.	2.2	161
43	Geometrical factors in surface EMG of the vastus medialis and lateralis muscles. Journal of Electromyography and Kinesiology, 2000, 10, 327-336.	1.7	158
44	Hybrid neuromusculoskeletal modeling to best track joint moments using a balance between muscle excitations derived from electromyograms and optimization. Journal of Biomechanics, 2014, 47, 3613-3621.	2.1	158
45	Simultaneous control of multiple functions of bionic hand prostheses: Performance and robustness in end users. Science Robotics, 2018, 3, .	17.6	158
46	Detecting the Unique Representation of Motor-Unit Action Potentials in the Surface Electromyogram. Journal of Neurophysiology, 2008, 100, 1223-1233.	1.8	153
47	The effective neural drive to muscles is the common synaptic input to motor neurons. Journal of Physiology, 2014, 592, 3427-3441.	2.9	153
48	EMG-based simultaneous and proportional estimation of wrist/hand kinematics in uni-lateral trans-radial amputees. Journal of NeuroEngineering and Rehabilitation, 2012, 9, 42.	4.6	152
49	Identifying Representative Synergy Matrices for Describing Muscular Activation Patterns During Multidirectional Reaching in the Horizontal Plane. Journal of Neurophysiology, 2010, 103, 1532-1542.	1.8	150
50	Principles of Motor Unit Physiology Evolve With Advances in Technology. Physiology, 2016, 31, 83-94.	3.1	147
51	Multiday EMG-Based Classification of Hand Motions with Deep Learning Techniques. Sensors, 2018, 18, 2497.	3.8	146
52	Extracting Signals Robust to Electrode Number and Shift for Online Simultaneous and Proportional Myoelectric Control by Factorization Algorithms. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2014, 22, 623-633.	4.9	145
53	Characterization of Human Motor Units From Surface EMG Decomposition. Proceedings of the IEEE, 2016, 104, 353-373.	21.3	143
54	Noninvasive estimation of motor unit conduction velocity distribution using linear electrode arrays. IEEE Transactions on Biomedical Engineering, 2000, 47, 380-388.	4.2	140

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55	Tracking motor units longitudinally across experimental sessions with highâ€density surface electromyography. Journal of Physiology, 2017, 595, 1479-1496.	2.9	139
56	Methods for estimating muscle fibre conduction velocity from surface electromyographic signals. Medical and Biological Engineering and Computing, 2004, 42, 432-445.	2.8	137
57	A Closed-Loop Brainâ€"Computer Interface Triggering an Active Ankleâ€"Foot Orthosis for Inducing Cortical Neural Plasticity. IEEE Transactions on Biomedical Engineering, 2014, 61, 2092-2101.	4.2	137
58	Standardising surface electromyogram recordings for assessment of activity and fatigue in the human upper trapezius muscle. European Journal of Applied Physiology, 2002, 86, 469-478.	2.5	136
59	Spatial Correlation of High Density EMG Signals Provides Features Robust to Electrode Number and Shift in Pattern Recognition for Myocontrol. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2015, 23, 189-198.	4.9	136
60	Motor unit behavior during submaximal contractions following six weeks of either endurance or strength training. Journal of Applied Physiology, 2010, 109, 1455-1466.	2.5	132
61	Closed-Loop Control of Grasping With a Myoelectric Hand Prosthesis: Which Are the Relevant Feedback Variables for Force Control?. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2014, 22, 1041-1052.	4.9	132
62	Influence of the training set on the accuracy of surface EMG classification in dynamic contractions for the control of multifunction prostheses. Journal of NeuroEngineering and Rehabilitation, 2011, 8, 25.	4.6	131
63	Peripheral Electrical Stimulation Triggered by Self-Paced Detection of Motor Intention Enhances Motor Evoked Potentials. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2012, 20, 595-604.	4.9	129
64	Assessment of single motor unit conduction velocity during sustained contractions of the tibialis anterior muscle with advanced spike triggered averaging. Journal of Neuroscience Methods, 2002, 115, 1-12.	2.5	126
65	User adaptation in long-term, open-loop myoelectric training: implications for EMG pattern recognition in prosthesis control. Journal of Neural Engineering, 2015, 12, 046005.	3.5	126
66	Improving the Robustness of Myoelectric Pattern Recognition for Upper Limb Prostheses by Covariate Shift Adaptation. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2016, 24, 961-970.	4.9	126
67	Motor unit recruitment strategies and muscle properties determine the influence of synaptic noise on force steadiness. Journal of Neurophysiology, 2012, 107, 3357-3369.	1.8	123
68	Blind source identification from the multichannel surface electromyogram. Physiological Measurement, 2014, 35, R143-R165.	2.1	121
69	Neural Data-Driven Musculoskeletal Modeling for Personalized Neurorehabilitation Technologies. IEEE Transactions on Biomedical Engineering, 2016, 63, 879-893.	4.2	121
70	Neuromuscular adaptation in experimental and clinical neck pain. Journal of Electromyography and Kinesiology, 2008, 18, 255-261.	1.7	118
71	Bionic Limbs: Clinical Reality and Academic Promises. Science Translational Medicine, 2014, 6, 257ps12.	12.4	117
72	Bionic reconstruction to restore hand function after brachial plexus injury: a case series of three patients. Lancet, The, 2015, 385, 2183-2189.	13.7	116

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73	Linear transmission of cortical oscillations to the neural drive to muscles is mediated by common projections to populations of motoneurons in humans. Journal of Physiology, 2011, 589, 629-637.	2.9	115
74	Associations between motor unit action potential parameters and surface EMG features. Journal of Applied Physiology, 2017, 123, 835-843.	2.5	115
75	Motor Neuron Pools of Synergistic Thigh Muscles Share Most of Their Synaptic Input. Journal of Neuroscience, 2015, 35, 12207-12216.	3.6	114
76	A brainâ€"computer interface for single-trial detection of gait initiation from movement related cortical potentials. Clinical Neurophysiology, 2015, 126, 154-159.	1.5	112
77	Compensation of the effect of sub-cutaneous tissue layers on surface EMG: a simulation study. Medical Engineering and Physics, 1999, 21, 487-497.	1.7	111
78	Assessment of Average Muscle Fiber Conduction Velocity From Surface EMG Signals During Fatiguing Dynamic Contractions. IEEE Transactions on Biomedical Engineering, 2004, 51, 1383-1393.	4.2	111
79	New developments in prosthetic arm systems. Orthopedic Research and Reviews, 2016, Volume 8, 31-39.	1.1	111
80	Axonal components of nerves innervating the human arm. Annals of Neurology, 2017, 82, 396-408.	5.3	111
81	High-Density Electromyography and Motor Skill Learning for Robust Long-Term Control of a 7-DoF Robot Arm. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2016, 24, 424-433.	4.9	110
82	Analysis of intramuscular electromyogram signals. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2009, 367, 357-368.	3.4	106
83	A musculoskeletal model of human locomotion driven by a low dimensional set of impulsive excitation primitives. Frontiers in Computational Neuroscience, 2013, 7, 79.	2.1	106
84	Robust Real-Time Musculoskeletal Modeling Driven by Electromyograms. IEEE Transactions on Biomedical Engineering, 2018, 65, 556-564.	4.2	105
85	Modeling and simulating the neuromuscular mechanisms regulating ankle and knee joint stiffness during human locomotion. Journal of Neurophysiology, 2015, 114, 2509-2527.	1.8	104
86	User adaptation in Myoelectric Man-Machine Interfaces. Scientific Reports, 2017, 7, 4437.	3.3	104
87	Toward higher-performance bionic limbs for wider clinical use. Nature Biomedical Engineering, 2023, 7, 473-485.	22.5	104
88	Amplitude cancellation reduces the size of motor unit potentials averaged from the surface EMG. Journal of Applied Physiology, 2006, 100, 1928-1937.	2.5	100
89	Identification of common synaptic inputs to motor neurons from the rectified electromyogram. Journal of Physiology, 2013, 591, 2403-2418.	2.9	98
90	Multichannel Electrotactile Feedback With Spatial and Mixed Coding for Closed-Loop Control of Grasping Force in Hand Prostheses. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2017, 25, 183-195.	4.9	98

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91	Robust and accurate decoding of motoneuron behaviour and prediction of the resulting force output. Journal of Physiology, 2018, 596, 2643-2659.	2.9	98
92	Postural activation of the human medial gastrocnemius muscle: are the muscle units spatially localised?. Journal of Physiology, 2011, 589, 431-443.	2.9	97
93	Effect of arm position on the prediction of kinematics from EMG in amputees. Medical and Biological Engineering and Computing, 2013, 51, 143-151.	2.8	97
94	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
95	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
96	Surface electromyographic amplitude does not identify differences in neural drive to synergistic muscles. Journal of Applied Physiology, 2018, 124, 1071-1079.	2.5	96
97	Assessment of low back muscle fatigue by surface EMG signal analysis: methodological aspects. Journal of Electromyography and Kinesiology, 2003, 13, 319-332.	1.7	95
98	Stereovision and augmented reality for closed-loop control of grasping in hand prostheses. Journal of Neural Engineering, 2014, 11, 046001.	3.5	95
99	Consensus for experimental design in electromyography (CEDE) project: Electrode selection matrix. Journal of Electromyography and Kinesiology, 2019, 48, 128-144.	1.7	95
100	Accessing the Neural Drive to Muscle and Translation to Neurorehabilitation Technologies. IEEE Reviews in Biomedical Engineering, 2012, 5, 3-14.	18.0	93
101	Optimization of wavelets for classification of movement-related cortical potentials generated by variation of force-related parameters. Journal of Neuroscience Methods, 2007, 162, 357-363.	2.5	92
102	Changes in H reflex and V wave following short-term endurance and strength training. Journal of Applied Physiology, 2012, 112, 54-63.	2.5	90
103	Sensor fusion and computer vision for context-aware control of a multi degree-of-freedom prosthesis. Journal of Neural Engineering, 2015, 12, 066022.	3.5	89
104	High-density surface electromyography provides reliable estimates of motor unit behavior. Clinical Neurophysiology, 2016, 127, 2534-2541.	1.5	89
105	Concentric-ring electrode systems for noninvasive detection of single motor unit activity. IEEE Transactions on Biomedical Engineering, 2001, 48, 1326-1334.	4.2	87
106	Neuromuscular adjustments that constrain submaximal EMG amplitude at task failure of sustained isometric contractions. Journal of Applied Physiology, 2011, 111, 485-494.	2.5	87
107	Accurate and representative decoding of the neural drive to muscles in humans with multiâ€channel intramuscular thinâ€film electrodes. Journal of Physiology, 2015, 593, 3789-3804.	2.9	87
108	Online Tremor Suppression Using Electromyography and Low-Level Electrical Stimulation. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2015, 23, 385-395.	4.9	87

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109	The human motor neuron pools receive a dominant slowâ€varying common synaptic input. Journal of Physiology, 2016, 594, 5491-5505.	2.9	83
110	Integrated and flexible multichannel interface for electrotactile stimulation. Journal of Neural Engineering, 2016, 13, 046014.	3.5	82
111	EMG Biofeedback for online predictive control of grasping force in a myoelectric prosthesis. Journal of NeuroEngineering and Rehabilitation, 2015, 12, 55.	4.6	81
112	Context-Dependent Upper Limb Prosthesis Control for Natural and Robust Use. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2016, 24, 744-753.	4.9	81
113	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
114	Electrotactile EMG feedback improves the control of prosthesis grasping force. Journal of Neural Engineering, 2016, 13, 056010.	3.5	80
115	Translating Research on Myoelectric Control into Clinicsâ€"Are the Performance Assessment Methods Adequate?. Frontiers in Neurorobotics, 2017, 11, 7.	2.8	79
116	Surface EMG Crosstalk Evaluated from Experimental Recordings and Simulated Signals. Methods of Information in Medicine, 2004, 43, 30-35.	1.2	78
117	Non-invasive characterization of motor unit behaviour in pathological tremor. Journal of Neural Engineering, 2012, 9, 056011.	3.5	78
118	Effect of power, pedal rate, and force on average muscle fiber conduction velocity during cycling. Journal of Applied Physiology, 2004, 97, 2035-2041.	2.5	77
119	Longitudinal Case Study of Regression-Based Hand Prosthesis Control in Daily Life. Frontiers in Neuroscience, 2020, 14, 600.	2.8	77
120	The proportion of common synaptic input to motor neurons increases with an increase in net excitatory input. Journal of Applied Physiology, 2015, 119, 1337-1346.	2.5	76
121	Voluntary control of wearable robotic exoskeletons by patients with paresis via neuromechanical modeling. Journal of NeuroEngineering and Rehabilitation, 2019, 16, 91.	4.6	76
122	Detection of movement-related cortical potentials based on subject-independent training. Medical and Biological Engineering and Computing, 2013, 51, 507-512.	2.8	75
123	Experimental muscle pain changes motor control strategies in dynamic contractions. Experimental Brain Research, 2005, 164, 215-224.	1.5	74
124	Factors Influencing the Estimates of Correlation between Motor Unit Activities in Humans. PLoS ONE, 2012, 7, e44894.	2.5	73
125	Detecting and classifying movement-related cortical potentials associated with hand movements in healthy subjects and stroke patients from single-electrode, single-trial EEG. Journal of Neural Engineering, 2015, 12, 056013.	3.5	70
126	Multichannel thin-film electrode for intramuscular electromyographic recordings. Journal of Applied Physiology, 2008, 104, 821-827.	2.5	69

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127	Online mapping of EMG signals into kinematics by autoencoding. Journal of NeuroEngineering and Rehabilitation, 2018, 15, 21.	4.6	68
128	Experimental muscle pain reduces initial motor unit discharge rates during sustained submaximal contractions. Journal of Applied Physiology, 2005, 98, 999-1005.	2.5	66
129	Short- and Long-Term Learning of Feedforward Control of a Myoelectric Prosthesis with Sensory Feedback by Amputees. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2017, 25, 2133-2145.	4.9	66
130	Force Steadiness: From Motor Units to Voluntary Actions. Physiology, 2021, 36, 114-130.	3.1	66
131	A Multi-Class Proportional Myocontrol Algorithm for Upper Limb Prosthesis Control: Validation in Real-Life Scenarios on Amputees. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2015, 23, 827-836.	4.9	65
132	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
133	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
134	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
135	Decorrelation of cortical inputs and motoneuron output. Journal of Neurophysiology, 2011, 106, 2688-2697.	1.8	64
136	Estimation of Grasping Force from Features of Intramuscular EMG Signals with Mirrored Bilateral Training. Annals of Biomedical Engineering, 2012, 40, 648-656.	2.5	64
137	Relationship between grasping force and features of single-channel intramuscular EMG signals. Journal of Neuroscience Methods, 2009, 185, 143-150.	2.5	63
138	Differential Motor Unit Changes after Endurance or High-Intensity Interval Training. Medicine and Science in Sports and Exercise, 2017, 49, 1126-1136.	0.4	63
139	A Finite Element Model for Describing the Effect of Muscle Shortening on Surface EMG. IEEE Transactions on Biomedical Engineering, 2006, 53, 593-600.	4.2	62
140	Amplitude Cancellation of Motor-Unit Action Potentials in the Surface Electromyogram Can Be Estimated With Spike-Triggered Averaging. Journal of Neurophysiology, 2008, 100, 431-440.	1.8	61
141	Adjustments Differ Among Low-Threshold Motor Units During Intermittent, Isometric Contractions. Journal of Neurophysiology, 2009, 101, 350-359.	1.8	61
142	Effect of pain on the modulation in discharge rate of sternocleidomastoid motor units with force direction. Clinical Neurophysiology, 2010, 121, 744-753.	1.5	61
143	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
144	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

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145	HyVE: Hybrid Vibro-Electrotactile Stimulation for Sensory Feedback and Substitution in Rehabilitation. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2014, 22, 290-301.	4.9	60
146	Proportional estimation of finger movements from high-density surface electromyography. Journal of NeuroEngineering and Rehabilitation, 2016, 13, 73.	4.6	60
147	A model for the generation of synthetic intramuscular EMG signals to test decomposition algorithms. IEEE Transactions on Biomedical Engineering, 2001, 48, 66-77.	4.2	59
148	Selectivity of spatial filters for surface EMG detection from the tibialis anterior muscle. IEEE Transactions on Biomedical Engineering, 2003, 50, 354-364.	4.2	59
149	Estimation of average muscle fiber conduction velocity from two-dimensional surface EMG recordings. Journal of Neuroscience Methods, 2004, 134, 199-208.	2.5	58
150	Influence of common synaptic input to motor neurons on the neural drive to muscle in essential tremor. Journal of Neurophysiology, 2015, 113, 182-191.	1.8	58
151	In Vivo Neuromechanics: Decoding Causal Motor Neuron Behavior with Resulting Musculoskeletal Function. Scientific Reports, 2017, 7, 13465.	3.3	58
152	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
153	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
154	Counterpoint: Spectral properties of the surface emg do not provide information about motor unit recruitment and muscle fiber type. Journal of Applied Physiology, 2008, 105, 1673-1674.	2.5	57
155	Surface EMG Decomposition Requires an Appropriate Validation. Journal of Neurophysiology, 2011, 105, 981-982.	1.8	57
156	A System for Electrotactile Feedback Using Electronic Skin and Flexible Matrix Electrodes: Experimental Evaluation. IEEE Transactions on Haptics, 2017, 10, 162-172.	2.7	57
157	Evaluation of intra-muscular EMG signal decomposition algorithms. Journal of Electromyography and Kinesiology, 2001, 11, 175-187.	1.7	56
158	The Phase Difference Between Neural Drives to Antagonist Muscles in Essential Tremor Is Associated with the Relative Strength of Supraspinal and Afferent Input. Journal of Neuroscience, 2015, 35, 8925-8937.	3.6	56
159	Recruitment of motor units in the medial gastrocnemius muscle during human quiet standing: is recruitment intermittent? What triggers recruitment?. Journal of Neurophysiology, 2012, 107, 666-676.	1.8	55
160	An integrative model of motor unit activity during sustained submaximal contractions. Journal of Applied Physiology, 2010, 108, 1550-1562.	2.5	53
161	Miniaturized Magnetic Sensors for Implantable Magnetomyography. Advanced Materials Technologies, 2020, 5, 2000185.	5.8	53
162	M-wave properties during progressive motor unit activation by transcutaneous stimulation. Journal of Applied Physiology, 2004, 97, 545-555.	2.5	52

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163	Deep Learning for Robust Decomposition of High-Density Surface EMG Signals. IEEE Transactions on Biomedical Engineering, 2021, 68, 526-534.	4.2	52
164	Effect of temperature on spike-triggered average torque and electrophysiological properties of low-threshold motor units. Journal of Applied Physiology, 2005, 99, 197-203.	2.5	51
165	Reflections on the present and future of upper limb prostheses. Expert Review of Medical Devices, 2016, 13, 321-324.	2.8	51
166	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
167	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
168	Sympatheticâ€induced changes in discharge rate and spikeâ€triggered average twitch torque of lowâ€threshold motor units in humans. Journal of Physiology, 2008, 586, 5561-5574.	2.9	50
169	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
170	Power spectrum of the rectified EMG: when and why is rectification beneficial for identifying neural connectivity?. Journal of Neural Engineering, 2015, 12, 036008.	3.5	48
171	3D printed upper limb prosthetics. Expert Review of Medical Devices, 2018, 15, 505-512.	2.8	48
172	Human?Machine Interfacing by Decoding the Surface Electromyogram [Life Sciences]. IEEE Signal Processing Magazine, 2015, 32, 115-120.	5.6	47
173	Simulation of Surface EMG Signals Generated by Muscle Tissues With Inhomogeneity Due to Fiber Pinnation. IEEE Transactions on Biomedical Engineering, 2004, 51, 1521-1529.	4.2	46
174	Estimating reflex responses in large populations of motor units by decomposition of the highâ€density surface electromyogram. Journal of Physiology, 2015, 593, 4305-4318.	2.9	46
175	Modular Control of Treadmill vs Overground Running. PLoS ONE, 2016, 11, e0153307.	2.5	46
176	Peripheral nerve transfers change target muscle structure and function. Science Advances, 2019, 5, eaau2956.	10.3	46
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