List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	The Use of Surface Electromyography in Biomechanics. Journal of Applied Biomechanics, 1997, 13, 135-163.	0.3	2,182
2	Filtering the surface EMG signal: Movement artifact and baseline noise contamination. Journal of Biomechanics, 2010, 43, 1573-1579.	0.9	892
3	Physiology and Mathematics of Myoelectric Signals. IEEE Transactions on Biomedical Engineering, 1979, BME-26, 313-325.	2.5	546
4	Frequency Parameters of the Myoelectric Signal as a Measure of Muscle Conduction Velocity. IEEE Transactions on Biomedical Engineering, 1981, BME-28, 515-523.	2.5	466
5	Lumbar Muscle Fatigue and Chronic Lower Back Pain. Spine, 1989, 14, 992-1001.	1.0	407
6	Common drive of motor units in regulation of muscle force. Trends in Neurosciences, 1994, 17, 299-305.	4.2	397
7	Decomposition of Surface EMG Signals. Journal of Neurophysiology, 2006, 96, 1646-1657.	0.9	383
8	The role of plantar cutaneous sensation in unperturbed stance. Experimental Brain Research, 2004, 156, 505-512.	0.7	336
9	High-yield decomposition of surface EMG signals. Clinical Neurophysiology, 2010, 121, 1602-1615.	0.7	299
10	Surface myoelectric signal cross-talk among muscles of the leg. Electroencephalography and Clinical Neurophysiology, 1988, 69, 568-575.	0.3	280
11	A Procedure for Decomposing the Myoelectric Signal Into Its Constituent Action Potentials - Part I: Technique, Theory, and Implementation. IEEE Transactions on Biomedical Engineering, 1982, BME-29, 149-157.	2.5	259
12	Relationship Between Firing Rate and Recruitment Threshold of Motoneurons in Voluntary Isometric Contractions. Journal of Neurophysiology, 2010, 104, 1034-1046.	0.9	234
13	Use of the surface EMG signal for performance evaluation of back muscles. Muscle and Nerve, 1993, 16, 210-216.	1.0	220
14	Effects of Aging on Motor-Unit Control Properties. Journal of Neurophysiology, 1999, 82, 2081-2091.	0.9	210
15	Firing rates of motor units in human vastus lateralis muscle during fatiguing isometric contractions. Journal of Applied Physiology, 2005, 99, 268-280.	1.2	167
16	Hierarchical control of motor units in voluntary contractions. Journal of Neurophysiology, 2012, 107, 178-195.	0.9	167
17	Inter-electrode spacing of surface EMG sensors: Reduction of crosstalk contamination during voluntary contractions. Journal of Biomechanics, 2012, 45, 555-561.	0.9	153

Rank-ordered regulation of motor units. , 1996, 19, 563-573.

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19	A technique for the detection, decomposition and analysis of the EMG signal. Electroencephalography and Clinical Neurophysiology, 1984, 58, 175-188.	0.3	144
20	Common Drive in Motor Units of a Synergistic Muscle Pair. Journal of Neurophysiology, 2002, 87, 2200-2204.	0.9	143
21	Hand Dominance and Motor Unit Firing Behavior. Journal of Neurophysiology, 1998, 80, 1373-1382.	0.9	140
22	Recruitment Order of Motor Units in Human Vastus Lateralis Muscle Is Maintained During Fatiguing Contractions. Journal of Neurophysiology, 2003, 90, 2919-2927.	0.9	139
23	Spectral Electromyographic Assessment of Back Muscles in Patients With Low Back Muscles in Patients With Low Back Pain Undergoing Rehabilitation. Spine, 1995, 20, 38-48.	1.0	132
24	Median frequency of the myoelectric signal. European Journal of Applied Physiology and Occupational Physiology, 1984, 52, 258-265.	1.2	130
25	Reduced plantar sensitivity alters postural responses to lateral perturbations of balance. Experimental Brain Research, 2004, 157, 526-536.	0.7	127
26	A Procedure for Decomposing the Myoelectric Signal Into Its Constituent Action Potentials-Part II: Execution and Test for Accuracy. IEEE Transactions on Biomedical Engineering, 1982, BME-29, 158-164.	2.5	123
27	A Note on the Noninvasive Estimation of Muscle Fiber Conduction Velocity. IEEE Transactions on Biomedical Engineering, 1985, BME-32, 341-344.	2.5	120
28	Activation imbalances in lumbar spine muscles in the presence of chronic low back pain. Journal of Applied Physiology, 2003, 94, 1410-1420.	1.2	117
29	Motor unit control and force fluctuation during fatigue. Journal of Applied Physiology, 2009, 107, 235-243.	1.2	112
30	A Combined sEMG and Accelerometer System for Monitoring Functional Activity in Stroke. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2009, 17, 585-594.	2.7	111
31	Fatigue, recovery, and low back pain in varsity rowers. Medicine and Science in Sports and Exercise, 1990, 22, 463???469.	0.2	103
32	Decomposition of surface EMG signals from cyclic dynamic contractions. Journal of Neurophysiology, 2015, 113, 1941-1951.	0.9	88
33	Muscle Fatigue Monitor: A Noninvasive Device for Observing Localized Muscular Fatigue. IEEE Transactions on Biomedical Engineering, 1982, BME-29, 760-768.	2.5	84
34	Dynamical Learning and Tracking of Tremor and Dyskinesia From Wearable Sensors. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2014, 22, 982-991.	2.7	82
35	The compensatory interaction between motor unit firing behavior and muscle force during fatigue. Journal of Neurophysiology, 2016, 116, 1579-1585.	0.9	75
36	Decomposition of indwelling EMG signals. Journal of Applied Physiology, 2008, 105, 700-710.	1.2	74

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37	Neural control of muscle force: indications from a simulation model. Journal of Neurophysiology, 2013, 109, 1548-1570.	0.9	74
38	Biomechanical benefits of the onion-skin motor unit control scheme. Journal of Biomechanics, 2015, 48, 195-203.	0.9	70
39	Recruitment threshold and muscle fiber conduction velocity of single motor units. Journal of Electromyography and Kinesiology, 1991, 1, 116-123.	0.7	67
40	Median frequency of the myoelectric signal. European Journal of Applied Physiology and Occupational Physiology, 1986, 55, 457-464.	1.2	63
41	Highâ€resolution tracking of motor disorders in Parkinson's disease during unconstrained activity. Movement Disorders, 2013, 28, 1080-1087.	2.2	55
42	Preferred sensor sites for surface EMG signal decomposition. Physiological Measurement, 2012, 33, 195-206.	1.2	53
43	Motor unit recruitment and firing rates interaction in the control of human muscles. Brain Research, 1985, 337, 311-319.	1.1	52
44	Electromyographic analysis of standing posture and demi-plie in ballet and modern dancers. Medicine and Science in Sports and Exercise, 1994, 26, 771-782.	0.2	51
45	Unusual motor unit firing behavior in older adults. Brain Research, 1989, 482, 136-140.	1.1	44
46	Motor Unit Recruitment and Proprioceptive Feedback Decrease the Common Drive. Journal of Neurophysiology, 2009, 101, 1620-1628.	0.9	44
47	An Electrode for Recording Single Motor Unit Activity During Strong Muscle Contractions. IEEE Transactions on Biomedical Engineering, 1972, BME-19, 367-372.	2.5	42
48	The relation between the myoelectric signal and physiological properties of constant-force isometric contractions. Electroencephalography and Clinical Neurophysiology, 1978, 45, 681-698.	0.3	41
49	Muscle Fatigue Monitor (MFM): Second Generation. IEEE Transactions on Biomedical Engineering, 1985, BME-32, 75-78.	2.5	37
50	Firing Rate Interactions Among Human Orbicularis Oris Motor Units. International Journal of Neuroscience, 1992, 64, 167-175.	0.8	36
51	Reply to Farina and Enoka: The Reconstruct-and-Test Approach Is the Most Appropriate Validation for Surface EMG Signal Decomposition to Date. Journal of Neurophysiology, 2011, 105, 983-984.	0.9	36
52	Electromyographic analysis of grand-pli?? in ballet and modern dancers. Medicine and Science in Sports and Exercise, 1998, 30, 1708-1720.	0.2	31
53	Synchronization of motor unit firings: an epiphenomenon of firing rate characteristics not common inputs. Journal of Neurophysiology, 2016, 115, 178-192.	0.9	29
54	Control of upper-limb prostheses. Journal of Medical Engineering and Technology, 1978, 2, 57-61.	0.8	28

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55	A model for a motor unit train recorded during constant force isometric contractions. Biological Cybernetics, 1975, 19, 159-167.	0.6	27
56	Lateral dominance and motor unit firing behavior. Brain Research, 1992, 576, 165-167.	1.1	27
57	Error reduction in EMG signal decomposition. Journal of Neurophysiology, 2014, 112, 2718-2728.	0.9	24
58	Transposed firing activation of motor units. Journal of Neurophysiology, 2014, 112, 962-970.	0.9	21
59	Clarification of methods used to validate surface EMG decomposition algorithms as described by Farina et al. (2014). Journal of Applied Physiology, 2015, 118, 1084-1084.	1.2	21
60	Multiple Motor Unit Recordings of Laryngeal Muscles: The Technique of Vector Laryngeal Electromyography. Laryngoscope, 2002, 112, 2196-2203.	1.1	17
61	Ordered Motor-Unit Firing Behavior in Acute Cerebellar Stroke. Journal of Neurophysiology, 2006, 96, 2769-2774.	0.9	17
62	ls the notion of central fatigue based on a solid foundation?. Journal of Neurophysiology, 2016, 115, 967-977.	0.9	16
63	Technique for detecting MUAP propagation from high-threshold motor units. Journal of Electromyography and Kinesiology, 1991, 1, 75-80.	0.7	14
64	Compression Induced Damage on In-Situ Severed and Intact Nerves. Orthopedics, 1987, 10, 777-784.	0.5	14
65	Statistically rigorous calculations do not support common input and long-term synchronization of motor-unit firings. Journal of Neurophysiology, 2014, 112, 2729-2744.	0.9	13
66	Decomposition and Analysis of Intramuscular Electromyographic Signals. , 1999, , 757-776.		13
67	Improved resolution of pulse superpositions in a knowledge-based system EMG decomposition. , 2004, 2006, 69-71.		12
68	Aliasing rejection in Precision Decomposition of EMG signals. , 2008, 2008, 4972-5.		11
69	A simulation study for a surface EMG sensor that detects distinguishable motor unit action potentials. Journal of Neuroscience Methods, 2008, 168, 54-63.	1.3	9
70	Multi-Receiver Precision Decomposition of Intramuscular EMG Signals. , 2006, 2006, 1252-5.		7
71	Surface EMG signal decomposition using empirically sustainable biosignal separation principles. , 2009, 2009, 4986-9.		5
72	Multi-Receiver Precision Decomposition of Intramuscular EMG Signals. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2006, , .	0.5	2

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73	Letters to the editor. Muscle and Nerve, 1995, 18, 1490-1497.	1.0	1
74	The common input notion, conceived and sustained by conjecture. Journal of Neurophysiology, 2016, 115, 1079-1080.	0.9	1