

Xiaoyan Li

List of Publications by Year in descending order

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40
papers

805
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471509

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times ranked

755
citing authors

#	ARTICLE	IF	CITATIONS
1	Examination of Poststroke Alteration in Motor Unit Firing Behavior Using High-Density Surface EMG Decomposition. <i>IEEE Transactions on Biomedical Engineering</i> , 2015, 62, 1242-1252.	4.2	81
2	Motor Unit Number Reductions in Paretic Muscles of Stroke Survivors. <i>IEEE Transactions on Information Technology in Biomedicine</i> , 2011, 15, 505-512.	3.2	69
3	Power spectral analysis of surface electromyography (EMG) at matched contraction levels of the first dorsal interosseous muscle in stroke survivors. <i>Clinical Neurophysiology</i> , 2014, 125, 988-994.	1.5	58
4	EMG feature assessment for myoelectric pattern recognition and channel selection: A study with incomplete spinal cord injury. <i>Medical Engineering and Physics</i> , 2014, 36, 975-980.	1.7	47
5	Localized Electrical Impedance Myography of the Biceps Brachii Muscle during Different Levels of Isometric Contraction and Fatigue. <i>Sensors</i> , 2016, 16, 581.	3.8	39
6	Alterations in the Peak Amplitude Distribution of the Surface Electromyogram Poststroke. <i>IEEE Transactions on Biomedical Engineering</i> , 2013, 60, 845-852.	4.2	36
7	An Examination of the Motor Unit Number Index (MUNIX) in Muscles Paralyzed by Spinal Cord Injury. <i>IEEE Transactions on Information Technology in Biomedicine</i> , 2012, 16, 1143-1149.	3.2	35
8	Analysis of linear electrode array EMG for assessment of hemiparetic biceps brachii muscles. <i>Frontiers in Human Neuroscience</i> , 2015, 9, 569.	2.0	31
9	A Simulation-Based Analysis of Motor Unit Number Index (MUNIX) Technique Using Motoneuron Pool and Surface Electromyogram Models. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2012, 20, 297-304.	4.9	30
10	Two-Source Validation of Progressive FastICA Peel-Off for Automatic Surface EMG Decomposition in Human First Dorsal Interosseous Muscle. <i>International Journal of Neural Systems</i> , 2018, 28, 1850019.	5.2	28
11	Assessing muscle spasticity with Myotonometric and passive stretch measurements: validity of the Myotonometer. <i>Scientific Reports</i> , 2017, 7, 44022.	3.3	25
12	An examination of motor unit number index in adults with cerebral palsy. <i>Journal of Electromyography and Kinesiology</i> , 2015, 25, 444-450.	1.7	24
13	Summary of grip strength measurements obtained in the 2011-2012 and 2013-2014 National Health and Nutrition Examination Surveys. <i>Journal of Hand Therapy</i> , 2019, 32, 489-496.	1.5	23
14	Electrical Impedance Myography for Evaluating Paretic Muscle Changes After Stroke. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2017, 25, 2113-2121.	4.9	21
15	Application of the $\{m F\}$ -Response for Estimating Motor Unit Number and Amplitude Distribution in Hand Muscles of Stroke Survivors. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2016, 24, 674-681.	4.9	20
16	Suppression of stimulus artifact contaminating electrically evoked electromyography. <i>NeuroRehabilitation</i> , 2014, 34, 381-389.	1.3	19
17	Alterations in multidimensional motor unit number index of hand muscles after incomplete cervical spinal cord injury. <i>Frontiers in Human Neuroscience</i> , 2015, 9, 238.	2.0	19
18	The Effect of Subcutaneous Fat on Electrical Impedance Myography: Electrode Configuration and Multi-Frequency Analyses. <i>PLoS ONE</i> , 2016, 11, e0156154.	2.5	16

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19	The effects of notch filtering on electrically evoked myoelectric signals and associated motor unit index estimates. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2011, 8, 64.	4.6	14
20	Alterations in Muscle Networks in the Upper Extremity of Chronic Stroke Survivors. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2021, 29, 1026-1034.	4.9	14
21	Computing motor unit number index of the first dorsal interosseous muscle with two different contraction tasks. <i>Medical Engineering and Physics</i> , 2012, 34, 1209-1212.	1.7	13
22	Electrical impedance myography changes after incomplete cervical spinal cord injury: An examination of hand muscles. <i>Clinical Neurophysiology</i> , 2017, 128, 2242-2247.	1.5	13
23	CMAP Scan Examination of the First Dorsal Interosseous Muscle After Spinal Cord Injury. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2021, 29, 1199-1205.	4.9	13
24	Motor unit number estimation of human abductor hallucis from a compound muscle action potential scan. <i>Muscle and Nerve</i> , 2018, 58, 735-737.	2.2	12
25	Motor unit number index examination in dominant and non-dominant hand muscles. <i>Laterality</i> , 2015, 20, 699-710.	1.0	11
26	Modified motor unit number index: A simulation study of the first dorsal interosseous muscle. <i>Medical Engineering and Physics</i> , 2016, 38, 115-120.	1.7	11
27	Assessing Hand Muscle Structural Modifications in Chronic Stroke. <i>Frontiers in Neurology</i> , 2018, 9, 296.	2.4	10
28	Between-side differences in hand-grip strength across the age span: Findings from 2011â€“2014 NHANES and 2011 NIH Toolbox studies. <i>Laterality</i> , 2019, 24, 697-706.	1.0	10
29	Alterations in Localized Electrical Impedance Myography of Biceps Brachii Muscles Paralyzed by Spinal Cord Injury. <i>Frontiers in Neurology</i> , 2017, 8, 253.	2.4	9
30	Motor unit number of the first dorsal interosseous muscle estimated from CMAP scan with different pulse widths and steps. <i>Journal of Neural Engineering</i> , 2020, 17, 014001.	3.5	9
31	Assessing the immediate impact of botulinum toxin injection on impedance of spastic muscle. <i>Medical Engineering and Physics</i> , 2017, 43, 97-102.	1.7	8
32	Assessing muscle compliance in stroke with the Myotonometer. <i>Clinical Biomechanics</i> , 2017, 50, 110-113.	1.2	8
33	Different Effects of Cold Stimulation on Reflex and Non-Reflex Components of Poststroke Spastic Hypertonia. <i>Frontiers in Neurology</i> , 2017, 8, 169.	2.4	8
34	Assessing redistribution of muscle innervation zones after spinal cord injuries. <i>Journal of Electromyography and Kinesiology</i> , 2021, 59, 102550.	1.7	8
35	A dilemma in stroke application: Standard or modified motor unit number index?. <i>Clinical Neurophysiology</i> , 2016, 127, 2756-2759.	1.5	4
36	Neurophysiological Factors Affecting Muscle Innervation Zone Estimation Using Surface EMG: A Simulation Study. <i>Biosensors</i> , 2021, 11, 356.	4.7	4

#	ARTICLE	IF	CITATIONS
37	Muscle Fiber Diameter and Density Alterations after Stroke Examined by Single-Fiber EMG. Neural Plasticity, 2021, 2021, 1-7.	2.2	3
38	Alterations in spike amplitude distribution of the surface electromyogram post-stroke. , 2011, 2011, 7504-7.		1
39	Distribution of innervation zone and muscle fiber conduction velocity in the biceps brachii muscle. Journal of Electromyography and Kinesiology, 2022, 63, 102637.	1.7	1
40	Electromyography (EMG) examination on motor unit alterations after stroke. , 2020, , 51-64.		0