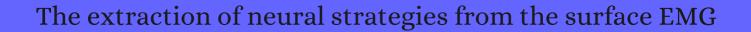
# CITATION REPORT List of articles citing



DOI: 10.1152/japplphysiol.01070.2003 Journal of Applied Physiology, 2004, 96, 1486-95.

Source: https://exaly.com/paper-pdf/37579388/citation-report.pdf

Version: 2024-04-28

This report has been generated based on the citations recorded by exaly.com for the above article. 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.

| #    | Paper   | IF                            | Citations |
|------|---|-------------------------------|-----------|
| 1074 | Force fluctuations are modulated by alternate muscle activity of knee extensor synergists during low-level sustained contraction. <i>Journal of Applied Physiology</i> , <b>2004</b> , 97, 2121-31                      | 3.7                           | 51        |
| 1073 | Low-threshold motor unit membrane properties vary with contraction intensity during sustained activation with surface EMG visual feedback. <i>Journal of Applied Physiology</i> , <b>2004</b> , 96, 1505-15; discussion | n <sup>3.7</sup>              | 35        |
| 1072 | Men are more fatigable than strength-matched women when performing intermittent submaximal contractions. <i>Journal of Applied Physiology</i> , <b>2004</b> , 96, 2125-32   | 3.7                           | 117       |
| 1071 | Multichannel surface EMG for the non-invasive assessment of the anal sphincter muscle. <b>2004</b> , 69, 112-   | 22                            | 63        |
| 1070 | Effect of power, pedal rate, and force on average muscle fiber conduction velocity during cycling.<br>Journal of Applied Physiology, <b>2004</b> , 97, 2035-41  | 3.7                           | 68        |
| 1069 | The 1- to 2-Hz oscillations in muscle force are exacerbated by stress, especially in older adults. <i>Journal of Applied Physiology</i> , <b>2004</b> , 97, 225-35  | 3.7                           | 83        |
| 1068 | Methods for estimating muscle fibre conduction velocity from surface electromyographic signals. <b>2004</b> , 42, 432-45  |                               | 117       |
| 1067 | Influence of muscle fibre shortening on estimates of conduction velocity and spectral frequencies from surface electromyographic signals. <b>2004</b> , 42, 477-86  |                               | 21        |
| 1066 | M-wave properties during progressive motor unit activation by transcutaneous stimulation. <i>Journal of Applied Physiology</i> , <b>2004</b> , 97, 545-55   | 3.7                           | 44        |
| 1065 | Muscle fatigue and the mechanisms of task failure. <b>2004</b> , 32, 44-9   |                               | 121       |
| 1064 | Influence of aging on sex differences in muscle fatigability. <i>Journal of Applied Physiology</i> , <b>2004</b> , 97, 172  | 3 <sub>3</sub> 3 <del>7</del> | 93        |
| 1063 | Task failure during fatiguing contractions performed by humans. <i>Journal of Applied Physiology</i> , <b>2005</b> , 99, 389-96   | 3.7                           | 64        |
| 1062 | Effects of prolonged vibration on motor unit activity and motor performance. <b>2005</b> , 37, 2120-5   |                               | 66        |
| 1061 | Electromyostimulation training effects on neural drive and muscle architecture. <b>2005</b> , 37, 1291-9  |                               | 146       |
| 1060 | Cross-education of arm muscular strength is unidirectional in right-handed individuals. <b>2005</b> , 37, 1594-6  | 500                           | 87        |
| 1059 | Change in muscle fascicle length influences the recruitment and discharge rate of motor units during isometric contractions. <b>2005</b> , 94, 3126-33  |                               | 53        |
| 1058 | Prolonged muscle vibration increases stretch reflex amplitude, motor unit discharge rate, and force fluctuations in a hand muscle. <i>Journal of Applied Physiology</i> , <b>2005</b> , 99, 1835-42                     | 3.7                           | 54        |

### (2005-2005)

| 1057 | Aging does not affect voluntary activation of the ankle dorsiflexors during isometric, concentric, and eccentric contractions. <i>Journal of Applied Physiology</i> , <b>2005</b> , 99, 31-8            | 3.7 | 85  |
|------|---|-----|-----|
| 1056 | Motor-unit activity differs with load type during a fatiguing contraction. <b>2005</b> , 93, 1381-92  |     | 125 |
| 1055 | Time to task failure differs with load type when old adults perform a submaximal fatiguing contraction. <b>2005</b> , 31, 730-40  |     | 27  |
| 1054 | Firing rates of motor units during strong dynamic contractions. <b>2005</b> , 32, 316-25  |     | 46  |
| 1053 | Neuronal control of turtle hindlimb motor rhythms. <b>2005</b> , 191, 213-29  |     | 90  |
| 1052 | Age-related differences in rapid muscle activation after rate of force development training of the elbow flexors. <b>2005</b> , 162, 122-32   |     | 84  |
| 1051 | Assessment of the amplitude of oscillations associated with high-frequency components of physiological tremor: impact of loading and signal differentiation. <b>2005</b> , 163, 261-6                   |     | 36  |
| 1050 | Time-frequency analysis and estimation of muscle fiber conduction velocity from surface EMG signals during explosive dynamic contractions. <b>2005</b> , 142, 267-74                                    |     | 31  |
| 1049 | Influence of high motor unit synchronization levels on non-linear and spectral variables of the surface EMG. <b>2005</b> , 143, 133-9   |     | 48  |
| 1048 | Signal-dependent wavelets for electromyogram classification. <b>2005</b> , 43, 487-92   |     | 37  |
| 1047 | Conduction velocity of quiescent muscle fibers decreases during sustained contraction. <b>2005</b> , 94, 387-9  | 94  | 24  |
| 1046 | Muscular performances at the ankle joint in young and elderly men. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , <b>2005</b> , 60, 439-47                        | 6.4 | 76  |
| 1045 | Central and peripheral fatigue of the knee extensor muscles induced by electromyostimulation. <b>2005</b> , 26, 847-53  |     | 53  |
| 1044 | Influence of amplitude cancellation on the simulated surface electromyogram. <i>Journal of Applied Physiology</i> , <b>2005</b> , 98, 120-31  | 3.7 | 287 |
| 1043 | Electromyographic frequency response of robotic laparoscopic training.  |     | 1   |
| 1042 | Twitch potentiation is greater after a fatiguing submaximal isometric contraction performed at short vs. long quadriceps muscle length. <i>Journal of Applied Physiology</i> , <b>2005</b> , 98, 429-36 | 3.7 | 68  |
| 1041 | EMG decomposition annotation comparison method.   |     |     |
| 1040 | Changes in the human muscle force-velocity relationship in response to resistance training and subsequent detraining. <i>Journal of Applied Physiology</i> , <b>2005</b> , 99, 87-94                    | 3.7 | 103 |

| 1039 | Reliability of surface EMG during sustained contractions of the quadriceps. <i>Journal of Electromyography and Kinesiology</i> , <b>2005</b> , 15, 102-10   | 2.5                           | 97  |
|------|---|-------------------------------|-----|
| 1038 | An EMG fractal indicator having different sensitivities to changes in force and muscle fatigue during voluntary static muscle contractions. <i>Journal of Electromyography and Kinesiology</i> , <b>2005</b> , 15, 210  | - <del>2</del> 1 <sup>5</sup> | 47  |
| 1037 | The effects of interelectrode distance on electromyographic amplitude and mean power frequency during isokinetic and isometric muscle actions of the biceps brachii. <i>Journal of Electromyography and Kinesiology</i> , <b>2005</b> , 15, 482-95                  | 2.5                           | 39  |
| 1036 | Muscle fiber conduction velocity of the upper trapezius muscle during dynamic contraction of the upper limb in patients with chronic neck pain. <b>2005</b> , 116, 138-45   |                               | 47  |
| 1035 | Is fatigue all in your head? A critical review of the central governor model. <b>2006</b> , 40, 573-86; discussion 586  |                               | 85  |
| 1034 | Contralateral effects of unilateral strength training: evidence and possible mechanisms. <i>Journal of Applied Physiology</i> , <b>2006</b> , 101, 1514-22  | 3.7                           | 318 |
| 1033 | Differences in fatigability between the sexes during a sustained submaximal contraction protocol in prepubertal children. <b>2006</b> , 24, 817-24  |                               | 3   |
| 1032 | Estimation of the interplay between groups of fast and slow muscle fibers of the tibialis anterior and gastrocnemius muscle while running. <i>Journal of Electromyography and Kinesiology</i> , <b>2006</b> , 16, 188-97  | , 2.5                         | 51  |
| 1031 | Reproducibility of surface EMG variables in isometric sub-maximal contractions of jaw elevator muscles. <i>Journal of Electromyography and Kinesiology</i> , <b>2006</b> , 16, 498-505  | 2.5                           | 34  |
| 1030 | Electromyographic instantaneous amplitude and instantaneous mean power frequency patterns across a range of motion during a concentric isokinetic muscle action of the biceps brachii. <i>Journal of Electromyography and Kinesiology</i> , <b>2006</b> , 16, 531-9 | 2.5                           | 19  |
| 1029 | Further evaluation of an EMG technique for assessment of the deep cervical flexor muscles. <i>Journal of Electromyography and Kinesiology</i> , <b>2006</b> , 16, 621-8   | 2.5                           | 54  |
| 1028 | Clinical applications of high-density surface EMG: a systematic review. <i>Journal of Electromyography and Kinesiology</i> , <b>2006</b> , 16, 586-602  | 2.5                           | 184 |
| 1027 | Changes in neuromuscular function after tasks involving control of EMG versus torque feedback of the same duration. <b>2006</b> , 394, 37-41  |                               | 10  |
| 1026 | Influence of initial metabolic rate on pulmonary O2 uptake on-kinetics during severe intensity exercise. <b>2006</b> , 152, 204-19  |                               | 45  |
| 1025 | Axonal degeneration affects muscle density in older men and women. <b>2006</b> , 27, 1145-54  |                               | 76  |
| 1024 | Adaptations in human neuromuscular function following prolonged unweighting: II. Neurological properties and motor imagery efficacy. <i>Journal of Applied Physiology</i> , <b>2006</b> , 101, 264-72   | 3.7                           | 84  |
| 1023 | Myoelectric Manifestations of Muscle Fatigue. 2006,   |                               | 4   |
| 1022 | Interpretation of the surface electromyogram in dynamic contractions. <b>2006</b> , 34, 121-7   |                               | 179 |

| 1021 | Central and peripheral contributions to fatigue after electrostimulation training. 2006, 38, 1147-56  |   | 22 |
|------|---|---|----|
| 1020 | Neural changes associated with training. <i>Journal of Applied Physiology</i> , <b>2006</b> , 101, 1009-10  |   | 3  |
| 1019 | Effects of isometric training at different knee angles on the muscle-tendon complex in vivo.  Scandinavian Journal of Medicine and Science in Sports, <b>2006</b> , 16, 159-67  4.6             | , | 83 |
| 1018 | Motor unit synchronous firing as revealed by determinism of surface myoelectric signal. <b>2006</b> , 155, 116-21   |   | 20 |
| 1017 | Spatial and temporal changes of upper trapezius muscle fiber conduction velocity are not predicted by surface EMG spectral analysis during a dynamic upper limb task. <b>2006</b> , 156, 236-41 |   | 8  |
| 1016 | On the use of sparse signal decomposition in the analysis of multi-channel surface electromyograms. <b>2006</b> , 86, 603-623   |   | 19 |
| 1015 | Robotic surgery and training: electromyographic correlates of robotic laparoscopic training. <b>2006</b> , 20, 824-9  |   | 26 |
| 1014 | Single motor unit and spectral surface EMG analysis during low-force, sustained contractions of the upper trapezius muscle. <b>2006</b> , 96, 157-64  |   | 24 |
| 1013 | Neural and muscular changes to detraining after electrostimulation training. <b>2006</b> , 97, 165-73   |   | 38 |
| 1012 | The bilateral leg strength deficit is present in old, young and adolescent females during isokinetic knee extension and flexion. <b>2006</b> , 97, 322-6  |   | 38 |
| 1011 | Influence of motor unit properties on the size of the simulated evoked surface EMG potential. <b>2006</b> , 169, 37-49  |   | 66 |
| 1010 | Periodontal anaesthesia reduces common 8 Hz input to masseters during isometric biting. <b>2006</b> , 169, 326-37   |   | 16 |
| 1009 | Increased spinal excitability does not offset central activation failure. 2006, 173, 446-57   |   | 19 |
| 1008 | Time to task failure varies with the gain of the feedback signal for women, but not for men. <b>2006</b> , 174, 575-87  |   | 25 |
| 1007 | The effects of interelectrode distance on electromyographic amplitude and mean power frequency during incremental cycle ergometry. <b>2006</b> , 151, 139-47                                    |   | 38 |
| 1006 | The effects of innervation zone on electromyographic amplitude and mean power frequency during incremental cycle ergometry. <b>2006</b> , 155, 126-33   |   | 61 |
| 1005 | An analytical model for surface EMG generation in volume conductors with smooth conductivity variations. <b>2006</b> , 53, 773-9  |   | 20 |
| 1004 | An alternative test of electromyographic normalization in patients. <b>2006</b> , 33, 232-41  |   | 31 |

| 1003 | Strength training in old age: adaptation of antagonist muscles at the ankle joint. 2006, 33, 546-55  |     | 30  |
|------|--|-----|-----|
| 1002 | Investigations of back muscle fatigue by simultaneous 31P MRS and surface EMG measurements. <b>2006</b> , 51, 305-13   |     | 6   |
| 1001 | Cortical muscle coupling in Parkinson's disease (PD) bradykinesia. <b>2006</b> , 31-40   |     | 8   |
| 1000 | Training adaptations in the behavior of human motor units. <i>Journal of Applied Physiology</i> , <b>2006</b> , 101, 1766-75   | 3.7 | 204 |
| 999  | Measurement of EMG activity with textile electrodes embedded into clothing. <i>Physiological Measurement</i> , <b>2007</b> , 28, 1405-19   | 2.9 | 93  |
| 998  | The effect of the estimated innervation zone on EMG amplitude and center frequency. <b>2007</b> , 39, 1282-  | 90  | 18  |
| 997  | Repeated bout effect after maximal eccentric exercise. <b>2007</b> , 28, 557-63  |     | 77  |
| 996  | Effect of different recovery patterns on repeated-sprint ability and neuromuscular responses. <b>2007</b> , 25, 905-13   |     | 36  |
| 995  | Experimentally valid predictions of muscle force and EMG in models of motor-unit function are most sensitive to neural properties. <b>2007</b> , 98, 1581-90   |     | 38  |
| 994  | Changes in stretch reflexes and muscle stiffness with age in prepubescent children. <i>Journal of Applied Physiology</i> , <b>2007</b> , 102, 2352-60  | 3.7 | 47  |
| 993  | Sensitivity of the cross-correlation between simulated surface EMGs for two muscles to detect motor unit synchronization. <i>Journal of Applied Physiology</i> , <b>2007</b> , 102, 1193-201                                       | 3.7 | 27  |
| 992  | Differential effects of ballistic versus sensorimotor training on rate of force development and neural activation in humans. <b>2007</b> , 21, 274-82  |     | 82  |
| 991  | Muscle size, neuromuscular activation, and rapid force characteristics in elderly men and women: effects of unilateral long-term disuse due to hip-osteoarthritis. <i>Journal of Applied Physiology</i> , <b>2007</b> , 102, 942-8 | 3.7 | 101 |
| 990  | Eccentric exercise increases EMG amplitude and force fluctuations during submaximal contractions of elbow flexor muscles. <i>Journal of Applied Physiology</i> , <b>2007</b> , 103, 979-89   | 3.7 | 80  |
| 989  | Modulation of prelanding lower-limb muscle responses in athletes with multiple ankle sprains. <b>2007</b> , 39, 1774-83  |     | 17  |
| 988  | EFFECTS OF TWO DAYS OF ISOKINETIC TRAINING ON STRENGTH AND ELECTROMYOGRAPHIC AMPLITUDE IN THE AGONIST AND ANTAGONIST MUSCLES. <b>2007</b> , 21, 757-762  |     | 4   |
| 987  | EFFECTS OF CREATINE SUPPLEMENTATION AND THREE DAYS OF RESISTANCE TRAINING ON MUSCLE STRENGTH,POWER OUTPUT, AND NEUROMUSCULAR FUNCTION. <b>2007</b> , 21, 668-677   |     |     |
| 986  | Comparison of recovery strategies on muscle performance after fatiguing exercise. <b>2007</b> , 86, 474-81   |     | 43  |

# (2007-2007)

| 985                             | Reliability of techniques to assess human neuromuscular function in vivo. <i>Journal of Electromyography and Kinesiology</i> , <b>2007</b> , 17, 90-101  | 2.5 | 70                  |
|---------------------------------|--|-----|---------------------|
| 984                             | The mechanomyography of persons after stroke during isometric voluntary contractions. <i>Journal of Electromyography and Kinesiology</i> , <b>2007</b> , 17, 473-83  | 2.5 | 28                  |
| 983                             | Adaptations during familiarization to resistive exercise. <i>Journal of Electromyography and Kinesiology</i> , <b>2007</b> , 17, 328-35  | 2.5 | 27                  |
| 982                             | Correlation of average muscle fiber conduction velocity measured during cycling exercise with myosin heavy chain composition, lactate threshold, and VO2max. <i>Journal of Electromyography and Kinesiology</i> , <b>2007</b> , 17, 393-400  | 2.5 | 38                  |
| 981                             | Spatial dependency of trapezius muscle activity during repetitive shoulder flexion. <i>Journal of Electromyography and Kinesiology</i> , <b>2007</b> , 17, 299-306   | 2.5 | 19                  |
| 980                             | Neuromuscular fatigue differs with biofeedback type when performing a submaximal contraction.<br>Journal of Electromyography and Kinesiology, <b>2007</b> , 17, 253-63   | 2.5 | 18                  |
| 979                             | Effects of joint angle and age on ankle dorsi- and plantar-flexor strength. <i>Journal of Electromyography and Kinesiology</i> , <b>2007</b> , 17, 307-16  | 2.5 | 34                  |
| 978                             | Effect of electrode location on EMG signal envelope in leg muscles during gait. <i>Journal of Electromyography and Kinesiology</i> , <b>2007</b> , 17, 515-26  | 2.5 | 67                  |
| 977                             | A simulation method for the firing sequences of motor units. <i>Journal of Electromyography and Kinesiology</i> , <b>2007</b> , 17, 527-34   | 2.5 | 5                   |
|                                 |  |     |                     |
| 976                             | Muscular and postural demands of using a massage chair and massage table. 2007, 30, 357-64   |     | 4                   |
| 976<br>975                      | Muscular and postural demands of using a massage chair and massage table. <b>2007</b> , 30, 357-64  [Antagonist muscle coactivation and muscle inhibition: effects on external torque regulation and resistance training-induced adaptations]. <b>2007</b> , 37, 1-14  |     | 17                  |
|                                 | [Antagonist muscle coactivation and muscle inhibition: effects on external torque regulation and   |     |                     |
| 975                             | [Antagonist muscle coactivation and muscle inhibition: effects on external torque regulation and resistance training-induced adaptations]. <b>2007</b> , 37, 1-14  |     | 17                  |
| 975                             | [Antagonist muscle coactivation and muscle inhibition: effects on external torque regulation and resistance training-induced adaptations]. <b>2007</b> , 37, 1-14  Neuro-physiological adaptations associated with cross-education of strength. <b>2007</b> , 20, 77-88  |     | 17<br>98            |
| 975<br>974<br>973               | [Antagonist muscle coactivation and muscle inhibition: effects on external torque regulation and resistance training-induced adaptations]. 2007, 37, 1-14  Neuro-physiological adaptations associated with cross-education of strength. 2007, 20, 77-88  Towards a sensing system for quantification of pathological tremor. 2007,   |     | 17<br>98<br>5       |
| 975<br>974<br>973               | [Antagonist muscle coactivation and muscle inhibition: effects on external torque regulation and resistance training-induced adaptations]. 2007, 37, 1-14  Neuro-physiological adaptations associated with cross-education of strength. 2007, 20, 77-88  Towards a sensing system for quantification of pathological tremor. 2007,  Use of imaging to assess normal and adaptive muscle function. 2007, 87, 704-18  Agonist and antagonist EMG activity of neck muscles during maximal isometric flexion and   |     | 17<br>98<br>5       |
| 975<br>974<br>973<br>972<br>971 | [Antagonist muscle coactivation and muscle inhibition: effects on external torque regulation and resistance training-induced adaptations]. 2007, 37, 1-14  Neuro-physiological adaptations associated with cross-education of strength. 2007, 20, 77-88  Towards a sensing system for quantification of pathological tremor. 2007,  Use of imaging to assess normal and adaptive muscle function. 2007, 87, 704-18  Agonist and antagonist EMG activity of neck muscles during maximal isometric flexion and extension at different positions in young healthy men and women. 2007, 15, 29-36  Mechanomyographic and electromyographic responses to stimulated and voluntary contractions in |     | 17<br>98<br>5<br>44 |

| 967 | The influence of electrode placement over the innervation zone on electromyographic amplitude and mean power frequency versus isokinetic torque relationships. <b>2007</b> , 162, 72-83  |     | 24  |
|-----|--|-----|-----|
| 966 | Effects of EMG processing on biomechanical models of muscle joint systems: sensitivity of trunk muscle moments, spinal forces, and stability. <i>Journal of Biomechanics</i> , <b>2007</b> , 40, 900-9   | 2.9 | 59  |
| 965 | Factors influencing the relation between corticospinal output and muscle force during voluntary contractions. <b>2007</b> , 25, 3469-75  |     | 22  |
| 964 | Recruitment of the deep cervical flexor muscles during a postural-correction exercise performed in sitting. <b>2007</b> , 12, 139-43   |     | 98  |
| 963 | Independent component analysis of high-density electromyography in muscle force estimation. <b>2007</b> , 54, 751-4  |     | 35  |
| 962 | Recurrence quantification analysis of surface EMG detects changes in motor unit synchronization induced by recurrent inhibition. <b>2007</b> , 178, 308-15   |     | 23  |
| 961 | Surface electromyographic activity of the submental muscles during swallow and expiratory pressure threshold training tasks. <b>2007</b> , 22, 108-16  |     | 84  |
| 960 | Voluntary activation during maximal contraction with advancing age: a brief review. <b>2007</b> , 100, 543-51  |     | 118 |
| 959 | Hyperoxia improves 20 km cycling time trial performance by increasing muscle activation levels while perceived exertion stays the same. <b>2007</b> , 101, 771-81  |     | 54  |
| 958 | Enhanced H-reflex with resistance training is related to increased rate of force development. <b>2007</b> , 101, 301-12  |     | 61  |
| 957 | Resting mechanomyography before and after resistance exercise. <b>2007</b> , 102, 107-17   |     | 21  |
| 956 | Central fatigue explains sex differences in muscle fatigue and contralateral cross-over effects of maximal contractions. <b>2007</b> , 454, 957-69   |     | 96  |
| 955 | Analysis of surface EMG spike shape across different levels of isometric force. <b>2007</b> , 159, 146-52  |     | 23  |
| 954 | Efficient parameterization of MUAP signal for identification of MU and volume conductor characteristics using neural networks. <b>2007</b> , 164, 325-38   |     | 1   |
| 953 | A comparison of monopolar and bipolar recording techniques for examining the patterns of responses for electromyographic amplitude and mean power frequency versus isometric torque for the vastus lateralis muscle. <b>2007</b> , 166, 159-67 |     | 18  |
| 952 | Mechanomyographic amplitude and mean power frequency responses during isometric ramp vs. step muscle actions. <b>2008</b> , 168, 293-305   |     | 26  |
| 951 | Bilateral deficit expressions and myoelectric signal activity during submaximal and maximal isometric knee extensions in young, athletic males. <b>2008</b> , 102, 721-6   |     | 19  |
| 950 | Fatigue in repeated-sprint exercise is related to muscle power factors and reduced neuromuscular activity. <b>2008</b> , 103, 411-9  |     | 142 |

### (2008-2008)

| 949        | Allometric scaling of isometric biceps strength in adult females and the effect of body mass index. <b>2008</b> , 104, 701-10  | 16       |
|------------|--|----------|
| 948        | Relative impact of respiratory muscle activity on tidal flow and end expiratory volume in healthy neonates. <b>2008</b> , 43, 882-91   | 29       |
| 947        | Neuromuscular adaptations and correlates of knee functionality following ACL reconstruction. <b>2008</b> , 26, 126-35  | 59       |
| 946        | Effect of innervation-zone distribution on estimates of average muscle-fiber conduction velocity. <b>2008</b> , 37, 68-78  | 14       |
| 945        | Tissue Doppler imaging for detecting onset of muscle activity. <b>2008</b> , 37, 638-49  | 31       |
| 944        | Effect of contraction mode of slow-speed resistance training on the maximum rate of force development in the human quadriceps. <b>2008</b> , 38, 1133-46   | 65       |
| 943        | Effect of diathermy on muscle temperature, electromyography, and mechanomyography. <b>2008</b> , 38, 992-1004  | 17       |
| 942        | The influence of electrode shift over the innervation zone and normalization on the electromyographic amplitude and mean power frequency versus isometric torque relationships for the vastus medialis muscle. <b>2008</b> , 169, 100-8  | 21       |
| 941        | Quantification of the corticospinal silent period evoked via transcranial magnetic stimulation. <b>2008</b> , 173, 121-8   | 53       |
| 940        | Surface EMG processing: Introduction to the special issue. <b>2008</b> , 3, 115-117  | 11       |
| 939        | Epoch length to accurately estimate the amplitude of interference EMG is likely the result of unavoidable amplitude cancellation. <b>2008</b> , 3, 154-162   | 12       |
| 938        | The application of the Hilbert spectrum to the analysis of electromyographic signals. <b>2008</b> , 178, 2176-2193   | 34       |
|            |  |          |
| 937        | Effects of combined strength and sprint training on regulation of muscle contraction at the whole-muscle and single-fibre levels in elite master sprinters. <b>2008</b> , 193, 275-89  | 33       |
| 937<br>936 |  | 33<br>17 |
|            | whole-muscle and single-fibre levels in elite master sprinters. <b>2008</b> , 193, 275-89  Soleus T reflex modulation in response to spinal and tendinous adaptations to unilateral lower limb   |          |
| 936        | whole-muscle and single-fibre levels in elite master sprinters. <b>2008</b> , 193, 275-89  Soleus T reflex modulation in response to spinal and tendinous adaptations to unilateral lower limb suspension in humans. <b>2008</b> , 194, 239-51  Relative torque contribution of vastus medialis muscle at different knee angles. <b>2008</b> , 194, 223-37 | 17       |
| 936<br>935 | whole-muscle and single-fibre levels in elite master sprinters. <b>2008</b> , 193, 275-89  Soleus T reflex modulation in response to spinal and tendinous adaptations to unilateral lower limb suspension in humans. <b>2008</b> , 194, 239-51  Relative torque contribution of vastus medialis muscle at different knee angles. <b>2008</b> , 194, 223-37 | 17<br>32 |

| 931 | ECG signal compression based on Dc equalization and complexity sorting. 2008, 55, 1923-6  |     | 27  |
|-----|---|-----|-----|
| 930 | Differences in myoelectric manifestations of fatigue in sprinters and long distance runners. <i>Physiological Measurement</i> , <b>2008</b> , 29, 331-40  | 2.9 | 40  |
| 929 | Postnatal changes in electromyographic signals during piglet growth, and in relation to muscle fibre types. <b>2008</b> , 115, 301-312  |     | 1   |
| 928 | De electricitatis catholici musculari - Concerning the electrical properties of muscles, with emphasis on meat quality. <b>2008</b> , 80, 423-30  |     | 1   |
| 927 | Mechanical and myoelectric manifestations of fatigue in subjects with anorexia nervosa. <i>Journal of Electromyography and Kinesiology</i> , <b>2008</b> , 18, 291-7  | 2.5 | 13  |
| 926 | The influence of circadian rhythm during a sustained submaximal exercise and on recovery process.<br>Journal of Electromyography and Kinesiology, <b>2008</b> , 18, 284-90  | 2.5 | 18  |
| 925 | The effects of electrode placement and innervation zone location on the electromyographic amplitude and mean power frequency versus isometric torque relationships for the vastus lateralis muscle. <i>Journal of Electromyography and Kinesiology</i> , <b>2008</b> , 18, 317-28 | 2.5 | 32  |
| 924 | Voluntary activation of the triceps surae in prepubertal children. <i>Journal of Electromyography and Kinesiology</i> , <b>2008</b> , 18, 455-65  | 2.5 | 54  |
| 923 | Effects of 8-week strength training with two models of chest press machines on muscular activity pattern and strength. <i>Journal of Electromyography and Kinesiology</i> , <b>2008</b> , 18, 618-27  | 2.5 | 11  |
| 922 | Impaired neck motor function and pronounced pain-related fear in helicopter pilots with neck pain - a clinical approach. <i>Journal of Electromyography and Kinesiology</i> , <b>2008</b> , 18, 538-49  | 2.5 | 16  |
| 921 | Time- and frequency-domain monitoring of the myoelectric signal during a long-duration, cyclic, force-varying, fatiguing hand-grip task. <i>Journal of Electromyography and Kinesiology</i> , <b>2008</b> , 18, 789-97  | 2.5 | 18  |
| 920 | Intra-session repeatability of lower limb muscles activation pattern during pedaling. <i>Journal of Electromyography and Kinesiology</i> , <b>2008</b> , 18, 857-65   | 2.5 | 60  |
| 919 | Fatigue-related changes in motor-unit synchronization of quadriceps muscles within and across legs. <i>Journal of Electromyography and Kinesiology</i> , <b>2008</b> , 18, 717-31   | 2.5 | 53  |
| 918 | EMG normalization to study muscle activation in cycling. <i>Journal of Electromyography and Kinesiology</i> , <b>2008</b> , 18, 866-78  | 2.5 | 89  |
| 917 | Neuromuscular fatigue during a prolonged intermittent exercise: Application to tennis. <i>Journal of Electromyography and Kinesiology</i> , <b>2008</b> , 18, 1038-46   | 2.5 | 58  |
| 916 | Pain-induced changes in cervical muscle activation do not affect muscle fatigability during sustained isometric contraction. <i>Journal of Electromyography and Kinesiology</i> , <b>2008</b> , 18, 938-46  | 2.5 | 9   |
| 915 | Myoelectric manifestations of fatigue in vastus lateralis, medialis obliquus and medialis longus muscles. <i>Journal of Electromyography and Kinesiology</i> , <b>2008</b> , 18, 1032-7   | 2.5 | 43  |
| 914 | Analysis of motor units with high-density surface electromyography. <i>Journal of Electromyography and Kinesiology</i> , <b>2008</b> , 18, 879-90   | 2.5 | 191 |

### (2008-2008)

| 913 | with neuromuscular disorders. <b>2008</b> , 89, 711-8   |     | 26 |
|-----|---|-----|----|
| 912 | Muscle activation during selected strength exercises in women with chronic neck muscle pain. <b>2008</b> , 88, 703-11   |     | 65 |
| 911 | Effect of time-of-day-specific strength training on maximum strength and EMG activity of the leg extensors in men. <b>2008</b> , 26, 1005-14  |     | 45 |
| 910 | Fiber type composition of cadaveric human rotator cuff muscles. <b>2008</b> , 38, 674-80  |     | 30 |
| 909 | Interpreting muscle function from EMG: lessons learned from direct measurements of muscle force. <b>2008</b> , 48, 312-20   |     | 81 |
| 908 | Electromyographic measures of muscle activation and changes in muscle architecture of human elbow flexors during fatiguing contractions. <i>Journal of Applied Physiology</i> , <b>2008</b> , 104, 1720-6   | 3.7 | 42 |
| 907 | Motor unit synchronization is increased in biceps brachii after exercise-induced damage to elbow flexor muscles. <b>2008</b> , 99, 1008-19  |     | 73 |
| 906 | Neuromuscular plasticity during and following 3 wk of human forearm cast immobilization. <i>Journal of Applied Physiology</i> , <b>2008</b> , 105, 868-78   | 3.7 | 52 |
| 905 | Diurnal variation in maximal and submaximal strength, power and neural activation of leg extensors in men: multiple sampling across two consecutive days. <b>2008</b> , 29, 217-24  |     | 36 |
| 904 | Relative shortening velocity in locomotor muscles: turkey ankle extensors operate at low V/V(max). <b>2008</b> , 294, R200-10   |     | 19 |
| 903 | Pressure signature of forearm as predictor of grip force. <b>2008</b> , 45, 883-92  |     | 80 |
| 902 | Surface EMG and spatial resolution analysis with estimation of electromyographic descriptors.  Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE  Engineering in Medicine and Biology Society Annual International Conference, 2008, 2008, 4748-51 | 0.9 |    |
| 901 | Can fast-twitch muscle fibres be selectively recruited during lengthening contractions? Review and applications to sport movements. <b>2008</b> , 7, 137-57   |     | 15 |
| 900 | A Windowed Eigenspectrum Method for Multivariate sEMG Classification During Reaching Movements. <b>2008</b> , 15, 293-296   |     | 3  |
| 899 | 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> , <b>2008</b> , 105, 1673-4  | 3.7 | 45 |
| 898 | Effect of physical training on function of chronically painful muscles: a randomized controlled trial. <i>Journal of Applied Physiology</i> , <b>2008</b> , 105, 1796-801   | 3.7 | 49 |
| 897 | Electromyography. <b>2008</b> , 956-967   |     |    |
| 896 | Differential modulation of spinal and corticospinal excitability during drop jumps. <b>2008</b> , 99, 1243-52   |     | 54 |

| 895 | Point: spectral properties of the surface EMG can characterize/do not provide information about motor unit recruitment strategies and muscle fiber type. <i>Journal of Applied Physiology</i> , <b>2008</b> , 105, 1671-3 <sup>-7</sup> | 45  |
|-----|---|-----|
| 894 | Low-alcohol doses reduce common 10- to 15-Hz input to bilateral leg muscles during quiet standing. <b>2008</b> , 100, 2158-64   | 31  |
| 893 | Somatosensory feedback from the limbs exerts inhibitory influences on central neural drive during whole body endurance exercise. <i>Journal of Applied Physiology</i> , <b>2008</b> , 105, 1714-24                                      | 110 |
| 892 | The influence of myosin heavy chain isoform composition and training status on the patterns of responses for mechanomyographic amplitude versus isometric torque. <b>2008</b> , 22, 818-25  | 10  |
| 891 | Electrode shift and normalization reduce the innervation zone's influence on EMG. 2008, 40, 1314-22   | 18  |
| 890 | Gender differences in time-frequency EMG analysis of unanticipated cutting maneuvers. <b>2008</b> , 40, 1795-804  | 32  |
| 889 | Neuromuscular efficiency of the rectus abdominis differs with gender and sport practice. <b>2008</b> , 22, 1855-61  | 15  |
| 888 | Reflex inhibition in human biceps brachii decreases with practice of a fatiguing contraction. <b>2008</b> , 100, 2843-51  | 16  |
| 887 | Time to task failure and muscle activation vary with load type for a submaximal fatiguing contraction with the lower leg. <i>Journal of Applied Physiology</i> , <b>2008</b> , 105, 463-72  | 42  |
| 886 | Effect of carbohydrate ingestion and ambient temperature on muscle fatigue development in endurance-trained male cyclists. <i>Journal of Applied Physiology</i> , <b>2008</b> , 104, 1021-8   | 26  |
| 885 | Anlise eletromiogrfica e forfi do grupo muscular extensor do punho durante isquemia induzida. <b>2009</b> , 13, 31-37   | 2   |
| 884 | Discharge rate of sternohyoid motor units activated with surface EMG feedback. <b>2009</b> , 101, 624-32  | 5   |
| 883 | Force Production and Neuromuscular Function in Bilateral Movements among Young Females at Low and High Speeds. <b>2009</b> , 51-54  | 1   |
| 882 | Finger exoskeleton for treatment of tendon injuries. 2009,  | 12  |
| 881 | Differentiation of power and endurance athletes based on their muscle fatigability assessed by new spectral electromyographic indices. <b>2009</b> , 27, 611-23   | 8   |
| 880 | Assessment of hip abductor muscle strength. A validity and reliability study. <b>2009</b> , 91, 2666-72   | 83  |
| 879 | Repeated maximal volitional effort contractions in human spinal cord injury: initial torque increases and reduced fatigue. <b>2009</b> , 23, 928-38   | 27  |
| 878 | Sex differences in response to cognitive stress during a fatiguing contraction. <i>Journal of Applied Physiology</i> , <b>2009</b> , 107, 1486-96   | 51  |

# (2009-2009)

| 877 | Tonic stretch reflex threshold as a measure of spasticity: implications for clinical practice. <b>2009</b> , 16, 177-88  | 47  |
|-----|--|-----|
| 876 | EMG-based and gaze-tracking-based man-machine interfaces. <b>2009</b> , 86, 3-21   | 1   |
| 875 | The consistency of ordinary least-squares and generalized least-squares polynomial regression on characterizing the mechanomyographic amplitude versus torque relationship. <i>Physiological</i> 2.9 <i>Measurement</i> , <b>2009</b> , 30, 115-28 | 10  |
| 874 | Rapid muscle force capacity changes after soccer match play. <b>2009</b> , 30, 273-8   | 80  |
| 873 | Central motor control failure in fibromyalgia: a surface electromyography study. <b>2009</b> , 10, 78  | 27  |
| 872 | Implantable myoelectric sensors (IMESs) for intramuscular electromyogram recording. <b>2009</b> , 56, 159-71   | 182 |
| 871 | Sex differences in time to task failure and blood flow for an intermittent isometric fatiguing contraction. <b>2009</b> , 39, 42-53  | 40  |
| 870 | Comparison of electromyographic responses for the superficial quadriceps muscles: cycle versus knee-extensor ergometry. <b>2009</b> , 39, 810-8  | 22  |
| 869 | Fatigue-related changes in fascicle-tendon geometry over repeated contractions: difference between synergist muscles. <b>2009</b> , 40, 395-401  | 15  |
| 868 | Factors responsible for force steadiness impairment with fatigue. <b>2009</b> , 40, 1019-32  | 32  |
| 867 | A comparison of critical force and electromyographic fatigue threshold for isometric muscle actions of the forearm flexors. <b>2009</b> , 105, 333-42  | 21  |
| 866 | Running versus strength-based warm-up: acute effects on isometric knee extension function. <b>2009</b> , 106, 573-81   | 18  |
| 865 | Normalized EMG to normalized torque relationship of vastus intermedius muscle during isometric knee extension. <b>2009</b> , 106, 665-73   | 27  |
| 864 | Functional maximal strength training induces neural transfer to single-joint tasks. <b>2009</b> , 107, 21-9  | 40  |
| 863 | Relationships between surface EMG variables and motor unit firing rates. <b>2009</b> , 107, 177-85   | 37  |
| 862 | Can the electromyographic fatigue threshold be determined from superficial elbow flexor muscles during an isometric single-joint task?. <b>2009</b> , 107, 193-201   | 10  |
| 861 | Neural adaptations underlying cross-education after unilateral strength training. <b>2009</b> , 107, 723-30  | 79  |
| 860 | Comparative evaluation of motor unit architecture models. <b>2009</b> , 47, 1131-42  | 6   |

| 859 | Removal of visual feedback alters muscle activity and reduces force variability during constant isometric contractions. <b>2009</b> , 197, 35-47  |     | 86  |
|-----|---|-----|-----|
| 858 | Muscle functional magnetic resonance imaging and acute low back pain: a pilot study to characterize lumbar muscle activity asymmetries and examine the effects of osteopathic manipulative treatment. <b>2009</b> , 3, 7  |     | 25  |
| 857 | Opioid-mediated muscle afferents inhibit central motor drive and limit peripheral muscle fatigue development in humans. <b>2009</b> , 587, 271-83   |     | 274 |
| 856 | Electromyographic activity in lower limb muscles is temporally associated with the slow phase of oxygen uptake during cycling. <i>Scandinavian Journal of Medicine and Science in Sports</i> , <b>2010</b> , 20, 310-9  | 4.6 | 5   |
| 855 | Electromyographic response is altered during robotic surgical training with augmented feedback. <i>Journal of Biomechanics</i> , <b>2009</b> , 42, 71-6   | 2.9 | 7   |
| 854 | Recurrence quantification analysis of surface electromyographic signal: sensitivity to potentiation and neuromuscular fatigue. <b>2009</b> , 177, 73-9  |     | 37  |
| 853 | Reliability of absolute versus log-transformed regression models for examining the torque-related patterns of response for mechanomyographic amplitude. <b>2009</b> , 179, 240-6  |     | 24  |
| 852 | A method for better positioning bipolar electrodes for lower limb EMG recordings during dynamic contractions. <b>2009</b> , 180, 133-7  |     | 48  |
| 851 | The reliability of surface EMG recorded from the pelvic floor muscles. <b>2009</b> , 182, 85-96   |     | 90  |
| 850 | The effects of electrode orientation on electromyographic amplitude and mean power frequency during cycle ergometry. <b>2009</b> , 184, 256-62  |     | 9   |
| 849 | A method of selective derivation of the action potentials of human motor units through surface electrodes. <b>2009</b> , 35, 642-646  |     | 1   |
| 848 | Adaptation of motor behavior to preserve task success in the presence of muscle fatigue. <b>2009</b> , 161, 773-86  |     | 24  |
| 847 | High-density surface EMG study on the time course of central nervous and peripheral neuromuscular changes during 8 weeks of bed rest with or without resistive vibration exercise. <i>Journal of Electromyography and Kinesiology</i> , <b>2009</b> , 19, 208-18                        | 2.5 | 29  |
| 846 | The effects of interelectrode distance over the innervation zone and normalization on the electromyographic amplitude and mean power frequency versus concentric, eccentric, and isometric torque relationships for the vastus lateralis muscle. <i>Journal of Electromyography and</i> | 2.5 | 18  |
| 845 | Patterns of motor recruitment can be determined using surface EMG. <i>Journal of Electromyography and Kinesiology</i> , <b>2009</b> , 19, 199-207   | 2.5 | 56  |
| 844 | Characteristics of the nociceptive withdrawal response elicited under aware and unaware conditions. <i>Journal of Electromyography and Kinesiology</i> , <b>2009</b> , 19, e114-22  | 2.5 | 6   |
| 843 | Electromyographic analysis of pedaling: a review. <i>Journal of Electromyography and Kinesiology</i> , <b>2009</b> , 19, 182-98   | 2.5 | 187 |
| 842 | Reliability of electromyographic amplitude values of the upper limb muscles during closed kinetic chain exercises with stable and unstable surfaces. <i>Journal of Electromyography and Kinesiology</i> , <b>2009</b> , 19, 685-94  | 2.5 | 30  |

# (2010-2009)

| 841 | Relationship between oxygen uptake slow component and surface EMG during heavy exercise in humans: influence of pedal rate. <i>Journal of Electromyography and Kinesiology</i> , <b>2009</b> , 19, 676-84   | 2.5 | 5  |
|-----|---|-----|----|
| 840 | Novel parameters of surface EMG in patients with Parkinson's disease and healthy young and old controls. <i>Journal of Electromyography and Kinesiology</i> , <b>2009</b> , 19, e206-13   | 2.5 | 78 |
| 839 | The vastus lateralis neuromuscular activity during all-out cycling exercise. <i>Journal of Electromyography and Kinesiology</i> , <b>2009</b> , 19, 922-30  | 2.5 | 7  |
| 838 | Electrode placement over the innervation zone affects the low-, not the high-frequency portion of the EMG frequency spectrum. <i>Journal of Electromyography and Kinesiology</i> , <b>2009</b> , 19, 660-6  | 2.5 | 18 |
| 837 | Heterogeneity of muscle activation in relation to force direction: a multi-channel surface electromyography study on the triceps surae muscle. <i>Journal of Electromyography and Kinesiology</i> , <b>2009</b> , 19, 882-95  | 2.5 | 76 |
| 836 | Influence of electrode type on neuromuscular activation patterns during walking in healthy subjects. <i>Journal of Electromyography and Kinesiology</i> , <b>2009</b> , 19, e494-9  | 2.5 | 6  |
| 835 | Comparison between the degree of motor unit short-term synchronization and recurrence quantification analysis of the surface EMG in two human muscles. <b>2009</b> , 120, 2086-2092   |     | 19 |
| 834 | The effect of induced alkalosis and submaximal cycling on neuromuscular response during sustained isometric contraction. <b>2009</b> , 27, 1261-9   |     | 14 |
| 833 | Muscle fatigue in males and females during multiple-sprint exercise. <b>2009</b> , 39, 257-78   |     | 99 |
| 832 | Testing of motor unit synchronization model for localized muscle fatigue. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2009</b> , 2009, 360-3 | 0.9 | 9  |
| 831 | Performance of various EMG features in identifying ARM movements for control of multifunctional prostheses. <b>2009</b> ,   |     | 2  |
| 830 | Sex alters impact of repeated bouts of sprint exercise on neuromuscular activity in trained athletes. <b>2009</b> , 34, 689-99  |     | 24 |
| 829 | EMG-torque relationship and reliability of the medial and lateral hamstring muscles. <b>2009</b> , 41, 2064-71  |     | 12 |
| 828 | Comparison of critical force to EMG fatigue thresholds during isometric leg extension. <b>2009</b> , 41, 956-64   |     | 20 |
| 827 | Variability in lateral positioning of surface EMG electrodes. <b>2009</b> , 25, 396-400   |     | 7  |
| 826 | Muscle use during double poling evaluated by positron emission tomography. <i>Journal of Applied Physiology</i> , <b>2010</b> , 109, 1895-903   | 3.7 | 42 |
| 825 | Reply to Boonstra: The Nature of Periodic Input to the Muscle. <b>2010</b> , 104, 577-577   |     | 6  |
| 824 | Linearity and reliability of the mechanomyographic amplitude versus concentric dynamic constant external resistance relationships for the bench press exercise. <b>2010</b> , 24, 785-95  |     | 5  |

| 823 | The effect of sprint and endurance training on electromyogram signal analysis by wavelets. <b>2010</b> , 24, 1527-36   |    | 11  |
|-----|--|----|-----|
| 822 | The effect of closed-kinetic chain exercises and open-kinetic chain exercise on the muscle activity of vastus medialis oblique and vastus lateralis. <b>2010</b> , 24, 1256-62   |    | 74  |
| 821 | Neuromuscular adaptations following antagonist resisted training. <b>2010</b> , 24, 156-64   |    | 12  |
| 820 | Improvements in dynamic plantar flexor strength after resistance training are associated with increased voluntary activation and V-to-M ratio. <i>Journal of Applied Physiology</i> , <b>2010</b> , 109, 19-26                 | ·7 | 47  |
| 819 | Motor unit behavior during submaximal contractions following six weeks of either endurance or strength training. <i>Journal of Applied Physiology</i> , <b>2010</b> , 109, 1455-66   | ·7 | 109 |
| 818 | Muscle shear elastic modulus measured using supersonic shear imaging is highly related to muscle activity level. <i>Journal of Applied Physiology</i> , <b>2010</b> , 108, 1389-94   | ·7 | 166 |
| 817 | Identifying representative synergy matrices for describing muscular activation patterns during multidirectional reaching in the horizontal plane. <b>2010</b> , 103, 1532-42   |    | 120 |
| 816 | Rectification of the EMG signal impairs the identification of oscillatory input to the muscle. <b>2010</b> , 103, 1093-103   |    | 95  |
| 815 | A combined muscle model and wavelet approach to interpreting the surface EMG signals from maximal dynamic knee extensions. <b>2010</b> , 26, 62-72   |    | 7   |
| 814 | Assessment of across-muscle coherence using multi-unit vs. single-unit recordings. <b>2010</b> , 207, 269-82   |    | 10  |
| 813 | Continuous monitoring of electromyography (EMG), mechanomyography (MMG), sonomyography (SMG) and torque output during ramp and step isometric contractions. <i>Medical Engineering and Physics</i> , <b>2010</b> , 32, 1032-42 | ·4 | 56  |
| 812 | Neuromuscular adaptations to 8-week strength training: isotonic versus isokinetic mode. <b>2010</b> , 108, 59-69   | 9  | 23  |
| 811 | No effect of prior caffeine ingestion on neuromuscular recovery after maximal fatiguing contractions. <b>2010</b> , 108, 123-30  |    | 13  |
| 810 | Bilateral deficit and EMG activity during explosive lower limb contractions against different overloads. <b>2010</b> , 108, 157-65   |    | 37  |
| 809 | Influence of motor unit synchronization on amplitude characteristics of surface and intramuscularly recorded EMG signals. <b>2010</b> , 108, 227-37  |    | 14  |
| 808 | Greater amount of visual feedback decreases force variability by reducing force oscillations from 0-1 and 3-7 Hz. <b>2010</b> , 108, 935-43  |    | 35  |
| 807 | Men and women exhibit a similar time to task failure for a sustained, submaximal elbow extensor contraction. <b>2010</b> , 108, 1089-98  |    | 12  |
| 806 | Neural and muscular adjustments following repeated running sprints. <b>2010</b> , 109, 1027-36   |    | 68  |

# (2010-2010)

| 805              | Task failure during standing heel raises is associated with increased power from 13 to 50 Hz in the activation of triceps surae. <b>2010</b> , 110, 255-65  | 12  |
|------------------|---|-----|
| 804              | Excessive skeletal muscle recruitment during strenuous exercise in McArdle patients. <b>2010</b> , 110, 1047-55   | 11  |
| 803              | Effects of a single habituation session on neuromuscular isokinetic profile at different movement velocities. <b>2010</b> , 110, 1127-33  | 15  |
| 802              | A muscle architecture model offering control over motor unit fiber density distributions. <b>2010</b> , 48, 875-86  | 9   |
| 801              | Neuromuscular function after arthroscopic partial meniscectomy. <b>2010</b> , 468, 1336-43  | 33  |
| 800              | Alteration of neuromuscular function in squash. <b>2010</b> , 13, 172-7   | 12  |
| 799              | Older adults exhibit more intracortical inhibition and less intracortical facilitation than young adults. <b>2010</b> , 45, 671-8   | 127 |
| 798              | Prediction of externally applied forces to human hands using frequency content of surface EMG signals. <b>2010</b> , 98, 36-44  | 25  |
| 797              | How changing the focus of attention affects performance, kinematics, and electromyography in dart throwing. <b>2010</b> , 29, 542-55  | 213 |
| 796              | Evidence of gender-specific motor templates to resist valgus loading at the knee. <b>2010</b> , 41, 614-23  | 8   |
| 795              | Increased voluntary drive is associated with changes in common oscillations from 13 to 60 Hz of interference but not rectified electromyography. <b>2010</b> , 42, 348-54   | 28  |
| 794              | Cast immobilization increases long-interval intracortical inhibition. <b>2010</b> , 42, 363-72  | 34  |
| 793              | Predicting force loss during dynamic fatiguing exercises from non-linear mapping of features of the surface electromyogram. <b>2010</b> , 190, 271-8  | 12  |
| 792              | Electromyography (EMG). <b>2010</b> , 444-446   | 1   |
| 791              | Identification of Oscillations in Muscle Activity From Surface EMG: Reply to Halliday and Farmer. <b>2010</b> , 103, 3548-3549  | 20  |
| 790              | Extraction of individual muscle mechanical action from endpoint force. <b>2010</b> , 103, 3535-46   | 18  |
| 7 <sup>8</sup> 9 | The mechanical power output of the pectoralis muscle of cockatiel (Nymphicus hollandicus): the in vivo muscle length trajectory and activity patterns and their implications for power modulation. <b>2010</b> , 213, 2770-80 | 18  |
| 788              | Assessment of hip and knee muscle function in orthopaedic practice and research. <b>2010</b> , 92, 220-9  | 67  |

| 787              | Shape analysis and clustering of Surface EMG Data. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2010</b> , 2010, 4703-6 | 0.9 | 3   |
|------------------|---|-----|-----|
| 786              | Physiological effects of concurrent training in elderly men. <b>2010</b> , 31, 689-97   |     | 79  |
| 785              | Thigh muscles' responses caused by a single combined aerobic and resistance training session in healthy young men. <b>2010</b> , 31, 311-8  |     | 6   |
| 7 <sup>8</sup> 4 | Effects of altering pedal frequency on the slow component of pulmonary VO2 kinetics and EMG activity. <b>2010</b> , 31, 529-36  |     | 5   |
| 783              | Analysis of EMG-Force Relation Using System Identification and Hammerstein-Wiener Models. <b>2010</b> ,   |     | O   |
| 782              | Impedance spectroscopy of conductive commercial hydrogels for electromyography and electroencephalography. <i>Physiological Measurement</i> , <b>2010</b> , 31, S157-67   | 2.9 | 11  |
| 781              | Decoding the neural drive to muscles from the surface electromyogram. <b>2010</b> , 121, 1616-23  |     | 216 |
| 780              | The alpha-motoneuron pool as transmitter of rhythmicities in cortical motor drive. <b>2010</b> , 121, 1633-42   |     | 38  |
| 779              | Control of hand prostheses using peripheral information. <b>2010</b> , 3, 48-68   |     | 240 |
| 778              | Interpretation of EMG integral or RMS and estimates of "neuromuscular efficiency" can be misleading in fatiguing contraction. <i>Journal of Electromyography and Kinesiology</i> , <b>2010</b> , 20, 223-32   | 2.5 | 64  |
| 777              | Influence of prolonged bed-rest on spectral and temporal electromyographic motor control characteristics of the superficial lumbo-pelvic musculature. <i>Journal of Electromyography and Kinesiology</i> , <b>2010</b> , 20, 170-9                              | 2.5 | 13  |
| 776              | Long term reliability of EMG measurements in adults with cystic fibrosis. <i>Journal of Electromyography and Kinesiology</i> , <b>2010</b> , 20, 305-12   | 2.5 | 10  |
| 775              | Methodological aspects of SEMG recordings for force estimationa tutorial and review. <i>Journal of Electromyography and Kinesiology</i> , <b>2010</b> , 20, 375-87  | 2.5 | 223 |
| 774              | On the feasibility of obtaining multiple muscular maximal voluntary excitation levels from test exertions: a shoulder example. <i>Journal of Electromyography and Kinesiology</i> , <b>2010</b> , 20, 896-902   | 2.5 | 24  |
| 773              | Neuromuscular activation of vastus intermedius muscle during fatiguing exercise. <i>Journal of Electromyography and Kinesiology</i> , <b>2010</b> , 20, 661-6   | 2.5 | 26  |
| 772              | A noninvasive, log-transform method for fiber type discrimination using mechanomyography.<br>Journal of Electromyography and Kinesiology, <b>2010</b> , 20, 787-94  | 2.5 | 39  |
| 771              | Amplitude cancellations in surface EMG signals. <i>Journal of Electromyography and Kinesiology</i> , <b>2010</b> , 20, 1021-2   | 2.5 | 5   |
| 770              | Trunk and hip muscle activity in early walkers with and without cerebral palsya frequency analysis.  Journal of Electromyography and Kinesiology, <b>2010</b> , 20, 851-9   | 2.5 | 38  |

# (2011-2010)

| 769             | sEMG wavelet-based indices predicts muscle power loss during dynamic contractions. <i>Journal of Electromyography and Kinesiology</i> , <b>2010</b> , 20, 1097-106   | 2.5   | 34  |  |
|-----------------|--|-------|-----|--|
| 768             | Test-retest reliability of quadriceps muscle function outcomes in patients with knee osteoarthritis.<br>Journal of Electromyography and Kinesiology, <b>2010</b> , 20, 1058-65   | 2.5   | 35  |  |
| 767             | Alternative methods of normalising EMG during cycling. <i>Journal of Electromyography and Kinesiology</i> , <b>2010</b> , 20, 1036-43  | 2.5   | 43  |  |
| 766             | Group III and IV muscle afferents contribute to ventilatory and cardiovascular response to rhythmic exercise in humans. <i>Journal of Applied Physiology</i> , <b>2010</b> , 109, 966-76   | 3.7   | 256 |  |
| 765             | Muscle performance and physical function are associated with voluntary rate of neuromuscular activation in older adults. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , <b>2011</b> , 66, 115-21 | 6.4   | 67  |  |
| 764             | Reliability of a combined biomechanical and surface electromyographical analysis system during dynamic barbell squat exercise. <b>2011</b> , 29, 1389-97   |       | 8   |  |
| 763             | Gender differences in hand stability of normal young people assessed at low force levels. <b>2011</b> , 54, 27   | 73-81 | 17  |  |
| 762             | Neuromuscular effects of shifting the focus of attention in a simple force production task. <b>2011</b> , 43, 173-84   |       | 75  |  |
| 761             | Repeated-sprint ability - part I: factors contributing to fatigue. <b>2011</b> , 41, 673-94  |       | 436 |  |
| 760             | Development and evaluation of a assistive computer interface by SEMG for individuals with spinal cord injuries. <b>2011</b> , 2011, 5975386  |       | 4   |  |
| 759             | Effect of bilateral versus unilateral exertion tests on maximum voluntary activity and within-participant reproducibility in the shoulder. <i>Journal of Electromyography and Kinesiology</i> , <b>2011</b> , 21, 311-7                | 2.5   | 10  |  |
| 758             | Peak and average rectified EMG measures: which method of data reduction should be used for assessing core training exercises?. <i>Journal of Electromyography and Kinesiology</i> , <b>2011</b> , 21, 102-11                           | 2.5   | 49  |  |
| 757             | Can muscle coordination be precisely studied by surface electromyography?. <i>Journal of Electromyography and Kinesiology</i> , <b>2011</b> , 21, 1-12   | 2.5   | 187 |  |
| 756             | The influence of the muscle fiber pennation angle and innervation zone on the identification of neuromuscular fatigue during cycle ergometry. <i>Journal of Electromyography and Kinesiology</i> , <b>2011</b> , 21, 33-40             | 2.5   | 13  |  |
| 755             | Piper rhythm of the electromyograms of the abductor pollicis brevis muscle during isometric contractions. <i>Journal of Electromyography and Kinesiology</i> , <b>2011</b> , 21, 184-9   | 2.5   | 13  |  |
| 754             | The relation between neuromuscular control and pain intensity in fibromyalgia. <i>Journal of Electromyography and Kinesiology</i> , <b>2011</b> , 21, 519-24   | 2.5   | 14  |  |
| 753             | Muscle fibre conduction velocity during a 30-s Wingate anaerobic test. <i>Journal of Electromyography and Kinesiology</i> , <b>2011</b> , 21, 418-22   | 2.5   | 19  |  |
| 75 <sup>2</sup> | Isometric fatigue patterns in time and time-frequency domains of triceps surae muscle in different knee positions. <i>Journal of Electromyography and Kinesiology</i> , <b>2011</b> , 21, 572-8  | 2.5   | 15  |  |

| 75 <sup>1</sup> | Differences in the log-transformed electromyographic-force relationships of the plantar flexors between high- and moderate-activated subjects. <i>Journal of Electromyography and Kinesiology</i> , <b>2011</b> , 21, 841-6 | 2.5  | 20  |
|-----------------|---|------|-----|
| 75°             | Muscle fatigue induced by two different resistances: Elastic tubing versus weight machines. <i>Journal of Electromyography and Kinesiology</i> , <b>2011</b> , 21, 954-9  | 2.5  | 36  |
| 749             | Variations in propagation velocity of muscle-fiber action potentials in individual motor units during voluntary contractions. <i>Journal of Applied Physiology</i> , <b>2011</b> , 111, 627-9                               | 3.7  | 2   |
| 748             | Diagnosis of Parkinson's Disease by Electrophysiological Methods. <b>2011</b> ,   |      | 2   |
| 747             | Comparison of an accelerometer and piezoelectric contact sensor for examining the mechanomyographic signal from the vastus medialis during isometric muscle actions. <b>2011</b> , 19, 243-250                              | )    |     |
| 746             | Electromyography Assessment of Muscle Recruitment Strategies During High-Intensity Exercise. <b>2011</b> ,  |      | 1   |
| 745             | Estimation of individual muscle force using elastography. <b>2011</b> , 6, e29261   |      | 115 |
| 744             | Test-retest reliability of v-wave responses in the soleus and gastrocnemius medialis. <b>2011</b> , 28, 217-21  |      | 21  |
| 743             | The effects of fatigue of the plantar flexors on peak torque and voluntary activation in untrained and resistance-trained men. <b>2011</b> , 25, 527-32   |      | 6   |
| 742             | Electromyographic activity and rate of muscle fatigue of the quadriceps femoris during cycling exercise in the severe domain. <b>2011</b> , 25, 2537-43   |      | 13  |
| 741             | Effects of intensive physical rehabilitation on neuromuscular adaptations in adults with poststroke hemiparesis. <b>2011</b> , 25, 2808-17  |      | 21  |
| 74º             | A method for detecting the temporal sequence of muscle activation during cycling using MRI. <i>Journal of Applied Physiology</i> , <b>2011</b> , 110, 826-33  | 3.7  | 8   |
| 739             | Adaptations in biceps brachii motor unit activity after repeated bouts of eccentric exercise in elbow flexor muscles. <b>2011</b> , 105, 1225-35  |      | 31  |
| 738             | Patterns of muscle activation during generalized tonic and tonic-clonic epileptic seizures. <b>2011</b> , 52, 212   | 5-32 | 43  |
| 737             | How the ankle joint angle alters the antagonist and agonist torques during maximal efforts in dorsi-<br>and plantar flexion. <i>Scandinavian Journal of Medicine and Science in Sports</i> , <b>2011</b> , 21, e273-81      | 4.6  | 13  |
| 736             | Effect of knee joint angle on neuromuscular activation of the vastus intermedius muscle during isometric contraction. <i>Scandinavian Journal of Medicine and Science in Sports</i> , <b>2011</b> , 21, e412-20             | 4.6  | 32  |
| 735             | Implications of group III and IV muscle afferents for high-intensity endurance exercise performance in humans. <b>2011</b> , 589, 5299-309  |      | 170 |
| 734             | Muscular timing and inter-muscular coordination in healthy females while walking. <b>2011</b> , 201, 27-34  |      | 10  |

| 733             | The nonlinear parameters of an interference electromyogram in two-day-old human newborns. <b>2011</b> , 37, 283-290  | 2   |
|-----------------|--|-----|
| 73 <sup>2</sup> | Effect of submaximal isometric wrist extension training on grip strength. <b>2011</b> , 111, 557-65  | 26  |
| 731             | Bilateral deficit phenomenon and the role of antagonist muscle activity during maximal isometric knee extensions in young, athletic men. <b>2011</b> , 111, 1533-9 | 25  |
| 730             | Neuromuscular performance of paretic versus non-paretic plantar flexors after stroke. <b>2011</b> , 111, 3041-9  | 36  |
| 729             | Conditioning and sampling issues of EMG signals in motion recognition of multifunctional myoelectric prostheses. <b>2011</b> , 39, 1779-87                         | 67  |
| 728             | Motor unit discharge rates of the anconeus muscle during high-velocity elbow extensions. <b>2011</b> , 208, 103-13   | 26  |
| 727             | Greater amount of visual information exacerbates force control in older adults during constant isometric contractions. <b>2011</b> , 213, 351-61                   | 48  |
| 726             | Surface muscle pressure as a measure of active and passive behavior of muscles during gait.  Medical Engineering and Physics, <b>2011</b> , 33, 464-71  2.4        | 41  |
| 725             | Feature extraction of forearm EMG signals for prosthetics. <b>2011</b> , 38, 4058-4067   | 124 |
| 724             | Recovery of motor function after stroke: a polymyography-based analysis. <b>2011</b> , 194, 321-8  | 13  |
| 723             | Novel methods for quantifying neurophysiologic properties of the human lumbar paraspinal muscles. <b>2011</b> , 194, 329-35  | 9   |
| 722             | Coherence between surface electromyograms is influenced by electrode placement in hand muscles. <b>2011</b> , 195, 10-4  | 13  |
| 721             | Assessment of surface electromyographic clinical analysis of selective femoral neurotomy on cerebral palsy with stiff knee. <b>2011</b> , 199, 98-102              | 5   |
| 720             | Experimental and modelling investigation of surface EMG spike analysis. <i>Medical Engineering and Physics</i> , <b>2011</b> , 33, 427-37                          | 11  |
| 719             | Effects of resistive load on performance and surface EMG activity during repeated cycling sprints on a non-isokinetic cycle ergometer. <b>2011</b> , 45, 820-4     | 11  |
| 718             | Function of a large biarticular hip and knee extensor during walking and running in guinea fowl (Numida meleagris). <b>2011</b> , 214, 3405-13                     | 10  |
| 717             | Accuracy assessment of CKC high-density surface EMG decomposition in biceps femoris muscle.  Journal of Neural Engineering, <b>2011</b> , 8, 066002                | 38  |
| 716             | Exercise and osteoarthritis: cause and effects. <b>2011</b> , 1, 1943-2008   | 30  |
|                 |  |     |

| 715 | A review of non-invasive techniques to detect and predict localised muscle fatigue. <i>Sensors</i> , <b>2011</b> , 11, 3545-94  | 3.8 | 150 |
|-----|---|-----|-----|
| 714 | Decorrelation of cortical inputs and motoneuron output. <b>2011</b> , 106, 2688-97  |     | 48  |
| 713 | Knee extensor fatigue threshold is related to whole-body VO2max. 2012, 44, 1366-74  |     | 5   |
| 712 | Effect of exercise-induced muscle damage on neuromuscular function of the quadriceps muscle. <b>2012</b> , 33, 600-6  |     | 37  |
| 711 | Corticomuscular coherence with and without additional task in the elderly. <i>Journal of Applied Physiology</i> , <b>2012</b> , 112, 970-81   | 3.7 | 41  |
| 710 | Reduced motor unit discharge rates of maximal velocity dynamic contractions in response to a submaximal dynamic fatigue protocol. <i>Journal of Applied Physiology</i> , <b>2012</b> , 113, 1821-30   | 3.7 | 18  |
| 709 | Sensitivity of EMG-EMG coherence to detect the common oscillatory drive to hand muscles in young and older adults. <b>2012</b> , 107, 2866-75   |     | 28  |
| 708 | Adjustments in motor unit properties during fatiguing contractions after training. <b>2012</b> , 44, 616-24   |     | 33  |
| 707 | Analyse des sollicitations musculairesviala technique dâlastographie «supersonic shear imaging». <b>2012</b> , 39-47  |     |     |
| 706 | Evaluation of muscle activity during a standardized shoulder resistance training bout in novice individuals. <b>2012</b> , 26, 2515-22  |     | 8   |
| 705 | Neural contributions to concentric vs. eccentric exercise-induced strength loss. <b>2012</b> , 26, 633-40   |     | 16  |
| 704 | Muscle activation strategies during strength training with heavy loading vs. repetitions to failure. <b>2012</b> , 26, 1897-903   |     | 37  |
| 703 | Corticospinal contributions to lower limb muscle activity during cycling in humans. <b>2012</b> , 107, 306-14   |     | 46  |
| 702 | Neural mechanisms of intermuscular coherence: implications for the rectification of surface electromyography. <b>2012</b> , 107, 796-807  |     | 88  |
| 701 | Fatigue during intermittent-sprint exercise. <b>2012</b> , 39, 836-41   |     | 36  |
| 700 | On the challenge of classifying 52 hand movements from surface electromyography. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2012</b> , 2012, 4931-7 | 0.9 | 58  |
| 699 | Accessing the neural drive to muscle and translation to neurorehabilitation technologies. <b>2012</b> , 5, 3-14   |     | 72  |
| 698 | Spatial EMG potential distribution pattern of vastus lateralis muscle during isometric knee extension in young and elderly men. <i>Journal of Electromyography and Kinesiology</i> , <b>2012</b> , 22, 74-9   | 2.5 | 40  |

# (2012-2012)

| 697 | Task-dependent spatial distribution of neural activation pattern in human rectus femoris muscle.<br>Journal of Electromyography and Kinesiology, <b>2012</b> , 22, 251-8  | 2.5 | 71  |
|-----|---|-----|-----|
| 696 | Neuromuscular fatigue during dynamic maximal strength and hypertrophic resistance loadings.<br>Journal of Electromyography and Kinesiology, <b>2012</b> , 22, 356-62  | 2.5 | 51  |
| 695 | Influence of amplitude cancellation on the accuracy of determining the onset of muscle activity from the surface electromyogram. <i>Journal of Electromyography and Kinesiology</i> , <b>2012</b> , 22, 494-500 | 2.5 | 11  |
| 694 | Evidence of changes in load sharing during isometric elbow flexion with ramped torque. <i>Journal of Biomechanics</i> , <b>2012</b> , 45, 1424-9  | 2.9 | 44  |
| 693 | Type 2 diabetes mellitus patients manifest characteristic spatial EMG potential distribution pattern during sustained isometric contraction. <b>2012</b> , 97, 468-73   |     | 41  |
| 692 | Reliability of neuromuscular measurements during explosive isometric contractions, with special reference to electromyography normalization techniques. <b>2012</b> , 46, 566-76                                |     | 80  |
| 691 | EMG-based simultaneous and proportional estimation of wrist/hand kinematics in uni-lateral trans-radial amputees. <b>2012</b> , 9, 42   |     | 124 |
| 690 | Immediate effects of acupuncture on biceps brachii muscle function in healthy and post-stroke subjects. <b>2012</b> , 7, 7  |     | 12  |
| 689 | Effects of prior short multiple-sprint exercises with different intersprint recoveries on the slow component of oxygen uptake during high-intensity exercise. <b>2012</b> , 37, 1080-90                         |     | 5   |
| 688 | Electromyographic models to assess muscle fatigue. <i>Journal of Electromyography and Kinesiology</i> , <b>2012</b> , 22, 501-12  | 2.5 | 148 |
| 687 | Reliability of knee joint muscle activity during weight bearing force control. <i>Journal of Electromyography and Kinesiology</i> , <b>2012</b> , 22, 914-22  | 2.5 | 12  |
| 686 | Motor unit. <b>2012</b> , 2, 2629-82  |     | 225 |
| 685 | Upper Limb Neuromuscular Strategies are Altered in Patients with Mechanical Neck Disorders Compared with Asymptomatic Volunteers. <b>2012</b> , 24, 69-84   |     | 1   |
| 684 | Prediction of time-to-exhaustion in the first dorsal interosseous muscle from early changes in surface electromyography parameters. <b>2012</b> , 45, 835-40  |     | 5   |
| 683 | Surface electromyography features in manual workers affected by carpal tunnel syndrome. <b>2012</b> , 45, 873-82  |     | 5   |
| 682 | Activation of fast-twitch fibers assessed with twitch potentiation. <b>2012</b> , 46, 218-27  |     | 12  |
| 681 | Surface EMG crosstalk during phasic involuntary muscle activation in the nociceptive withdrawal reflex. <b>2012</b> , 46, 228-36  |     | 13  |
| 680 | The influence of modeling hypothesis and experimental methodologies in the accuracy of muscle force estimation using EMG-driven models. <b>2012</b> , 28, 21-36   |     | 18  |

| 679 | Modulation of corticomuscular coherence by peripheral stimuli. <b>2012</b> , 219, 275-92  | 31 |
|-----|---|----|
| 678 | Unchanged muscle fiber conduction velocity relates to mild acidosis during exhaustive bicycling. <b>2012</b> , 112, 1593-602  | 23 |
| 677 | Relationship between effort sense and ventilatory response to intense exercise performed with reduced muscle glycogen. <b>2012</b> , 112, 2149-62   | 5  |
| 676 | Alteration in neuromuscular function after a 5 km running time trial. <b>2012</b> , 112, 2323-30  | 24 |
| 675 | Hand dominance during constant force isometric contractions: evidence of different cortical drive commands. <b>2012</b> , 112, 2999-3006  | 7  |
| 674 | Age-associated impairement in endpoint accuracy of goal-directed contractions performed with two fingers is due to altered activation of the synergistic muscles. <b>2012</b> , 47, 519-26  | 16 |
| 673 | Myoelectric manifestations of jaw elevator muscle fatigue and recovery in healthy and TMD subjects. <b>2012</b> , 39, 648-58  | 26 |
| 672 | Rectification of the EMG is an unnecessary and inappropriate step in the calculation of Corticomuscular coherence. <b>2012</b> , 205, 190-201   | 72 |
| 671 | Eccentric exercise and delayed onset muscle soreness of the quadriceps induce adjustments in agonist-antagonist activity, which are dependent on the motor task. <b>2012</b> , 216, 385-95  | 37 |
| 670 | Blood lactate and sEMG at different knee angles during fatiguing leg press exercise. <b>2012</b> , 112, 1349-58   | 14 |
| 669 | Spatial distribution of surface action potentials generated by individual motor units in the human biceps brachii muscle. <i>Journal of Electromyography and Kinesiology</i> , <b>2013</b> , 23, 766-77   | 19 |
| 668 | Redundancy or heterogeneity in the electric activity of the biceps brachii muscle? Added value of PCA-processed multi-channel EMG muscle activation estimates in a parallel-fibered muscle. <i>Journal</i> 2.5 of Electromyography and Kinesiology, <b>2013</b> , 23, 892-8 | 22 |
| 667 | Comparison between sensory and motor transcutaneous electrical nervous stimulation on electromyographic and kinesiographic activity of patients with temporomandibular disorder: a controlled clinical trial. <b>2013</b> , 14, 168   | 16 |
| 666 | Trapezius activity of fibromyalgia patients is enhanced in stressful situations, but is similar to healthy controls in a quiet naturalistic setting: a case-control study. <b>2013</b> , 14, 97   | 8  |
| 665 | Changes in surface EMG assessed by discrete wavelet transform during maximal isometric voluntary contractions following supramaximal cycling. <b>2013</b> , 113, 895-904  | 7  |
| 664 | Bandwidth optimization of the fatigue index to estimate muscle fatigue during dynamic contractions. <b>2013</b> , 14, 1185-1191   | 3  |
| 663 | Synchronous EMG activity in the piper frequency band reveals the corticospinal demand of walking tasks. <b>2013</b> , 41, 1778-86   | 23 |
| 662 | Associations between neuromuscular function and levels of physical activity differ for boys and girls during puberty. <b>2013</b> , 163, 349-54   | O  |

# (2013-2013)

| 661 | Fatigue and muscle activation during submaximal elbow flexion in children with cerebral palsy.<br>Journal of Electromyography and Kinesiology, <b>2013</b> , 23, 721-6  | 2.5 | 15  |
|-----|---|-----|-----|
| 660 | Oscillations in motor unit discharge are reflected in the low-frequency component of rectified surface EMG and the rate of change in force. <b>2013</b> , 231, 267-76   |     | 19  |
| 659 | An adaptive algorithm for the determination of the onset and offset of muscle contraction by EMG signal processing. <b>2013</b> , 21, 65-73   |     | 43  |
| 658 | Reliability of EMG normalisation methods for upper-limb muscles. <b>2013</b> , 31, 1696-704   |     | 18  |
| 657 | . 2013,   |     | 2   |
| 656 | Identification of common synaptic inputs to motor neurons from the rectified electromyogram. <b>2013</b> , 591, 2403-18   |     | 78  |
| 655 | The influence of vibration type, frequency, body position and additional load on the neuromuscular activity during whole body vibration. <b>2013</b> , 113, 1-11  |     | 149 |
| 654 | Hot conditions improve power output during repeated cycling sprints without modifying neuromuscular fatigue characteristics. <b>2013</b> , 113, 359-69  |     | 43  |
| 653 | Relationship between ventilatory threshold and muscle fiber conduction velocity responses in trained cyclists. <i>Journal of Electromyography and Kinesiology</i> , <b>2013</b> , 23, 448-54  | 2.5 | 7   |
| 652 | An SEMG computer interface using three myoelectric sites for proportional two-dimensional cursor motion control and clicking for individuals with spinal cord injuries. <i>Medical Engineering and Physics</i> , <b>2013</b> , 35, 777-83     | 2.4 | 9   |
| 651 | Electromyographic, but not mechanomyographic amplitude-force relationships, distinguished differences in voluntary activation capabilities between individuals. <i>Journal of Electromyography and Kinesiology</i> , <b>2013</b> , 23, 356-61 | 2.5 | 4   |
| 650 | The VMO:VL activation ratio while squatting with hip adduction is influenced by the choice of recording electrode. <i>Journal of Electromyography and Kinesiology</i> , <b>2013</b> , 23, 443-7   | 2.5 | 12  |
| 649 | Inter-individual variability of forces and modular muscle coordination in cycling: a study on untrained subjects. <b>2013</b> , 32, 1480-94   |     | 38  |
| 648 | Rectification of SEMG as a tool to demonstrate synchronous motor unit activity during vibration.<br>Journal of Electromyography and Kinesiology, <b>2013</b> , 23, 275-84   | 2.5 | 30  |
| 647 | Changes in electromyographic activity after botulinum toxin injection of the rectus femoris in patients with hemiparesis walking with a stiff-knee gait. <i>Journal of Electromyography and Kinesiology</i> , <b>2013</b> , 23, 1036-43       | 2.5 | 13  |
| 646 | Reproducibility of peroneal motor nerve conduction measurement in older adults. <b>2013</b> , 124, 603-9  |     | 17  |
| 645 | Corticospinal responses to sustained locomotor exercises: moving beyond single-joint studies of central fatigue. <b>2013</b> , 43, 437-49   |     | 45  |
| 644 | Electromyographic responses of the superficial quadriceps femoris muscles during incremental treadmill running. <b>2013</b> , 48, 938-44  |     | 10  |

| 643 | Activation properties of trigeminal motoneurons in participants with and without bruxism. <b>2013</b> , 110, 2863-72   |     | 8  |
|-----|--|-----|----|
| 642 | Contribution of central vs. peripheral factors to the force loss induced by passive stretch of the human plantar flexors. <i>Journal of Applied Physiology</i> , <b>2013</b> , 115, 212-8  | 3.7 | 59 |
| 641 | Frequency response of vestibular reflexes in neck, back, and lower limb muscles. <b>2013</b> , 110, 1869-81  |     | 35 |
| 640 | Variability in muscle adaptation to electrical stimulation. <b>2013</b> , 34, 544-53   |     | 12 |
| 639 | Converging Clinical and Engineering Research on Neurorehabilitation. 2013,   |     | 8  |
| 638 | Acute Effects of Motor Imagery on Performance and Neuromuscular Control in Maximal Drop Jumps. <b>2013</b> , 8,  |     | 1  |
| 637 | Non-Linear EMG Parameters for Differential and Early Diagnostics of Parkinson's Disease. <b>2013</b> , 4, 135  |     | 29 |
| 636 | Longitudinal decline of neuromuscular activation and power in healthy older adults. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , <b>2013</b> , 68, 1419-25   | 6.4 | 51 |
| 635 | Region-specific myoelectric manifestations of fatigue in human rectus femoris muscle. <b>2013</b> , 48, 226-34   | 1   | 30 |
| 634 | Temporal muscle activation assessment by ultrasound imaging during flexor withdrawal reflex and voluntary contraction. Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, | 0.9 | О  |
| 633 | Enhancing classification accuracy of wrist movement by denoising sEMG signals. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2013</b> , 2013, 5762-4      | 0.9 | 4  |
| 632 | Electromyography normalization methods for high-velocity muscle actions: review and recommendations. <b>2013</b> , 29, 600-8   |     | 50 |
| 631 | Simultaneous scalp electroencephalography (EEG), electromyography (EMG), and whole-body segmental inertial recording for multi-modal neural decoding. <b>2013</b> ,  |     | 17 |
| 630 | Effects of body position and loading modality on muscle activity and strength in shoulder presses. <b>2013</b> , 27, 1824-31   |     | 19 |
| 629 | MEASUREMENT AND ESTIMATION OF MUSCLE CONTRACTION STRENGTH USING MECHANOMYOGRAPHY BASED ON ARTIFICIAL NEURAL NETWORK ALGORITHM. <b>2013</b> , 25, 1350020   |     | 5  |
| 628 | Actions of 🛘 -adrenoceptor agonist drug on human soleus muscle contraction. <b>2013</b> , 45, 1252-60  |     | 9  |
| 627 | Influence of dorsiflexion shoes on neuromuscular fatigue of the plantar flexors after combined tapping-jumping exercises in volleyball players. <b>2013</b> , 27, 2025-33  |     | 5  |
| 626 | Occurrence of fatigue induced by a whole-body vibration session is not frequency dependent. <b>2013</b> , 27, 2552-61  |     | 1  |

| 625 | PET/CT imaging of age- and task-associated differences in muscle activity during fatiguing contractions. <i>Journal of Applied Physiology</i> , <b>2013</b> , 114, 1211-9  | 3.7 | 29 |
|-----|--|-----|----|
| 624 | Rectification of EMG in low force contractions improves detection of motor unit coherence in the beta-frequency band. <b>2013</b> , 110, 1744-50   |     | 53 |
| 623 | Surface Electromyography Assessment of the Biceps Brachii Muscle between the Endplate Region and Distal Tendon Insertion: Comparison in Terms of Gender, Dominant Arm and Contraction. <b>2013</b> , 25, 3-6   |     | 2  |
| 622 | Motor unit firing behaviour of soleus muscle in isometric and dynamic contractions. <b>2013</b> , 8, e53425  |     | 29 |
| 621 | Caffeine alters anaerobic distribution and pacing during a 4000-m cycling time trial. <b>2013</b> , 8, e75399  |     | 35 |
| 620 | Beamformer source analysis and connectivity on concurrent EEG and MEG data during voluntary movements. <b>2014</b> , 9, e91441   |     | 36 |
| 619 | Cortical and spinal mechanisms of task failure of sustained submaximal fatiguing contractions. <b>2014</b> , 9, e93284   |     | 23 |
| 618 | Difference in the recruitment of hip and knee muscles between back squat and plyometric squat jump. <b>2014</b> , 9, e101203   |     | 8  |
| 617 | Recent Observations in Surface Electromyography Recording of Triceps Brachii Muscle in Patients and Athletes. <b>2014</b> , 11, 105-118  |     | 4  |
| 616 | Motor imagery modulation of body sway is task-dependent and relies on imagery ability. <i>Frontiers in Human Neuroscience</i> , <b>2014</b> , 8, 290   | 3.3 | 12 |
| 615 | The Reliability of the Bilateral Trigeminal Roots-motor Evoked Potentials as an Organic Normalization Factor: Symmetry or Not Symmetry?. <b>2014</b> , s2,   |     |    |
| 614 | Exploratory study of electromyographic behavior of the vastus medialis and vastus lateralis at neuromuscular fatigue onset. <b>2014</b> , 20, 213-220  |     | 5  |
| 613 | Bandwidth optimization for filter-based fatigue index in different inter-electrode distances. <b>2014</b> , 24, 3701-8   |     |    |
| 612 | Multifunction myoelectric control using multi-dimensional dynamic time warping. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2014</b> , 2014, 4366-9 | 0.9 | 4  |
| 611 | Electromyogram features during linear torque decrement and their changes with fatigue. <b>2014</b> , 114, 2105-17  |     | 8  |
| 610 | Neuromuscular state of children of different gestational ages during transition from intrauterine immersion to earthât gravity. <b>2014</b> , 40, 827-831  |     | 1  |
| 609 | Recognizing sEMG Patterns for Interacting with Prosthetic Manipulation. <b>2014</b> , 283-307  |     |    |
| 608 | Novel wearable EMG sensors based on nanowire technology. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2014</b> , 2014, 1674-7                        | 0.9 | 4  |

| 607 | Correlation analysis between surface electromyography and continuous-wave near-infrared spectroscopy parameters during isometric exercise to volitional fatigue. <b>2014</b> , 22, 780-793       |     | 4   |
|-----|--|-----|-----|
| 606 | The effects of gender and very short-term resistance training on peak torque, average power and neuromuscular responses of the forearm flexors. <b>2014</b> , 22, 123-130                        |     | 1   |
| 605 | Muscle activation and strength in squat and Bulgarian squat on stable and unstable surface. <b>2014</b> , 35, 1196-202   |     | 23  |
| 604 | Mechanomyographic parameter extraction methods: an appraisal for clinical applications. <i>Sensors</i> , <b>2014</b> , 14, 22940-70  | 3.8 | 25  |
| 603 | The effectiveness of FES-evoked EMG potentials to assess muscle force and fatigue in individuals with spinal cord injury. <i>Sensors</i> , <b>2014</b> , 14, 12598-622                           | 3.8 | 17  |
| 602 | Greater glucose uptake heterogeneity in knee muscles of old compared to young men during isometric contractions detected by [(18)F]-FDG PET/CT. <b>2014</b> , 5, 198                             |     | 9   |
| 601 | A reappraisal of the deconditioning hypothesis in low back pain: review of evidence from a triumvirate of research methods on specific lumbar extensor deconditioning. <b>2014</b> , 30, 865-911 |     | 65  |
| 600 | Influence of different control strategies on muscle activation patterns in trunk muscles. <b>2014</b> , 2, e12229  | )   | 3   |
| 599 | Cortical substrates of the effects of caffeine and time-on-task on perception of effort. <i>Journal of Applied Physiology</i> , <b>2014</b> , 117, 1514-23                                       | 3.7 | 62  |
| 598 | Pain reported during prolonged standing is associated with reduced anticipatory postural adjustments of the deep abdominals. <b>2014</b> , 232, 3515-24  |     | 7   |
| 597 | Comparing functional EMG characteristics between zero-order and first-order interface dynamics. <b>2014</b> , 22, 965-70   |     | 2   |
| 596 | EMG processing to interpret a neural tension-limiting mechanism with fatigue. <b>2014</b> , 50, 384-92   |     | 8   |
| 595 | The extraction of neural strategies from the surface EMG: an update. <i>Journal of Applied Physiology</i> , <b>2014</b> , 117, 1215-30   | 3.7 | 252 |
| 594 | Non-uniform surface electromyographic responses to change in joint angle within rectus femoris muscle. <b>2014</b> , 50, 794-802   |     | 30  |
| 593 | Replace, Repair, Restore, Relieve âl Bridging Clinical and Engineering Solutions in Neurorehabilitation. <b>2014</b> ,   |     | 5   |
| 592 | AssistOn-Finger: An under-actuated finger exoskeleton for robot-assisted tendon therapy. <b>2014</b> , 32, 1363-1382   |     | 19  |
| 591 | Does stress within a muscle change in response to an acute noxious stimulus?. <b>2014</b> , 9, e91899  |     | 16  |
| 590 | Neuromuscular adaptations associated with knee joint angle-specific force change. <b>2014</b> , 46, 1525-37  |     | 71  |

| 589 | Actions of 🛚 -adrenoceptor agonist drug on neuromuscular function after fatigue. <b>2014</b> , 46, 247-56  |     | 5  |
|-----|--|-----|----|
| 588 | High-density surface electromyography improves the identification of oscillatory synaptic inputs to motoneurons. <i>Journal of Applied Physiology</i> , <b>2014</b> , 116, 1263-71   | 3.7 | 15 |
| 587 | Does quadriceps neuromuscular activation capability explain walking speed in older men and women?. <b>2014</b> , 55, 49-53   |     | 11 |
| 586 | Emerging Therapies in Neurorehabilitation. 2014,   |     | 12 |
| 585 | Electromyographic characteristics of women in different phases of the menstrual cycle, depending on season and type of autonomic regulation. <b>2014</b> , 40, 97-104  |     | 1  |
| 584 | Changes of direction during high-intensity intermittent runs: neuromuscular and metabolic responses. <b>2014</b> , 6, 2  |     | 32 |
| 583 | Relationships between skinfold thickness and electromyographic and mechanomyographic amplitude recorded during voluntary and non-voluntary muscle actions. <i>Journal of Electromyography and Kinesiology</i> , <b>2014</b> , 24, 207-13 | 2.5 | 22 |
| 582 | Influence of fatigue on upper limb muscle activity and performance in tennis. <i>Journal of Electromyography and Kinesiology</i> , <b>2014</b> , 24, 90-7  | 2.5 | 51 |
| 581 | Mechanomyography and muscle function assessment: a review of current state and prospects. <b>2014</b> , 29, 691-704  |     | 71 |
| 580 | Signal processing evaluation of myoelectric sensor placement in low-level gestures: sensitivity analysis using independent component analysis. <b>2014</b> , 31, 91-99   |     | 41 |
| 579 | Methodologies to assess muscle co-contraction during gait in people with neurological impairment - a systematic literature review. <i>Journal of Electromyography and Kinesiology</i> , <b>2014</b> , 24, 179-91                         | 2.5 | 44 |
| 578 | Spatial reorganisation of muscle activity correlates with change in tangential force variability during isometric contractions. <i>Journal of Electromyography and Kinesiology</i> , <b>2014</b> , 24, 37-45                             | 2.5 | 8  |
| 577 | Dynamical characteristics of surface EMG signals of hand grasps via recurrence plot. <b>2014</b> , 18, 257-65  |     | 55 |
| 576 | Absence of lateral gastrocnemius activity and differential motor unit behavior in soleus and medial gastrocnemius during standing balance. <i>Journal of Applied Physiology</i> , <b>2014</b> , 116, 140-8                               | 3.7 | 60 |
| 575 | Spectral analysis of surface EMG based on empirical mode decomposition. <b>2014</b> , 125, 7045-7052   |     | 5  |
| 574 | Altered corticomuscular coherence elicited by paced isotonic contractions in individuals with cerebral palsy: a case-control study. <i>Journal of Electromyography and Kinesiology</i> , <b>2014</b> , 24, 928-33                        | 2.5 | 6  |
| 573 | Increase in rate of force development with skin cooling during isometric knee extension. <i>Journal of Electromyography and Kinesiology</i> , <b>2014</b> , 24, 895-901  | 2.5 | 8  |
| 572 | Detection of Common Synaptic Inputs Shared by Populations of Motor Neurons Innervating Different Muscles: Methodology and Considerations for Neuroprosthetic Treatment of Tremor. <b>2014</b> , 373-382                                  |     |    |

| 571 | Electromyogram bandwidth requirements when the signal is whitened. <b>2014</b> , 22, 664-70  | 7   |
|-----|--|-----|
| 570 | EMG evaluation of hip adduction exercises for soccer players: implications for exercise selection in prevention and treatment of groin injuries. <b>2014</b> , 48, 1108-14                         | 65  |
| 569 | Evaluation of muscle force classification using shape analysis of the sEMG probability density function: a simulation study. <b>2014</b> , 52, 673-84  | 21  |
| 568 | Can modular strategies simplify neural control of multidirectional human locomotion?. <b>2014</b> , 111, 1686-702  | 76  |
| 567 | Insight into motor adaptation to pain from between-leg compensation. <b>2014</b> , 114, 1057-65  | 16  |
| 566 | Pacing strategies during repeated maximal voluntary contractions. <b>2014</b> , 114, 1413-20   | 31  |
| 565 | Comparison of the power spectral changes of the voluntary surface electromyogram and M wave during intermittent maximal voluntary contractions. <b>2014</b> , 114, 1943-54                         | 5   |
| 564 | Shifts in EMG spectral power during fatiguing dynamic contractions. <b>2014</b> , 50, 95-102   | 21  |
| 563 | Self-correcting pattern recognition system of surface EMG signals for upper limb prosthesis control. <b>2014</b> , 61, 1167-76   | 129 |
| 562 | Noninvasive, accurate assessment of the behavior of representative populations of motor units in targeted reinnervated muscles. <b>2014</b> , 22, 810-9  | 28  |
| 561 | The extraction of neural information from the surface EMG for the control of upper-limb prostheses: emerging avenues and challenges. <b>2014</b> , 22, 797-809                                     | 506 |
| 560 | Task dependency of motor adaptations to an acute noxious stimulation. <b>2014</b> , 111, 2298-306  | 22  |
| 559 | Effects of muscle fibre shortening on the characteristics of surface motor unit potentials. <b>2014</b> , 52, 95-107   | 17  |
| 558 | Clinical efficacy and sEMG analysis of a new traditional Chinese medicine therapy in the treatment of spasticity following apoplectic hemiparalysis. <b>2014</b> , 114, 125-9                      | 9   |
| 557 | EMGD-FE: an open source graphical user interface for estimating isometric muscle forces in the lower limb using an EMG-driven model. <b>2014</b> , 13, 37  | 10  |
| 556 | Tibialis Anterior muscle coherence during controlled voluntary activation in patients with spinal cord injury: diagnostic potential for muscle strength, gait and spasticity. <b>2014</b> , 11, 23 | 17  |
| 555 | Motor imagery modulation of postural sway is accompanied by changes in the EMG-COP association. <b>2014</b> , 577, 101-5   | 5   |
| 554 | Reliability of telemetric electromyography and near-infrared spectroscopy during high-intensity resistance exercise. <i>Journal of Electromyography and Kinesiology</i> , <b>2014</b> , 24, 722-30 | 17  |

| 553 | Effect of a short time concentric versus eccentric training program on electromyography activity and peak torque of quadriceps. <b>2014</b> , 41, 5-13  |     | 6  |
|-----|---|-----|----|
| 552 | Test-retest reliability of electromyographic variables of masseter and temporal muscles in patients with cerebral palsy. <b>2014</b> , 59, 1352-8   |     | 9  |
| 551 | Power spectral analysis of surface electromyography (EMG) at matched contraction levels of the first dorsal interosseous muscle in stroke survivors. <b>2014</b> , 125, 988-94                      |     | 44 |
| 550 | Diagnostic accuracy of the electromyography parameters associated with anterior knee pain in the diagnosis of patellofemoral pain syndrome. <b>2014</b> , 95, 1521-6                                |     | 24 |
| 549 | Three decades of citation classics: the most cited articles in the field of physical medicine and rehabilitation. <b>2014</b> , 6, 828-40   |     | 2  |
| 548 | Changes in muscle coordination and power output during sprint cycling. <b>2014</b> , 576, 11-6  |     | 19 |
| 547 | The combined effect of cycling cadence and crank resistance on hamstrings and quadriceps muscle activities during cycling. <b>2014</b> , 101, 505-16  |     | 6  |
| 546 | Increase in heterogeneity of biceps brachii activation during isometric submaximal fatiguing contractions: a multichannel surface EMG study. <b>2014</b> , 111, 984-90                              |     | 22 |
| 545 | Quantification des niveaux dâdctivit lectromyographique des muscles agonistes et antagonistes lors de contractions musculaires isomtriques, concentriques et excentriques. <b>2014</b> , 93-102     |     | 2  |
| 544 | Muscle activation does not increase after a fatigue plateau is reached during eight-sets of resistance exercise in trained individuals. <b>2014</b> , Publish Ahead of Print,                       |     |    |
| 543 | A submaximal test for the assessment of knee extensor endurance capacity. <b>2014</b> , 46, 398-406   |     | 3  |
| 542 | Plantar flexor neuromuscular adjustments following match-play football in hot and cool conditions. <i>Scandinavian Journal of Medicine and Science in Sports</i> , <b>2015</b> , 25 Suppl 1, 154-63 | 4.6 | 11 |
| 541 | Electromyography Activation Levels of the 3 Gluteus Medius Subdivisions During Manual Strength Testing. <b>2015</b> , 24, 244-51  |     | 2  |
| 540 | Nonlinear parameters of surface electromyogram for diagnostics of neuromuscular disorders and normal conditions of the human motor system. <b>2015</b> , 41, 672-679                                |     | 3  |
| 539 | Simulated surface EMG signal as a function of physiological and non physiological parameters: Analyze and interpretation. <b>2015</b> ,   |     | 1  |
| 538 | Muscle activation of the quadriceps and hamstrings during incremental running. <b>2015</b> , 52, 1023-9   |     | 9  |
| 537 | Spike shape analysis of electromyography for parkinsonian tremor evaluation. <b>2015</b> , 52, 1096-8   |     | 4  |
| 536 | Differential expression of HDAC and HAT genes in atrophying skeletal muscle. <b>2015</b> , 52, 1098-101   |     | 10 |

| 535 | Assessment of the upper body contribution to multiple-sprint cycling in men and women. <b>2015</b> , 35, 258-66  | 7  |
|-----|--|----|
| 534 | Motor units in the human medial gastrocnemius muscle are not spatially localized or functionally grouped. <b>2015</b> , 593, 3711-26   | 19 |
| 533 | Dietary milk fat globule membrane supplementation combined with regular exercise improves skeletal muscle strength in healthy adults: a randomized double-blind, placebo-controlled, crossover trial. <b>2015</b> , 14, 85   | 15 |
| 532 | Elastic Bands in Combination With Free Weights in Strength Training: Neuromuscular Effects. <b>2015</b> , 29, 2932-40  | 9  |
| 531 | Hamstring Fatigue and Muscle Activation Changes During Six Sets of Nordic Hamstring Exercise in Amateur Soccer Players. <b>2015</b> , 29, 3124-33  | 27 |
| 530 | Power spectral changes of the superimposed M wave during isometric voluntary contractions of increasing strength. <b>2015</b> , 51, 580-91   | 3  |
| 529 | Adaptation of local muscle blood flow and surface electromyography to repeated bouts of eccentric exercise. <b>2015</b> , 29, 1017-26  | 5  |
| 528 | Development of a functional anatomical subtalar pronator and supinator strength training machine. <b>2015</b> , 23, 627-35   | 6  |
| 527 | Individual Responses for Muscle Activation, Repetitions, and Volume during Three Sets to Failure of High- (80% 1RM) versus Low-Load (30% 1RM) Forearm Flexion Resistance Exercise. <b>2015</b> , 3, 269-280  | 4  |
| 526 | Influence of duty cycle on the time course of muscle fatigue and the onset of neuromuscular compensation during exhaustive dynamic isolated limb exercise. <b>2015</b> , 309, R51-61   | 10 |
| 525 | Novel insights into skeletal muscle function by mechanomyography: from the laboratory to the field. Sport Sciences for Health, 2015, 11, 1-28  | 32 |
| 524 | [18F]-FDG positron emission tomographyan established clinical tool opening a new window into exercise physiology. <i>Journal of Applied Physiology</i> , <b>2015</b> , 118, 1181-90  | 16 |
| 523 | Anticipatory signals in kinematics and muscle activity during functional grasp and release. 2015,  | 3  |
| 522 | Higher Neuromuscular Manifestations of Fatigue in Dynamic than Isometric Pull-Up Tasks in Rock Climbers. <b>2015</b> , 47, 31-9  | 3  |
| 521 | Digitally controlled feedback for DC offset cancellation in a wearable multichannel EMG platform.  Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE  6.9  Engineering in Medicine and Biology Society Annual International Conference, 2015, 2015, 3189-92 | 4  |
| 520 | Heterogeneous neuromuscular activation within human rectus femoris muscle during pedaling. <b>2015</b> , 52, 404-11  | 18 |
| 519 | Modulation of forelimb and hindlimb muscle activity during quadrupedal tied-belt and split-belt locomotion in intact cats. <b>2015</b> , 290, 266-78   | 28 |
| 518 | Super wavelet for sEMG signal extraction during dynamic fatiguing contractions. <b>2015</b> , 39, 167  | 6  |

# (2015-2015)

| 517 | antagonistic elbow muscles. <b>2015</b> , 233, 971-82   | 20 |
|-----|---|----|
| 516 | Time-course of performance changes and underlying mechanisms during and after repetitive moderately weight-loaded knee extensions. <i>Journal of Electromyography and Kinesiology</i> , <b>2015</b> , 25, 488-94 <sup>5</sup> | 1  |
| 515 | A method for a categorized and probabilistic analysis of the surface electromyogram in dynamic contractions. <b>2015</b> , 6, 30  | 10 |
| 514 | Intensity-dependent alterations in the excitability of cortical and spinal projections to the knee extensors during isometric and locomotor exercise. <b>2015</b> , 308, R998-1007  | 31 |
| 513 | Changes in motor unit behavior following isometric fatigue of the first dorsal interosseous muscle. <b>2015</b> , 113, 3186-96  | 34 |
| 512 | Reliability of normalized surface electromyographic signals of maximal upper-body isokinetic strength. <b>2015</b> , 23, 1-12   | 10 |
| 511 | Effects of the innervation zone on the time and frequency domain parameters of the surface electromyographic signal. <i>Journal of Electromyography and Kinesiology</i> , <b>2015</b> , 25, 565-70                            | 9  |
| 510 | Non-uniform recruitment along human rectus femoris muscle during transcutaneous electrical nerve stimulation. <b>2015</b> , 115, 2159-65  | 8  |
| 509 | Medium-intensity, high-volume "hypertrophic" resistance training did not induce improvements in rapid force production in healthy older men. <b>2015</b> , 37, 9786   | 15 |
| 508 | The influence of electromyographic recording methods and the innervation zone on the mean power frequency-torque relationships. <i>Journal of Electromyography and Kinesiology</i> , <b>2015</b> , 25, 423-30                 | 5  |
| 507 | Functional connectivity between core and shoulder muscles increases during isometric endurance contractions in judo competitors. <b>2015</b> , 115, 1351-8  | 18 |
| 506 | Muscle-related differences in mechanomyography frequency-force relationships are model dependent. <b>2015</b> , 53, 689-97  | 6  |
| 505 | Legendre polynomial modeling of time-varying delay applied to surface EMG signalsâDerivation of the appropriate time-dependent CRBs. <b>2015</b> , 114, 34-44   | 4  |
| 504 | Reliability of isometric subtalar pronator and supinator strength testing. <b>2015</b> , 8, 15  | 7  |
| 503 | Comparison of frequency and time domain electromyography parameters in women with patellofemoral pain. <b>2015</b> , 30, 302-7  | 18 |
| 502 | Muscle force cannot be directly inferred from muscle activation: illustrated by the proposed imbalance of force between the vastus medialis and vastus lateralis in people with patellofemoral pain. <b>2015</b> , 45, 360-5  | 36 |
| 501 | The Application of sEMG in Aging: A Mini Review. <b>2015</b> , 61, 477-84   | 18 |
| 500 | Predicting electromyographic signals under realistic conditions using a multiscale chemo-electro-mechanical finite element model. <b>2015</b> , 5, 20140076   | 26 |

| 499 | Gender differences in the myoelectric activity of lower limb muscles in young healthy subjects during walking. <b>2015</b> , 19, 14-22   |     | 37 |
|-----|--|-----|----|
| 498 | Acute effects of concentric vs. eccentric exercise on force steadiness and electromyographic responses of the forearm flexors. <b>2015</b> , 29, 604-11  |     | 8  |
| 497 | Neuromechanical characteristics in the knees of patients who had primary conservative treatment for a torn cruciate ligament and reconstruction afterward. <b>2015</b> , 114, 1240-9   |     | 3  |
| 496 | Differences in age-related fiber atrophy between vastii muscles of active subjects: a multichannel surface EMG study. <i>Physiological Measurement</i> , <b>2015</b> , 36, 1591-600  | 2.9 | 10 |
| 495 | Remote limb ischemic conditioning enhances motor learning in healthy humans. <b>2015</b> , 113, 3708-19  |     | 23 |
| 494 | Spatial EMG potential distribution of biceps brachii muscle during resistance training and detraining. <b>2015</b> , 115, 2661-70  |     | 13 |
| 493 | Characterization of evoked tactile sensation in forearm amputees with transcutaneous electrical nerve stimulation. <i>Journal of Neural Engineering</i> , <b>2015</b> , 12, 066002   | 5   | 55 |
| 492 | Electromyographic Manifestations of Fatigue Correlate With Pulmonary Function, 6-Minute Walk Test, and Time to Exhaustion in COPD. <b>2015</b> , 60, 1295-302  |     | 11 |
| 491 | Mapping of spatial and temporal heterogeneity of plantar flexor muscle activity during isometric contraction: correlation of velocity-encoded MRI with EMG. <i>Journal of Applied Physiology</i> , <b>2015</b> , 119, 558-68 | 3.7 | 5  |
| 490 | Expert-novice differences in SMR activity during dart throwing. <b>2015</b> , 110, 212-8   |     | 34 |
| 489 | Nature of the coupling between neural drive and force-generating capacity in the human quadriceps muscle. <b>2015</b> , 282,   |     | 27 |
| 488 | Neuro-mechanical and metabolic adjustments to the repeated anaerobic sprint test in professional football players. <b>2015</b> , 115, 891-903  |     | 42 |
| 487 | Human?Machine Interfacing by Decoding the Surface Electromyogram [Life Sciences]. <b>2015</b> , 32, 115-12   | 0   | 25 |
| 486 | Rate of force development as a measure of muscle damage. <i>Scandinavian Journal of Medicine and Science in Sports</i> , <b>2015</b> , 25, 417-27  | 4.6 | 82 |
| 485 | Age-Associated Changes in the Spectral and Statistical Parameters of Surface Electromyogram of Tibialis Anterior. <b>2016</b> , 2016, 7159701  |     | 3  |
| 484 | Continuous Recognition of Multifunctional Finger and Wrist Movements in Amputee Subjects Based on sEMG and Accelerometry. <b>2016</b> , 10, 101-110  |     | 6  |
| 483 | Myoelectric Manifestations of Fatigue after ACL Reconstruction: A Cross-Sectional Study after Postoperative Rehabilitation. <b>2016</b> , 1, 193-199   |     | 3  |
| 482 | Muscle- and Mode-Specific Responses of the Forearm Flexors to Fatiguing, Concentric Muscle Actions. <b>2016</b> , 4,   |     | 6  |

| 481 | Greater Strength Gains after Training with Accentuated Eccentric than Traditional Isoinertial Loads in Already Strength-Trained Men. <b>2016</b> , 7, 149   | 53 |
|-----|---|----|
| 480 | Locomotor Muscle Fatigue Does Not Alter Oxygen Uptake Kinetics during High-Intensity Exercise. <b>2016</b> , 7, 463   | 8  |
| 479 | The Isokinetic and Electromyographic Assessment of Knee Muscles Strength in the Short- and Long-Term Type 2 Diabetes. <b>2016</b> , 7, e37008   | 6  |
| 478 | Intensity-Dependent Contribution of Neuromuscular Fatigue after Constant-Load Cycling. <b>2016</b> , 48, 1751-60  | 75 |
| 477 | Effects of Velocity on Electromyographic, Mechanomyographic, and Torque Responses to Repeated Eccentric Muscle Actions. <b>2016</b> , 30, 1743-51   | 11 |
| 476 | Neuromuscular Adaptations After 2 and 4 Weeks of 80% Versus 30% 1 Repetition Maximum Resistance Training to Failure. <b>2016</b> , 30, 2174-85  | 54 |
| 475 | FDG-PET detects nonuniform muscle activity in the lower body during human gait. <b>2016</b> , 54, 959-966   | 2  |
| 474 | Core Muscle Activation in One-Armed and Two-Armed Kettlebell Swing. <b>2016</b> , 30, 1196-204  | 12 |
| 473 | SoftHand Pro-D: Matching dynamic content of natural user commands with hand embodiment for enhanced prosthesis control. <b>2016</b> ,   | 22 |
| 472 | Time course of human motoneuron recovery after sustained low-level voluntary activity. <b>2016</b> , 115, 803-12  | 9  |
| 471 | Effects of expiratory muscle strength training on oropharyngeal dysphagia in subacute stroke patients: a randomised controlled trial. <b>2016</b> , 43, 364-72  | 56 |
| 470 | Age related neuromuscular changes in sEMG of m. Tibialis Anterior using higher order statistics (Gaussianity & linearity test). Annual International Conference of the IEEE Engineering in Medicine o.9 and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, |    |
| 469 | EMG signal analysis for comprehension of genders differences behavior during pre-motor activity.  2016,   | 2  |
| 468 | Combining regression and mean comparisons to identify the time course of changes in neuromuscular responses during the process of fatigue. <i>Physiological Measurement</i> , <b>2016</b> , 37, 1993-2002 <sup>2.9</sup>  | 13 |
| 467 | Fatigue diminishes motoneuronal excitability during cycling exercise. <b>2016</b> , 116, 1743-1751  | 30 |
| 466 | Detection of sEMG muscle activation intervals using Gaussian Mixture Model and Ant Colony Classifier. <b>2016</b> ,   | 1  |
| 465 | Unique activation of the quadriceps femoris during single- and multi-joint exercises. <b>2016</b> , 116, 1031-41  | 34 |
| 464 | Electromyographic Comparison of Squats Using Constant or Variable Resistance. <b>2016</b> , 30, 3456-3463   | 10 |

| 463 | A forward-muscular inverse-skeletal dynamics framework for human musculoskeletal simulations.<br>Journal of Biomechanics, <b>2016</b> , 49, 1718-1723  | 2.9               | 21 |
|-----|--|-------------------|----|
| 462 | Anatomical and neuromuscular variables strongly predict maximum knee extension torque in healthy men. <b>2016</b> , 116, 1159-77   |                   | 41 |
| 461 | Age-related changes in motor unit firing pattern of vastus lateralis muscle during low-moderate contraction. <b>2016</b> , 38, 48  |                   | 50 |
| 460 | Acute severe male hypo-testosteronemia affects central motor command in humans. <i>Journal of Electromyography and Kinesiology</i> , <b>2016</b> , 28, 184-92  | 2.5               | 11 |
| 459 | The influence of myosin heavy chain isoform content on mechanical behavior of the vastus lateralis in vivo. <i>Journal of Electromyography and Kinesiology</i> , <b>2016</b> , 28, 143-51                            | 2.5               | 8  |
| 458 | Physiological tremor reveals how thixotropy adapts skeletal muscle for posture and movement. <b>2016</b> , 3, 160065   |                   | 3  |
| 457 | Experimental analysis of the relationship between neural and muscular recordings during hand control. <b>2016</b> ,  |                   | О  |
| 456 | Stretchable Multichannel Electromyography Sensor Array Covering Large Area for Controlling Home Electronics with Distinguishable Signals from Multiple Muscles. <b>2016</b> , 8, 21070-6                             |                   | 29 |
| 455 | Effects of active pause pattern of surface electromyographic activity among subjects performing monotonous tasks: A systematic review. <i>Journal of Electromyography and Kinesiology</i> , <b>2016</b> , 30, 196-20 | )8 <sup>2.5</sup> | 14 |
| 454 | Physiology of Muscle Activation and Force Generation. <b>2016</b> , 1-29   |                   | 1  |
| 453 | Detection and Conditioning of Surface EMG Signals. <b>2016</b> , 1-37  |                   | 7  |
| 452 | The effects of task execution variables on the musculature activation strategy of the lower trunk during squat lifting. <b>2016</b> , 55, 77-85  |                   | 4  |
| 451 | Muscle Force and Myoelectric Manifestations of Muscle Fatigue in Voluntary and Electrically Elicited Contractions. <b>2016</b> , 273-310   |                   | 3  |
| 450 | Applications in Movement and Gait Analysis. <b>2016</b> , 440-459  |                   | 7  |
| 449 | Applications in Musculoskeletal Physical Therapy. <b>2016</b> , 460-484  |                   |    |
| 448 | The slow component of pulmonary O2 uptake accompanies peripheral muscle fatigue during high-intensity exercise. <i>Journal of Applied Physiology</i> , <b>2016</b> , 121, 493-502                                    | 3.7               | 27 |
| 447 | Detecting fatigue thresholds from electromyographic signals: A systematic review on approaches and methodologies. <i>Journal of Electromyography and Kinesiology</i> , <b>2016</b> , 30, 216-30                      | 2.5               | 21 |
| 446 | Principal Component Analysis Applied to Surface Electromyography: A Comprehensive Review. <i>IEEE Access</i> , <b>2016</b> , 4, 4025-4037  | 3.5               | 43 |

| 445 | Quality improvement of diagnosis of the electromyography data based on statistical characteristics of the measured signals. <b>2016</b> ,   |     | O  |
|-----|---|-----|----|
| 444 | Electromyographic control of a robotic arm for educational purposes. <b>2016</b> ,  |     |    |
| 443 | Effect of Electrode Location on Task-Dependent Electromyography Responses Within the Human Biceps Femoris Muscle. <b>2016</b> , 32, 97-100  |     | 5  |
| 442 | Effects of prolonged vibration to vastus intermedius muscle on force steadiness of knee extensor muscles during isometric force-matching task. <i>Journal of Electromyography and Kinesiology</i> , <b>2016</b> , 31, 48-54   | 2.5 | 6  |
| 441 | Heterogeneity of muscle activity during sedentary behavior. <b>2016</b> , 41, 1155-1162   |     | 7  |
| 440 | Effects of chronic neck-shoulder pain on normalized mutual information analysis of surface electromyography during functional tasks. <b>2016</b> , 127, 3110-3117   |     | 13 |
| 439 | 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</i> | 0.9 | 5  |
| 438 | Conference, 2016, 2016, 335-339  Robust myoelectric signal detection based on stochastic resonance using multiple-surface-electrode array made of carbon nanotube composite paper. 2016, 55, 04EM07   |     | 2  |
| 437 | Time Course of Changes in Neuromuscular Parameters During Sustained Isometric Muscle Actions. <b>2016</b> , 30, 2697-2702   |     | 11 |
| 436 | Delay estimation between EEG and EMG via coherence with time lag. 2016,   |     | 1  |
| 435 | Corticomuscular Coherence With Time Lag With Application to Delay Estimation. 2017, 64, 588-600   |     | 15 |
| 434 | Muscle fiber conduction velocity and fractal dimension of EMG during fatiguing contraction of young and elderly active men. <i>Physiological Measurement</i> , <b>2016</b> , 37, 162-74   | 2.9 | 32 |
| 433 | Electromyographic adjustments during continuous and intermittent incremental fatiguing cycling. <i>Scandinavian Journal of Medicine and Science in Sports</i> , <b>2016</b> , 26, 1273-1282   | 4.6 | 13 |
| 432 | Inter-individual variability in the patterns of responses for electromyography and mechanomyography during cycle ergometry using an RPE-clamp model. <b>2016</b> , 116, 1639-49   |     | 10 |
| 431 | . <b>2016</b> , 104, 353-373  |     | 85 |
| 430 | Electromyographic evaluation of countermeasures during the terrestrial simulation of interplanetary spaceflight in Mars500 project. <b>2016</b> , 23, 11-8  |     | 7  |
| 429 | Severe COPD Alters Muscle Fiber Conduction Velocity During Knee Extensors Fatiguing Contraction. <b>2016</b> , 13, 583-8  |     | 10 |
| 428 | The Effects of Nitrate-Rich Supplementation on Neuromuscular Efficiency during Heavy Resistance Exercise. <b>2016</b> , 35, 100-7   |     | 20 |

| 427 | Principles of Motor Unit Physiology Evolve With Advances in Technology. <b>2016</b> , 31, 83-94  |     | 92  |
|-----|--|-----|-----|
| 426 | EMG activity of selected rotator cuff musculature during grade III distraction and posterior glide glenohumeral mobilization: results of a pilot trial comparing painful and non-painful shoulders. <b>2016</b> , 24, 7-13 |     | 5   |
| 425 | Multiscale musculoskeletal modelling, data-model fusion and electromyography-informed modelling. <b>2016</b> , 6, 20150084   |     | 26  |
| 424 | Estimation of loads on human lumbar spine: A review of in vivo and computational model studies.<br>Journal of Biomechanics, <b>2016</b> , 49, 833-845  | 2.9 | 107 |
| 423 | High-density surface electromyography provides reliable estimates of motor unit behavior. <b>2016</b> , 127, 2534-41   |     | 57  |
| 422 | Identifying transient patterns of in vivo muscle behaviors during isometric contraction by local polynomial regression. <b>2016</b> , 24, 93-102   |     | 3   |
| 421 | Motor unit activation strategy during a sustained isometric contraction of finger flexor muscles in elite climbers. <b>2016</b> , 34, 133-42   |     | 14  |
| 420 | Extraction and Classification of Multichannel Electromyographic Activation Trajectories for Hand Movement Recognition. <b>2016</b> , 24, 662-73  |     | 29  |
| 419 | Morphology of muscular function in chronic tension-type headache: a pilot study. <b>2016</b> , 116, 317-24   |     | 3   |
| 418 | Measuring human locomotor control using EMG and EEG: Current knowledge, limitations and future considerations. <b>2016</b> , 16, 416-26  |     | 23  |
| 417 | The neuromuscular fatigue induced by repeated scrums generates instability that can be limited by appropriate recovery. <i>Scandinavian Journal of Medicine and Science in Sports</i> , <b>2017</b> , 27, 209-216          | 4.6 | 6   |
| 416 | Central and peripheral fatigue in knee and elbow extensor muscles after a long-distance cross-country ski race. <i>Scandinavian Journal of Medicine and Science in Sports</i> , <b>2017</b> , 27, 945-955                  | 4.6 | 12  |
| 415 | New insights into the potentiation of the first and second phases of the M-wave after voluntary contractions in the quadriceps muscle. <b>2017</b> , 55, 35-45   |     | 15  |
| 414 | Decrease of muscle fiber conduction velocity correlates with strength loss after an endurance run. <i>Physiological Measurement</i> , <b>2017</b> , 38, 233-240  | 2.9 | 7   |
| 413 | Neurophysiological Mechanisms Underpinning Stretch-Induced Force Loss. <b>2017</b> , 47, 1531-1541   |     | 51  |
| 412 | Convolutive blind source separation of surface EMG measurements of the respiratory muscles. <b>2017</b> , 62, 171-181  |     | 5   |
| 411 | Impact of exercise selection on hamstring muscle activation. <b>2017</b> , 51, 1021-1028   |     | 88  |
| 410 | Surface EMG and muscle fatigue: multi-channel approaches to the study of myoelectric manifestations of muscle fatigue. <i>Physiological Measurement</i> , <b>2017</b> , 38, R27-R60  | 2.9 | 33  |

| 409 | Computer-Based Algorithmic Determination of Muscle Movement Onset Using M-Mode Ultrasonography. <b>2017</b> , 43, 1070-1075  | 3  |
|-----|--|----|
| 408 | Differential Motor Unit Changes after Endurance or High-Intensity Interval Training. <b>2017</b> , 49, 1126-1136   | 42 |
| 407 | Neuromuscular fatigue during exercise: Methodological considerations, etiology and potential role in chronic fatigue. <b>2017</b> , 47, 95-110                                   | 39 |
| 406 | Sex differences in neuromuscular function after repeated eccentric contractions of the knee extensor muscles. <b>2017</b> , 117, 1119-1130                                       | 20 |
| 405 | Neck Muscle EMG-Force Relationship and Its Reliability During Isometric Contractions. 2017, 3, 16  | 7  |
| 404 | Physical activity modulates corticospinal excitability of the lower limb in young and old adults.  Journal of Applied Physiology, 2017, 123, 364-374                             | 18 |
| 403 | Peripheral muscle fatigue in hospitalised geriatric patients is associated with circulating markers of inflammation. <b>2017</b> , 95, 128-135                                   | 10 |
| 402 | Electromyographic evaluation of high-intensity elastic resistance exercises for lower extremity muscles during bed rest. <b>2017</b> , 117, 1329-1338                            | 8  |
| 401 | Differences in flexor and extensor activity during locomotor-related leg movements in chick embryos. <b>2017</b> , 59, 357-366   | 1  |
| 400 | A novel fuzzy approach for automatic Brunnstrom stage classification using surface electromyography. <b>2017</b> , 55, 1367-1378   | 17 |
| 399 | Achilles Tendon Load is Progressively Increased with Reductions in Walking Speed. 2017, 49, 2001-2008  | 6  |
| 398 | Fatigue-induced dissociation between rate of force development and maximal force across repeated rapid contractions. <b>2017</b> , 54, 267-275                                   | 7  |
| 397 | Motor plan differs for young and older adults during similar movements. <b>2017</b> , 117, 1483-1488   | 9  |
| 396 | Is child walking conditioned by gender? Surface EMG patterns in female and male children. <i>Gait and Posture</i> , <b>2017</b> , 53, 254-259                                    | 20 |
| 395 | Influences of Interelectrode Distance and Innervation Zone on Electromyographic Signals. 2017, 38, 111-117   | 2  |
| 394 | Vastus medialis and lateralis activity during voluntary and stimulated contractions. 2017, 56, 968-974   | 5  |
| 393 | Tracking motor units longitudinally across experimental sessions with high-density surface electromyography. <b>2017</b> , 595, 1479-1496  | 71 |
| 392 | Motor adaptations to unilateral quadriceps fatigue during a bilateral pedaling task. <i>Scandinavian Journal of Medicine and Science in Sports</i> , <b>2017</b> , 27, 1724-1738 | 4  |

| 391         | Neuromuscular changes and the rapid adaptation following a bout of damaging eccentric exercise. <b>2017</b> , 220, 486-500  | 36 |
|-------------|---|----|
| 390         | Molecular, neuromuscular, and recovery responses to light versus heavy resistance exercise in young men. <b>2017</b> , 5, e13457  | 26 |
| 389         | Pilates and Proprioceptive Neuromuscular Facilitation Methods Induce Similar Strength Gains but Different Neuromuscular Adaptations in Elderly Women. <b>2017</b> , 43, 440-452   | 6  |
| 388         | Spatial electromyography distribution pattern of the vastus lateralis muscle during ramp up contractions in Parkinson's disease patients. <i>Journal of Electromyography and Kinesiology</i> , <b>2017</b> , 37, 125-13/1   | 7  |
| 387         | Repeatability of grasp recognition for robotic hand prosthesis control based on sEMG data. <b>2017</b> , 2017, 1154-1159  | 40 |
| 386         | Lessons from Popper for science, paradigm shifts, scientific revolutions and exercise physiology. <b>2017</b> , 3, e000226  | 9  |
| 385         | Neck inspiratory muscle activation patterns during well-controlled inspiration. <b>2017</b> , 117, 2085-2097  | 4  |
| 384         | Associations between motor unit action potential parameters and surface EMG features. <i>Journal of Applied Physiology</i> , <b>2017</b> , 123, 835-843   | 75 |
| 383         | Unintended activity in homologous muscle during intended unilateral contractions increases with greater task difficulty. <b>2017</b> , 117, 2009-2019   | 4  |
| 382         | Muscle Coordination and the Development of Musculoskeletal Disorders. <b>2017</b> , 45, 201-208   | 22 |
| 381         | Iterative Assessment of Statistically-Oriented and Standard Algorithms for Determining Muscle Onset with Intramuscular Electromyography. <b>2017</b> , 33, 464-468  | 4  |
| <b>3</b> 80 | Entropy of surface EMG reflects object weight in grasp-and-lift task. <i>Annual International</i> Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and  o.9  Biology Society Annual International Conference, <b>2017</b> , 2017, 2530-2533            | 1  |
| 379         | Effects of Mental Fatigue on Physical Endurance Performance and Muscle Activation Are Attenuated by Monetary Incentives. <b>2017</b> , 39, 385-396  | 20 |
| 378         | Exploring optimal myoelectric feature indices for forearm control strategy using robust principal component analysis. Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2017, | 1  |
| 377         | Extrapolation of Emerging Technologies and Their Long-Term Implications for Myoelectric versus Body-Powered Prostheses: An Engineering Perspective. <b>2017</b> , 29, P63-P74   | 3  |
| 376         | Design, control and validation of the variable stiffness exoskeleton FLExo. <b>2017</b> , 2017, 539-546   | 10 |
| 375         | . 2017,   | 1  |
| 374         | Enhanced Corticospinal Excitability and Volitional Drive in Response to Shortening and Lengthening Strength Training and Changes Following Detraining. <b>2017</b> , 8, 57  | 14 |

| 373 | Capacity in Older Men and Women. <b>2017</b> , 8, 743   | 13 |
|-----|---|----|
| 372 | Effects of Task Demands on Kinematics and EMG Signals during Tracking Tasks Using Multiscale Entropy. <b>2017</b> , 19, 307   | 6  |
| 371 | Electromyography Data Processing Impacts Muscle Synergies during Gait for Unimpaired Children and Children with Cerebral Palsy. <b>2017</b> , 11, 50  | 55 |
| 370 | Alterations in Spectral Attributes of Surface Electromyograms after Utilization of a Foot Drop Stimulator during Post-Stroke Gait. <b>2017</b> , 8, 449   | 14 |
| 369 | An electromyographic study of abdominal muscle activity in children with spastic cerebral palsy. <b>2017</b> , 73, 341  | 1  |
| 368 | Adaptations in antagonist co-activation: Role in the repeated-bout effect. <b>2017</b> , 12, e0189323   | 3  |
| 367 | Co-contraction training, muscle explosive force and associated electromyography activity. <b>2017</b> , 57, 725-733   | 2  |
| 366 | The acute effect of Quercetin on muscle performance following a single resistance training session. <b>2018</b> , 118, 1021-1031  | 19 |
| 365 | Ankle muscle tenotomy does not alter ankle flexor muscle recruitment bias during locomotor-related repetitive limb movement in late-stage chick embryos. <b>2018</b> , 60, 150-164                            | O  |
| 364 | Vastus Lateralis Motor Unit Firing Rate Is Higher in Women With Patellofemoral Pain. <b>2018</b> , 99, 907-913  | 6  |
| 363 | Higher torque and muscle fibre conduction velocity of the Biceps Brachii in karate practitioners during isokinetic contractions. <i>Journal of Electromyography and Kinesiology</i> , <b>2018</b> , 40, 81-87 | 5  |
| 362 | Shoulder and arm muscle activity during elastic band exercises performed in a hospital bed. <b>2018</b> , 46, 233-241   | 4  |
| 361 | EEG-like signals can be synthesized from surface representations of single motor units of facial muscles. <b>2018</b> , 236, 1007-1017  | 5  |
| 360 | Velocity-Dependent Changes in Electrical Efficiency of the Leg Extensors during Eccentric Isokinetic Muscle Actions. <b>2018</b> , 39,  |    |
| 359 | Carbohydrate Mouth Rinsing Does Not Prevent the Decline in Maximal Strength After Fatiguing Exercise. <b>2018</b> , 32, 2466-2473   | 6  |
| 358 | Changes in Motor Coordination Induced by Local Fatigue during a Sprint Cycling Task. <b>2018</b> , 50, 1394-1404  | 8  |
| 357 | Exercise-induced fatigue in young people: advances and future perspectives. <b>2018</b> , 118, 899-910  | 8  |
| 356 | EMG amplitude, fatigue threshold, and time to task failure: A meta-analysis. <b>2018</b> , 21, 736-741  | 11 |

| 355 | The effect of epoch length on time and frequency domain parameters of electromyographic and mechanomyographic signals. <i>Journal of Electromyography and Kinesiology</i> , <b>2018</b> , 40, 88-94                                    | 2.5  | 2   |
|-----|--|------|-----|
| 354 | Relationships between muscle strength and multi-channel surface EMG parameters in eighty-eight elderly. <b>2018</b> , 15, 3  |      | 20  |
| 353 | Variability of estimates of muscle fiber conduction velocity and surface EMG amplitude across subjects and processing intervals. <i>Journal of Electromyography and Kinesiology</i> , <b>2018</b> , 40, 102-109                        | 2.5  | 9   |
| 352 | Spectral components in electromyograms from four regions of the human masseter, in natural dentate and edentulous subjects with removable prostheses and implants. <b>2018</b> , 90, 130-137   |      | 3   |
| 351 | Immediate Effect of Acupuncture on Electromyographic Activity of the Upper Trapezius Muscle and Pain in Patients With Nonspecific Neck Pain: A Randomized, Single-Blinded, Sham-Controlled, Crossover Study. <b>2018</b> , 41, 208-217 |      | 14  |
| 350 | Coordination of plantar flexor muscles during bipedal and unipedal stances in young and elderly adults. <b>2018</b> , 236, 1229-1239   |      | 16  |
| 349 | Muscle activation and heart rate responses to a side-step interval exercise. <b>2018</b> , 38, 285-290   |      | 2   |
| 348 | Repeatability of electromyography normalization of the neck and shoulder muscles in symptomatic office workers. <b>2018</b> , 24, 422-430  |      | 9   |
| 347 | Metabolic imaging in exercise physiology. <i>Journal of Applied Physiology</i> , <b>2018</b> , 124, 497-503  | 3.7  | 6   |
| 346 | Age-related differences in the motor unit action potential size in relation to recruitment threshold. <b>2018</b> , 38, 610-616  |      | 18  |
| 345 | Time color map and histogram of electromyography (EMG) sample amplitudes: possible tools for global electromyogram analysis by images. <i>Sport Sciences for Health</i> , <b>2018</b> , 14, 83-90                                      | 1.3  | 1   |
| 344 | Analysis of surface electromyography signal features on osteomyoplastic transtibial amputees for pattern recognition control architectures. <b>2018</b> , 40, 10-22  |      | 8   |
| 343 | Effects of neuromuscular electrical stimulation on contralateral quadriceps function. <i>Journal of Electromyography and Kinesiology</i> , <b>2018</b> , 38, 111-118   | 2.5  | 11  |
| 342 | Functional capacity improves in-line with neuromuscular performance after 12 weeks of non-linear periodization strength training in the elderly. <b>2018</b> , 30, 959-968   |      | 10  |
| 341 | Muscle recruitment and coordination during upper-extremity functional tests. <i>Journal of Electromyography and Kinesiology</i> , <b>2018</b> , 38, 143-150  | 2.5  | 10  |
| 340 | An Evidence-Based Framework for Strengthening Exercises to Prevent Hamstring Injury. <b>2018</b> , 48, 251   | -267 | 103 |
| 339 | Influence of post-stroke spasticity on EMG-force coupling and force steadiness in biceps brachii.<br>Journal of Electromyography and Kinesiology, <b>2018</b> , 38, 49-55  | 2.5  | 11  |
| 338 | Distribution of muscle fibre conduction velocity for representative samples of motor units in the full recruitment range of the tibialis anterior muscle. <b>2018</b> , 222, e12930  |      | 38  |

| 337 | Estimation of human arm motion based on sEMG in human-robot cooperative manipulation. 2018,  |     | 1  |
|-----|--|-----|----|
| 336 | Extraction of Electromyographic Signals for Multiple-Hand-Motion Recognition via Sparse Representation Technique. <b>2018</b> ,  |     |    |
| 335 | Behavioral Responses of Nursing Home Residents to a Robotic Pet Dog with a Customizable Interactive Kit. <b>2018</b> , 133, 409-416  |     | 1  |
| 334 | Early Motor Unit Conduction Velocity Changes to High-Intensity Interval Training versus Continuous Training. <b>2018</b> , 50, 2339-2350   |     | 18 |
| 333 | Co-Activation, Estimated Anterior and Posterior Cruciate Ligament Forces, and Motor Unit Activation Strategies during the Time Course of Fatigue. <b>2018</b> , 6,                       |     | 3  |
| 332 | Differences in muscular and perceptual responses to a neck/shoulder fatiguing task between women and men. <i>Journal of Electromyography and Kinesiology</i> , <b>2018</b> , 43, 140-147 | 2.5 | 10 |
| 331 | Neural adaptations after 4 years vs 12 weeks of resistance training vs untrained. <i>Scandinavian Journal of Medicine and Science in Sports</i> , <b>2019</b> , 29, 348-359              | 4.6 | 21 |
| 330 | Parameters of Surface Electromyogram Suggest That Dry Immersion Relieves Motor Symptoms in Patients With Parkinsonism. <b>2018</b> , 12, 667   |     | 6  |
| 329 | Two-Layered and Stretchable e-Textile Patches for Wearable Healthcare Electronics. 2018, 7, e1801033   |     | 56 |
| 328 | Age-Related Differences in Complexity During Handgrip Control Using Multiscale Entropy. <i>IEEE Access</i> , <b>2018</b> , 6, 45552-45561  | 3.5 | 3  |
| 327 | Visual information processing in older adults: reaction time and motor unit pool modulation. <b>2018</b> , 120, 2630-2639  |     | 5  |
| 326 | Performance Fatigability Is Not Regulated to A Peripheral Critical Threshold. <b>2018</b> , 46, 240-246  |     | 38 |
| 325 | Motor planning perturbation: muscle activation and reaction time. <b>2018</b> , 120, 2059-2065   |     | 4  |
| 324 | Surface Electromyography (sEMG). <b>2018</b> , 1-22  |     | 3  |
| 323 | Spinal and supraspinal control of motor function during maximal eccentric muscle contraction: Effects of resistance training. <b>2018</b> , 7, 282-293                                   |     | 16 |
| 322 | Relationship between Isometric Muscle Force and Fractal Dimension of Surface Electromyogram. <b>2018</b> , 2018, 5373846   |     | 7  |
| 321 | The effect of medication on vastus lateralis muscle activation patterns in Parkinson's disease patients. <i>Journal of Electromyography and Kinesiology</i> , <b>2018</b> , 42, 66-73    | 2.5 | 3  |
| 320 | Surface electromyographic amplitude does not identify differences in neural drive to synergistic muscles. <i>Journal of Applied Physiology</i> , <b>2018</b> , 124, 1071-1079            | 3.7 | 61 |

| 319 | Effects of Muscle Function and Limb Loading Asymmetries on Gait and Balance in People With Multiple Sclerosis. <b>2018</b> , 9, 531   |     | 14 |
|-----|---|-----|----|
| 318 | Prediction of Twist Angle for Assistive Exoskeleton Based on EMG Signals. 2018,   |     | O  |
| 317 | One-Channel Surface Electromyography Decomposition for Muscle Force Estimation. <b>2018</b> , 12, 20  |     | 5  |
| 316 | Motor Unit Action Potential Clustering-Theoretical Consideration for Muscle Activation during a Motor Task. <i>Frontiers in Human Neuroscience</i> , <b>2018</b> , 12, 15                                     | 3.3 | 9  |
| 315 | Fatigue Influences the Recruitment, but Not Structure, of Muscle Synergies. <i>Frontiers in Human Neuroscience</i> , <b>2018</b> , 12, 217  | 3.3 | 10 |
| 314 | Virtual Sensor of Surface Electromyography in a New Extensive Fault-Tolerant Classification System. <i>Sensors</i> , <b>2018</b> , 18,  | 3.8 | 11 |
| 313 | Global electromyographic signal characteristics depend on maximal isometric contraction method in the knee extensors. <i>Journal of Electromyography and Kinesiology</i> , <b>2018</b> , 42, 111-116          | 2.5 | 7  |
| 312 | Surface electromyographic evaluation of the neuromuscular activation of the inspiratory muscles during progressively increased inspiratory flow under inspiratory-resistive loading. <b>2018</b> , 105, 86-99 |     | 3  |
| 311 | Classification of the Systems Used in Surface Electromyographic Signal Detection according to the Degree of Isotropy. <b>2018</b> , 7, 107-116  |     | 2  |
| 310 | Does vibration superimposed on low-level isometric contraction alter motor unit recruitment strategy?. <i>Journal of Neural Engineering</i> , <b>2018</b> , 15, 066001  | 5   | 9  |
| 309 | Beta, gamma band, and high-frequency coherence of EMGs of vasti muscles caused by clustering of motor units. <b>2018</b> , 236, 3065-3075   |     | 9  |
| 308 | A Neuromuscular Interface for Robotic Devices Control. <b>2018</b> , 2018, 8948145  |     | 6  |
| 307 | A wavelet based time frequency analysis of electromyograms to group steps of runners into clusters that contain similar muscle activation patterns. <b>2018</b> , 13, e0195125                                |     | 16 |
| 306 | Neuromuscular responses of recreationally active women during a sustained, submaximal isometric leg extension muscle action at a constant perception of effort. <b>2018</b> , 118, 2499-2508                  |     | 6  |
| 305 | An automatic, adaptive, information-based algorithm for the extraction of the sEMG envelope. <i>Journal of Electromyography and Kinesiology</i> , <b>2018</b> , 42, 1-9                                       | 2.5 | 14 |
| 304 | Muscle fiber conduction velocity of the vastus medilais and lateralis muscle after eccentric exercise induced-muscle damage. <i>Journal of Electromyography and Kinesiology</i> , <b>2018</b> , 43, 118-126   | 2.5 | 1  |
| 303 | An interactive tool for the analysis of muscular recruitment during walking task. <b>2019</b> , 7, 175-185  |     | 2  |
| 302 | Achieving Neural Compatibility With Human Sensorimotor Control in Prosthetic and Therapeutic Devices. <b>2019</b> , 1, 122-134  |     | 7  |

| 301         | Neural muscle activation detection: A deep learning approach using surface electromyography. <i>Journal of Biomechanics</i> , <b>2019</b> , 95, 109322   | 6   |
|-------------|--|-----|
| 300         | Muscle fibre activation is unaffected by load and repetition duration when resistance exercise is performed to task failure. <b>2019</b> , 597, 4601-4613  | 55  |
| 299         | Anatomical and Neuromuscular Determinants of Strength Change in Previously Untrained Men Following Heavy Strength Training. <b>2019</b> , 10, 1001   | 17  |
| 298         | Maximal contraction methods influence the magnitude and reliability of global electromyographic signal characteristics. <i>Journal of Electromyography and Kinesiology</i> , <b>2019</b> , 48, 121-127       | 5   |
| 297         | Single channel surface electromyogram deconvolution to explore motor unit discharges. <b>2019</b> , 57, 2045-2054  | · 2 |
| 296         | Inter- and Intra-Individual Differences in EMG and MMG during Maximal, Bilateral, Dynamic Leg Extensions. <b>2019</b> , 7,   | 11  |
| 295         | Rate of force development and rapid muscle activation characteristics of knee extensors in very old men. <b>2019</b> , 124, 110640   | 7   |
| 294         | Optimizing Neuromuscular Electrical Stimulation Pulse Width and Amplitude to Promote Central Activation in Individuals With Severe Spinal Cord Injury. <b>2019</b> , 10, 1310                                | 14  |
| 293         | A Lower Limb Phantom for Simulation and Assessment of Electromyography Technology. <b>2019</b> , 27, 2378-238  | 5 4 |
| 292         | Spatiotemporal characteristics of neural activity in tibial nerves with carbon nanotube yarn electrodes. <b>2019</b> , 328, 108450   | 9   |
| 291         | Insulation of Carbon Nanotube Yarn Electrodes for Intrafascicular Neural Stimulation and Recording. <b>2019</b> ,  | 4   |
| <b>2</b> 90 | Non-Propagating Components of Surface Electromyogram Reflect Motor Unit Firing Rates. <i>IEEE Access</i> , <b>2019</b> , 7, 106155-106161  | 2   |
| 289         | Effect of knee joint angle on the neuromuscular activation of the quadriceps femoris during repetitive fatiguing contractions. <i>Journal of Electromyography and Kinesiology</i> , <b>2019</b> , 49, 102356 | 0   |
| 288         | Electromyographic comparison of the barbell deadlift using constant versus variable resistance in healthy, trained men. <b>2019</b> , 14, e0211021   | 5   |
| 287         | Introduction. <b>2019</b> , 1-46   |     |
| 286         | Neuromuscular fatigue during whole body exercise. <b>2019</b> , 10, 128-136  | 10  |
| 285         | A review of simulation methods for human movement dynamics with emphasis on gait. <b>2019</b> , 47, 265-292  | 16  |
| 284         | Causal Mediation Analysis Could Resolve Whether Training-Induced Increases in Muscle Strength are Mediated by Muscle Hypertrophy. <b>2019</b> , 49, 1309-1315  | 9   |

| 283 | Muscle strength, size, and neuromuscular function before and during adolescence. <b>2019</b> , 119, 1619-163   | 32  | 10 |
|-----|--|-----|----|
| 282 | Wireless sEMG-based identification in a virtual reality environment. <b>2019</b> , 98, 78-85   |     | 6  |
| 281 | Changes in knee joint angle affect torque steadiness differently in young and older individuals.<br>Journal of Electromyography and Kinesiology, <b>2019</b> , 47, 49-56                                 | 2.5 | 2  |
| 280 | Development of a novel MATLAB-based framework for implementing mechanical joint stability constraints within OpenSim musculoskeletal models. <i>Journal of Biomechanics</i> , <b>2019</b> , 91, 61-68    | 2.9 | 3  |
| 279 | The relation between central variables, electromyography signals and peripheral microcirculation during intensive treadmill exercise. <b>2019</b> , 67, 52-60  |     | 3  |
| 278 | Single Sessions of High-Definition Transcranial Direct Current Stimulation Do Not Alter Lower Extremity Biomechanical or Corticomotor Response Variables Post-stroke. <b>2019</b> , 13, 286              |     | 13 |
| 277 | Innervation zone locations distribute medially within the pectoralis major muscle during bench press exercise. <i>Journal of Electromyography and Kinesiology</i> , <b>2019</b> , 46, 8-13               | 2.5 | 7  |
| 276 | Non-invasive Decoding of the Motoneurons: A Guided Source Separation Method Based on Convolution Kernel Compensation With Clustered Initial Points. <b>2019</b> , 13, 14                                 |     | 9  |
| 275 | Contribution of cognitive functions to postural control in anticipating self-paced and externally-triggered lower-limb perturbations. <b>2019</b> , 366, 56-66   |     | 6  |
| 274 | Physiological validation of the decomposition of surface EMG signals. <i>Journal of Electromyography and Kinesiology</i> , <b>2019</b> , 46, 70-83   | 2.5 | 33 |
| 273 | Determining the most effective exercise for gluteal muscle activation in children with cerebral palsy using surface electromyography. <i>Gait and Posture</i> , <b>2019</b> , 70, 270-274                | 2.6 | 3  |
| 272 | Evaluation of the Electromyography Test for the Analysis of the Aerobic-Anaerobic Transition in Elite Cyclists during Incremental Exercise. <i>Applied Sciences (Switzerland)</i> , <b>2019</b> , 9, 589 | 2.6 | 1  |
| 271 | Constrained particle filtering for movement identification in forearm prosthesis. <b>2019</b> , 161, 25-35   |     | 4  |
| 270 | Fatigue reduces the complexity of knee extensor torque during fatiguing sustained isometric contractions. <b>2019</b> , 19, 1349-1358  |     | 11 |
| 269 | A quantitative taxonomy of human hand grasps. <b>2019</b> , 16, 28   |     | 18 |
| 268 | Neuromuscular adaptations to sixteen weeks of whole-body high-intensity interval training compared to ergometer-based interval and continuous training. <b>2019</b> , 37, 1561-1569                      |     | 7  |
| 267 | The effect of blood flow occlusion during acute low-intensity isometric elbow flexion exercise. <b>2019</b> , 119, 587-595   |     | 6  |
| 266 | The validity of the EMG and MMG techniques to examine muscle hypertrophy. <i>Physiological Measurement</i> , <b>2019</b> , 40, 025009  | 2.9 | 5  |

| 265 | Skeletal Muscle Fatigability in Heart Failure. <b>2019</b> , 10, 129   | 17 |
|-----|--|----|
| 264 | Spectro-temporal analysis of electromyogram signals. <b>2019</b> , 11, 152   | 1  |
| 263 | Improving the Reliability of V-Wave Responses in the Soleus Muscle. <b>2019</b> , 36, 97-103   | 4  |
| 262 | Frequency Analysis of Electromyogram Signals (EMGs). <b>2019</b> ,   |    |
| 261 | Folded L-shaped circularly polarized antenna for Cube Sat. 2019,   |    |
| 260 | 300-GHz 120-Gb/s Wireless Transceiver with High-Output-Power and High-Gain Power Amplifier Based on 80-nm InP-HEMT Technology. <b>2019</b> ,   | 11 |
| 259 | Semg-Based Hand Gesture Recognition Via Dilated Convolutional Neural Networks. 2019,   | 7  |
| 258 | Optimal Scheduling of Dynamic Energy Demand in Smart Grid Using Time-slotting Linear Programming. <b>2019</b> ,  | O  |
| 257 | Myoelectric Control for Upper Limb Prostheses. <b>2019</b> , 8, 1244   | 13 |
| 256 | Muscle Synergy Constraints Do Not Improve Estimates of Muscle Activity From Static Optimization During Gait for Unimpaired Children or Children With Cerebral Palsy. <b>2019</b> , 13, 102 | 6  |
| 255 | Contralateral effect of short-duration unilateral neuromuscular electrical stimulation and focal vibration in healthy subjects. <b>2018</b> , 54, 911-920                                  | 4  |
| 254 | Computer Aided Intervention and Diagnostics in Clinical and Medical Images. 2019,  | 4  |
| 253 | Strength training with intermittent blood flow restriction improved strength without changes in neural aspects on quadriceps muscle. <b>2019</b> , 34, e175-e185                           | 1  |
| 252 | Ultrasound-based detection of glucocorticoid-induced impairments of muscle mass and structure in Cushing's disease. <b>2019</b> , 42, 757-768  | 8  |
| 251 | The influence of added mass on muscle activation and contractile mechanics during submaximal and maximal countermovement jumping in humans. <b>2019</b> , 222,                             | 5  |
| 250 | Estimation of Elbow Joint Angle from Surface Electromyogram Signals Using ANFIS. <b>2019</b> , 247-253   |    |
| 249 | Differences in muscle contraction onset as determined by ultrasound and electromyography. <b>2019</b> , 59, 494-500  | 4  |
| 248 | Do individual differences in the distribution of activation between synergist muscles reflect individual strategies?. <b>2019</b> , 237, 625-635   | 7  |

| 247 | CORP: Measurement of upper and lower limb muscle strength and voluntary activation. <i>Journal of Applied Physiology</i> , <b>2019</b> , 126, 513-543  | 3.7 | 23 |
|-----|--|-----|----|
| 246 | Acute Neuromuscular and Endocrine Responses to Two Different Compound Exercises: Squat vs. Deadlift. <b>2019</b> , 33, 2381-2387   |     | 7  |
| 245 | Acute Effects of Different Rest Intervals Between Sets of Resistance Exercise on Neuromuscular Fatigue in Trained Older Women. <b>2020</b> , 34, 2235-2240   |     | 1  |
| 244 | Loss of selective wrist muscle activation in post-stroke patients. <b>2020</b> , 42, 779-787   |     | 1  |
| 243 | Muscle fibre activation and fatigue with low-load blood flow restricted resistance exercise-An integrative physiology review. <b>2020</b> , 228, e13302  |     | 21 |
| 242 | Model-Based Estimation of Individual Muscle Force Based on Measurements of Muscle Activity in Forearm Muscles During Isometric Tasks. <b>2020</b> , 67, 134-145  |     | 8  |
| 241 | A Novel Method Using Kinesiology Taping for the Activation of Suprahyoid Muscles in Healthy Adults: A Preliminary Research. <b>2020</b> , 35, 636-642  |     | 8  |
| 240 | Assessment of neuromuscular activity during maximal isometric contraction in supine vs standing body positions. <i>Journal of Electromyography and Kinesiology</i> , <b>2020</b> , 50, 102365  | 2.5 | 1  |
| 239 | A database of multi-channel intramuscular electromyogram signals during isometric hand muscles contractions. <b>2020</b> , 7, 10   |     | 11 |
| 238 | High-density electromyographic assessment of stretch reflex activity during drop jumps from varying drop heights. <i>Journal of Electromyography and Kinesiology</i> , <b>2020</b> , 50, 102375  | 2.5 | 4  |
| 237 | Recommendations for the Study of Vulvar Pain in Women, Part 1: Review of Assessment Tools. <b>2020</b> , 17, 180-194   |     | 9  |
| 236 | Low-load blood flow restriction elicits greater concentric strength than non-blood flow restriction resistance training but similar isometric strength and muscle size. <b>2020</b> , 120, 425-441   |     | 10 |
| 235 | Anti-phase cocontraction practice attenuates in-phase low-frequency oscillations between antagonistic muscles as assessed with phase coherence. <b>2020</b> , 238, 63-72   |     |    |
| 234 | Relevance of spectral peaks in electromyographic recordings during force-modulated vibration exercise. Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, <b>2020</b> , 2020, 3106-3109 | 0.9 | 1  |
| 233 | Kinetic and Electromyographic Responses to Traditional and Assisted Nordic Hamstring Exercise. <b>2020</b> , 34, 2715-2724   |     | 3  |
| 232 | Estimacifi de par basada en electromiografà de superficie: potencial herramienta para la rehabilitacifi de rodilla. <b>2020</b> , 68,  |     | 1  |
| 231 | The effect of electrical muscle stimulation on quadriceps muscle strength and activation patterns in healthy young adults. <b>2021</b> , 21, 1414-1422   |     | 3  |
| 230 | Simplified Optimal Estimation of Time-Varying Electromyogram Standard Deviation (EMG) Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2020, 2020, 3122-3125                          | 0.9 | O  |

## (2020-2020)

| 229 | The Effects of Nicotine on Cortical Excitability After Exercise: A Double-Blind Randomized, Placebo-controlled, Crossover Study. <b>2020</b> , 40, 495-498  |     | 3  |
|-----|---|-----|----|
| 228 | Different Effects of 2 mA and 4 mA Transcranial Direct Current Stimulation on Muscle Activity and Torque in a Maximal Isokinetic Fatigue Task. <i>Frontiers in Human Neuroscience</i> , <b>2020</b> , 14, 240   | 3.3 | 6  |
| 227 | Critical Appraisal of Surface Electromyography (sEMG) as a Taught Subject and Clinical Tool in Medicine and Kinesiology. <b>2020</b> , 11, 560363   |     | 4  |
| 226 | Wearable Sensors Detect Differences between the Sexes in Lower Limb Electromyographic Activity and Pelvis 3D Kinematics during Running. <i>Sensors</i> , <b>2020</b> , 20,  | 3.8 | 4  |
| 225 | Dysfunctional muscle activities and co-contraction in the lower-limb of lumbar disc herniation patients during walking. <b>2020</b> , 10, 20432   |     | 1  |
| 224 | Acute Effects of Elastic Bands as Resistance or Assistance on EMG, Kinetics, and Kinematics During Deadlift in Resistance-Trained Men. <i>Frontiers in Sports and Active Living</i> , <b>2020</b> , 2, 598284   | 2.3 | O  |
| 223 | Cost-Effective Printed Electrodes Based on Emerging Materials Applied to Biosignal Acquisition. <i>IEEE Access</i> , <b>2020</b> , 8, 127789-127800   | 3.5 | 1  |
| 222 | Attenuated activation of knee extensor muscles during fast contractions in older men and women. <b>2020</b> , 120, 2289-2299  |     | 2  |
| 221 | Impact of the "Sling Shot" Supportive Device on Upper-Body Neuromuscular Activity during the Bench Press Exercise. <b>2020</b> , 17,  |     | 2  |
| 220 | Muscle modes of the equestrian rider at walk, rising trot and canter. <b>2020</b> , 15, e0237727  |     | 7  |
| 219 | Intramuscular EMG For Abstract Myoelectric Control: A Proof Of Concept 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> , <b>2020</b> , 2020, 3277-3280 | 0.9 | 2  |
| 218 | Sex differences in fatigability following exercise normalised to the power-duration relationship. <b>2020</b> , 598, 5717-5737  |     | 17 |
| 217 | Effect of Parkinson's disease and two therapeutic interventions on muscle activity during walking: a systematic review. <b>2020</b> , 6, 22   |     | 10 |
| 216 | Assessment of Neuroplasticity With Strength Training. <b>2020</b> , 48, 151-162   |     | 9  |
| 215 | On the Influence of Group III/IV Muscle Afferent Feedback on Endurance Exercise Performance. <b>2020</b> , 48, 209-216  |     | 11 |
| 214 | Intermuscular coherence between homologous muscles during dynamic and static movement periods of bipedal squatting. <b>2020</b> , 124, 1045-1055  |     | 1  |
| 213 | Different Effects of Transcranial Direct Current Stimulation on Leg Muscle Glucose Uptake Asymmetry in Two Women with Multiple Sclerosis. <b>2020</b> , 10,   |     | 4  |
| 212 | The Effect of Spinal Manipulation on the Electrophysiological and Metabolic Properties of the Tibialis Anterior Muscle. <b>2020</b> , 8,  |     | 4  |

| 211         | Surface Electromyography Meets Biomechanics: Correct Interpretation of sEMG-Signals in Neuro-Rehabilitation Needs Biomechanical Input. <b>2020</b> , 11, 603550  |      | 6  |
|-------------|--|------|----|
| <b>21</b> 0 | Surface Electromyography: What Limits Its Use in Exercise and Sport Physiology?. <b>2020</b> , 11, 578504  |      | 7  |
| 209         | Leg Muscle Activity and Perception of Effort before and after Four Short Sessions of Submaximal Eccentric Cycling. <b>2020</b> , 17,   |      | 1  |
| 208         | XceptionTime: Independent Time-Window Xceptiontime Architecture for Hand Gesture Classification. <b>2020</b> ,   |      | 6  |
| 207         | Surface EMG-Based Hand Gesture Recognition via Hybrid and Dilated Deep Neural Network Architectures for Neurorobotic Prostheses. <b>2020</b> , 05, 2041001   |      | 6  |
| 206         | Biomechanical load during patient transfer with assistive devices: Cross-sectional study. <b>2020</b> , 63, 1164-1   | 1174 | 10 |
| 205         | EMG median frequency shifts without change in muscle oxygenation following novel locomotor training in individuals with incomplete spinal cord injury. <b>2020</b> , 1-7   |      | 3  |
| 204         | Tutorial: Analysis of motor unit discharge characteristics from high-density surface EMG signals.  Journal of Electromyography and Kinesiology, <b>2020</b> , 53, 102426   | 2.5  | 45 |
| 203         | Sex differences in motor unit discharge rates at maximal and submaximal levels of force output. <b>2020</b> , 45, 1197-1207  |      | 7  |
| 202         | Effect of Neuromuscular Electrical Stimulation on Masseter Muscle Thickness and Maximal Bite Force Among Healthy Community-Dwelling Persons Aged 65 Years and Older: A Randomized, Double Blind, Placebo-Controlled Study. <b>2020</b> , 17, |      | 1  |
| 201         | Reproducibility of muscle fibre conduction velocity during linearly increasing force contractions.<br>Journal of Electromyography and Kinesiology, <b>2020</b> , 53, 102439  | 2.5  | 2  |
| 200         | EMG Rectification Is Detrimental for Identifying Abnormalities in Corticomuscular and Intermuscular Coherence in Spinocerebellar Ataxia Type 2. <b>2020</b> , 19, 665-671  |      | 5  |
| 199         | Progress and Prospects of Multimodal Fusion Methods in Physical Humanâ <b>R</b> obot Interaction: A Review. <b>2020</b> , 20, 10355-10370  |      | 14 |
| 198         | Targeted Walking in Incomplete Spinal Cord Injury: Role of Corticospinal Control. <b>2020</b> , 37, 2302-2314  |      | 2  |
| 197         | Motor Unit Discharge Variability Is Increased in Mild-To-Moderate Parkinson's Disease. <b>2020</b> , 11, 477   |      | 4  |
| 196         | Consensus for experimental design in electromyography (CEDE) project: Amplitude normalization matrix. <i>Journal of Electromyography and Kinesiology</i> , <b>2020</b> , 53, 102438  | 2.5  | 64 |
| 195         | Core Muscle Activity During Physical Fitness Exercises: A Systematic Review. <b>2020</b> , 17,   |      | 13 |
| 194         | A Temporally Smoothed MLP Regression Scheme for Continuous Knee/Ankle Angles Estimation by Using Multi-Channel sEMG. <i>IEEE Access</i> , <b>2020</b> , 8, 47433-47444   | 3.5  | 8  |

| 193 | Prevention and Rehabilitation of Hamstring Injuries. 2020,   |   | 2  |
|-----|--|---|----|
| 192 | Evaluation of the Lower Limb Muscles' Electromyographic Activity during the Leg Press Exercise and Its Variants: A Systematic Review. <b>2020</b> , 17,  |   | 3  |
| 191 | . <b>2020</b> , 68, 1668-1677  |   | 6  |
| 190 | Abnormal patterns of corticomuscular and intermuscular coherence in childhood dystonia. <b>2020</b> , 131, 967-977   |   | 9  |
| 189 | Traces of muscular fatigue in the rectus femoris identified with surface electromyography and wavelets on normal gait. <b>2020</b> , 1-15  |   | 2  |
| 188 | Muscle Activation in Middle-Distance Athletes with Compression Stockings. <i>Sensors</i> , <b>2020</b> , 20, 3.  | 8 | 2  |
| 187 | Does sEMG normalization change results on sex differences in the activation of the shoulder girdle muscles during a simulated work task?. <b>2020</b> , 85, 103044   |   | 4  |
| 186 | Corticospinal excitability is altered similarly following concentric and eccentric maximal contractions. <b>2020</b> , 120, 1457-1469  |   | 4  |
| 185 | Motor unit contributions to activation reduction and torque steadiness following active lengthening: a study of residual torque enhancement. <b>2020</b> , 123, 2209-2216  |   | 4  |
| 184 | Effect of a 6-week strength-training program on neuromuscular efficiency in type 2 diabetes mellitus patients. <b>2020</b> , 11, 376-382   |   | 2  |
| 183 | Effect of target distance on controllability for myocontrol. <b>2020</b> , 140, 102432   |   | 5  |
| 182 | Muscle Activity Detectors-Surface Electromyography in the Evaluation of Abductor Hallucis Muscle. <i>Sensors</i> , <b>2020</b> , 20,   | 8 | 4  |
| 181 | EMG Signal Filtering Based on Variational Mode Decomposition and Sub-Band Thresholding. <b>2021</b> , 25, 47-58  |   | 6  |
| 180 | How Has Electromyography Been Used to Assess Reaching in Infants? A Systematic Review. <b>2021</b> , 53, 117-127   |   |    |
| 179 | Demographically-adjusted norms for the Grooved Pegboard and Finger Tapping tests in Spanish-speaking adults: Results from the Neuropsychological Norms for the U.SMexico Border Region in Spanish (NP-NUMBRS) Project. <b>2021</b> , 35, 396-418 |   | 19 |
| 178 | Changes in supramaximal M-wave amplitude at different regions of biceps brachii following eccentric exercise of the elbow flexors. <b>2021</b> , 121, 307-318  |   | О  |
| 177 | Is impaired dopaminergic function associated with mobility capacity in older adults?. <b>2021</b> , 43, 1383-1404  |   | 4  |
| 176 | Inter-muscle differences in modulation of motor evoked potentials and posterior root-muscle reflexes evoked from lower-limb muscles during agonist and antagonist muscle contractions. <b>2021</b> , 239, 463-474                                |   | 2  |

| 175 | Synergic control of a single muscle: The example of flexor digitorum superficialis. <b>2021</b> , 599, 1261-1279  |     | 17 |
|-----|---|-----|----|
| 174 | Manual material handling in the supermarket sector. Part 1: Joint angles and muscle activity of trapezius descendens and erector spinae longissimus. <b>2021</b> , 92, 103340                           |     | 1  |
| 173 | Relationship between intensive care unit-acquired weakness, fatigability and fatigue: What role for the central nervous system?. <b>2021</b> , 62, 101-110  |     | 3  |
| 172 | FS-HGR: Few-Shot Learning for Hand Gesture Recognition via Electromyography. <b>2021</b> , 29, 1004-1015  |     | 21 |
| 171 | Revealing the unique features of each individual's muscle activation signatures. <b>2021</b> , 18, 20200770   |     | 4  |
| 170 | Elektromyografie. <b>2021,</b> 1-22   |     |    |
| 169 | A Survey of Multimodal Human-Machine Interface. <b>2021</b> , 379-386   |     |    |
| 168 | Neuromuscular responses at acute moderate and severe hypoxic exposure during fatiguing exercise of the biceps brachii. <b>2021</b> , 4, 209-215   |     |    |
| 167 | Endurance training alters motor unit activation strategies for the vastus lateralis, yet sex-related differences and relationships with muscle size remain. <b>2021</b> , 121, 1367-1377                |     | 2  |
| 166 | Human motion intention recognition based on EMG signal and angle signal. 2021, 3, 37-47   |     | O  |
| 165 | Kinematic synergies in over-ground slip recovery outcomes: Distinct strategies or a single strategy?. <i>Gait and Posture</i> , <b>2021</b> ,   | 2.6 |    |
| 164 | Single EMG Sensor-Driven Robotic Glove Control for Reliable Augmentation of Power Grasping. <b>2021</b> , 3, 179-189  |     | 5  |
| 163 | The type of visual biofeedback influences maximal handgrip strength and activation strategies. <b>2021</b> , 121, 1607-1616   |     |    |
| 162 | Impact of Power Output on Muscle Activation and 3D Kinematics During an Incremental Test to Exhaustion in Professional Cyclists. <i>Frontiers in Sports and Active Living</i> , <b>2020</b> , 2, 516911 | 2.3 |    |
| 161 | Comparison of Muscle Activity in Three Single-Joint, Hip Extension Exercises in Resistance-Trained Women. <b>2021</b> , 20, 181-187   |     |    |
| 160 | Increased resistance towards fatigability in patients with facioscapulohumeral muscular dystrophy. <b>2021</b> , 121, 1617-1629   |     | 3  |
| 159 | Effects of detection system parameters on cross-correlations between MUAPs generated from parallel and inclined muscle fibres. <b>2021</b> , 27, 87-97  |     | 0  |
| 158 | Characterization of Pelvic Floor Activity in Healthy Subjects and with Chronic Pelvic Pain: Diagnostic Potential of Surface Electromyography. <i>Sensors</i> , <b>2021</b> , 21,                        | 3.8 | 1  |

| 157 | Gesture Recognition Using Surface Electromyography and Deep Learning for Prostheses Hand: State-of-the-Art, Challenges, and Future. <b>2021</b> , 15, 621885                            |       | 14  |
|-----|---|-------|-----|
| 156 | Impact of a submaximal mono-articular exercise on the skeletal muscle function of patients with sickle cell disease. <b>2021</b> , 121, 2459-2470                                       |       |     |
| 155 | Contralateral training effects of low-intensity blood-flow restricted and high-intensity unilateral resistance training. <b>2021</b> , 121, 2305-2321                                   |       | 1   |
| 154 | Using Latent Representations of Muscle Activation Patterns to Mitigate Myoelectric Interface Noise. <b>2021</b> ,   |       | O   |
| 153 | Reliability of corticospinal excitability estimates for the vastus lateralis: Practical considerations for lower limb TMS task selection. <b>2021</b> , 1761, 147395                    |       | O   |
| 152 | Effect of elbow joint angles on electromyographic activity versus force relationships of synergistic muscles of the triceps brachii. <b>2021</b> , 16, e0252644                         |       | O   |
| 151 | Few-Shot Learning for Decoding Surface Electromyography for Hand Gesture Recognition. 2021,   |       | 0   |
| 150 | Maintenance of standing posture during multi-directional leaning demands the recruitment of task-specific motor units in the ankle plantarflexors. <b>2021</b> , 239, 2569-2581         |       | 2   |
| 149 | Principal postural acceleration and myoelectric activity: Interrelationship and relevance for characterizing neuromuscular function in postural control. <b>2021</b> , 77, 102792       |       | 3   |
| 148 | Muscle Fiber Conduction Velocity Correlates With the Age at Onset in Mild FSHD Cases. <b>2021</b> , 12, 68617   | 6     |     |
| 147 | Neural control of matched motor units during muscle shortening and lengthening at increasing velocities. <i>Journal of Applied Physiology</i> , <b>2021</b> , 130, 1798-1813            | 3.7   | 4   |
| 146 | Possible neural mechanisms underlying post-contraction potentiation in elbow flexor muscle in humans. <b>2021</b> , 10, 171-179   |       | O   |
| 145 | Evaluation of Multilevel Surgeries in Children With Spastic Cerebral Palsy Based on Surface Electromyography. <b>2021</b> , 15, 680645  |       |     |
| 144 | Influence of Spectral Peaks on EMG Parameter Estimation for Vibration-Exercise Analysis. <b>2021</b> , 21, 1414   | 11-14 | 147 |
| 143 | Personal Protective Equipment Alters Leg Muscle Fatigability Independent of Transcranial Direct Current Stimulation: A Comparison with Pre-COVID-19 Pandemic Results. <b>2021</b> , 11, |       | 0   |
| 142 | Simplified Optimal Estimation of Time-Varying Electromyogram Standard Deviation (EMG): Evaluation on Two Datasets. <i>Sensors</i> , <b>2021</b> , 21,                                   | 3.8   | O   |
| 141 | Neural control of the healthy pectoralis major from low-to-moderate isometric contractions. <b>2021</b> , 126, 213-226  |       | 0   |
| 140 | Effect of BoNT/A in the Surface Electromyographic Characteristics of the Pelvic Floor Muscles for the Treatment of Chronic Pelvic Pain. <i>Sensors</i> , <b>2021</b> , 21,              | 3.8   |     |

| 139 | Maximal muscular power: lessons from sprint cycling. <b>2021</b> , 7, 48  |     | 8  |
|-----|---|-----|----|
| 138 | Muscle fatigue analysis in isometric contractions using geometric features of surface electromyography signals. <b>2021</b> , 68, 102603  |     | O  |
| 137 | Corticomuscular Interactions in Real and Imaginary Arm Movements. <b>2021</b> , 51, 724-733   |     | O  |
| 136 | Is the Power Spectrum of Electromyography Signal a Feasible Tool to Estimate Muscle Fiber Composition in Patients with COPD?. <b>2021</b> , 10,   |     | 3  |
| 135 | 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> , <b>2021</b> , 131, 808-820                            | 3.7 | 3  |
| 134 | Effect of Knee Joint Angle on Regional Hamstrings Activation During Isometric Knee-Flexion Exercise. <b>2021</b> , 30, 905-910  |     | O  |
| 133 | Treatment of Dyspareunia with Botulinum Neurotoxin Type A: Clinical Improvement and Influence of Patients' Characteristics. <b>2021</b> , 18,   |     | 0  |
| 132 | Electromyographic activity of the sternocleidomastoid muscle in infants with bronchopulmonary dysplasia. <b>2021</b> , 37, 535-543  |     |    |
| 131 | A Muscle Fatigue Classification Model Based on LSTM and Improved Wavelet Packet Threshold. <i>Sensors</i> , <b>2021</b> , 21,   | 3.8 | 1  |
| 130 | Regional difference in the EMG-force relationship of the hamstring muscles during knee flexion. <b>2021</b> , 10, 233-241   |     |    |
| 129 | Changes in synchronization of the motor unit in muscle fatigue condition during the dynamic and isometric contraction in the Biceps Brachii muscle. <b>2021</b> , 761, 136101                               |     | 1  |
| 128 | Electromyographic Comparison of Flywheel Inertial Leg Curl and Nordic Hamstring Exercise Among Soccer Players. <i>International Journal of Sports Physiology and Performance</i> , <b>2020</b> , 16, 97-102 | 3.5 | 1  |
| 127 | Role of EMG Rectification for Corticomuscular and Intermuscular Coherence Estimation of Spinocerebellar Ataxia Type 2 (SCA2). <b>2019</b> , 306-315   |     | 2  |
| 126 | Surface Electromyography to Study Muscle Coordination. <b>2016</b> , 1-21   |     | 6  |
| 125 | Surface EMG in Neurorehabilitation and Ergonomics: State of the Art and Future Perspectives. <b>2014</b> , 267-284  |     | 4  |
| 124 | Non-invasive analysis of motor neurons controlling the intrinsic and extrinsic muscles of the hand. <i>Journal of Neural Engineering</i> , <b>2020</b> , 17, 046033   | 5   | 9  |
| 123 | Effects of inspiratory muscle strength and inspiratory resistance on neck inspiratory muscle activation during controlled inspirations. <b>2019</b> , 104, 556-567  |     | 2  |
| 122 | Muscle Synergies Modify Optimization Estimates of Joint Stiffness During Walking. <b>2020</b> , 142,  |     | 10 |

## (2021-2012)

| 121 | Repeatability of corticospinal and spinal measures during lengthening and shortening contractions in the human tibialis anterior muscle. <b>2012</b> , 7, e35930   |   | 23 |
|-----|--|---|----|
| 120 | Force control is related to low-frequency oscillations in force and surface EMG. <b>2014</b> , 9, e109202  |   | 34 |
| 119 | Increased Upper Trapezius Muscle Stiffness in Overhead Athletes with Rotator Cuff Tendinopathy. <b>2016</b> , 11, e0155187   |   | 22 |
| 118 | Associations between lower-limb muscle activation and knee flexion in post-stroke individuals: A study on the stance-to-swing phases of gait. <b>2017</b> , 12, e0183865   |   | 18 |
| 117 | Quadriceps short-term resistance exercise in subjects with resistant hypertension. <b>2011</b> , 24, 629-636   |   | 1  |
| 116 | Accuracy and learning curves of inexperienced observers for manual segmentation of electromyograms. <b>2013</b> , 26, 559-567  |   | 2  |
| 115 | Efeitos de dois parlhetros antropomítricos no comportamento do sinal mecanomiogrífico em testes de for muscular. <b>2008</b> , 14, 221-226   |   | 4  |
| 114 | Electromyographic and ultrasonographic characterization of masticatory function in individuals with normal occlusion. <b>2012</b> , 24, 211-7  |   | 5  |
| 113 | Evidence-Based Resistance Training Recommendations. <b>2011</b> , 15, 147-162  |   | 81 |
| 112 | Evaluation of the immediate effects of manual acupuncture on brachial bicep muscle function in healthy individuals and post stroke patients: a study protocol of a parallel-group randomized clinical trial. <b>2012</b> , 10, 303-9 |   | 4  |
| 111 | Forelimb brachial muscle activation patterns using surface electromyography and their relationship to kinematics in normal dogs walking and trotting. <b>2014</b> , 10, 13-22  |   | 8  |
| 110 | Chaos, Fractal and Recurrence Quantification Analysis of Surface Electromyography in Muscular Dystrophy. <b>2015</b> , 05, 205-257   |   | 3  |
| 109 | Effects of heat exposure in the absence of hyperthermia on power output during repeated cycling sprints. <b>2015</b> , 32, 15-20   |   | 12 |
| 108 | Reduced susceptibility to eccentric exercise-induced muscle damage in resistance-trained men is not linked to resistance training-related neural adaptations. <b>2015</b> , 32, 199-205  |   | 4  |
| 107 | Joint Torque Prediction via Hybrid Neuromusculoskeletal Modelling during Gait Using Statistical Ground Reaction Estimates: An Exploratory Study. <i>Sensors</i> , <b>2021</b> , 21,  | } | 1  |
| 106 | Alterations in Leg Muscle Glucose Uptake and Inter-Limb Asymmetry after a Single Session of tDCS in Four People with Multiple Sclerosis. <b>2021</b> , 11,   |   | 1  |
| 105 | Modulation of bilateral lower-limb muscle coordination when performing increasingly challenging balance exercises. <b>2021</b> , 136299  |   | O  |
| 104 | Behavior of motor units during submaximal isometric contractions in chronically strength-trained individuals. <i>Journal of Applied Physiology</i> , <b>2021</b> , 131, 1584-1598  |   | 1  |

| 103 | An examination of motor unit firing rates during steady torque of maximal efforts with either an explosive or slower rate of torque development. <b>2021</b> , 106, 2517-2530   | O |
|-----|---|---|
| 102 | Impact of size and shape for textile surface electromyography electrodes: a study of the biceps brachii muscle. 004051752110489   | O |
| 101 | Characteristics of Surface EMG Recorded from the Biceps Brachii during Rapid Isometric Elbow Flexion. <b>2011</b> , 47, 183-189   |   |
| 100 | Reproducibility of Electromyography Signal Amplitude during Repetitive Dynamic Contraction. <b>2011</b> , 30, 689-694   |   |
| 99  | Mechanisms of post-contraction activation in skeletal muscle. <b>2012</b> , 1, 513-521  |   |
| 98  | EMG Topography of Low Back Muscles as a Tool for Posture Evaluation and for the Assessment of Lumbalgia Treatments Progress. <b>2013</b> , 495-499  |   |
| 97  | A Comparison of Muscle Activity and Fatigue Between Maximal and Submaximal Repetitions Exercise During the Bench Press. <b>2016</b> , 65, 678-683   |   |
| 96  | Factorization of EMG via muscle synergies in walking task: Evaluation of intra-subject and inter-subject variability. <b>2017</b> ,   | 3 |
| 95  | Surface Electromyography to Study Muscle Coordination. <b>2018</b> , 451-470  | 1 |
| 94  | Occlusal, joint and muscle condition of a young adult population. <b>2019</b> , 4,  |   |
| 93  | Optimising Hamstring Strength and Function for Performance After Hamstring Injury. <b>2020</b> , 283-313  |   |
| 92  | Changes in Surface Electromyography Signal according to Severity in Patients with Carpal Tunnel Syndrome. <b>2020</b> , 22, 15-22   |   |
| 91  | Letter to the Editor-Changes in Muscle Pattern Activity during the Asymmetric Flat Bench Press. <b>2020</b> , 18,   | 1 |
| 90  | Evaluation of performance fatigability through surface EMG in health and muscle disease: state of the art. <b>2021</b> , 28, 20-40  | 1 |
| 89  | Revealing the unique features of each individualâd muscle activation signatures.  |   |
| 88  | Modeling the Human Elbow Joint Dynamics from Surface Electromyography. 114-128  | O |
| 87  | Functional Asymmetry of Pelvic Floor Innervation and Its Potential Role in the Pathogenesis of Fecal and Urinary Incontinence âlReport from the EU-sponsored Research Project OASIS (On Asymmetry In Sphincters). <b>2005</b> , 469-490 |   |
| 86  | An electromyographic study of the vastii muscles during open and closed kinetic chain submaximal isometric exercises. <b>2012</b> , 7, 617-26   | 9 |

| 85            | Biomechanical loading as an alternative treatment for tremor: a review of two approaches. 2012, 2,  | 8   |  |
|---------------|---|-----|--|
| 84            | Electrophysiological evaluation in lumbosacral radiculopathy. <b>2012</b> , 11, 83-6  | 7   |  |
| 83            | Dynamic training volume: a construct of both time under tension and volume load. 2006, 5, 707-13  | 17  |  |
| 82            | Perceived loading and muscle activity during hip strengthening exercises: comparison of elastic resistance and machine exercises. <b>2013</b> , 8, 811-9  | 18  |  |
| 81            | A Comparison of Three Computer-based Methods Used to Determine EMG Signal Amplitude. <b>2010</b> , 3, 43-48   | 9   |  |
| 80            | Limitations of Spectral Electromyogramic Analysis to Determine the Onset of Neuromuscular Fatigue Threshold during Incremental Ergometer Cycling. <b>2016</b> , 15, 148-57                                      | 1   |  |
| 79            | Effect of sex on torque, recovery, EMG, and MMG responses to fatigue. <b>2016</b> , 16, 310-317   | 8   |  |
| 78            | RAPID KNEE-EXTENSIONS TO INCREASE QUADRICEPS MUSCLE ACTIVITY IN PATIENTS WITH TOTAL KNEE ARTHROPLASTY: A RANDOMIZED CROSS-OVER STUDY. <b>2017</b> , 12, 105-116   | 2   |  |
| 77            | Time Course of Changes in Neuromuscular Responses at 30% versus 70% 1 Repetition Maximum during Dynamic Constant External Resistance Leg Extensions to Failure. <b>2017</b> , 10, 365-378                       | 5   |  |
| 76            | Neuromuscular responses of the superficial quadriceps femoris muscles: muscle specific fatigue and inter-individual variability during severe intensity treadmill running. <b>2020</b> , 20, 77-87              | 1   |  |
| 75            | Study on the effects of arm abduction angle and cushion support during sonographic examination on the stiffness of supraspinatus muscle of sonographers using shear wave elastography. <b>2021</b> , 63, e12306 | o o |  |
| 74            | Membrane Capacitance and Characteristic Frequency are Associated with Contractile Properties of Skeletal Muscle. SSRN Electronic Journal,   |     |  |
| 73            | Alterations of tibialis anterior muscle activation pattern in subjects with type 2 diabetes and diabetic peripheral neuropathy <i>Biomedical Physics and Engineering Express</i> , <b>2021</b> ,                | ;   |  |
| <del>72</del> | Time-frequency analysis of surface EMG signals for human movement identification. <i>IEEE Access</i> , <b>2022</b> , 1-1  | . 1 |  |
| 71            | fNIRS-Based Upper Limb Motion Intention Recognition Using an Artificial Neural Network for Transhumeral Amputees <i>Sensors</i> , <b>2022</b> , 22,   | }   |  |
| 70            | Design of an Effective Prosthetic Hand System for Adaptive Grasping with the Control of Myoelectric Pattern Recognition Approach <i>Micromachines</i> , <b>2022</b> , 13,                                       | О   |  |
| 69            | Differential regional pectoralis major activation indicates functional diversity in healthy females  Journal of Biomechanics, 2022, 133, 110966   | )   |  |
| 68            | Measuring Muscle Activity in Sprinters Using T2-Weighted Magnetic Resonance Imaging  International Journal of Sports Physiology and Performance, <b>2022</b> , 1-6  | :   |  |

| 67 | Adaptation in Gait to Lunar and Martian Gravity Unloading During Long-Term Isolation in the Ground-Based Space Station Model <i>Frontiers in Human Neuroscience</i> , <b>2021</b> , 15, 742664   | 3.3 | O |
|----|--|-----|---|
| 66 | Impaired phase synchronization of motor-evoked potentials reflects the degree of motor dysfunction in the lesioned human brain <i>Human Brain Mapping</i> , <b>2022</b> ,  | 5.9 |   |
| 65 | Evaluating Electromyography and Sonomyography Sensor Fusion to Estimate Lower-Limb Kinematics Using Gaussian Process Regression <i>Frontiers in Robotics and AI</i> , <b>2022</b> , 9, 716545  | 2.8 | 3 |
| 64 | Assessment of neuromuscular electrical stimulation effect on contralateral quadriceps muscle.<br>Journal of Bodywork and Movement Therapies, 2022,   | 1.6 |   |
| 63 | Clarify Sit-to-Stand Muscle Synergy and Tension Changes in Subacute Stroke Rehabilitation by Musculoskeletal Modeling <i>Frontiers in Systems Neuroscience</i> , <b>2022</b> , 16, 785143  | 3.5 | 1 |
| 62 | The Effects of the Biceps Brachii and Brachioradialis on Elbow Flexor Muscle Strength and Spasticity in Stroke Patients <i>Neural Plasticity</i> , <b>2022</b> , 2022, 1295908   | 3.3 | 1 |
| 61 | Lower limb muscle activation in response to balance-perturbed tasks during walking in older adults: A systematic review <i>Gait and Posture</i> , <b>2022</b> , 93, 166-176  | 2.6 | O |
| 60 | Estimating muscle activation from EMG using deep learning-based dynamical systems models<br>Journal of Neural Engineering, 2022,   | 5   | 1 |
| 59 | Visuo-Motor Affective Interplay: Bonding Scenes Promote Implicit Motor Pre-dispositions Associated With Social Grooming-A Pilot Study <i>Frontiers in Psychology</i> , <b>2022</b> , 13, 817699  | 3.4 |   |
| 58 | Rectus femoris activation is modified by training status and correlates with endurance performance in cycling. <i>Sport Sciences for Health</i> , 1  | 1.3 |   |
| 57 | Consensus for experimental design in electromyography (CEDE) project: High-density surface electromyography matrix <i>Journal of Electromyography and Kinesiology</i> , <b>2022</b> , 64, 102656   | 2.5 | 4 |
| 56 | Rejecting Impulse Artifacts from Surface EMG Signals using Real-time Cumulative Histogram Filtering. Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2021, 2021, 6235-6241 | 0.9 | O |
| 55 | Spatiotemporally Synchronized Surface EMG and Ultrasonography Measurement Using a Flexible and Low-Profile EMG Electrode. Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference,  | 0.9 | 1 |
| 54 | 2021, 2021, 6242-6246 Simplified Whitening Filtering in the Processing of the Electromyogram. 2021,  |     |   |
| 53 | Estimating muscle activation from EMG using deep learning-based dynamical systems models.  |     | 0 |
| 52 | Table_1.DOCX. <b>2019</b> ,  |     |   |
| 51 | Image_1.PDF. <b>2018</b> ,   |     |   |
| 50 | Electromyographic activity of posterior kinetic chain muscles during hamstring strengthening exercises <i>Physical Therapy in Sport</i> , <b>2022</b> , 55, 205-210  | 3   | O |

| 49 | Hand Gesture Recognition Using Temporal Convolutions and Attention Mechanism. 2022,   |     | О |
|----|---|-----|---|
| 48 | Hamstring muscle activation strategies during eccentric contractions is related to the distribution of muscle damage. Scandinavian Journal of Medicine and Science in Sports,   | 4.6 | О |
| 47 | Application of EEG Signals Integration to Proprietary Classification Algorithms in the Implementation of Mobile Robot Control with the Use of Motor Imagery Supported by EMG Measurements. <i>Applied Sciences (Switzerland)</i> , <b>2022</b> , 12, 5762 | 2.6 | 1 |
| 46 | Membrane capacitance and characteristic frequency are associated with contractile properties of skeletal muscle. <i>Medical Engineering and Physics</i> , <b>2022</b> , 106, 103832   | 2.4 | 2 |
| 45 | Detecting Touch and Grasp Gestures Using a Wrist-Worn Optical and Inertial Sensing Network. <i>IEEE Robotics and Automation Letters</i> , <b>2022</b> , 1-8   | 4.2 |   |
| 44 | Acute Neuromuscular and Hormonal Responses to Power, Strength, and Hypertrophic Protocols and Training Background. <i>Frontiers in Sports and Active Living</i> , 4,  | 2.3 | O |
| 43 | Investigation of graphene-coated Ag/AgCl electrode performance in surface electromyography measurement. <i>Biosensors and Bioelectronics: X</i> , <b>2022</b> , 100193  | 2.9 |   |
| 42 | CLINICAL AND ELECTROMYOGRAPHIC CHARACTERISTIC OF NEUROMUSCULAR STATUS OF INFANTS WITH MOTOR DYSFUNCTION. <i>Ekologiya Cheloveka (Human Ecology)</i> , <b>2013</b> , 20, 44-51   | 2.1 |   |
| 41 | Uterine slow wave: directionality and changes with imminent delivery. Physiological Measurement,  | 2.9 |   |
| 40 | High-density surface electromyography as biomarker of muscle aging. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> ,  | 6.4 |   |
| 39 | The impact of local therapies for breast cancer on shoulder muscle health and function. <i>Critical Reviews in Oncology/Hematology</i> , <b>2022</b> , 177, 103759  | 7   |   |
| 38 | Neuromuscular and structural tendon adaptations after 6 weeks of either concentric or eccentric exercise in individuals with non-insertional Achilles tendinopathy: protocol for a randomised controlled trial. <b>2022</b> , 12, e058683                 |     |   |
| 37 | Corticospinal control of a challenging ankle task in incomplete spinal cord injury.   |     |   |
| 36 | Can phase angle from bioelectrical impedance analysis associate with neuromuscular properties of the knee extensors?. 13,   |     |   |
| 35 | Sex differences in motor unit behaviour: A review. <b>2022</b> , 102689   |     | O |
| 34 | Caffeine Increases Endurance Performance via Changes in Neural and Muscular Determinants of Performance Fatigability. <b>2022</b> , 54, 1591-1603   |     | O |
| 33 | Passive-mode treadmill test effectively reveals neuromuscular modification of a lower limb muscle: sEMG-based study from experiments on ISS. <b>2022</b> , 199, 471-479   |     | 1 |
| 32 | No effect of coactivation on fatigue-induced decreases in isokinetic and isometric torque in healthy young male adults. <b>2022</b> , 86, 103002  |     | O |

| 31 | Dynamic Gripping Force Estimation and Reconstruction in EMG-Based Human-Machine Interaction.  | O |
|----|---|---|
| 30 | Simultaneous and Proportional Real-Time Myocontrol of up to Three Degrees of Freedom of the Wrist and Hand. <b>2022</b> , 1-12  | O |
| 29 | Teaching Essential EMG Theory to Kinesiologists and Physical Therapists Using Analogies Visual Descriptions, and Qualitative Analysis of Biophysical Concepts. <b>2022</b> , 22, 6555 | 1 |
| 28 | People with chronic low back pain display spatial alterations in high-density surface EMG-torque oscillations. <b>2022</b> , 12,  | O |
| 27 | Electromyographic and Mechanomyographic Responses During Isokinetic Leg Extensions in Children Versus Adolescents.  | O |
| 26 | Materials and Biomedical Applications of Implantable Electronic Devices. 2200853  | O |
| 25 | Sex-specific myoelectric manifestations of localized fatigue during a multi-joint repetitive task. <b>2022</b> , 67, 102717   | O |
| 24 | Dynamic gripping force estimation and reconstruction in EMG-based human-machine interaction. <b>2023</b> , 80, 104216   | O |
| 23 | Differences in Neuromuscular Responses During Isometric Muscle Actions Before and After Pubescence.   | O |
| 22 | Inter-muscular networks of synchronous muscle fiber activation. 2,  | O |
| 21 | Consensus for experimental design in electromyography (CEDE) project: Single motor unit matrix. <b>2023</b> , 68, 102726  | O |
| 20 | Intramuscle Synergies: Their Place in the Neural Control Hierarchy. <b>2022</b> , 1-40  | O |
| 19 | INTEGRATING HUMAN FACTORS AND ERGONOMICS PRACTICES INTO DESIGN STUDIO COURSES THROUGH ACTION RESEARCH.  | O |
| 18 | A Hand Gesture Recognition Circuit Utilizing an Analog Voting Classifier. <b>2022</b> , 11, 3915  | 1 |
| 17 | Exercices optimaux de lutte contre la neuro-inhibition musculaire apr® l\$ion de la longue portion du Biceps fmoral: revue de littfature. 2022,                                       | O |
| 16 | Active upper limb prostheses: A review on current state and upcoming breakthroughs.   | O |
| 15 | Responsiveness of electromyographically assessed skeletal muscle inactivity: methodological exploration and implications for health benefits. <b>2022</b> , 12,                       | О |
| _  |   |   |

## CITATION REPORT

| 13 | Relative contribution of neuromuscular activation, muscle size, and muscle quality to maximum strength output of the thigh muscles in young individuals. <b>2023</b> , 11, | 1 |
|----|--|---|
| 12 | Chronic training status affects muscle excitation of the vastus lateralis during repeated contractions. <b>2023</b> ,  | O |
| 11 | Acute Effects of Fatiguing Low-Load Leg Extension Muscle Actions on Maximal Strength and Neuromuscular Function.   | 0 |
| 10 | A real-time and convex model for the estimation of muscle force from surface electromyographic signals in the upper and lower limbs. 14,                                   | O |
| 9  | A Muscle Fiber Conduction Velocity Estimator Using Surface Electromyography Signals Acquired From Vastus Lateralis. <b>2022</b> ,  | 0 |
| 8  | Larger and denser: an optimal design for surface grids of EMG electrodes to identify greater and more representative samples of motor units.                               | O |
| 7  | Effect of electrical stimulation training and detraining on abdominal muscle function. 2023, 1-13  | O |
| 6  | High-density electromyography as a method for estimating laryngeal muscle activity: a preliminary study. <b>2023</b> ,   | O |
| 5  | Elektromyografie. <b>2023</b> , 83-104   | 0 |
| 4  | Interhemispheric Asymmetries in Intracortical Facilitation Correlate With Fatigue Severity in Individuals With Poststroke Fatigue. <b>2023</b> , Publish Ahead of Print,   | O |
| 3  | Exacerbated central fatigue and reduced exercise capacity in early-stage breast cancer patients treated with chemotherapy.   | O |
| 2  | Mental fatigue impairs physical performance but not the neural drive to the muscle: a preliminary analysis.  | O |
| 1  | A Framework and Call to Action for the Future Development of EMG-Based Input in HCI. 2023,   | 0 |