S Jayne Garland

List of Publications by Year in descending order

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94433 144013 3,903 115 37 57 citations h-index g-index papers 115 115 115 3275 docs citations times ranked citing authors all docs

| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Behavior of motor units in human biceps brachii during a submaximal fatiguing contraction. Journal of Applied Physiology, 1994, 76, 2411-2419. | 2.5 | 217 |
| 2 | Role of small diameter afferents in reflex inhibition during human muscle fatigue Journal of Physiology, 1991, 435, 547-558. | 2.9 | 192 |
| 3 | Reflex inhibition of human soleus muscle during fatigue Journal of Physiology, 1990, 429, 17-27. | 2.9 | 175 |
| 4 | Recovery of standing balance and functional mobility after stroke11No commercial party having a direct financial interest in the results of the research supporting this article has or will confer a benefit upon the author(s) or upon any organization with which the author(s) is/are associated Archives of Physical Medicine and Rehabilitation, 2003, 84, 1753-1759. | 0.9 | 124 |
| 5 | Validity of the Community Balance and Mobility Scale in Community-Dwelling Persons After Stroke. Archives of Physical Medicine and Rehabilitation, 2010, 91, 890-896. | 0.9 | 121 |
| 6 | Task-Dependent Factors in Fatigue of Human Voluntary Contractions. Advances in Experimental Medicine and Biology, 1995, 384, 361-380. | 1.6 | 115 |
| 7 | Postural responses to unilateral arm perturbation in young, elderly, and hemiplegic subjects. Archives of Physical Medicine and Rehabilitation, 1997, 78, 1072-1077. | 0.9 | 91 |
| 8 | Cortical and Spinal Modulation of Antagonist Coactivation During a Submaximal Fatiguing Contraction in Humans. Journal of Neurophysiology, 2008, 99, 554-563. | 1.8 | 86 |
| 9 | Standing balance during internally produced perturbations in subjects with hemiplegia: Validation of the balance scale. Archives of Physical Medicine and Rehabilitation, 1996, 77, 656-662. | 0.9 | 85 |
| 10 | Minimal Detectable Change in Quadriceps Strength and Voluntary Muscle Activation in Patients With Knee Osteoarthritis. Archives of Physical Medicine and Rehabilitation, 2010, 91, 1447-1451. | 0.9 | 84 |
| 11 | Reduced voluntary electromyographic activity after fatiguing stimulation of human muscle Journal of Physiology, 1988, 401, 547-556. | 2.9 | 82 |
| 12 | Motor Unit Double Discharges: Statistical Anomaly or Functional Entity?. Applied Physiology, Nutrition, and Metabolism, 1999, 24, 113-130. | 1.7 | 78 |
| 13 | Factors That Influence Muscle Weakness Following Stroke and Their Clinical Implications: A Critical Review. Physiotherapy Canada Physiotherapie Canada, 2012, 64, 415-426. | 0.6 | 76 |
| 14 | Role of Muscle Afferents in the Inhibition of Motoneurons During Fatigue. Advances in Experimental Medicine and Biology, 1995, 384, 271-278. | 1.6 | 72 |
| 15 | Muscle Activation Patterns and Postural Control Following Stroke. Motor Control, 2009, 13, 387-411. | 0.6 | 70 |
| 16 | Low-frequency common modulation of soleus motor unit discharge is enhanced during postural control in humans. Experimental Brain Research, 2006, 175, 584-595. | 1.5 | 65 |
| 17 | Muscle vibration sustains motor unit firing rate during submaximal isometric fatigue in humans. Journal of Physiology, 2001, 535, 929-936. | 2.9 | 64 |
| 18 | Postural muscle activity during bilateral and unilateral arm movements at different speeds. Experimental Brain Research, 2004, 155, 352-361. | 1.5 | 58 |

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| 19 | Modulation of motor unit discharge rate and H-reflex amplitude during submaximal fatigue of the human soleus muscle. Experimental Brain Research, 2004, 158, 345-55. | 1.5 | 58 |
| 20 | Motor unit discharge rate is not associated with muscle relaxation time in sustained submaximal contractions in humans. Neuroscience Letters, 1997, 239, 25-28. | 2.1 | 57 |
| 21 | Pain and physical performance in people with COPD. Respiratory Medicine, 2013, 107, 1692-1699. | 2.9 | 57 |
| 22 | Recovery of Standing Balance and Health-Related Quality of Life After Mild or Moderately Severe Stroke. Archives of Physical Medicine and Rehabilitation, 2007, 88, 218-227. | 0.9 | 56 |
| 23 | Validity and Reliability of the Community Balance and Mobility Scale in Individuals With Knee Osteoarthritis. Physical Therapy, 2014, 94, 866-874. | 2.4 | 53 |
| 24 | Motor-unit behavior in humans during fatiguing arm movements. Journal of Neurophysiology, 1996, 75, 1629-1636. | 1.8 | 51 |
| 25 | Motor unit discharge rate following twitch potentiation in human triceps brachii muscle. Neuroscience Letters, 2001, 316, 153-156. | 2.1 | 51 |
| 26 | Control of the triceps surae during the postural sway of quiet standing. Acta Physiologica, 2007, 191, 229-236. | 3.8 | 49 |
| 27 | Reliability of center of pressure measures within and between sessions in individuals post-stroke and healthy controls. Gait and Posture, 2014, 40, 198-203. | 1.4 | 47 |
| 28 | Electromyography and Kinematics of the Trunk during Rowing in Elite Female Rowers. Medicine and Science in Sports and Exercise, 2009, 41, 628-636. | 0.4 | 46 |
| 29 | Association between muscle architecture and quadriceps femoris H-reflex. Muscle and Nerve, 1994, 17, 581-592. | 2.2 | 45 |
| 30 | Discharge patterns in human motor units during fatiguing arm movements. Journal of Applied Physiology, 1998, 85, 1684-1692. | 2.5 | 45 |
| 31 | Cardiorespiratory and neuromuscular deconditioning in fatigued and non-fatigued breast cancer survivors. Supportive Care in Cancer, 2013, 21, 873-881. | 2.2 | 45 |
| 32 | Raising the Priority of Lifestyle-Related Noncommunicable Diseases in Physical Therapy Curricula. Physical Therapy, 2016, 96, 940-948. | 2.4 | 45 |
| 33 | Synchronization of Motor Units in Human Soleus Muscle During Standing Postural Tasks. Journal of Neurophysiology, 2005, 94, 62-69. | 1.8 | 43 |
| 34 | Mobility Assistive Device Utilization in a Prospective Study of Patients With First-Ever Stroke. Archives of Physical Medicine and Rehabilitation, 2007, 88, 1268-1275. | 0.9 | 42 |
| 35 | Sway-dependent modulation of the triceps surae H-reflex during standing. Journal of Applied Physiology, 2008, 104, 1359-1365. | 2.5 | 42 |
| 36 | Relationship between numbers and frequencies of stimuli in human muscle fatigue. Journal of Applied Physiology, 1988, 65, 89-93. | 2.5 | 41 |

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|----|---|-----|-----------|
| 37 | Control of motor units in human flexor digitorum profundus under different proprioceptive conditions. Journal of Physiology, 1997, 502, 693-701. | 2.9 | 41 |
| 38 | The Muscular Wisdom Hypothesis in Human Muscle Fatigue. Exercise and Sport Sciences Reviews, 2002, 30, 45-49. | 3.0 | 40 |
| 39 | Do Performance Measures of Strength, Balance, and Mobility Predict Quality of Life and Community Reintegration After Stroke?. Archives of Physical Medicine and Rehabilitation, 2018, 99, 713-719. | 0.9 | 40 |
| 40 | Dynamic Balance Training Improves Physical Function in Individuals With Knee Osteoarthritis: A Pilot Randomized Controlled Trial. Archives of Physical Medicine and Rehabilitation, 2017, 98, 1586-1593. | 0.9 | 35 |
| 41 | The time course of the motoneurone afterhyperpolarization is related to motor unit twitch speed in human skeletal muscle. Journal of Physiology, 2003, 552, 657-664. | 2.9 | 34 |
| 42 | Motor unit activity during human single joint movements. Journal of Neurophysiology, 1996, 76, 1982-1990. | 1.8 | 33 |
| 43 | Reflex inhibition during muscle fatigue in endurance-trained and sedentary individuals. European Journal of Applied Physiology, 2002, 87, 462-468. | 2.5 | 32 |
| 44 | The origins of neuromuscular fatigue post-stroke. Experimental Brain Research, 2011, 214, 303-315. | 1.5 | 31 |
| 45 | Motor and Visuospatial Attention and Motor Planning After Stroke: Considerations for the Rehabilitation of Standing Balance and Gait. Physical Therapy, 2015, 95, 1423-1432. | 2.4 | 30 |
| 46 | Motor unit recruitment and discharge behavior in movements and isometric contractions., 1997, 20, 867-874. | | 27 |
| 47 | Morphological, Electrophysiological, and Metabolic Characteristics of Skeletal Muscle in People with End-Stage Renal Disease: A Critical Review. Physiotherapy Canada Physiotherapie Canada, 2011, 63, 355-376. | 0.6 | 27 |
| 48 | Changes in kinematics and trunk electromyography during a 2000â€∫m race simulation in elite female rowers. Scandinavian Journal of Medicine and Science in Sports, 2012, 22, 478-487. | 2.9 | 25 |
| 49 | Modeling health-related quality of life in people recovering from stroke. Quality of Life Research, 2015, 24, 41-53. | 3.1 | 25 |
| 50 | Trunk and lower limb biomechanics during stair climbing in people with and without symptomatic femoroacetabular impingement. Clinical Biomechanics, 2017, 42, 108-114. | 1.2 | 25 |
| 51 | Retraining Postural Responses With Exercises Emphasizing Speed Poststroke. Physical Therapy, 2012, 92, 924-934. | 2.4 | 24 |
| 52 | Test re-test reliability of centre of pressure measures during standing balance in individuals with knee osteoarthritis. Gait and Posture, 2014, 40, 270-273. | 1.4 | 23 |
| 53 | Moments and Muscle Activity after High Tibial Osteotomy and Anterior Cruciate Ligament Reconstruction. Medicine and Science in Sports and Exercise, 2009, 41, 612-619. | 0.4 | 22 |
| 54 | Accelerating Gene Discovery by Phenotyping Whole-Genome Sequenced Multi-mutation Strains and Using the Sequence Kernel Association Test (SKAT). PLoS Genetics, 2016, 12, e1006235. | 3.5 | 22 |

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| 55 | Afterhyperpolarization time-course and minimal discharge rate in low threshold motor units in humans. Experimental Brain Research, 2008, 189, 23-33. | 1.5 | 21 |
| 56 | Factors Associated With Dynamic Balance in People With Knee Osteoarthritis. Archives of Physical Medicine and Rehabilitation, 2015, 96, 1873-1879. | 0.9 | 21 |
| 57 | Role of limb movement in the modulation of motor unit discharge rate during fatiguing contractions. Experimental Brain Research, 2000, 130, 392-400. | 1.5 | 20 |
| 58 | Use of the Challenge Point Framework to Guide Motor Learning of Stepping Reactions for Improved Balance Control in People With Stroke: A Case Series. Physical Therapy, 2014, 94, 562-570. | 2.4 | 20 |
| 59 | Validity of the Handheld Dynamometer Compared with an Isokinetic Dynamometer in Measuring Peak Hip Extension Strength. Physiotherapy Canada Physiotherapie Canada, 2016, 68, 15-22. | 0.6 | 20 |
| 60 | Identification of regional activation by factorization of high-density surface EMG signals: A comparison of Principal Component Analysis and Non-negative Matrix factorization. Journal of Electromyography and Kinesiology, 2018, 41, 116-123. | 1.7 | 20 |
| 61 | Effects of Fast Functional Exercise on Muscle Activity After Stroke. Neurorehabilitation and Neural Repair, 2012, 26, 968-975. | 2.9 | 19 |
| 62 | Motor control of the diaphragm in multiple sclerosis. , 1996, 19, 654-656. | | 18 |
| 63 | Factors Affecting the Common Modulation of Bilateral Motor Unit Discharge in Human Soleus Muscles. Journal of Neurophysiology, 2007, 97, 3917-3925. | 1.8 | 18 |
| 64 | Control of fast squatting movements after stroke. Clinical Neurophysiology, 2012, 123, 344-350. | 1.5 | 18 |
| 65 | Perspective on neuromuscular factors in poststroke fatigue. Disability and Rehabilitation, 2012, 34, 2291-2299. | 1.8 | 16 |
| 66 | Regional activation within the vastus medialis in stimulated and voluntary contractions. Journal of Applied Physiology, 2016, 121, 466-474. | 2.5 | 16 |
| 67 | Between-day reliability of triceps surae responses to standing perturbations in people post-stroke and healthy controls: A high-density surface EMG investigation. Gait and Posture, 2016, 44, 103-109. | 1.4 | 16 |
| 68 | Influence of Age and Gender of Healthy Adults on Scoring Patterns on the Community Balance and Mobility Scale. Physiotherapy Canada Physiotherapie Canada, 2005, 57, 285-292. | 0.6 | 15 |
| 69 | Preoperative Strength Training for Patients Undergoing High Tibial Osteotomy: A Prospective Cohort Study With Historical Controls. Journal of Orthopaedic and Sports Physical Therapy, 2011, 41, 52-59. | 3.5 | 15 |
| 70 | Selectivity of conventional electrodes for recording motor evoked potentials: An investigation with highâ€density surface electromyography. Muscle and Nerve, 2017, 55, 828-834. | 2.2 | 15 |
| 71 | Responses of human single motor units to transcranial magnetic stimulation. Electroencephalography and Clinical Neurophysiology - Electromyography and Motor Control, 1997, 105, 94-101. | 1.4 | 14 |
| 72 | Vastus Lateralis Motor Unit Firing Rate Is Higher in Women With Patellofemoral Pain. Archives of Physical Medicine and Rehabilitation, 2018, 99, 907-913. | 0.9 | 14 |

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| 73 | Location-specific responses to nociceptive input support the purposeful nature of motor adaptation to pain. Pain, 2018, 159, 2192-2200. | 4.2 | 14 |
| 74 | Blood flow in the triceps brachii muscle in humans during sustained submaximal isometric contractions. European Journal of Applied Physiology, 2001, 84, 432-437. | 2.5 | 13 |
| 75 | Reliability of the interval death rate analysis for estimating the time course of the motoneurone afterhyperpolarization in humans. Journal of Neuroscience Methods, 2007, 162, 314-319. | 2.5 | 13 |
| 76 | Changes in the Estimated Time Course of the Motoneuron Afterhyperpolarization Induced by Tendon Vibration. Journal of Neurophysiology, 2010, 104, 3240-3249. | 1.8 | 13 |
| 77 | Reliability and validity of the Performance Recorder 1 for measuring isometric knee flexor and extensor strength. Physiotherapy Theory and Practice, 2013, 29, 639-647. | 1.3 | 13 |
| 78 | Regionalization of the stretch reflex in the human vastus medialis. Journal of Physiology, 2017, 595, 4991-5001. | 2.9 | 13 |
| 79 | Lack of task-related motor unit activity in human triceps brachii muscle during elbow movements. Neuroscience Letters, 1994, 170, 1-4. | 2.1 | 12 |
| 80 | Changes in motor unit discharge rate are not associated with the amount of twitch potentiation in old men. Journal of Applied Physiology, 2002, 93, 1616-1621. | 2.5 | 12 |
| 81 | Challenging Standing Balance Reduces the Asymmetry of Motor Control of Postural Sway Poststroke. Motor Control, 2019, 23, 327-343. | 0.6 | 12 |
| 82 | Factors affecting the stability of the spike-triggered averaged force in the human first dorsal interosseus muscle. Journal of Neuroscience Methods, 2003, 126, 155-164. | 2.5 | 11 |
| 83 | Is the Recovery of Functional Balance and Mobility Accompanied by Physiological Recovery in People With Severe Impairments After Stroke?. Neurorehabilitation and Neural Repair, 2014, 28, 847-855. | 2.9 | 11 |
| 84 | Motor unit recruitment and firing rate in medial gastrocnemius muscles during external perturbations in standing in humans. Journal of Neurophysiology, 2014, 112, 1678-1684. | 1.8 | 10 |
| 85 | Behavior of medial gastrocnemius motor units during postural reactions to external perturbations after stroke. Clinical Neurophysiology, 2015, 126, 1951-1958. | 1.5 | 10 |
| 86 | Use of Rasch Analysis to Evaluate and Refine the Community Balance and Mobility Scale for Use in Ambulatory Community-Dwelling Adults Following Stroke. Physical Therapy, 2016, 96, 1648-1657. | 2.4 | 10 |
| 87 | Recruitment and Deoxygenation of Selected Respiratory and Skeletal Muscles During Incremental Loading in Stable COPD Patients. Journal of Cardiopulmonary Rehabilitation and Prevention, 2016, 36, 279-287. | 2.1 | 10 |
| 88 | Regional modulation of the ankle plantarflexor muscles associated with standing external perturbations across different directions. Experimental Brain Research, 2020, 238, 39-50. | 1.5 | 10 |
| 89 | Patterns of muscle coordination during stepping responses post-stroke. Journal of Electromyography and Kinesiology, 2015, 25, 959-965. | 1.7 | 9 |
| 90 | Motoneurone afterhyperpolarisation time-course following stroke. Clinical Neurophysiology, 2014, 125, 544-551. | 1.5 | 8 |

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| 91 | Effectiveness of Client-Centered "Tune-Ups―on Community Reintegration, Mobility, and Quality of Life After Stroke: A Randomized Controlled Trial. Archives of Physical Medicine and Rehabilitation, 2018, 99, 1325-1332. | 0.9 | 8 |
| 92 | Symmetry of cortical planning for initiating stepping in sub-acute stroke. Clinical Neurophysiology, 2018, 129, 787-796. | 1.5 | 8 |
| 93 | Maintenance of standing posture during multi-directional leaning demands the recruitment of task-specific motor units in the ankle plantarflexors. Experimental Brain Research, 2021, 239, 2569-2581. | 1.5 | 8 |
| 94 | Strengthening in a Therapeutic Golf Program for Individuals Following Stroke. Topics in Geriatric Rehabilitation, 2000, 15, 83-94. | 0.4 | 8 |
| 95 | Prolonged depression of force developed by single motor units after their intermittent activation in adult cats. Brain Research Bulletin, 1993, 30, 127-131. | 3.0 | 7 |
| 96 | Protocol for a randomized controlled clinical trial investigating the effectiveness of Fast muscle Activation and Stepping Training (FAST) for improving balance and mobility in sub-acute stroke. BMC Neurology, 2014, 14, 187. | 1.8 | 7 |
| 97 | A single session of open kinetic chain movements emphasizing speed improves speed of movement and modifies postural control in stroke. Physiotherapy Theory and Practice, 2016, 32, 113-123. | 1.3 | 6 |
| 98 | Differentiation of motor evoked potentials elicited from multiple forearm muscles: An investigation with high-density surface electromyography. Brain Research, 2017, 1676, 91-99. | 2.2 | 6 |
| 99 | Influence of knee joint position and sex on vastus medialis regional architecture. Applied Physiology, Nutrition and Metabolism, 2018, 43, 643-646. | 1.9 | 6 |
| 100 | Regional Vastus Medialis and Vastus Lateralis Activation in Females with Patellofemoral Pain. Medicine and Science in Sports and Exercise, 2019, 51, 411-420. | 0.4 | 6 |
| 101 | Effect of Force Level and Training Status on Contractile Properties Following Fatigue. Applied Physiology, Nutrition, and Metabolism, 2003, 28, 93-101. | 1.7 | 5 |
| 102 | Motor Planning for Loading During Gait in Subacute Stroke. Archives of Physical Medicine and Rehabilitation, 2016, 97, 528-535. | 0.9 | 5 |
| 103 | Non-uniform Effects of Nociceptive Stimulation to Motoneurones during Experimental Muscle Pain. Neuroscience, 2021, 463, 45-56. | 2.3 | 5 |
| 104 | Ischemia sensitivity and motoneuron afterhyperpolarization in human motor units. Muscle and Nerve, 2004, 30, 195-201. | 2.2 | 4 |
| 105 | Physiological arousal accompanying postural responses to external perturbations after stroke. Clinical Neurophysiology, 2017, 128, 935-944. | 1.5 | 4 |
| 106 | Effect of standing posture on inhibitory postsynaptic potentials in gastrocnemius motoneurons. Journal of Neurophysiology, 2018, 120, 263-271. | 1.8 | 4 |
| 107 | Suppression of somatosensory stimuli during motor planning may explain levels of balance and mobility after stroke. European Journal of Neuroscience, 2018, 48, 3534-3551. | 2.6 | 4 |
| 108 | Influence of Vestibular Afferent Input on Common Modulation of Human Soleus Motor Units during Standing. Motor Control, 2012, 16, 466-479. | 0.6 | 3 |

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| 109 | Could motor unit control strategies be partially preserved after stroke?. Frontiers in Human Neuroscience, 2014, 8, 864. | 2.0 | 3 |
| 110 | Cortical processing of irrelevant somatosensory information from the leg is altered by attention during early movement preparation. Brain Research, 2019, 1707, 45-53. | 2.2 | 3 |
| 111 | Neuroplasticity of Cortical Planning for Initiating Stepping Poststroke: A Case Series. Journal of Neurologic Physical Therapy, 2020, 44, 164-172. | 1.4 | 3 |
| 112 | Cardiovascular response to postural perturbations of different intensities in healthy young adults. Physiological Reports, 2022, 10, e15299. | 1.7 | 3 |
| 113 | Relationships Between Stepping-Reaction Movement Patterns and Clinical Measures of Balance, Motor Impairment, and Step Characteristics After Stroke. Physical Therapy, 2021, 101, . | 2.4 | 2 |
| 114 | Postural control in response to unilateral and bilateral external perturbations in older adults. Gait and Posture, 2022, 94, 26-31. | 1.4 | 1 |
| 115 | Does the stimulus provoking a stepping reaction correlate with step characteristics and clinical measures of balance and mobility post-stroke?. Clinical Biomechanics, 2022, 93, 105595. | 1.2 | 0 |