S Jayne Garland

List of Publications by Year
in descending order

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

#	Article	IF	Citations
1	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
2	Postural control in response to unilateral and bilateral external perturbations in older adults. Gait and Posture, 2022, 94, 26-31.	1.4	1
3	Cardiovascular response to postural perturbations of different intensities in healthy young adults. Physiological Reports, 2022, 10, e15299.	1.7	3
4	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
5	Non-uniform Effects of Nociceptive Stimulation to Motoneurones during Experimental Muscle Pain. Neuroscience, 2021, 463, 45-56.	2.3	5
6	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
7	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
8	Neuroplasticity of Cortical Planning for Initiating Stepping Poststroke: A Case Series. Journal of Neurologic Physical Therapy, 2020, 44, 164-172.	1.4	3
9	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
10	Challenging Standing Balance Reduces the Asymmetry of Motor Control of Postural Sway Poststroke. Motor Control, 2019, 23, 327-343.	0.6	12
11	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
12	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
13	Effectiveness of Client-Centered â€œTune-Upsâ€•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
14	Symmetry of cortical planning for initiating stepping in sub-acute stroke. Clinical Neurophysiology, 2018, 129, 787-796.	1.5	8
15	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
16	Influence of knee joint position and sex on vastus medialis regional architecture. Applied Physiology, Nutrition and Metabolism, 2018, 43, 643-646.	1.9	6
17	Location-specific responses to nociceptive input support the purposeful nature of motor adaptation to pain. Pain, 2018, 159, 2192-2200.	4.2	14
18	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

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19	Effect of standing posture on inhibitory postsynaptic potentials in gastrocnemius motoneurons. Journal of Neurophysiology, 2018, 120, 263-271.	1.8	4
20	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
21	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
22	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
23	Regionalization of the stretch reflex in the human vastus medialis. Journal of Physiology, 2017, 595, 4991-5001.	2.9	13
24	Physiological arousal accompanying postural responses to external perturbations after stroke. Clinical Neurophysiology, 2017, 128, 935-944.	1.5	4
25	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
26	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
27	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
28	Regional activation within the vastus medialis in stimulated and voluntary contractions. Journal of Applied Physiology, 2016, 121, 466-474.	2.5	16
29	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
30	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
31	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
32	Motor Planning for Loading During Gait in Subacute Stroke. Archives of Physical Medicine and Rehabilitation, 2016, 97, 528-535.	0.9	5
33	Raising the Priority of Lifestyle-Related Noncommunicable Diseases in Physical Therapy Curricula. Physical Therapy, 2016, 96, 940-948.	2.4	45
34	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
35	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
36	Behavior of medial gastrocnemius motor units during postural reactions to external perturbations after stroke. Clinical Neurophysiology, 2015, 126, 1951-1958.	1.5	10

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37	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
38	Factors Associated With Dynamic Balance in People With Knee Osteoarthritis. Archives of Physical Medicine and Rehabilitation, 2015, 96, 1873-1879.	0.9	21
39	Patterns of muscle coordination during stepping responses post-stroke. Journal of Electromyography and Kinesiology, 2015, 25, 959-965.	1.7	9
40	Modeling health-related quality of life in people recovering from stroke. Quality of Life Research, 2015, 24, 41-53.	3.1	25
41	Could motor unit control strategies be partially preserved after stroke?. Frontiers in Human Neuroscience, 2014, 8, 864.	2.0	3
42	Validity and Reliability of the Community Balance and Mobility Scale in Individuals With Knee Osteoarthritis. Physical Therapy, 2014, 94, 866-874.	2.4	53
43	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
44	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
45	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
46	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
47	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
48	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
49	Motoneurone afterhyperpolarisation time-course following stroke. Clinical Neurophysiology, 2014, 125, 544-551.	1.5	8
50	Pain and physical performance in people with COPD. Respiratory Medicine, 2013, 107, 1692-1699.	2.9	57
51	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
52	Cardiorespiratory and neuromuscular deconditioning in fatigued and non-fatigued breast cancer survivors. Supportive Care in Cancer, 2013, 21, 873-881.	2.2	45
53	Retraining Postural Responses With Exercises Emphasizing Speed Poststroke. Physical Therapy, 2012, 92, 924-934.	2.4	24
54	Effects of Fast Functional Exercise on Muscle Activity After Stroke. Neurorehabilitation and Neural Repair, 2012, 26, 968-975.	2.9	19

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55	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
56	Influence of Vestibular Afferent Input on Common Modulation of Human Soleus Motor Units during Standing. Motor Control, 2012, 16, 466-479.	0.6	3
57	Control of fast squatting movements after stroke. Clinical Neurophysiology, 2012, 123, 344-350.	1.5	18
58	Perspective on neuromuscular factors in poststroke fatigue. Disability and Rehabilitation, 2012, 34, 2291-2299.	1.8	16
59	Changes in kinematics and trunk electromyography during a 2000â€ƒm race simulation in elite female rowers. Scandinavian Journal of Medicine and Science in Sports, 2012, 22, 478-487.	2.9	25
60	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
61	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
62	The origins of neuromuscular fatigue post-stroke. Experimental Brain Research, 2011, 214, 303-315.	1.5	31
63	Changes in the Estimated Time Course of the Motoneuron Afterhyperpolarization Induced by Tendon Vibration. Journal of Neurophysiology, 2010, 104, 3240-3249.	1.8	13
64	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
65	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
66	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
67	Muscle Activation Patterns and Postural Control Following Stroke. Motor Control, 2009, 13, 387-411.	0.6	70
68	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
69	Afterhyperpolarization time-course and minimal discharge rate in low threshold motor units in humans. Experimental Brain Research, 2008, 189, 23-33.	1.5	21
70	Cortical and Spinal Modulation of Antagonist Coactivation During a Submaximal Fatiguing Contraction in Humans. Journal of Neurophysiology, 2008, 99, 554-563.	1.8	86
71	Sway-dependent modulation of the triceps surae H-reflex during standing. Journal of Applied Physiology, 2008, 104, 1359-1365.	2.5	42
72	Factors Affecting the Common Modulation of Bilateral Motor Unit Discharge in Human Soleus Muscles. Journal of Neurophysiology, 2007, 97, 3917-3925.	1.8	18

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73	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
74	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
75	Control of the triceps surae during the postural sway of quiet standing. Acta Physiologica, 2007, 191, 229-236.	3.8	49
76	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
77	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
78	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
79	Synchronization of Motor Units in Human Soleus Muscle During Standing Postural Tasks. Journal of Neurophysiology, 2005, 94, 62-69.	1.8	43
80	Postural muscle activity during bilateral and unilateral arm movements at different speeds. Experimental Brain Research, 2004, 155, 352-361.	1.5	58
81	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
82	Ischemia sensitivity and motoneuron afterhyperpolarization in human motor units. Muscle and Nerve, 2004, 30, 195-201.	2.2	4
83	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
84	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
85	Effect of Force Level and Training Status on Contractile Properties Following Fatigue. Applied Physiology, Nutrition, and Metabolism, 2003, 28, 93-101.	1.7	5
86	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
87	The Muscular Wisdom Hypothesis in Human Muscle Fatigue. Exercise and Sport Sciences Reviews, 2002, 30, 45-49.	3.0	40
88	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
89	Reflex inhibition during muscle fatigue in endurance-trained and sedentary individuals. European Journal of Applied Physiology, 2002, 87, 462-468.	2.5	32
90	Motor unit discharge rate following twitch potentiation in human triceps brachii muscle. Neuroscience Letters, 2001, 316, 153-156.	2.1	51

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91	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
92	Muscle vibration sustains motor unit firing rate during submaximal isometric fatigue in humans. Journal of Physiology, 2001, 535, 929-936.	2.9	64
93	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
94	Strengthening in a Therapeutic Golf Program for Individuals Following Stroke. Topics in Geriatric Rehabilitation, 2000, 15, 83-94.	0.4	8
95	Motor Unit Double Discharges: Statistical Anomaly or Functional Entity?. Applied Physiology, Nutrition, and Metabolism, 1999, 24, 113-130.	1.7	78
96	Discharge patterns in human motor units during fatiguing arm movements. Journal of Applied Physiology, 1998, 85, 1684-1692.	2.5	45
97	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
98	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
99	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
100	Control of motor units in human flexor digitorum profundus under different proprioceptive conditions. Journal of Physiology, 1997, 502, 693-701.	2.9	41
101	Motor unit recruitment and discharge behavior in movements and isometric contractions. , 1997, 20, 867-874.		27
102	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
103	Motor unit activity during human single joint movements. Journal of Neurophysiology, 1996, 76, 1982-1990.	1.8	33
104	Motor-unit behavior in humans during fatiguing arm movements. Journal of Neurophysiology, 1996, 75, 1629-1636.	1.8	51
105	Motor control of the diaphragm in multiple sclerosis. , 1996, 19, 654-656.		18
106	Role of Muscle Afferents in the Inhibition of Motoneurons During Fatigue. Advances in Experimental Medicine and Biology, 1995, 384, 271-278.	1.6	72
107	Task-Dependent Factors in Fatigue of Human Voluntary Contractions. Advances in Experimental Medicine and Biology, 1995, 384, 361-380.	1.6	115
108	Behavior of motor units in human biceps brachii during a submaximal fatiguing contraction. Journal of Applied Physiology, 1994, 76, 2411-2419.	2.5	217

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109	Association between muscle architecture and quadriceps femoris H-reflex. Muscle and Nerve, 1994, 17, 581-592.	2.2	45
110	Lack of task-related motor unit activity in human triceps brachii muscle during elbow movements. Neuroscience Letters, 1994, 170, 1-4.	2.1	12
111	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
112	Role of small diameter afferents in reflex inhibition during human muscle fatigue.. Journal of Physiology, 1991, 435, 547-558.	2.9	192
113	Reflex inhibition of human soleus muscle during fatigue.. Journal of Physiology, 1990, 429, 17-27.	2.9	175
114	Reduced voluntary electromyographic activity after fatiguing stimulation of human muscle.. Journal of Physiology, 1988, 401, 547-556.	2.9	82
115	Relationship between numbers and frequencies of stimuli in human muscle fatigue. Journal of Applied Physiology, 1988, 65, 89-93.	2.5	41