Charles L Rice

List of Publications by Year in descending order

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Version: 2024-02-01

| | | 126708 | 1 | 143772 | |
|----------|----------------|--------------|---|----------------|--|
| 128 | 4,238 | 33 | | 57 | |
| papers | citations | h-index | | g-index | |
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| 128 | 128 | 128 | | 3873 | |
| | 120 | 120 | | 3073 | |
| all docs | docs citations | times ranked | | citing authors | |
| | | | | | |

| # | Article | IF | Citations |
|----|--|-----|-----------|
| 1 | Neuromuscular fatigability at high altitude: Lowlanders with acute and chronic exposure, and native highlanders. Acta Physiologica, 2022, 234, e13788. | 1.8 | 11 |
| 2 | Firing rate trajectories of human motor units during activity-dependent muscle potentiation. Journal of Applied Physiology, 2022, 132, 402-412. | 1.2 | 9 |
| 3 | Response to letter: Preventing age-related motor unit loss: Is exercise the answer?. Experimental Gerontology, 2022, 159, 111696. | 1.2 | O |
| 4 | Local and systemic transcriptomic responses from acute exercise induced muscle damage of the human knee extensors. Physiological Genomics, 2022, 54, 305-315. | 1.0 | 1 |
| 5 | Fiber type composition of contiguous palmaris longus and abductor pollicis brevis muscles: Morphological evidence of a functional synergy. Journal of Anatomy, 2021, 238, 53-62. | 0.9 | 3 |
| 6 | The effect of blood flow on tibialis anterior motor unit firing rates during sustained low-intensity isometric contractions. Applied Physiology, Nutrition and Metabolism, 2021, 46, 63-68. | 0.9 | 2 |
| 7 | State-of-the-art review: spinal and supraspinal responses to muscle potentiation in humans. European Journal of Applied Physiology, 2021, 121, 1271-1282. | 1.2 | 7 |
| 8 | Motor unit firing rates during constant isometric contraction: establishing and comparing an age-related pattern among muscles. Journal of Applied Physiology, 2021, 130, 1903-1914. | 1.2 | 17 |
| 9 | The relationship of agonist muscle single motor unit firing rates and elbow extension limb movement kinematics. Experimental Brain Research, 2021, 239, 2755-2766. | 0.7 | 3 |
| 10 | Postâ€activation potentiation induced by concentric contractions at three speeds in humans. Experimental Physiology, 2021, 106, 2489-2501. | 0.9 | 3 |
| 11 | Anconeus motor unit firing rates during isometric and muscle shortening contraction comparing young and very old adults. Journal of Neurophysiology, 2021, 126, 1122-1136. | 0.9 | 5 |
| 12 | Neuroprotective effects of exercise on the aging human neuromuscular system. Experimental Gerontology, 2021, 152, 111465. | 1.2 | 22 |
| 13 | Firing rate trajectories of human motor units during isometric ramp contractions to 10, 25 and 50% of maximal voluntary contraction. Neuroscience Letters, 2021, 762, 136118. | 1.0 | 2 |
| 14 | Firing rate trajectories of human occipitofrontalis motor units in response to triangular voluntary contraction intensity. Experimental Brain Research, 2021, 239, 3661-3670. | 0.7 | 4 |
| 15 | Effect of ankle joint position on triceps surae contractile properties and motor unit discharge rates. Physiological Reports, 2021, 8, e14680. | 0.7 | 8 |
| 16 | Length-dependent changes of lower limb muscle morphology in Chronic Inflammatory Demyelinating Polyneuropathy assessed with magnetic resonance imaging. European Journal of Translational Myology, 2021, , . | 0.8 | 2 |
| 17 | Nerve dysfunction leads to muscle morphological abnormalities in chronic inflammatory demyelinating polyneuropathy assessed by MRI. Clinical Anatomy, 2020, 33, 77-84. | 1.5 | 7 |
| 18 | Differential Modulation of Motor Unit Properties from the Separate Components of the Triceps Surae in Humans. Neuroscience, 2020, 428, 192-198. | 1.1 | 4 |

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|----|---|-----|-----------|
| 19 | Structure of Population Activity in Primary Motor Cortex for Single Finger Flexion and Extension. Journal of Neuroscience, 2020, 40, 9210-9223. | 1.7 | 13 |
| 20 | Coexistence of peripheral potentiation and corticospinal inhibition following a conditioning contraction in human first dorsal interosseous muscle. Journal of Applied Physiology, 2020, 129, 926-931. | 1.2 | 4 |
| 21 | Obstruction of Small Arterioles in Patients with Critical Limb Ischemia due to Partial Endothelial-to-Mesenchymal Transition. IScience, 2020, 23, 101251. | 1.9 | 16 |
| 22 | Abnormal motor unit firing rates in chronic inflammatory demyelinating polyneuropathy. Journal of the Neurological Sciences, 2020, 414, 116859. | 0.3 | 11 |
| 23 | Effect of knee joint position on triceps surae motor unit recruitment and firing rates. Experimental Brain Research, 2019, 237, 2345-2352. | 0.7 | 13 |
| 24 | Human motor unit characteristics of the superior trapezius muscle with age-related comparisons. Journal of Neurophysiology, 2019, 122, 823-832. | 0.9 | 11 |
| 25 | The effect of blood flow occlusion during acute low-intensity isometric elbow flexion exercise. European Journal of Applied Physiology, 2019, 119, 587-595. | 1.2 | 11 |
| 26 | ATP2A2 rs3026468 does not associate with quadriceps contractile properties and acute muscle potentiation in humans. Physiological Genomics, 2019, 51, 10-11. | 1.0 | 1 |
| 27 | An MRI Investigating of the Lower Limb Musculature in Patients with Chronic Inflammatory Demyelinating Polyneuropathy. FASEB Journal, 2019, 33, lb155. | 0.2 | 0 |
| 28 | Rare muscular variations identified in a single cadaveric upper limb: a four-headed biceps brachii and muscular elevator of the latissimus dorsi tendon. Anatomical Science International, 2018, 93, 311-316. | 0.5 | 2 |
| 29 | Effect of very old age on anconeus motor unit loss and compensatory remodelling. Muscle and Nerve, 2018, 57, 659-663. | 1.0 | 12 |
| 30 | Revisiting the functional anatomy of the palmaris longus as a thenar synergist. Clinical Anatomy, 2018, 31, 760-770. | 1.5 | 5 |
| 31 | Response to "An objective criterion for stimulation intensity may be necessary to properly assess muscle contractile properties― Journal of Neurophysiology, 2018, 120, 3288-3288. | 0.9 | 0 |
| 32 | Isometric versus Dynamic Measurements of Fatigue: Does Age Matter? A Meta-analysis. Medicine and Science in Sports and Exercise, 2018, 50, 2132-2144. | 0.2 | 22 |
| 33 | Neuromuscular changes of the aged human hamstrings. Journal of Neurophysiology, 2018, 120, 480-488. | 0.9 | 26 |
| 34 | Power reserve following ramp-incremental cycling to exhaustion: implications for muscle fatigue and function. Journal of Applied Physiology, 2018, 125, 304-312. | 1.2 | 8 |
| 35 | Neuromuscular adaptations to healthy aging. Applied Physiology, Nutrition and Metabolism, 2018, 43, 1158-1165. | 0.9 | 26 |
| 36 | Reductions in muscle quality and quantity in chronic inflammatory demyelinating polyneuropathy patients assessed by magnetic resonance imaging. Muscle and Nerve, 2018, 58, 396-401. | 1.0 | 11 |

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|----|--|-----|-----------|
| 37 | Contractile function and motor unit firing rates of the human hamstrings. Journal of Neurophysiology, 2017, 117, 243-250. | 0.9 | 25 |
| 38 | Fiber type composition of the palmaris brevis muscle: implications for palmar function. Journal of Anatomy, 2017, 231, 626-633. | 0.9 | 10 |
| 39 | Reply. Muscle and Nerve, 2017, 55, 930-931. | 1.0 | 1 |
| 40 | Electrophysiological and neuromuscular stability of persons with chronic inflammatory demyelinating polyneuropathy. Muscle and Nerve, 2017, 56, 413-420. | 1.0 | 10 |
| 41 | Structural and functional anatomy of the palmaris brevis: grasping for answers. Journal of Anatomy, 2017, 231, 939-946. | 0.9 | 10 |
| 42 | Reply to Drs. Sacco et al Journal of Applied Physiology, 2017, 122, 1525-1525. | 1.2 | 0 |
| 43 | Digital preservation of anatomical variation: 3D-modeling of embalmed and plastinated cadaveric specimens using uCT and MRI. Annals of Anatomy, 2017, 209, 69-75. | 1.0 | 22 |
| 44 | Motor unit number estimation and neuromuscular fidelity in 3 stages of sarcopenia. Muscle and Nerve, 2017, 55, 676-684. | 1.0 | 33 |
| 45 | Neuromuscular contributions to the age-related reduction in muscle power: Mechanisms and potential role of high velocity power training. Ageing Research Reviews, 2017, 35, 147-154. | 5.0 | 81 |
| 46 | Maintaining motor units into old age: running the final common pathway. European Journal of Translational Myology, 2017, 27, 6597. | 0.8 | 26 |
| 47 | Reply to Senefeld and Hunter: Physiology in Medicine: Neuromuscular consequences of diabetic neuropathy. The authors' reply. Journal of Applied Physiology, 2016, 121, 361-361. | 1.2 | 0 |
| 48 | If you don't use it you'll likely lose it. Clinical Physiology and Functional Imaging, 2016, 36, 497-498. | 0.5 | 9 |
| 49 | Reduced skeletal muscle quantity and quality in patients with diabetic polyneuropathy assessed by magnetic resonance imaging. Muscle and Nerve, 2016, 53, 726-732. | 1.0 | 28 |
| 50 | Physiology in Medicine: neuromuscular consequences of diabetic neuropathy. Journal of Applied Physiology, 2016, 121, 1-6. | 1.2 | 43 |
| 51 | Innervation and neuromuscular control in ageing skeletal muscle. Journal of Physiology, 2016, 594, 1965-1978. | 1.3 | 242 |
| 52 | Motor unit number and transmission stability in octogenarian world class athletes: Can age-related deficits be outrun?. Journal of Applied Physiology, 2016, 121, 1013-1020. | 1.2 | 70 |
| 53 | Time-dependent neuromuscular parameters in the plantar flexors support greater fatigability of old compared with younger males. Experimental Gerontology, 2016, 74, 13-20. | 1.2 | 36 |
| 54 | Motor unit firing rates of the gastrocnemii during maximal brief steady-state contractions in humans. Journal of Electromyography and Kinesiology, 2016, 26, 82-87. | 0.7 | 16 |

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|----|---|-----|-----------|
| 55 | Neuromuscular function in different stages of sarcopenia. Experimental Gerontology, 2016, 81, 28-36. | 1.2 | 18 |
| 56 | The slow component of pulmonary O ₂ uptake accompanies peripheral muscle fatigue during high-intensity exercise. Journal of Applied Physiology, 2016, 121, 493-502. | 1.2 | 37 |
| 57 | Rate modulation of human anconeus motor units during high-intensity dynamic elbow extensions. Journal of Applied Physiology, 2016, 121, 475-482. | 1.2 | 6 |
| 58 | Motor unit firing rates of the gastrocnemii during maximal and sub-maximal isometric contractions in young and old men. Neuroscience, 2016, 330, 376-385. | 1.1 | 27 |
| 59 | Human <i>COL5A1</i> polymorphisms and quadriceps muscle–tendon mechanical stiffness <i>in vivo</i> . Experimental Physiology, 2016, 101, 1581-1592. | 0.9 | 10 |
| 60 | Neural Contributions to Muscle Fatigue. Medicine and Science in Sports and Exercise, 2016, 48, 2294-2306. | 0.2 | 330 |
| 61 | Decreased muscle endurance associated with diabetic neuropathy may be attributed partially to neuromuscular transmission failure. Journal of Applied Physiology, 2015, 118, 1014-1022. | 1.2 | 35 |
| 62 | Velocity dependence of eccentric strength in young and old men: the need for speed!. Applied Physiology, Nutrition and Metabolism, 2015, 40, 703-710. | 0.9 | 12 |
| 63 | Increased motor unit potential shape variability across consecutive motor unit discharges in the tibialis anterior and vastus medialis muscles of healthy older subjects. Clinical Neurophysiology, 2015, 126, 2381-2389. | 0.7 | 61 |
| 64 | Increased neuromuscular transmission instability and motor unit remodelling with diabetic neuropathy as assessed using novel near fibre motor unit potential parameters. Clinical Neurophysiology, 2015, 126, 794-802. | 0.7 | 43 |
| 65 | Blood flow and muscle oxygenation during low, moderate, and maximal sustained isometric contractions. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2015, 309, R475-R481. | 0.9 | 50 |
| 66 | Changes in Anconeus Motor Unit Firing Rates During High-Intensity Dynamic Elbow Extensor Fatiguing Contractions. Medicine and Science in Sports and Exercise, 2015, 47, 322. | 0.2 | 1 |
| 67 | Leg Bone Geometry in Human Diabetic Neuropathy. FASEB Journal, 2015, 29, 545.5. | 0.2 | 0 |
| 68 | Exercise training enhances insulin-stimulated nerve arterial vasodilation in rats with insulin-treated experimental diabetes. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2014, 306, R941-R950. | 0.9 | 21 |
| 69 | Voluntary rate of torque development is impaired after a voluntary versus tetanic conditioning contraction. Muscle and Nerve, 2014, 49, 218-224. | 1.0 | 5 |
| 70 | <i>In vivo</i> measurement of fascicle length and pennation of the human anconeus muscle at several elbow joint angles. Journal of Anatomy, 2014, 225, 502-509. | 0.9 | 13 |
| 71 | Anconeus motor unit number estimates using decompositionâ€based quantitative electromyography. Muscle and Nerve, 2014, 50, 52-59. | 1.0 | 8 |
| 72 | The relationship between blood pressure and sciatic nerve blood flow velocity in rats with insulin-treated experimental diabetes. Diabetes and Vascular Disease Research, 2014, 11, 281-289. | 0.9 | 2 |

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| 73 | Skeletal muscle morphology and contractile function in relation to muscle denervation in diabetic neuropathy. Journal of Applied Physiology, 2014, 116, 545-552. | 1.2 | 50 |
| 74 | The effect of knee joint angle on plantar flexor power in young and old men. Experimental Gerontology, 2014, 52, 70-76. | 1.2 | 26 |
| 75 | Length dependent loss of motor axons and altered motor unit properties in human diabetic polyneuropathy. Clinical Neurophysiology, 2014, 125, 836-843. | 0.7 | 46 |
| 76 | The altered vestibular-evoked myogenic and whole-body postural responses in old men during standing. Experimental Gerontology, 2014, 60, 120-128. | 1.2 | 33 |
| 77 | Decay of force transients following active stretch is slower in older than young men: Support for a structural mechanism contributing to residual force enhancement in old age. Journal of Biomechanics, 2014, 47, 3423-3427. | 0.9 | 14 |
| 78 | A threeâ€dimensional measurement approach for the morphology of the femoral head. Journal of Anatomy, 2014, 225, 358-366. | 0.9 | 3 |
| 79 | Shortening-induced torque depression in old men: Implications for age-related power loss. Experimental Gerontology, 2014, 57, 75-80. | 1.2 | 32 |
| 80 | The genu effect on plantar flexor power. European Journal of Applied Physiology, 2013, 113, 1431-1439. | 1.2 | 18 |
| 81 | Human neuromuscular structure and function in old age: A brief review. Journal of Sport and Health Science, 2013, 2, 215-226. | 3.3 | 117 |
| 82 | Comparison of 3D reconstructive technologies used for morphometric research and the translation of knowledge using a decision matrix. Anatomical Sciences Education, 2013, 6, 393-403. | 2.5 | 28 |
| 83 | Motor unit loss and weakness in association with diabetic neuropathy in humans. Muscle and Nerve, 2013, 48, 298-300. | 1.0 | 60 |
| 84 | Neural and Muscular Determinants of Dorsiflexor Weakness in Chronic Stroke Survivors. Motor Control, 2013, 17, 283-297. | 0.3 | 21 |
| 85 | Comments on Point:Counterpoint: Skeletal muscle mechanical efficiency does/does not increase with age. Journal of Applied Physiology, 2013, 114, 1114-1118. | 1.2 | 3 |
| 86 | Motor Unit Survival in Lifelong Runners Is Muscle Dependent. Medicine and Science in Sports and Exercise, 2012, 44, 1235-1242. | 0.2 | 99 |
| 87 | Factors That Influence Muscle Weakness Following Stroke and Their Clinical Implications: A Critical Review. Physiotherapy Canada Physiotherapie Canada, 2012, 64, 415-426. | 0.3 | 76 |
| 88 | Residual force enhancement following eccentric induced muscle damage. Journal of Biomechanics, 2012, 45, 1835-1841. | 0.9 | 28 |
| 89 | Perspective on neuromuscular factors in poststroke fatigue. Disability and Rehabilitation, 2012, 34, 2291-2299. | 0.9 | 16 |
| 90 | The age-related slowing of voluntary shortening velocity exacerbates power loss during repeated fast knee extensions. Experimental Gerontology, 2012, 47, 85-92. | 1.2 | 64 |

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| 91 | Increased Residual Force Enhancement in Older Adults Is Associated with a Maintenance of Eccentric Strength. PLoS ONE, 2012, 7, e48044. | 1.1 | 44 |
| 92 | Validity and Reliability of a Novel 3D Measurement Approach of the Acetabulum. FASEB Journal, 2012, 26, 722.16. | 0.2 | 0 |
| 93 | Differences in leg bone geometry in young, old and very old women. European Journal of Applied Physiology, 2011, 111, 2865-2871. | 1.2 | 6 |
| 94 | Potentiation of the triceps brachii during voluntary submaximal contractions. Muscle and Nerve, 2011, 43, 859-865. | 1.0 | 15 |
| 95 | Motor Unit Number Estimates in Masters Runners. Medicine and Science in Sports and Exercise, 2010, 42, 1644-1650. | 0.2 | 129 |
| 96 | Fatigue-Induced Reductions of Torque and Shortening Velocity Are Muscle Dependent. Medicine and Science in Sports and Exercise, 2010, 42, 1651-1659. | 0.2 | 22 |
| 97 | Delayed recovery of velocity-dependent power loss following eccentric actions of the ankle dorsiflexors. Journal of Applied Physiology, 2010, 109, 669-676. | 1.2 | 35 |
| 98 | Effect Of Elbow Joint Angle On Anconeus Fascicle Length And Motor Unit Firing Rates. Medicine and Science in Sports and Exercise, 2010, 42, 584-585. | 0.2 | 5 |
| 99 | The influence of muscle length on the fatigue-related reduction in joint range of motion of the human dorsiflexors. European Journal of Applied Physiology, 2010, 109, 405-415. | 1.2 | 7 |
| 100 | Effect of shoulder angle on the activation pattern of the elbow extensors during a submaximal isometric fatiguing contraction. Muscle and Nerve, 2010, 42, 514-521. | 1.0 | 18 |
| 101 | Recovery of Motoneuron Output Is Delayed in Old Men Following High-Intensity Fatigue. Journal of Neurophysiology, 2010, 103, 977-985. | 0.9 | 24 |
| 102 | Power loss is greater in old men than young men during fast plantar flexion contractions. Journal of Applied Physiology, 2010, 109, 1441-1447. | 1.2 | 64 |
| 103 | Velocity-dependent Power Loss In The Knee Extensors Of Young And Old Men. Medicine and Science in Sports and Exercise, 2010, 42, 340. | 0.2 | 0 |
| 104 | Geometry of a Weight-Bearing and Non-Weight-Bearing Bone in the Legs of Young, Old, and Very Old Men. Calcified Tissue International, 2009, 85, 22-30. | 1.5 | 34 |
| 105 | Triceps surae contractile properties and firing rates in the soleus of young and old men. Journal of Applied Physiology, 2009, 107, 1781-1788. | 1.2 | 63 |
| 106 | Voluntary Activation At Short And Long Muscle Lengths In The Human Elbow Extensors. Medicine and Science in Sports and Exercise, 2009, 41, 197-198. | 0.2 | 0 |
| 107 | Estimating Contraction Level Using Root Mean Square Amplitude in Control Subjects and Patients With Neuromuscular Disorders. Archives of Physical Medicine and Rehabilitation, 2008, 89, 711-718. | 0.5 | 30 |
| 108 | Effect of Decreases in Joint Excursion on the Torque-Length Relationship and Velocity after Shortening Contractions Medicine and Science in Sports and Exercise, 2008, 40, S348. | 0.2 | 0 |

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| 109 | Peripheral impairments cause a progressive age-related loss of strength and velocity-dependent power in the dorsiflexors. Journal of Applied Physiology, 2007, 102, 1962-1968. | 1.2 | 97 |
| 110 | The Effect of Age on Tibia and Fibula Cross-sectional Areas in Young, Old, and Very Old Men. Medicine and Science in Sports and Exercise, 2007, 39, S41-S42. | 0.2 | 0 |
| 111 | Mechanomyographic and Electromyographic Responses to Intermittent Voluntary Fatigue in Human Dorsiflexors. Medicine and Science in Sports and Exercise, 2006, 38, S178-S179. | 0.2 | 0 |
| 112 | Characteristics of a MR-compatible ankle exercise ergometer for a 3.0T head-only MR scanner. Medical Engineering and Physics, 2006, 28, 489-494. | 0.8 | 14 |
| 113 | The effect of postactivation potentiation on the mechanomyogram. European Journal of Applied Physiology, 2006, 96, 17-23. | 1.2 | 22 |
| 114 | Differential changes in muscle oxygenation between voluntary and stimulated isometric fatigue of human dorsiflexors. Journal of Applied Physiology, 2006, 100, 890-895. | 1.2 | 54 |
| 115 | Fatigue and recovery of power and isometric torque following isotonic knee extensions. Journal of Applied Physiology, 2005, 99, 1446-1452. | 1.2 | 70 |
| 116 | The effect of contraction intensity on motor unit number estimates of the tibialis anterior. Clinical Neurophysiology, 2005, 116, 1342-1347. | 0.7 | 33 |
| 117 | Torque loss induced by repetitive maximal eccentric contractions is marginally influenced by work-to-rest ratio. European Journal of Applied Physiology, 2004, 91, 579-585. | 1.2 | 11 |
| 118 | Reliability of Isokinetic and Isometric Knee-Extensor Force in Older Women. Journal of Aging and Physical Activity, 2004, 12, 525-537. | 0.5 | 40 |
| 119 | An age-related shift in the force-frequency relationship affects quadriceps fatigability in old adults. Journal of Applied Physiology, 2004, 96, 1026-1032. | 1.2 | 58 |
| 120 | Perceived exertion is elevated in old age during an isometric fatigue task. European Journal of Applied Physiology, 2003, 89, 191-197. | 1.2 | 39 |
| 121 | Allometric scaling of strength in an independently living population age 55-86 years. American Journal of Human Biology, 2003, 15, 48-60. | 0.8 | 14 |
| 122 | Voluntary muscle activation varies with age and muscle group. Journal of Applied Physiology, 2002, 93, 457-462. | 1.2 | 114 |
| 123 | Neuromuscular fatigue and aging: Central and peripheral factors. Muscle and Nerve, 2002, 25, 785-796. | 1.0 | 155 |
| 124 | Incomplete recovery of voluntary isometric force after fatigue is not affected by old age. Muscle and Nerve, 2001, 24, 1156-1167. | 1.0 | 76 |
| 125 | Muscle Function at the Motor Unit Level: Consequences of Aging. Topics in Geriatric Rehabilitation, 2000, 15, 70-82. | 0.2 | 19 |
| 126 | Motor unit firing rates and contractile properties in tibialis anterior of young and old men. Journal of Applied Physiology, 1999, 87, 843-852. | 1.2 | 262 |

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|-----|---|-----|-----------|
| 127 | Age-related changes in motor unit function. , 1997, 20, 679-690. | | 280 |
| 128 | Ageâ€related changes in motor unit function. Muscle and Nerve, 1997, 20, 679-690. | 1.0 | 7 |