

Brian C Clark

List of Publications by Year in descending order

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98
papers

6,579
citations

87888

38
h-index

66911

78
g-index

100
all docs

100
docs citations

100
times ranked

7064
citing authors

#	ARTICLE	IF	CITATIONS
1	Sarcopenia != Dynapenia. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2008, 63, 829-834.	3.6	660
2	Dynapenia and Aging: An Update. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2012, 67A, 28-40.	3.6	623
3	Skeletal muscle performance and ageing. Journal of Cachexia, Sarcopenia and Muscle, 2018, 9, 3-19.	7.3	491
4	Sarcopenia Definition: The Position Statements of the Sarcopenia Definition and Outcomes Consortium. Journal of the American Geriatrics Society, 2020, 68, 1410-1418.	2.6	347
5	What is dynapenia?. Nutrition, 2012, 28, 495-503.	2.4	302
6	Functional consequences of sarcopenia and dynapenia in the elderly. Current Opinion in Clinical Nutrition and Metabolic Care, 2010, 13, 271-276.	2.5	275
7	Reduced physical activity increases intermuscular adipose tissue in healthy young adults. American Journal of Clinical Nutrition, 2007, 85, 377-384.	4.7	253
8	Blood Flow Restricted Exercise and Skeletal Muscle Health. Exercise and Sport Sciences Reviews, 2009, 37, 78-85.	3.0	200
9	Gender differences in skeletal muscle fatigability are related to contraction type and EMG spectral compression. Journal of Applied Physiology, 2003, 94, 2263-2272.	2.5	174
10	Sex differences in muscle fatigability and activation patterns of the human quadriceps femoris. European Journal of Applied Physiology, 2005, 94, 196-206.	2.5	174
11	Older adults exhibit more intracortical inhibition and less intracortical facilitation than young adults. Experimental Gerontology, 2010, 45, 671-678.	2.8	157
12	Age-Related Changes in Motor Cortical Properties and Voluntary Activation of Skeletal Muscle. Current Aging Science, 2011, 4, 192-199.	1.2	150
13	Aging and muscle. Current Opinion in Clinical Nutrition and Metabolic Care, 2013, 16, 21-26.	2.5	129
14	Effects of Exercise Load and Blood-Flow Restriction on Skeletal Muscle Function. Medicine and Science in Sports and Exercise, 2007, 39, 1708-1713.	0.4	118
15	Resistance Exercise to Prevent and Manage Sarcopenia and Dynapenia. Annual Review of Gerontology and Geriatrics, 2016, 36, 205-228.	0.5	117
16	Evolving concepts on the age-related changes in "muscle quality". Journal of Cachexia, Sarcopenia and Muscle, 2012, 3, 95-109.	7.3	114
17	Adaptations in human neuromuscular function following prolonged unweighting: II. Neurological properties and motor imagery efficacy. Journal of Applied Physiology, 2006, 101, 264-272.	2.5	110
18	In Vivo Alterations in Skeletal Muscle Form and Function after Disuse Atrophy. Medicine and Science in Sports and Exercise, 2009, 41, 1869-1875.	0.4	103

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19	Adaptations in human neuromuscular function following prolonged unweighting: I. Skeletal muscle contractile properties and applied ischemia efficacy. <i>Journal of Applied Physiology</i> , 2006, 101, 256-263.	2.5	101
20	Preliminary Evidence That Anodal Transcranial Direct Current Stimulation Enhances Time to Task Failure of a Sustained Submaximal Contraction. <i>PLoS ONE</i> , 2013, 8, e81418.	2.5	101
21	The power of the mind: the cortex as a critical determinant of muscle strength/weakness. <i>Journal of Neurophysiology</i> , 2014, 112, 3219-3226.	1.8	85
22	Growth hormone and muscle function responses to skeletal muscle ischemia. <i>Journal of Applied Physiology</i> , 2006, 101, 1588-1595.	2.5	82
23	Reliability of techniques to assess human neuromuscular function in vivo. <i>Journal of Electromyography and Kinesiology</i> , 2007, 17, 90-101.	1.7	81
24	Delayed-onset muscle soreness induced by low-load blood flow-restricted exercise. <i>European Journal of Applied Physiology</i> , 2009, 107, 687-695.	2.5	79
25	Quantification of the corticospinal silent period evoked via transcranial magnetic stimulation. <i>Journal of Neuroscience Methods</i> , 2008, 173, 121-128.	2.5	74
26	Muscle strength and size are associated with motor unit connectivity in aged mice. <i>Neurobiology of Aging</i> , 2018, 67, 128-136.	3.1	74
27	Handgrip Strength Is Associated with Poorer Cognitive Functioning in Aging Americans. <i>Journal of Alzheimer's Disease</i> , 2019, 70, 1187-1196.	2.6	68
28	The Longitudinal Associations of Handgrip Strength and Cognitive Function in Aging Americans. <i>Journal of the American Medical Directors Association</i> , 2020, 21, 634-639.e1.	2.5	63
29	Neuromuscular plasticity during and following 3 wk of human forearm cast immobilization. <i>Journal of Applied Physiology</i> , 2008, 105, 868-878.	2.5	61
30	Interrelationship between muscle strength, motor units, and aging. <i>Experimental Gerontology</i> , 2013, 48, 920-925.	2.8	55
31	Effect of prolonged unweighting of human skeletal muscle on neuromotor force control. <i>European Journal of Applied Physiology</i> , 2007, 100, 53-62.	2.5	53
32	Social, societal, and economic burden of mal de débarquement syndrome. <i>Journal of Neurology</i> , 2012, 259, 1326-1330.	3.6	53
33	Neurophysiologic effects of spinal manipulation in patients with chronic low back pain. <i>BMC Musculoskeletal Disorders</i> , 2011, 12, 170.	1.9	49
34	Changes in DXA-derived lean mass and MRI-derived cross-sectional area of the thigh are modestly associated. <i>Scientific Reports</i> , 2019, 9, 10028.	3.3	48
35	Cast immobilization increases long-interval intracortical inhibition. <i>Muscle and Nerve</i> , 2010, 42, 363-372.	2.2	44
36	NEUROMUSCULAR CHANGES WITH AGING AND SARCOPENIA. <i>Journal of Frailty & Aging</i> , 2019, 8, 1-3.	1.3	44

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37	The Use of Magnetic Resonance Imaging to Evaluate Lumbar Muscle Activity During Trunk Extension Exercise at Varying Intensities. <i>Spine</i> , 2005, 30, 2556-2563.	2.0	43
38	Weaker Seniors Exhibit Motor Cortex Hypoexcitability and Impairments in Voluntary Activation. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2015, 70, 1112-1119.	3.6	42
39	Kinesthetic motor imagery and spinal excitability: The effect of contraction intensity and spatial localization. <i>Clinical Neurophysiology</i> , 2008, 119, 1849-1856.	1.5	37
40	A Narrative Review of Handgrip Strength and Cognitive Functioning: Bringing a New Characteristic to Muscle Memory. <i>Journal of Alzheimer's Disease</i> , 2020, 73, 1265-1278.	2.6	37
41	Preliminary Evidence That Excitatory Transcranial Direct Current Stimulation Extends Time to Task Failure of a Sustained, Submaximal Muscular Contraction in Older Adults. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2016, 71, 1109-1112.	3.6	32
42	Effects of persistent Mal de débarquement syndrome on balance, psychological traits, and motor cortex excitability. <i>Journal of Clinical Neuroscience</i> , 2013, 20, 446-450.	1.5	31
43	Evaluation of Spastic Muscle in Stroke Survivors Using Magnetic Resonance Imaging and Resistance to Passive Motion. <i>Archives of Physical Medicine and Rehabilitation</i> , 2006, 87, 1636-1642.	0.9	27
44	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. <i>Osteopathic Medicine and Primary Care</i> , 2009, 3, 7.	0.5	27
45	Can KAATSU Exercise Cause Rhabdomyolysis?. <i>Clinical Journal of Sport Medicine</i> , 2017, 27, e1-e2.	1.8	27
46	Restoration of Voluntary Muscle Strength After 3 Weeks of Cast Immobilization is Suppressed in Women Compared With Men. <i>Archives of Physical Medicine and Rehabilitation</i> , 2009, 90, 178-180.	0.9	25
47	Cortical and Spinal Mechanisms of Task Failure of Sustained Submaximal Fatiguing Contractions. <i>PLoS ONE</i> , 2014, 9, e93284.	2.5	25
48	Profiling age-related muscle weakness and wasting: neuromuscular junction transmission as a driver of age-related physical decline. <i>GeroScience</i> , 2021, 43, 1265-1281.	4.6	24
49	Resistance and functional training reduces knee extensor position fluctuations in functionally limited older adults. <i>European Journal of Applied Physiology</i> , 2005, 95, 436-446.	2.5	23
50	Effect of Spinal Manipulative and Mobilization Therapies in Young Adults With Mild to Moderate Chronic Low Back Pain. <i>JAMA Network Open</i> , 2020, 3, e2012589.	5.9	21
51	Sarcopenia and Neuroscience: Learning to Communicate. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2021, 76, 1882-1890.	3.6	20
52	Paternal high-fat diet enhances offspring whole-body insulin sensitivity and skeletal muscle insulin signaling early in life. <i>Physiological Reports</i> , 2018, 6, e13583.	1.7	19
53	Weakness May Have a Causal Association With Early Mortality in Older Americans: A Matched Cohort Analysis. <i>Journal of the American Medical Directors Association</i> , 2020, 21, 621-626.e2.	2.5	19
54	Research in the Osteopathic Medical Profession: Roadmap to Recovery. <i>Journal of Osteopathic Medicine</i> , 2014, 114, 608-614.	0.8	18

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55	Comment on: "Pitfalls in the measurement of muscle mass: a need for a reference standard" by Buckinx et al.. Journal of Cachexia, Sarcopenia and Muscle, 2018, 9, 1269-1271.	7.3	18
56	Men and women exhibit a similar time to task failure for a sustained, submaximal elbow extensor contraction. European Journal of Applied Physiology, 2010, 108, 1089-1098.	2.5	17
57	Rupture, reconstruction, and rehabilitation: A multi-disciplinary review of mechanisms for central nervous system adaptations following anterior cruciate ligament injury. Knee, 2021, 30, 78-89.	1.6	17
58	Assessing Additional Characteristics of Muscle Function With Digital Handgrip Dynamometry and Accelerometry: Framework for a Novel Handgrip Strength Protocol. Journal of the American Medical Directors Association, 2021, 22, 2313-2318.	2.5	17
59	Reliability of a modified motor unit number index (MUNIX) technique. Journal of Electromyography and Kinesiology, 2014, 24, 18-24.	1.7	16
60	Reduced Neural Excitability and Activation Contribute to Clinically Meaningful Weakness in Older Adults. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2021, 76, 692-702.	3.6	16
61	Relative contribution of muscle strength, lean mass, and lower extremity motor function in explaining between-person variance in mobility in older adults. BMC Geriatrics, 2020, 20, 255.	2.7	15
62	The biology of manual therapies. Journal of the American Osteopathic Association, The, 2012, 112, 617-29.	1.7	15
63	Voluntary vs Electrically Stimulated Activation in Age-Related Muscle Weakness. JAMA Network Open, 2019, 2, e1912052.	5.9	14
64	The effects of testosterone and insulin-like growth factor 1 on motor system form and function. Experimental Gerontology, 2015, 64, 81-86.	2.8	12
65	Impairments in Individual Autonomous Living Tasks and Time to Self-Care Disability in Middle-Aged and Older Adults. Journal of the American Medical Directors Association, 2019, 20, 730-735.e3.	2.5	12
66	Effect of Anodal Transcranial Direct Current Stimulation of the Motor Cortex on Elbow Flexor Muscle Strength in the Very Old. Journal of Geriatric Physical Therapy, 2019, 42, 243-248.	1.1	12
67	Exploring the pathophysiology of Mal de Debarquement. Journal of Neurology, 2011, 258, 1166-1168.	3.6	11
68	A randomized control trial to determine the effectiveness and physiological effects of spinal manipulation and spinal mobilization compared to each other and a sham condition in patients with chronic low back pain: Study protocol for The RELIEF Study. Contemporary Clinical Trials, 2018, 70, 41-52.	1.8	11
69	Immobilization-induced increase in fatigue resistance is not explained by changes in the muscle metaboreflex. Muscle and Nerve, 2008, 38, 1466-1473.	2.2	10
70	Novel methods for quantifying neurophysiologic properties of the human lumbar paraspinal muscles. Journal of Neuroscience Methods, 2011, 194, 329-335.	2.5	10
71	A Randomized Clinical Trial Comparing Three Different Exercise Strategies for Optimizing Aerobic Capacity and Skeletal Muscle Performance in Older Adults: Protocol for the DART Study. Frontiers in Medicine, 2019, 6, 236.	2.6	10
72	Potential Utility of Electrical Impedance Myography in Evaluating Age-Related Skeletal Muscle Function Deficits. Frontiers in Physiology, 2021, 12, 666964.	2.8	10

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73	A preliminary study of symptomatic fatigue in rural older adults. <i>Aging Clinical and Experimental Research</i> , 2012, 24, 324-30.	2.9	10
74	Development of a Neuromuscular Electrical Stimulation Protocol for Sprint Training. <i>Medicine and Science in Sports and Exercise</i> , 2012, 44, 1810-1819.	0.4	9
75	Heterogeneity of the strength response to progressive resistance exercise training in older adults: Contributions of muscle contractility. <i>Experimental Gerontology</i> , 2021, 152, 111437.	2.8	9
76	Utilizing Transcranial Magnetic Stimulation to Study the Human Neuromuscular System. <i>Journal of Visualized Experiments</i> , 2012, , .	0.3	8
77	Effectiveness of blood flow restricted exercise compared with standard exercise in patients with recurrent low back pain: study protocol for a randomized controlled trial. <i>Trials</i> , 2016, 17, 81.	1.6	8
78	Is impaired dopaminergic function associated with mobility capacity in older adults?. <i>GeroScience</i> , 2021, 43, 1383-1404.	4.6	8
79	Commentaries on Viewpoint: Muscle atrophy is not always sarcopenia. <i>Journal of Applied Physiology</i> , 2012, 113, 680-684.	2.5	7
80	Blood Flowâ€restricted Exercise Does Not Induce a Cross-Transfer of Effect: A Randomized Controlled Trial. <i>Medicine and Science in Sports and Exercise</i> , 2019, 51, 1817-1827.	0.4	7
81	Comparison of a Multi-Component Physical Function Battery to Usual Walking Speed for Assessing Lower Extremity Function and Mobility Limitation in Older Adults. <i>Journal of Nutrition, Health and Aging</i> , 2020, 24, 906-913.	3.3	7
82	Accelerometry as a measure of subject compliance in unilateral lower limb suspension. <i>Aviation, Space, and Environmental Medicine</i> , 2006, 77, 953-6.	0.5	7
83	Non-thrust manual therapy reduces erector spinae short-latency stretch reflex asymmetries in patients with chronic low back pain. <i>Journal of Electromyography and Kinesiology</i> , 2012, 22, 663-669.	1.7	6
84	Voluntary wheel running with and without follistatin overexpression improves NMJ transmission but not motor unit loss in late life of C57BL/6J mice. <i>Neurobiology of Aging</i> , 2021, 101, 285-296.	3.1	5
85	Assessment of In Vivo Lumbar Inter-Vertebral Motion: Reliability of a Novel Dynamic Weight-Bearing Magnetic Resonance Imaging Technique Using a Side-Bending Task. <i>Asian Spine Journal</i> , 2019, 13, 377-385.	2.0	5
86	Editorial: â€From brain to body: the impact of nervous system declines on muscle performance in agingâ€ Frontiers in Aging Neuroscience, 2015, 7, 66.	3.4	4
87	Brain-Predicted Age Difference Moderates the Association Between Muscle Strength and Mobility. <i>Frontiers in Aging Neuroscience</i> , 2022, 14, 808022.	3.4	4
88	Response to â€Clinical Evaluation of Bone Strength and Fracture Riskâ€ Current Osteoporosis Reports, 2017, 15, 396-397.	3.6	3
89	Understanding Neuromuscular System Plasticity to Improve Motor Function in Health, Disease, and Injury. <i>Neural Plasticity</i> , 2017, 2017, 1-2.	2.2	3
90	Neural Correlates of Self-Reported Knee Function in Individuals After Anterior Cruciate Ligament Reconstruction. <i>Sports Health</i> , 2022, , 194173812210793.	2.7	3

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91	Discrepancies in hand motor performance and executive function in older adults. <i>Aging Clinical and Experimental Research</i> , 0, , .	2.9	3
92	Passive-heat stress does not induce muscle fatigue, central activation failure or changes in intracortical properties of wrist flexors. <i>Ergonomics</i> , 2011, 54, 565-575.	2.1	2
93	Quantification of intervertebral displacement with a novel MRI-based modeling technique: Assessing measurement bias and reliability with a porcine spine model. <i>Magnetic Resonance Imaging</i> , 2017, 38, 77-86.	1.8	2
94	An uncommon cause of headache and dizziness after cruise travel: case report of Mal De Debarquement syndrome. <i>Journal of Osteopathic Medicine</i> , 2021, 121, 471-474.	0.8	2
95	Development of a trunk motor paradigm for use in neuroimaging. <i>Translational Neuroscience</i> , 2020, 11, 193-200.	1.4	2
96	Multiple measures of muscle function influence Sorensen Test performance in individuals with recurrent low back pain. <i>Journal of Back and Musculoskeletal Rehabilitation</i> , 2021, 34, 139-147.	1.1	1
97	Transcranial Direct Current Stimulation of the Dorsolateral Prefrontal Cortex Alters Emotional Modulation of Spinal Nociception. <i>Journal of Pain</i> , 2021, 22, 509-519.	1.4	0
98	Quantification of the cortical silent period evoked via transcranial magnetic brain stimulation. <i>FASEB Journal</i> , 2008, 22, 946.5.	0.5	0