

Neil Cronin

List of Publications by Year in descending order

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Version: 2024-02-01

76
papers

2,720
citations

147566

31
h-index

205818

48
g-index

78
all docs

78
docs citations

78
times ranked

2664
citing authors

#	ARTICLE	IF	CITATIONS
1	Age-related differences in Achilles tendon properties and triceps surae muscle architecture in vivo. <i>Journal of Applied Physiology</i> , 2012, 113, 1537-1544.	1.2	218
2	Automatic tracking of medial gastrocnemius fascicle length during human locomotion. <i>Journal of Applied Physiology</i> , 2011, 111, 1491-1496.	1.2	186
3	Ultrasound-based testing of tendon mechanical properties: a critical evaluation. <i>Journal of Applied Physiology</i> , 2015, 118, 133-141.	1.2	105
4	The use of ultrasound to study muscle-tendon function in human posture and locomotion. <i>Gait and Posture</i> , 2013, 37, 305-312.	0.6	93
5	The effects of high heeled shoes on female gait: A review. <i>Journal of Electromyography and Kinesiology</i> , 2014, 24, 258-263.	0.7	93
6	Reactive stepping behaviour in response to forward loss of balance predicts future falls in community-dwelling older adults. <i>Age and Ageing</i> , 2015, 44, 109-115.	0.7	89
7	Long-term use of high-heeled shoes alters the neuromechanics of human walking. <i>Journal of Applied Physiology</i> , 2012, 112, 1054-1058.	1.2	85
8	Differences in contractile behaviour between the soleus and medial gastrocnemius muscles during human walking. <i>Journal of Experimental Biology</i> , 2013, 216, 909-14.	0.8	65
9	Lower Limb Muscle Weakness Predicts Use of a Multiple- Versus Single-Step Strategy to Recover From Forward Loss of Balance in Older Adults. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2012, 67, 1246-1252.	1.7	65
10	Viscoelastic properties of the Achilles tendon in vivo. <i>SpringerPlus</i> , 2013, 2, 212.	1.2	64
11	Bilateral deficit in maximal force production. <i>European Journal of Applied Physiology</i> , 2016, 116, 2057-2084.	1.2	64
12	<i>In vivo</i> mechanical response of human Achilles tendon to a single bout of hopping exercise. <i>Journal of Experimental Biology</i> , 2010, 213, 1259-1265.	0.8	59
13	Region-dependent hamstrings activity in Nordic hamstring exercise and stiff-leg deadlift defined with high-density electromyography. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2018, 28, 992-1000.	1.3	58
14	Viewpoint: On the hysteresis in the human Achilles tendon. <i>Journal of Applied Physiology</i> , 2013, 114, 515-517.	1.2	55
15	Treadmill versus overground and barefoot versus shod comparisons of triceps surae fascicle behaviour in human walking and running. <i>Gait and Posture</i> , 2013, 38, 528-533.	0.6	55
16	Using deep neural networks for kinematic analysis: Challenges and opportunities. <i>Journal of Biomechanics</i> , 2021, 123, 110460.	0.9	53
17	Markerless 2D kinematic analysis of underwater running: A deep learning approach. <i>Journal of Biomechanics</i> , 2019, 87, 75-82.	0.9	50
18	Triceps surae muscle-tendon properties in older endurance- and sprint-trained athletes. <i>Journal of Applied Physiology</i> , 2016, 120, 63-69.	1.2	48

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19	High-density electromyography activity in various hamstring exercises. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2019, 29, 34-43.	1.3	47
20	Role of Menopausal Transition and Physical Activity in Loss of Lean and Muscle Mass: A Follow-Up Study in Middle-Aged Finnish Women. <i>Journal of Clinical Medicine</i> , 2020, 9, 1588.	1.0	47
21	Achilles tendon stiffness is unchanged one hour after a marathon. <i>Journal of Experimental Biology</i> , 2012, 215, 3665-3671.	0.8	43
22	Adaptive recovery responses to repeated forward loss of balance in older adults. <i>Journal of Biomechanics</i> , 2012, 45, 183-187.	0.9	43
23	Simple Muscle Architecture Analysis (SMA): An ImageJ macro tool to automate measurements in B-mode ultrasound scans. <i>PLoS ONE</i> , 2020, 15, e0229034.	1.1	42
24	Achilles tendon length changes during walking in long-term diabetes patients. <i>Clinical Biomechanics</i> , 2010, 25, 476-482.	0.5	41
25	Acute Metabolic Response, Energy Expenditure, and EMG Activity in Sitting and Standing. <i>Medicine and Science in Sports and Exercise</i> , 2017, 49, 1927-1934.	0.2	39
26	EMG and force production of the flexor hallucis longus muscle in isometric plantarflexion and the push-off phase of walking. <i>Journal of Biomechanics</i> , 2015, 48, 3413-3419.	0.9	37
27	Mechanisms of Adaptation from a Multiple to a Single Step Recovery Strategy following Repeated Exposure to Forward Loss of Balance in Older Adults. <i>PLoS ONE</i> , 2012, 7, e33591.	1.1	36
28	Effects of environmental intervention on sedentary time, musculoskeletal comfort and work ability in office workers. <i>European Journal of Sport Science</i> , 2016, 16, 747-754.	1.4	36
29	Using deep learning to generate synthetic B-mode musculoskeletal ultrasound images. <i>Computer Methods and Programs in Biomedicine</i> , 2020, 196, 105583.	2.6	36
30	Effects of contraction intensity on muscle fascicle and stretch reflex behavior in the human triceps surae. <i>Journal of Applied Physiology</i> , 2008, 105, 226-232.	1.2	35
31	Mechanical and neural stretch responses of the human soleus muscle at different walking speeds. <i>Journal of Physiology</i> , 2009, 587, 3375-3382.	1.3	33
32	Spatial variability of muscle activity during human walking: The effects of different EMG normalization approaches. <i>Neuroscience</i> , 2015, 300, 19-28.	1.1	33
33	Comparing Surface and Fine-Wire Electromyography Activity of Lower Leg Muscles at Different Walking Speeds. <i>Frontiers in Physiology</i> , 2019, 10, 1283.	1.3	33
34	Impact of Hip Flexion Angle on Unilateral and Bilateral Nordic Hamstring Exercise Torque and High-Density Electromyography Activity. <i>Journal of Orthopaedic and Sports Physical Therapy</i> , 2019, 49, 584-592.	1.7	33
35	Lower limb muscle moments and power during recovery from forward loss of balance in male and female single and multiple steppers. <i>Clinical Biomechanics</i> , 2012, 27, 1031-1037.	0.5	32
36	Individual Region- and Muscle-specific Hamstring Activity at Different Running Speeds. <i>Medicine and Science in Sports and Exercise</i> , 2019, 51, 2274-2285.	0.2	31

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37	Effects of muscle activation on shear between human soleus and gastrocnemius muscles. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2017, 27, 26-34.	1.3	29
38	Effect of Training-Induced Changes in Achilles Tendon Stiffness on Muscleâ€“Tendon Behavior During Landing. <i>Frontiers in Physiology</i> , 2018, 9, 794.	1.3	29
39	Effects of plyometric and pneumatic explosive strength training on neuromuscular function and dynamic balance control in 60â€“70year old males. <i>Journal of Electromyography and Kinesiology</i> , 2014, 24, 246-252.	0.7	28
40	Does ankle joint power reflect type of muscle action of soleus and gastrocnemius during walking in cats and humans?. <i>Journal of Biomechanics</i> , 2013, 46, 1383-1386.	0.9	26
41	Decreased lower limb muscle recruitment contributes to the inability of older adults to recover with a single step following a forward loss of balance. <i>Journal of Electromyography and Kinesiology</i> , 2013, 23, 1139-1144.	0.7	23
42	Modulation of muscle-tendon interaction in the human triceps surae during an energy dissipation task. <i>Journal of Experimental Biology</i> , 2017, 220, 4141-4149.	0.8	23
43	Triceps Surae Short Latency Stretch Reflexes Contribute to Ankle Stiffness Regulation during Human Running. <i>PLoS ONE</i> , 2011, 6, e23917.	1.1	23
44	Distinct muscle-tendon interaction during running at different speeds and in different loading conditions. <i>Journal of Applied Physiology</i> , 2019, 127, 246-253.	1.2	21
45	Training-induced increase in Achilles tendon stiffness affects tendon strain pattern during running. <i>PeerJ</i> , 2019, 7, e6764.	0.9	21
46	Ultrasonography as a tool to study afferent feedback from the muscleâ€“tendon complex during human walking. <i>Journal of Electromyography and Kinesiology</i> , 2011, 21, 197-207.	0.7	20
47	Continuous Analysis of Running Mechanics by Means of an Integrated INS/GPS Device. <i>Sensors</i> , 2019, 19, 1480.	2.1	19
48	Total and regional body adiposity increases during menopauseâ€“evidence from a followâ€“up study. <i>Aging Cell</i> , 2022, 21, e13621.	3.0	19
49	Afferent Contribution to Locomotor Muscle Activity During Unconstrained Overground Human Walking: An Analysis of Triceps Surae Muscle Fascicles. <i>Journal of Neurophysiology</i> , 2010, 103, 1262-1274.	0.9	17
50	Neural Compensation Within the Human Triceps Surae During Prolonged Walking. <i>Journal of Neurophysiology</i> , 2011, 105, 548-553.	0.9	16
51	Age-related neuromuscular function and dynamic balance control during slow and fast balance perturbations. <i>Journal of Neurophysiology</i> , 2013, 110, 2557-2562.	0.9	16
52	Muscle activity patterns and spinal shrinkage in office workers using a sitâ€“stand workstation versus a sit workstation. <i>Ergonomics</i> , 2016, 59, 1267-1274.	1.1	16
53	Slower Walking Speed in Older Men Improves Triceps Surae Force Generation Ability. <i>Medicine and Science in Sports and Exercise</i> , 2017, 49, 158-166.	0.2	15
54	Individual Leg Muscle Contributions to the Cost of Walking: Effects of Age and Walking Speed. <i>Journal of Aging and Physical Activity</i> , 2017, 25, 295-304.	0.5	15

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55	Effects of prolonged walking on neural and mechanical components of stretch responses in the human soleus muscle. <i>Journal of Physiology</i> , 2009, 587, 4339-4347.	1.3	14
56	Doublet potentiation in the triceps surae is limited by series compliance and dynamic fascicle behavior. <i>Journal of Applied Physiology</i> , 2015, 119, 807-816.	1.2	13
57	Effects of caffeine on neuromuscular function in a non-fatigued state and during fatiguing exercise. <i>Experimental Physiology</i> , 2020, 105, 690-706.	0.9	13
58	Recent advances in machine learning for maximal oxygen uptake ($\dot{V}O_{2max}$). <i>Overlock</i> 10 Tf 50 632 Td (xmlns:ml)	1.9	12
59	Mechanical and neural function of triceps surae in elite racewalking. <i>Journal of Applied Physiology</i> , 2016, 121, 101-105.	1.2	11
60	Conditioning hops increase triceps surae muscle force and Achilles tendon strain energy in the stretch-shortening cycle. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2018, 28, 126-137.	1.3	11
61	Corticospinal and transcallosal modulation of unilateral and bilateral contractions of lower limbs. <i>European Journal of Applied Physiology</i> , 2016, 116, 2197-2214.	1.2	10
62	Effect of footwear on intramuscular EMG activity of plantar flexor muscles in walking. <i>Journal of Electromyography and Kinesiology</i> , 2020, 55, 102474.	0.7	9
63	Muscle-tendon morphomechanical properties of non-surgically treated Achilles tendon 1-year post-rupture. <i>Clinical Biomechanics</i> , 2022, 92, 105568.	0.5	9
64	In vivo fascicle behavior of the flexor hallucis longus muscle at different walking speeds. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2017, 27, 1716-1723.	1.3	8
65	Non-uniform displacement within ruptured Achilles tendon during isometric contraction. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2021, 31, 1069-1077.	1.3	8
66	In vivo localized gastrocnemius subtendon representation within the healthy and ruptured human Achilles tendon. <i>Journal of Applied Physiology</i> , 2022, 133, 11-19.	1.2	8
67	Postactivation potentiation can counteract declines in force and power that occur after stretching. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2017, 27, 1750-1760.	1.3	7
68	Superimposing hip extension on knee flexion evokes higher activation in biceps femoris than knee flexion alone. <i>Journal of Electromyography and Kinesiology</i> , 2021, 58, 102541.	0.7	7
69	Triceps surae fascicle stretch is poorly correlated with short latency stretch reflex size. <i>Muscle and Nerve</i> , 2015, 52, 245-251.	1.0	6
70	Effects of short term water immersion on peripheral reflex excitability in hemiplegic and healthy individuals: A preliminary study. <i>Journal of Musculoskeletal Neuronal Interactions</i> , 2016, 16, 58-62.	0.1	5
71	Muscle-tendon morphology and function following long-term exposure to repeated and strenuous mechanical loading. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2020, 30, 1151-1162.	1.3	4
72	Tendon length estimates are influenced by tracking location. <i>European Journal of Applied Physiology</i> , 2022, 122, 1857-1862.	1.2	3

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73	Validity of long-term and short-term recall of occupational sitting time in Finnish and Chinese office workers. <i>Journal of Sport and Health Science</i> , 2020, 9, 345-351.	3.3	2
74	Repeatability and sensitivity of passive mechanical stiffness measurements in the triceps surae muscle-tendon complex. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2021, , .	1.3	1
75	Let the machine do the work: learning to reduce the energetic cost of walking on a split-belt treadmill. <i>Journal of Physiology</i> , 2019, 597, 3791-3792.	1.3	0
76	Intramuscular EMG amplitudes do not necessarily diverge from surface EMG amplitudes over time. Response to Letter to the Editor. <i>Journal of Electromyography and Kinesiology</i> , 2022, 64, 102662.	0.7	0