

# 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	Recent advances in machine learning for maximal oxygen uptake ( $\dot{V}O_{2\max}$ ). <i>Journal of Applied Physiology</i> , 2022, 124, 1026-1034.	1.9	12
2	Muscle-tendon morphomechanical properties of non-surgically treated Achilles tendon 1-year post-rupture. <i>Clinical Biomechanics</i> , 2022, 92, 105568.	0.5	9
3	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
4	Total and regional body adiposity increases during menopause—evidence from a follow-up study. <i>Aging Cell</i> , 2022, 21, e13621.	3.0	19
5	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
6	Tendon length estimates are influenced by tracking location. <i>European Journal of Applied Physiology</i> , 2022, 122, 1857-1862.	1.2	3
7	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
8	Using deep neural networks for kinematic analysis: Challenges and opportunities. <i>Journal of Biomechanics</i> , 2021, 123, 110460.	0.9	53
9	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
10	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
11	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
12	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
13	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
14	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
15	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
16	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
17	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
18	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

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19	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
20	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
21	Markerless 2D kinematic analysis of underwater running: A deep learning approach. <i>Journal of Biomechanics</i> , 2019, 87, 75-82.	0.9	50
22	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
23	Continuous Analysis of Running Mechanics by Means of an Integrated INS/GPS Device. <i>Sensors</i> , 2019, 19, 1480.	2.1	19
24	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
25	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
26	Training-induced increase in Achilles tendon stiffness affects tendon strain pattern during running. <i>PeerJ</i> , 2019, 7, e6764.	0.9	21
27	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
28	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
29	Effect of Training-Induced Changes in Achilles Tendon Stiffness on Muscle-Tendon Behavior During Landing. <i>Frontiers in Physiology</i> , 2018, 9, 794.	1.3	29
30	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
31	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
32	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
33	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
34	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
35	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
36	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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37	Mechanical and neural function of triceps surae in elite racewalking. <i>Journal of Applied Physiology</i> , 2016, 121, 101-105.	1.2	11
38	Bilateral deficit in maximal force production. <i>European Journal of Applied Physiology</i> , 2016, 116, 2057-2084.	1.2	64
39	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
40	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
41	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
42	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
43	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
44	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
45	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
46	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
47	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
48	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
49	Ultrasound-based testing of tendon mechanical properties: a critical evaluation. <i>Journal of Applied Physiology</i> , 2015, 118, 133-141.	1.2	105
50	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
51	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
52	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
53	Viscoelastic properties of the Achilles tendon in vivo. <i>SpringerPlus</i> , 2013, 2, 212.	1.2	64
54	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

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55	Does ankle joint power reflect type of muscle action of soleus and gastrocnemius during walking in cats and humans?. Journal of Biomechanics, 2013, 46, 1383-1386.	0.9	26
56	Viewpoint: On the hysteresis in the human Achilles tendon. Journal of Applied Physiology, 2013, 114, 515-517.	1.2	55
57	Treadmill versus overground and barefoot versus shod comparisons of triceps surae fascicle behaviour in human walking and running. Gait and Posture, 2013, 38, 528-533.	0.6	55
58	The use of ultrasound to study muscleâ€”tendon function in human posture and locomotion. Gait and Posture, 2013, 37, 305-312.	0.6	93
59	Age-related neuromuscular function and dynamic balance control during slow and fast balance perturbations. Journal of Neurophysiology, 2013, 110, 2557-2562.	0.9	16
60	Achilles tendon stiffness is unchanged one hour after a marathon. Journal of Experimental Biology, 2012, 215, 3665-3671.	0.8	43
61	Age-related differences in Achilles tendon properties and triceps surae muscle architecture in vivo. Journal of Applied Physiology, 2012, 113, 1537-1544.	1.2	218
62	Long-term use of high-heeled shoes alters the neuromechanics of human walking. Journal of Applied Physiology, 2012, 112, 1054-1058.	1.2	85
63	Lower limb muscle moments and power during recovery from forward loss of balance in male and female single and multiple steppers. Clinical Biomechanics, 2012, 27, 1031-1037.	0.5	32
64	Adaptive recovery responses to repeated forward loss of balance in older adults. Journal of Biomechanics, 2012, 45, 183-187.	0.9	43
65	Lower Limb Muscle Weakness Predicts Use of a Multiple- Versus Single-Step Strategy to Recover From Forward Loss of Balance in Older Adults. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2012, 67, 1246-1252.	1.7	65
66	Mechanisms of Adaptation from a Multiple to a Single Step Recovery Strategy following Repeated Exposure to Forward Loss of Balance in Older Adults. PLoS ONE, 2012, 7, e33591.	1.1	36
67	Ultrasonography as a tool to study afferent feedback from the muscleâ€”tendon complex during human walking. Journal of Electromyography and Kinesiology, 2011, 21, 197-207.	0.7	20
68	Automatic tracking of medial gastrocnemius fascicle length during human locomotion. Journal of Applied Physiology, 2011, 111, 1491-1496.	1.2	186
69	Neural Compensation Within the Human Triceps Surae During Prolonged Walking. Journal of Neurophysiology, 2011, 105, 548-553.	0.9	16
70	Triceps Surae Short Latency Stretch Reflexes Contribute to Ankle Stiffness Regulation during Human Running. PLoS ONE, 2011, 6, e23917.	1.1	23
71	Afferent Contribution to Locomotor Muscle Activity During Unconstrained Overground Human Walking: An Analysis of Triceps Surae Muscle Fascicles. Journal of Neurophysiology, 2010, 103, 1262-1274.	0.9	17
72	<i>In vivo</i> mechanical response of human Achilles tendon to a single bout of hopping exercise. Journal of Experimental Biology, 2010, 213, 1259-1265.	0.8	59

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73	Achilles tendon length changes during walking in long-term diabetes patients. Clinical Biomechanics, 2010, 25, 476-482.	0.5	41
74	Mechanical and neural stretch responses of the human soleus muscle at different walking speeds. Journal of Physiology, 2009, 587, 3375-3382.	1.3	33
75	Effects of prolonged walking on neural and mechanical components of stretch responses in the human soleus muscle. Journal of Physiology, 2009, 587, 4339-4347.	1.3	14
76	Effects of contraction intensity on muscle fascicle and stretch reflex behavior in the human triceps surae. Journal of Applied Physiology, 2008, 105, 226-232.	1.2	35