

# Glen A Lichtwark

## List of Publications by Year in descending order

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Version: 2024-02-01

128  
papers

6,356  
citations

71102

41  
h-index

76900

74  
g-index

137  
all docs

137  
docs citations

137  
times ranked

3713  
citing authors

#	ARTICLE	IF	CITATIONS
1	Biceps femoris long head sarcomere and fascicle length adaptations after 3 weeks of eccentric exercise training. <i>Journal of Sport and Health Science</i> , 2022, 11, 43-49.	6.5	34
2	Modelling the complexity of the foot and ankle during human locomotion: the development and validation of a multi-segment foot model using biplanar videoradiography. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2022, 25, 554-565.	1.6	7
3	A Human-Centered Machine-Learning Approach for Muscle-Tendon Junction Tracking in Ultrasound Images. <i>IEEE Transactions on Biomedical Engineering</i> , 2022, 69, 1920-1930.	4.2	3
4	The Iliotibial Band: A Complex Structure with Versatile Functions. <i>Sports Medicine</i> , 2022, 52, 995-1008.	6.5	17
5	The effect of small changes in rate of force development on muscle fascicle velocity and motor unit discharge behaviour. <i>European Journal of Applied Physiology</i> , 2022, 122, 1035.	2.5	4
6	Flexor digitorum brevis utilizes elastic strain energy to contribute to both work generation and energy absorption at the foot. <i>Journal of Experimental Biology</i> , 2022, 225, .	1.7	6
7	Muscle architecture, growth, and biological Remodelling in cerebral palsy: a narrative review. <i>BMC Musculoskeletal Disorders</i> , 2022, 23, 233.	1.9	21
8	The acute effects of higher versus lower load duration and intensity on morphological and mechanical properties of the healthy Achilles tendon: a randomized crossover trial. <i>Journal of Experimental Biology</i> , 2022, , .	1.7	0
9	Isometric fascicle behaviour of the biceps femoris long head muscle during Nordic hamstring exercise variations. <i>Journal of Science and Medicine in Sport</i> , 2022, 25, 684-689.	1.3	7
10	2021 ISB World Athletics Award for Biomechanics: The Subtalar Joint Maintains ‘Spring-Like’ Function While Running in Footwear That Perturbs Foot Pronation. <i>Journal of Applied Biomechanics</i> , 2022, , 1-11.	0.8	0
11	Regional changes in muscle activity do not underlie the repeated bout effect in the human gastrocnemius muscle. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2021, 31, 799-812.	2.9	5
12	Immediate and long-term effects of mechanical loading on Achilles tendon volume: A systematic review and meta-analysis. <i>Journal of Biomechanics</i> , 2021, 118, 110289.	2.1	8
13	Plantar flexor voluntary activation capacity, strength and function in cerebral palsy. <i>European Journal of Applied Physiology</i> , 2021, 121, 1733-1741.	2.5	8
14	Reliability of Human Achilles Tendon Stiffness Measures Using Freehand 3-D Ultrasound. <i>Ultrasound in Medicine and Biology</i> , 2021, 47, 973-981.	1.5	4
15	The energetic function of the human foot and its muscles during accelerations and decelerations. <i>Journal of Experimental Biology</i> , 2021, 224, .	1.7	18
16	Cyclic eccentric stretching induces more damage and improved subsequent protection than stretched isometric contractions in the lower limb. <i>European Journal of Applied Physiology</i> , 2021, 121, 3349-3360.	2.5	3
17	Evaluation of an inertial measurement unit-based approach for determining centre-of-mass movement during non-seated cycling. <i>Journal of Biomechanics</i> , 2021, 126, 110441.	2.1	5
18	The extensibility of the plantar fascia influences the windlass mechanism during human running. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2021, 288, 20202095.	2.6	37

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19	Comparisons of laboratory-based methods to calculate jump height and improvements to the field-based flight-time method. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2020, 30, 31-37.	2.9	26
20	Impact of Lower Limb Active Movement Training in Individuals With Spastic Type Cerebral Palsy on Neuromuscular Control Outcomes: A Systematic Review. <i>Frontiers in Neurology</i> , 2020, 11, 581892.	2.4	8
21	Riders Use Their Body Mass to Amplify Crank Power during Nonseated Ergometer Cycling. <i>Medicine and Science in Sports and Exercise</i> , 2020, 52, 2599-2607.	0.4	5
22	The Mechanics of Seated and Nonseated Cycling at Very-High-Power Output: A Joint-Level Analysis. <i>Medicine and Science in Sports and Exercise</i> , 2020, 52, 1585-1594.	0.4	8
23	The Reliability of Foot and Ankle Bone and Joint Kinematics Measured With Biplanar Videoradiography and Manual Scientific Rotoscoping. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 106.	4.1	13
24	Joint and muscle-tendon coordination strategies during submaximal jumping. <i>Journal of Applied Physiology</i> , 2020, 128, 596-603.	2.5	7
25	Regulation of foot and ankle quasi-stiffness during human hopping across a range of frequencies. <i>Journal of Biomechanics</i> , 2020, 108, 109853.	2.1	19
26	Ahead of the curve in the evolution of human feet. <i>Nature</i> , 2020, 579, 31-32.	27.8	1
27	Measuring A Rider's Centre Of Mass Displacement During Non-seated Cycling Using A Single Inertial Measurement Unit. <i>Medicine and Science in Sports and Exercise</i> , 2020, 52, 939-939.	0.4	0
28	A Direct Comparison of Biplanar Videoradiography and Optical Motion Capture for Foot and Ankle Kinematics. <i>Frontiers in Bioengineering and Biotechnology</i> , 2019, 7, 199.	4.1	62
29	Swimming performance is reduced by reflective markers intended for the analysis of swimming kinematics. <i>Journal of Biomechanics</i> , 2019, 91, 109-113.	2.1	16
30	Increasing step width reduces the requirements for subtalar joint moments and powers. <i>Journal of Biomechanics</i> , 2019, 92, 29-34.	2.1	2
31	Tibialis anterior tendinous tissue plays a key role in energy absorption during human walking. <i>Journal of Experimental Biology</i> , 2019, 222, .	1.7	14
32	The Effect of Cadence on the Mechanics and Energetics of Constant Power Cycling. <i>Medicine and Science in Sports and Exercise</i> , 2019, 51, 941-950.	0.4	17
33	The effect of combined functional anaerobic and strength training on treadmill gait kinematics and kinetics in ambulatory young adults with cerebral palsy. <i>Gait and Posture</i> , 2019, 70, 323-329.	1.4	8
34	Intrinsic foot muscles contribute to elastic energy storage and return in the human foot. <i>Journal of Applied Physiology</i> , 2019, 126, 231-238.	2.5	46
35	The functional importance of human foot muscles for bipedal locomotion. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 1645-1650.	7.1	139
36	The influence of added mass on muscle activation and contractile mechanics during submaximal and maximal countermovement jumping in humans. <i>Journal of Experimental Biology</i> , 2019, 222, .	1.7	9

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37	The Immediate Effect of Foot Orthoses on Subtalar Joint Mechanics and Energetics. <i>Medicine and Science in Sports and Exercise</i> , 2018, 50, 1449-1456.	0.4	13
38	Modeling the two-dimensional accuracy of soccer kicks. <i>Journal of Biomechanics</i> , 2018, 72, 159-166.	2.1	15
39	Differences in in vivo muscle fascicle and tendinous tissue behavior between the ankle plantarflexors during running. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2018, 28, 1828-1836.	2.9	44
40	Simulating the effect of muscle weakness and contracture on neuromuscular control of normal gait in children. <i>Gait and Posture</i> , 2018, 61, 169-175.	1.4	28
41	Movement Strategies for Countermovement Jumping are Potentially Influenced by Elastic Energy Stored and Released from Tendons. <i>Scientific Reports</i> , 2018, 8, 2300.	3.3	23
42	Functional Capacity in Adults With Cerebral Palsy: Lower Limb Muscle Strength Matters. <i>Archives of Physical Medicine and Rehabilitation</i> , 2018, 99, 900-906.e1.	0.9	26
43	Functional Anaerobic and Strength Training in Young Adults with Cerebral Palsy. <i>Medicine and Science in Sports and Exercise</i> , 2018, 50, 1549-1557.	0.4	43
44	Muscle-tendon length and force affect human tibialis anterior central aponeurosis stiffness in vivo. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E3097-E3105.	7.1	39
45	The Influence of Foot-Strike Technique on the Neuromechanical Function of the Foot. <i>Medicine and Science in Sports and Exercise</i> , 2018, 50, 98-108.	0.4	43
46	Effect of a prehop on the muscle-tendon interaction during vertical jumps. <i>Journal of Applied Physiology</i> , 2018, 124, 1203-1211.	2.5	10
47	Stand And Deliver. <i>Medicine and Science in Sports and Exercise</i> , 2018, 50, 441-442.	0.4	0
48	Microendoscopy reveals positive correlation in multiscale length changes and variable sarcomere lengths across different regions of human muscle. <i>Journal of Applied Physiology</i> , 2018, 125, 1812-1820.	2.5	48
49	The repeated bout effect can occur without mechanical and neuromuscular changes after a bout of eccentric exercise. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2018, 28, 2123-2134.	2.9	18
50	Ultrasound Technology for Examining the Mechanics of the Muscle, Tendon, and Ligament. , 2018, , 157-176.		0
51	The effect of muscle-tendon unit vs. fascicle analyses on vastus lateralis force-generating capacity during constant power output cycling with variable cadence. <i>Journal of Applied Physiology</i> , 2018, 124, 993-1002.	2.5	13
52	Influence of the windlass mechanism on arch-spring mechanics during dynamic foot arch deformation. <i>Journal of the Royal Society Interface</i> , 2018, 15, 20180270.	3.4	59
53	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.	2.9	29
54	The effect of cadence on the muscle-tendon mechanics of the gastrocnemius muscle during walking. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2017, 27, 289-298.	2.9	14

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55	Medial gastrocnemius and soleus muscle-tendon unit, fascicle, and tendon interaction during walking in children with cerebral palsy. <i>Developmental Medicine and Child Neurology</i> , 2017, 59, 843-851.	2.1	66
56	In vivo fascicle length measurements via B-mode ultrasound imaging with single vs dual transducer arrangements. <i>Journal of Biomechanics</i> , 2017, 64, 240-244.	2.1	39
57	Foot structure is significantly associated to subtalar joint kinetics and mechanical energetics. <i>Gait and Posture</i> , 2017, 58, 159-165.	1.4	11
58	Subtalar Joint Pronation and Energy Absorption Requirements During Walking are Related to Tibialis Posterior Tendinous Tissue Strain. <i>Scientific Reports</i> , 2017, 7, 17958.	3.3	18
59	Information from dynamic length changes improves reliability of static ultrasound fascicle length measurements. <i>PeerJ</i> , 2017, 5, e4164.	2.0	12
60	Ultrasound Technology for Examining the Mechanics of the Muscle, Tendon, and Ligament. , 2017, , 1-20.		5
61	Additional in-series compliance reduces muscle force summation and alters the time course of force relaxation during fixed-end contractions. <i>Journal of Experimental Biology</i> , 2016, 219, 3587-3596.	1.7	15
62	Rise of the tendon research. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2016, 26, 992-994.	2.9	3
63	Effects of series elastic compliance on muscle force summation and the rate of force rise. <i>Journal of Experimental Biology</i> , 2016, 219, 3261-3270.	1.7	30
64	The mechanical function of the tibialis posterior muscle and its tendon during locomotion. <i>Journal of Biomechanics</i> , 2016, 49, 3238-3243.	2.1	48
65	Deconstructing the power resistance relationship for squats: A joint-level analysis. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2016, 26, 774-781.	2.9	24
66	Protection from Muscle Damage in the Absence of Changes in Muscle Mechanical Behavior. <i>Medicine and Science in Sports and Exercise</i> , 2016, 48, 1495-1505.	0.4	14
67	Shoes alter the spring-like function of the human foot during running. <i>Journal of the Royal Society Interface</i> , 2016, 13, 20160174.	3.4	55
68	Medial gastrocnemius muscle volume in ambulant children with unilateral and bilateral cerebral palsy aged 2 to 9 years. <i>Developmental Medicine and Child Neurology</i> , 2016, 58, 1146-1152.	2.1	57
69	Muscle growth is reduced in 15-month-old children with cerebral palsy. <i>Developmental Medicine and Child Neurology</i> , 2016, 58, 485-491.	2.1	108
70	UltraTrack: Software for semi-automated tracking of muscle fascicles in sequences of B-mode ultrasound images. <i>Computer Methods and Programs in Biomedicine</i> , 2016, 128, 111-118.	4.7	162
71	Quantification of muscle co-contraction using supersonic shear wave imaging. <i>Journal of Biomechanics</i> , 2016, 49, 493-495.	2.1	26
72	Three-dimensional geometrical changes of the human tibialis anterior muscle and its central aponeurosis measured with three-dimensional ultrasound during isometric contractions. <i>PeerJ</i> , 2016, 4, e2260.	2.0	71

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73	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.	1.6	89
74	FAST CP<i>:</i>protocol of a randomised controlled trial of the efficacy of a 12-week combined Functional Anaerobic and Strength Training programme on muscle properties and mechanical gait deficiencies in adolescents and young adults with spastic-type cerebral palsy. <i>BMJ Open</i> , 2015, 5, e008059.	1.9	12
75	The role of human ankle plantar flexor muscle-tendon interaction & architecture in maximal vertical jumping examined<i>in vivo</i>. <i>Journal of Experimental Biology</i> , 2015, 219, 528-34.	1.7	59
76	Ultrasound reveals negligible cocontraction during isometric plantar flexion and dorsiflexion despite the presence of antagonist electromyographic activity. <i>Journal of Applied Physiology</i> , 2015, 118, 1193-1199.	2.5	31
77	In vivo behavior of the human soleus muscle with increasing walking and running speeds. <i>Journal of Applied Physiology</i> , 2015, 118, 1266-1275.	2.5	147
78	Is the Soleus a Sentinel Muscle for Impaired Aerobic Capacity in Heart Failure?. <i>Medicine and Science in Sports and Exercise</i> , 2015, 47, 498-508.	0.4	16
79	Fluoroscopic Assessment of Lumbar Total Disc Replacement Kinematics During Walking. <i>Spine</i> , 2015, 40, 436-442.	2.0	5
80	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.	2.5	13
81	Effects of cold water immersion and active recovery on hemodynamics and recovery of muscle strength following resistance exercise. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2015, 309, R389-R398.	1.8	31
82	Changes in the length and three-dimensional orientation of muscle fascicles and aponeuroses with passive length changes in human gastrocnemius muscles. <i>Journal of Physiology</i> , 2015, 593, 441-455.	2.9	50
83	Active regulation of longitudinal arch compression and recoil during walking and running. <i>Journal of the Royal Society Interface</i> , 2015, 12, 20141076.	3.4	156
84	Intrinsic foot muscles have the capacity to control deformation of the longitudinal arch. <i>Journal of the Royal Society Interface</i> , 2014, 11, 20131188.	3.4	226
85	Muscle contributions to recovery from forward loss of balance by stepping. <i>Journal of Biomechanics</i> , 2014, 47, 667-674.	2.1	31
86	Muscle fascicle strains in human gastrocnemius during backward downhill walking. <i>Journal of Applied Physiology</i> , 2014, 116, 1455-1462.	2.5	29
87	Reciprocal activation of gastrocnemius and soleus motor units is associated with fascicle length change during knee flexion. <i>Physiological Reports</i> , 2014, 2, e12044.	1.7	40
88	Differential strain patterns of the human Achilles tendon determined <i>in vivo</i> with freehand three-dimensional ultrasound imaging. <i>Journal of Experimental Biology</i> , 2013, 216, 594-600.	1.7	52
89	The effects of botulinum toxin injection frequency on calf muscle growth in young children with spastic cerebral palsy: A 12-month prospective study. <i>Journal of Children's Orthopaedics</i> , 2013, 7, 425-433.	1.1	49
90	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.	1.7	23

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91	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.	2.1	26
92	Neuromechanical properties of the triceps surae in young and older adults. <i>Experimental Gerontology</i> , 2013, 48, 1147-1155.	2.8	37
93	The use of ultrasound to study muscle-tendon function in human posture and locomotion. <i>Gait and Posture</i> , 2013, 37, 305-312.	1.4	93
94	Reliability and accuracy of an automated tracking algorithm to measure controlled passive and active muscle fascicle length changes from ultrasound. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2013, 16, 678-687.	1.6	106
95	Effects of running on human Achilles tendon length-tension properties in the free and gastrocnemius components. <i>Journal of Experimental Biology</i> , 2013, 216, 4388-94.	1.7	45
96	Tibialis anterior muscle fascicle dynamics adequately represent postural sway during standing balance. <i>Journal of Applied Physiology</i> , 2013, 115, 1742-1750.	2.5	33
97	Commentaries on Viewpoint: On the hysteresis in the human Achilles tendon. <i>Journal of Applied Physiology</i> , 2013, 114, 518-520.	2.5	15
98	A comparison of two Hill-type skeletal muscle models on the construction of medial gastrocnemius length-tension curves in humans in vivo. <i>Journal of Applied Physiology</i> , 2012, 113, 90-96.	2.5	24
99	Modulation of the soleus H-reflex during knee rotations is not consistent with muscle fascicle length changes. <i>European Journal of Applied Physiology</i> , 2012, 112, 3259-3266.	2.5	7
100	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.	1.2	32
101	Adaptive recovery responses to repeated forward loss of balance in older adults. <i>Journal of Biomechanics</i> , 2012, 45, 183-187.	2.1	43
102	Medial gastrocnemius muscle fascicle active torque-length and Achilles tendon properties in young adults with spastic cerebral palsy. <i>Journal of Biomechanics</i> , 2012, 45, 2526-2530.	2.1	108
103	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.	3.6	65
104	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.	2.5	36
105	A compliant tendon increases fatigue resistance and net efficiency during fatiguing cyclic contractions of mouse soleus muscle. <i>Acta Physiologica</i> , 2012, 204, 533-543.	3.8	16
106	Passive muscle mechanical properties of the medial gastrocnemius in young adults with spastic cerebral palsy. <i>Journal of Biomechanics</i> , 2011, 44, 2496-2500.	2.1	128
107	Automatic tracking of medial gastrocnemius fascicle length during human locomotion. <i>Journal of Applied Physiology</i> , 2011, 111, 1491-1496.	2.5	186
108	Medial gastrocnemius muscle volume and fascicle length in children aged 2 to 5 years with cerebral palsy. <i>Developmental Medicine and Child Neurology</i> , 2011, 53, 543-548.	2.1	165

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109	Validity and reliability of a simple ultrasound approach to measure medial gastrocnemius muscle length. <i>Journal of Anatomy</i> , 2011, 218, 637-642.	1.5	49
110	The anatomical arrangement of muscle and tendon enhances limb versatility and locomotor performance. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2011, 366, 1540-1553.	4.0	59
111	Gross muscle morphology and structure in spastic cerebral palsy: a systematic review. <i>Developmental Medicine and Child Neurology</i> , 2010, 52, 794-804.	2.1	205
112	The influence of tendon compliance on muscle power output and efficiency during cyclic contractions. <i>Journal of Experimental Biology</i> , 2010, 213, 707-714.	1.7	66
113	Intensity of activation and timing of deactivation modulate elastic energy storage and release in a pennate muscle and account for gait-specific initiation of limb protraction in the horse. <i>Journal of Experimental Biology</i> , 2009, 212, 2454-2463.	1.7	11
114	Is muscle-tendon unit length a valid indicator for muscle spindle output?. <i>Journal of Physiology</i> , 2009, 587, 13-14.	2.9	15
115	Validation of a freehand 3D ultrasound system for morphological measures of the medial gastrocnemius muscle. <i>Journal of Biomechanics</i> , 2009, 42, 1313-1319.	2.1	131
116	Optimal muscle fascicle length and tendon stiffness for maximising gastrocnemius efficiency during human walking and running. <i>Journal of Theoretical Biology</i> , 2008, 252, 662-673.	1.7	180
117	Effect of altering neural, muscular and tendinous factors associated with aging on balance recovery using the ankle strategy: A simulation study. <i>Journal of Theoretical Biology</i> , 2008, 254, 546-554.	1.7	25
118	The energetic cost of activation in mouse fast-twitch muscle is the same whether measured using reduced filament overlap or 2,4,6-trinitrobenzyltoluenesulphonamide. <i>Acta Physiologica</i> , 2008, 193, 381-391.	3.8	32
119	Comment on: The mechanism for efficacy of eccentric loading in Achilles tendon injury; an in vivo study in humans: reply. <i>Rheumatology</i> , 2008, 48, 203-203.	1.9	0
120	The mechanism for efficacy of eccentric loading in Achilles tendon injury; an in vivo study in humans. <i>Rheumatology</i> , 2008, 47, 1493-1497.	1.9	115
121	Muscle fascicle and series elastic element length changes along the length of the human gastrocnemius during walking and running. <i>Journal of Biomechanics</i> , 2007, 40, 157-164.	2.1	353
122	The mechanics of mouse skeletal muscle when shortening during relaxation. <i>Journal of Biomechanics</i> , 2007, 40, 3121-3129.	2.1	15
123	Is Achilles tendon compliance optimised for maximum muscle efficiency during locomotion?. <i>Journal of Biomechanics</i> , 2007, 40, 1768-1775.	2.1	205
124	Interactions between the human gastrocnemius muscle and the Achilles tendon during incline, level and decline locomotion. <i>Journal of Experimental Biology</i> , 2006, 209, 4379-4388.	1.7	278
125	A modified Hill muscle model that predicts muscle power output and efficiency during sinusoidal length changes. <i>Journal of Experimental Biology</i> , 2005, 208, 2831-2843.	1.7	91
126	Effects of series elasticity and activation conditions on muscle power output and efficiency. <i>Journal of Experimental Biology</i> , 2005, 208, 2845-2853.	1.7	59



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127	In vivo mechanical properties of the human Achilles tendon during one-legged hopping. Journal of Experimental Biology, 2005, 208, 4715-4725.	1.7	315
128	A catapult action for rapid limb protraction. Nature, 2003, 421, 35-36.	27.8	104