

Andrew A Biewener

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155
papers

9,115
citations

53
h-index

91
g-index

176
ext. papers

10,336
ext. citations

6.4
avg, IF

6.49
L-index

#	Paper	IF	Citations
155	Scaling body support in mammals: limb posture and muscle mechanics. <i>Science</i> , 1989 , 245, 45-8	33.3	620
154	Biomechanics of mammalian terrestrial locomotion. <i>Science</i> , 1990 , 250, 1097-103	33.3	417
153	Bipedal locomotion: effects of speed, size and limb posture in birds and humans. <i>Journal of Zoology</i> , 1991 , 224, 127-147	2	324
152	Adaptive changes in trabecular architecture in relation to functional strain patterns and disuse. <i>Bone</i> , 1996 , 19, 1-8	4.7	298
151	Energetics and mechanics of human running on surfaces of different stiffnesses. <i>Journal of Applied Physiology</i> , 2002 , 92, 469-78	3.7	250
150	Biomechanical consequences of scaling. <i>Journal of Experimental Biology</i> , 2005 , 208, 1665-76	3	236
149	Bone stress in the horse forelimb during locomotion at different gaits: a comparison of two experimental methods. <i>Journal of Biomechanics</i> , 1983 , 16, 565-76	2.9	203
148	Muscle mechanical advantage of human walking and running: implications for energy cost. <i>Journal of Applied Physiology</i> , 2004 , 97, 2266-74	3.7	192
147	Bone curvature: sacrificing strength for load predictability?. <i>Journal of Theoretical Biology</i> , 1988 , 131, 75-92	2.3	190
146	Muscle-tendon stresses and elastic energy storage during locomotion in the horse. <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 1998 , 120, 73-87	2.3	182
145	Comparative power curves in bird flight. <i>Nature</i> , 2003 , 421, 363-6	50.4	174
144	Neuromechanics: an integrative approach for understanding motor control. <i>Integrative and Comparative Biology</i> , 2007 , 47, 16-54	2.8	164
143	Differential scaling of the long bones in the terrestrial carnivora and other mammals. <i>Journal of Morphology</i> , 1990 , 204, 157-69	1.6	161
142	Musculoskeletal design in relation to body size. <i>Journal of Biomechanics</i> , 1991 , 24 Suppl 1, 19-29	2.9	158
141	Three-dimensional kinematics of hummingbird flight. <i>Journal of Experimental Biology</i> , 2007 , 210, 2368-83		154
140	Running over rough terrain reveals limb control for intrinsic stability. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 15681-6	11.5	152
139	Muscle force-length dynamics during level versus incline locomotion: a comparison of in vivo performance of two guinea fowl ankle extensors. <i>Journal of Experimental Biology</i> , 2003 , 206, 2941-58	3	152

138	Bone modeling during growth: dynamic strain equilibrium in the chick tibiotarsus. <i>Calcified Tissue International</i> , 1986 , 39, 390-5	3.9	141
137	Hindlimb muscle function in relation to speed and gait: in vivo patterns of strain and activation in a hip and knee extensor of the rat (<i>Rattus norvegicus</i>). <i>Journal of Experimental Biology</i> , 2001 , 204, 2717-2731	3.9	131
136	Unsteady locomotion: integrating muscle function with whole body dynamics and neuromuscular control. <i>Journal of Experimental Biology</i> , 2007 , 210, 2949-60	3	123
135	Muscle Function in vivo: A Comparison of Muscles used for Elastic Energy Savings versus Muscles Used to Generate Mechanical Power 1. <i>American Zoologist</i> , 1998 , 38, 703-717		120
134	Structural response of growing bone to exercise and disuse. <i>Journal of Applied Physiology</i> , 1994 , 76, 946-55	3.7	118
133	Safety factors in bone strength. <i>Calcified Tissue International</i> , 1993 , 53 Suppl 1, S68-74	3.9	116
132	Running over rough terrain: guinea fowl maintain dynamic stability despite a large unexpected change in substrate height. <i>Journal of Experimental Biology</i> , 2006 , 209, 171-87	3	113
131	Mechanical power output of bird flight. <i>Nature</i> , 1997 , 390, 67-70	50.4	112
130	Kinematic and Electromyographic Analysis of the functional role of the body axis during Terrestrial and Aquatic Locomotion in the Salamander <i>Ambystoma Tigrinum</i> . <i>Journal of Experimental Biology</i> , 1992 , 162, 107-130	3	111
129	Mammalian Terrestrial Locomotion and Size. <i>BioScience</i> , 1989 , 39, 776-783	5.7	100
128	In vivo strain in the humerus of pigeons (<i>Columba livia</i>) during flight. <i>Journal of Morphology</i> , 1995 , 225, 61-75	1.6	96
127	Telemetered in vivo strain analysis of locomotor mechanics of brachiating gibbons. <i>Nature</i> , 1989 , 342, 270-2	50.4	96
126	Estimates of circulation and gait change based on a three-dimensional kinematic analysis of flight in cockatiels (<i>Nymphicus hollandicus</i>) and ringed turtle-doves (<i>Streptopelia risoria</i>). <i>Journal of Experimental Biology</i> , 2002 , 205, 1389-1409	3	93
125	Walking and running in the red-legged running frog, <i>Kassina maculata</i> . <i>Journal of Experimental Biology</i> , 2004 , 207, 399-410	3	91
124	Wing inertia and whole-body acceleration: an analysis of instantaneous aerodynamic force production in cockatiels (<i>Nymphicus hollandicus</i>) flying across a range of speeds. <i>Journal of Experimental Biology</i> , 2004 , 207, 1689-702	3	88
123	Mechanics of locomotion and jumping in the horse (<i>Equus</i>): in vivo stress in the tibia and metatarsus. <i>Journal of Zoology</i> , 1988 , 214, 547-565	2	76
122	Skeletal strain patterns and growth in the emu hindlimb during ontogeny. <i>Journal of Experimental Biology</i> , 2007 , 210, 2676-90	3	69
121	In vivo and in vitro heterogeneity of segment length changes in the semimembranosus muscle of the toad. <i>Journal of Physiology</i> , 2003 , 549, 877-88	3.9	69

120	How cockatiels (<i>Nymphicus hollandicus</i>) modulate pectoralis power output across flight speeds. <i>Journal of Experimental Biology</i> , 2003 , 206, 1363-78	3	68
119	Effects of surface grade on proximal hindlimb muscle strain and activation during rat locomotion. <i>Journal of Applied Physiology</i> , 2002 , 93, 1731-43	3.7	67
118	Ontogenetic patterns of limb loading, in vivo bone strains and growth in the goat radius. <i>Journal of Experimental Biology</i> , 2004 , 207, 2577-88	3	66
117	Patterns of mechanical energy change in tetrapod gait: pendula, springs and work. <i>Journal of Experimental Zoology Part A, Comparative Experimental Biology</i> , 2006 , 305, 899-911		65
116	Wing and body kinematics of takeoff and landing flight in the pigeon (<i>Columba livia</i>). <i>Journal of Experimental Biology</i> , 2010 , 213, 1651-8	3	64
115	Dynamics of leg muscle function in tammar wallabies (<i>M. eugenii</i>) during level versus incline hopping. <i>Journal of Experimental Biology</i> , 2004 , 207, 211-23	3	63
114	Experimental alteration of limb posture in the chicken (<i>Gallus gallus</i>) and its bearing on the use of birds as analogs for dinosaur locomotion. <i>Journal of Morphology</i> , 1999 , 240, 237-49	1.6	63
113	The role of intrinsic muscle mechanics in the neuromuscular control of stable running in the guinea fowl. <i>Journal of Physiology</i> , 2009 , 587, 2693-707	3.9	61
112	Functional diversification within and between muscle synergists during locomotion. <i>Biology Letters</i> , 2008 , 4, 41-4	3.6	60
111	Low speed maneuvering flight of the rose-breasted cockatoo (<i>Eolophus roseicapillus</i>). I. Kinematic and neuromuscular control of turning. <i>Journal of Experimental Biology</i> , 2007 , 210, 1897-911	3	59
110	Dynamic pressure maps for wings and tails of pigeons in slow, flapping flight, and their energetic implications. <i>Journal of Experimental Biology</i> , 2005 , 208, 355-69	3	58
109	Muscle function in avian flight: achieving power and control. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2011 , 366, 1496-506	5.8	57
108	PECTORALIS MUSCLE FORCE AND POWER OUTPUT DURING FLIGHT IN THE STARLING. <i>Journal of Experimental Biology</i> , 1992 , 164, 1-18	3	56
107	Negotiating obstacles: running kinematics of the lizard <i>Sceloporus malachiticus</i> . <i>Journal of Zoology</i> , 2006 , 270, 359-371	2	55
106	Leg muscles that mediate stability: mechanics and control of two distal extensor muscles during obstacle negotiation in the guinea fowl. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2011 , 366, 1580-91	5.8	54
105	Wing kinematics of avian flight across speeds. <i>Journal of Avian Biology</i> , 2003 , 34, 177-184	1.9	54
104	Allometry and curvature in the long bones of quadrupedal mammals. <i>Journal of Zoology</i> , 1992 , 226, 455-467		54
103	Pigeons steer like helicopters and generate down- and upstroke lift during low speed turns. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 19990-5	11.5	53

102	Hind limb scaling of kangaroos and wallabies (superfamily Macropodoidea): implications for hopping performance, safety factor and elastic savings. <i>Journal of Anatomy</i> , 2008 , 212, 153-63	2.9	52
101	Estimates of circulation and gait change based on a three-dimensional kinematic analysis of flight in cockatiels (<i>Nymphicus hollandicus</i>) and ringed turtle-doves (<i>Streptopelia risoria</i>). <i>Journal of Experimental Biology</i> , 2002 , 205, 1389-409	3	52
100	Outrun or Outmaneuver: Predator-Prey Interactions as a Model System for Integrating Biomechanical Studies in a Broader Ecological and Evolutionary Context. <i>Integrative and Comparative Biology</i> , 2015 , 55, 1188-97	2.8	50
99	Animal Locomotion 2018 ,		49
98	Contractile properties of the pigeon supracoracoideus during different modes of flight. <i>Journal of Experimental Biology</i> , 2008 , 211, 170-9	3	47
97	Patterns of strain and activation in the thigh muscles of goats across gaits during level locomotion. <i>Journal of Experimental Biology</i> , 2005 , 208, 4599-611	3	45
96	A collisional perspective on quadrupedal gait dynamics. <i>Journal of the Royal Society Interface</i> , 2011 , 8, 1480-6	4.1	44
95	Joint work and power associated with acceleration and deceleration in tammar wallabies (<i>Macropus eugenii</i>). <i>Journal of Experimental Biology</i> , 2005 , 208, 41-53	3	44
94	A muscle's force depends on the recruitment patterns of its fibers. <i>Annals of Biomedical Engineering</i> , 2012 , 40, 1708-20	4.7	42
93	Morphological and kinematic basis of the hummingbird flight stroke: scaling of flight muscle transmission ratio. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2012 , 279, 1986-92	4.4	41
92	Comparison of human gastrocnemius forces predicted by Hill-type muscle models and estimated from ultrasound images. <i>Journal of Experimental Biology</i> , 2017 , 220, 1643-1653	3	40
91	Locomotion as an emergent property of muscle contractile dynamics. <i>Journal of Experimental Biology</i> , 2016 , 219, 285-94	3	38
90	Compliance, actuation, and work characteristics of the goat foreleg and hindleg during level, uphill, and downhill running. <i>Journal of Applied Physiology</i> , 2008 , 104, 130-41	3.7	37
89	Low speed maneuvering flight of the rose-breasted cockatoo (<i>Eolophus roseicapillus</i>). II. Inertial and aerodynamic reorientation. <i>Journal of Experimental Biology</i> , 2007 , 210, 1912-24	3	37
88	Future directions for the analysis of musculoskeletal design and locomotor performance. <i>Journal of Morphology</i> , 2002 , 252, 38-51	1.6	37
87	Through the eyes of a bird: modelling visually guided obstacle flight. <i>Journal of the Royal Society Interface</i> , 2014 , 11, 20140239	4.1	36
86	Unpredictability of escape trajectory explains predator evasion ability and microhabitat preference of desert rodents. <i>Nature Communications</i> , 2017 , 8, 440	17.4	36
85	Kinematics and power requirements of ascending and descending flight in the pigeon (<i>Columba livia</i>). <i>Journal of Experimental Biology</i> , 2008 , 211, 1120-30	3	34

84	Integration within and between muscles during terrestrial locomotion: effects of incline and speed. <i>Journal of Experimental Biology</i> , 2008 , 211, 2303-16	3	34
83	The aerodynamics of avian take-off from direct pressure measurements in Canada geese (<i>Branta canadensis</i>). <i>Journal of Experimental Biology</i> , 2003 , 206, 4051-6	3	34
82	The mechanics of jumping versus steady hopping in yellow-footed rock wallabies. <i>Journal of Experimental Biology</i> , 2005 , 208, 2741-51	3	34
81	Regional patterns of pectoralis fascicle strain in the pigeon <i>Columba livia</i> during level flight. <i>Journal of Experimental Biology</i> , 2005 , 208, 771-86	3	34
80	Multiple phylogenetically distinct events shaped the evolution of limb skeletal morphologies associated with bipedalism in the jerboas. <i>Current Biology</i> , 2015 , 25, 2785-2794	6.3	33
79	Hummingbird flight stability and control in freestream turbulent winds. <i>Journal of Experimental Biology</i> , 2015 , 218, 1444-52	3	33
78	Dynamics of goat distal hind limb muscle-tendon function in response to locomotor grade. <i>Journal of Experimental Biology</i> , 2009 , 212, 2092-104	3	33
77	In vivo muscle function vs speed. II. Muscle function trotting up an incline. <i>Journal of Experimental Biology</i> , 2005 , 208, 1191-200	3	33
76	Asymmetrical Force Production in the Maneuvering Flight of Pigeons. <i>Auk</i> , 1998 , 115, 916-928	2.1	33
75	The functional morphology of xenarthrous vertebrae in the armadillo <i>Dasypus novemcinctus</i> (Mammalia, Xenarthra). <i>Journal of Morphology</i> , 1992 , 214, 63-81	1.6	32
74	In vivo muscle function vs speed. I. Muscle strain in relation to length change of the muscle-tendon unit. <i>Journal of Experimental Biology</i> , 2005 , 208, 1175-90	3	31
73	Accuracy of gastrocnemius muscles forces in walking and running goats predicted by one-element and two-element Hill-type models. <i>Journal of Biomechanics</i> , 2013 , 46, 2288-95	2.9	29
72	The effect of fast and slow motor unit activation on whole-muscle mechanical performance: the size principle may not pose a mechanical paradox. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2014 , 281, 20140002	4.4	29
71	Modulation of in vivo muscle power output during swimming in the African clawed frog (<i>Xenopus laevis</i>). <i>Journal of Experimental Biology</i> , 2007 , 210, 3147-59	3	29
70	Effects of load carrying on metabolic cost and hindlimb muscle dynamics in guinea fowl (<i>Numida meleagris</i>). <i>Journal of Applied Physiology</i> , 2006 , 101, 1060-9	3.7	29
69	Effects of flight speed upon muscle activity in hummingbirds. <i>Journal of Experimental Biology</i> , 2010 , 213, 2515-23	3	28
68	Functional and architectural complexity within and between muscles: regional variation and intermuscular force transmission. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2011 , 366, 1477-87	5.8	28
67	Validation of Hill-type muscle models in relation to neuromuscular recruitment and force-velocity properties: predicting patterns of in vivo muscle force. <i>Integrative and Comparative Biology</i> , 2014 , 54, 1072-83	2.8	27

66	Exercise and reduced muscle mass in starlings. <i>Nature</i> , 2000 , 406, 585-6	50.4	27
65	BigDog-inspired studies in the locomotion of goats and dogs. <i>Integrative and Comparative Biology</i> , 2011 , 51, 190-202	2.8	26
64	Directional differences in the biaxial material properties of fascia lata and the implications for fascia function. <i>Annals of Biomedical Engineering</i> , 2014 , 42, 1224-37	4.7	25
63	Hummingbird flight. <i>Current Biology</i> , 2012 , 22, R472-7	6.3	25
62	Muscle function during takeoff and landing flight in the pigeon (<i>Columba livia</i>). <i>Journal of Experimental Biology</i> , 2012 , 215, 4104-14	3	25
61	EMG analysis tuned for determining the timing and level of activation in different motor units. <i>Journal of Electromyography and Kinesiology</i> , 2011 , 21, 557-65	2.5	24
60	Young wallabies get a free ride. <i>Nature</i> , 1998 , 395, 653-654	50.4	23
59	Pigeons trade efficiency for stability in response to level of challenge during confined flight. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 3392-6	11.5	22
58	Mechanics of evolutionary digit reduction in fossil horses (Equidae). <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2017 , 284,	4.4	22
57	Modulation of proximal muscle function during level versus incline hopping in tammar wallabies (<i>Macropus eugenii</i>). <i>Journal of Experimental Biology</i> , 2007 , 210, 1255-65	3	22
56	Regulation of respiratory airflow during panting and feeding in the dog. <i>Respiration Physiology</i> , 1985 , 61, 185-95		22
55	In vivo bone strain and ontogenetic growth patterns in relation to life-history strategies and performance in two vertebrate taxa: goats and emu. <i>Physiological and Biochemical Zoology</i> , 2006 , 79, 57-72	2	21
54	A constitutive description of the anisotropic response of the fascia lata. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2014 , 30, 306-23	4.1	20
53	Western and Clark's grebes use novel strategies for running on water. <i>Journal of Experimental Biology</i> , 2015 , 218, 1235-43	3	19
52	Modulation of joint moments and work in the goat hindlimb with locomotor speed and surface grade. <i>Journal of Experimental Biology</i> , 2013 , 216, 2201-12	3	19
51	Recruitment of faster motor units is associated with greater rates of fascicle strain and rapid changes in muscle force during locomotion. <i>Journal of Experimental Biology</i> , 2013 , 216, 198-207	3	19
50	High-speed surface reconstruction of a flying bird using structured light. <i>Journal of Experimental Biology</i> , 2017 , 220, 1956-1961	3	18
49	Evaluation of a bone's in vivo 24-hour loading history for physical exercise compared with background loading. <i>Journal of Orthopaedic Research</i> , 1998 , 16, 29-37	3.8	18

48	Three-dimensional mobility and muscle attachments in the pectoral limb of the Triassic cynodont <i>Massetognathus pascuali</i> (Romer, 1967). <i>Journal of Anatomy</i> , 2018 , 232, 383-406	2.9	17
47	Experimental determination of three-dimensional cervical joint mobility in the avian neck. <i>Frontiers in Zoology</i> , 2017 , 14, 37	2.8	17
46	Comparative hindlimb myology of foot-propelled swimming birds. <i>Journal of Anatomy</i> , 2018 , 232, 105-123	2.9	17
45	Muscle-specific indices to characterise the functional behaviour of human lower-limb muscles during locomotion. <i>Journal of Biomechanics</i> , 2019 , 89, 134-138	2.9	16
44	Optic flow stabilizes flight in ruby-throated hummingbirds. <i>Journal of Experimental Biology</i> , 2016 , 219, 2443-8	3	16
43	Variability in forelimb bone strains during non-steady locomotor activities in goats. <i>Journal of Experimental Biology</i> , 2008 , 211, 1148-62	3	16
42	Foraging at the edge of the world: low-altitude, high-speed manoeuvring in barn swallows. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2016 , 371,	5.8	15
41	The capacity of the human iliotibial band to store elastic energy during running. <i>Journal of Biomechanics</i> , 2015 , 48, 3341-8	2.9	14
40	Pigeons produce aerodynamic torques through changes in wing trajectory during low speed aerial turns. <i>Journal of Experimental Biology</i> , 2015 , 218, 480-90	3	14
39	Differential muscle function between muscle synergists: long and lateral heads of the triceps in jumping and landing goats (<i>Capra hircus</i>). <i>Journal of Applied Physiology</i> , 2008 , 105, 1262-73	3.7	14
38	Rules to fly by: pigeons navigating horizontal obstacles limit steering by selecting gaps most aligned to their flight direction. <i>Interface Focus</i> , 2017 , 7, 20160093	3.9	13
37	Vertical leaping mechanics of the Lesser Egyptian Jerboa reveal specialization for maneuverability rather than elastic energy storage. <i>Frontiers in Zoology</i> , 2017 , 14, 32	2.8	13
36	Scaling of the ankle extensor muscle-tendon units and the biomechanical implications for bipedal hopping locomotion in the post-pouch kangaroo <i>Macropus fuliginosus</i> . <i>Journal of Anatomy</i> , 2017 , 231, 921-930	2.9	11
35	Scaling of the spring in the leg during bouncing gaits of mammals. <i>Integrative and Comparative Biology</i> , 2014 , 54, 1099-108	2.8	11
34	Mono- versus biarticular muscle function in relation to speed and gait changes: in vivo analysis of the goat triceps brachii. <i>Journal of Experimental Biology</i> , 2009 , 212, 3349-60	3	11
33	There is always a trade-off between speed and force in a lever system: comment on McHenry (2010). <i>Biology Letters</i> , 2011 , 7, 878-9; discussion 880-1	3.6	11
32	Experimental Study of Low Speed Turning Flight in Cockatoos and Cockatiels 2007 ,		11
31	Broad similarities in shoulder muscle architecture and organization across two amniotes: implications for reconstructing non-mammalian synapsids. <i>PeerJ</i> , 2020 , 8, e8556	3.1	11

30	Biomechanics and neural control of movement, 20 years later: what have we learned and what has changed?. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2017 , 14, 91	5.3	10
29	Does a two-element muscle model offer advantages when estimating ankle plantar flexor forces during human cycling?. <i>Journal of Biomechanics</i> , 2018 , 68, 6-13	2.9	10
28	Flying between obstacles with an autonomous knife-edge maneuver 2014 ,		10
27	A moving topic: control and dynamics of animal locomotion. <i>Biology Letters</i> , 2010 , 6, 387-8	3.6	9
26	Fatigue alters in vivo function within and between limb muscles during locomotion. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2009 , 276, 1193-7	4.4	9
25	Tuning of feedforward control enables stable muscle force-length dynamics after loss of autogenic proprioceptive feedback. <i>ELife</i> , 2020 , 9,	8.9	9
24	Foot-propelled swimming kinematics and turning strategies in common loons. <i>Journal of Experimental Biology</i> , 2018 , 221,	3	8
23	Mechanics, modulation and modelling: how muscles actuate and control movement. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2011 , 366, 1463-5	5.8	8
22	Pigeons () Follow Their Head during Turning Flight: Head Stabilization Underlies the Visual Control of Flight. <i>Frontiers in Neuroscience</i> , 2017 , 11, 655	5.1	7
21	force-length and activation dynamics of two distal rat hindlimb muscles in relation to gait and grade. <i>Journal of Experimental Biology</i> , 2019 , 222,	3	7
20	The human iliotibial band is specialized for elastic energy storage compared with the chimp fascia lata. <i>Journal of Experimental Biology</i> , 2015 , 218, 2382-93	3	6
19	Effects of Elastic Energy Storage on Muscle Work and Efficiency. <i>Journal of Applied Biomechanics</i> , 1997 , 13, 422-426	1.2	6
18	Metabolic cost underlies task-dependent variations in motor unit recruitment. <i>Journal of the Royal Society Interface</i> , 2018 , 15,	4.1	6
17	The Evolution of a Single Toe in Horses: Causes, Consequences, and the Way Forward. <i>Integrative and Comparative Biology</i> , 2019 , 59, 638-655	2.8	5
16	Effect of muscle stimulation intensity on the heterogeneous function of regions within an architecturally complex muscle. <i>Journal of Applied Physiology</i> , 2021 , 130, 941-951	3.7	5
15	Goats decrease hindlimb stiffness when walking over compliant surfaces. <i>Journal of Experimental Biology</i> , 2019 , 222,	3	4
14	Added mass in rat plantaris muscle causes a reduction in mechanical work. <i>Journal of Experimental Biology</i> , 2020 , 223,	3	4
13	Skeletal Muscle Shape Change in Relation to Varying Force Requirements Across Locomotor Conditions. <i>Frontiers in Physiology</i> , 2020 , 11, 143	4.6	4

12	Post-activation muscle potentiation and its relevance to cyclical behaviours. <i>Biology Letters</i> , 2020 , 16, 20200255	3.6	3
11	Modulation of Flight Muscle Recruitment and Wing Rotation Enables Hummingbirds to Mitigate Aerial Roll Perturbations. <i>Current Biology</i> , 2020 , 30, 187-195.e4	6.3	3
10	The mechanics of horse locomotion: Strains developed in the limb bones at different gaits. <i>Journal of Biomechanics</i> , 1981 , 14, 487	2.9	2
9	Experimental alteration of limb posture in the chicken (<i>Gallus gallus</i>) and its bearing on the use of birds as analogs for dinosaur locomotion 1999 , 240, 237		2
8	Functional morphology of the ankle extensor muscle-tendon units in the springhare <i>Pedetes capensis</i> shows convergent evolution with macropods for bipedal hopping locomotion. <i>Journal of Anatomy</i> , 2020 , 237, 568-578	2.9	1
7	Tired of fatigue? Factors affecting the force-length relationship of muscle. <i>Journal of Applied Physiology</i> , 2006 , 101, 5-6	3.7	1
6	Lower-limb muscle function is influenced by changing mechanical demands in cycling. <i>Journal of Experimental Biology</i> , 2021 , 224,	3	1
5	Task-dependent recruitment across ankle extensor muscles and between mechanical demands is driven by the metabolic cost of muscle contraction. <i>Journal of the Royal Society Interface</i> , 2021 , 18, 20200765	4.7	1
4	Animal Locomotion: Near-Ground Low-Cost Flights. <i>Current Biology</i> , 2018 , 28, R1348-R1349	6.3	1
3	Experimental alteration of limb posture in the chicken (<i>Gallus gallus</i>) and its bearing on the use of birds as analogs for dinosaur locomotion 1999 , 240, 237		1
2	Evolutionary race as predators hunt prey. <i>Nature</i> , 2018 , 554, 176-178	50.4	
1	R. McNeill Alexander (1934-2016). <i>Nature</i> , 2016 , 532, 442	50.4	