Brian R Macintosh

List of Publications by Year
in descending order

53 papers	2,030 citations	293460 24 h-index	286692 43 g-index
53 all docs	53 docs citations	53 times ranked	2135 citing authors

#	Article	IF	Citations
1	Plyometric exercise enhances twitch contractile properties but fails to improve voluntary rate of torque development in highly trained sprint athletes. European Journal of Sport Science, 2022, 22, 857-866.	1.4	0
2	Efficiency of cycling exercise: Quantification, mechanisms, and misunderstandings. Scandinavian Journal of Medicine and Science in Sports, 2022, 32, 951-970.	1.3	12
3	Calcium sensitivity during staircase with sequential incompletely fused contractions. Journal of Muscle Research and Cell Motility, 2021, 42, 59-65.	0.9	4
4	In support of the continued use of the term anaerobic threshold. Journal of Physiology, 2021, 599, 1709-1710.	1.3	2
5	Continuous Jumps Enhance Twitch Peak Torque and Sprint Performance in Highly Trained Sprint Athletes. International Journal of Sports Physiology and Performance, 2021, 16, 565-572.	1.1	6
6	Age-related reductions in the number of serial sarcomeres contribute to shorter fascicle lengths but not elevated passive tension. Journal of Experimental Biology, 2021, 224, .	0.8	7
7	What Is Moderate to Vigorous Exercise Intensity?. Frontiers in Physiology, 2021, 12, 682233.	1.3	41
8	Does postactivation potentiation (PAP) increase voluntary performance?. Applied Physiology, Nutrition and Metabolism, 2020, 45, 349-356.	0.9	24
9	Mechanisms of reduced plantarflexor function in Cerebral palsy: smaller triceps surae moment arm and reduced muscle force. Journal of Biomechanics, 2020, 110, 109959.	0.9	4
10	Forceâ€“frequency relationship during fatiguing contractions of rat medial gastrocnemius muscle. Scientific Reports, 2020, 10, 11575.	1.6	6
11	Additional inâ€series compliance does not affect the length dependence of activation in rat medial gastrocnemius. Experimental Physiology, 2020, 105, 1907-1917.	0.9	4
12	Greater Short-Time Recovery of Peripheral Fatigue After Short- Compared With Long-Duration Time Trial. Frontiers in Physiology, 2020, 11, 399.	1.3	3
13	Fatigue and recovery measured with dynamic properties vs isometric force: effects of exercise intensity. Journal of Experimental Biology, 2019, 222, .	0.8	20
14	A stochastic simulation of skeletal muscle calcium transients in a structurally realistic sarcomere model using MCell. PLoS Computational Biology, 2019, 15, e1006712.	1.5	9
15	The effect of torsional shoe sole stiffness on knee moment and gross efficiency in cycling. Journal of Sports Sciences, 2019, 37, 1457-1463.	1.0	5
16	Role of Ca2+ in changing active force during intermittent submaximal stimulation in intact, single mouse muscle fibers. Pflugers Archiv European Journal of Physiology, 2018, 470, 1243-1254.	1.3	10
17	Theoretical considerations for muscle-energy savings during distance running. Journal of Biomechanics, 2018, 73, 73-79.	0.9	5
18	Force-velocity relationship during isometric and isotonic fatiguing contractions. Journal of Applied Physiology, 2018, 125, 706-714.	1.2	9

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19	Commentaries on Viewpoint: Use aerobic energy expenditure instead of oxygen uptake to quantify exercise intensity and predict endurance performance. Journal of Applied Physiology, 2018, 125, 676-682.	1.2	6
20	Changes in Achilles tendon stiffness and energy cost following a prolonged run in trained distance runners. PLoS ONE, 2018, 13, e0202026.	1.1	15
21	Recent developments in understanding the length dependence of contractile response of skeletal muscle. European Journal of Applied Physiology, 2017, 117, 1059-1071.	1.2	25
22	Nonlocalized postactivation performance enhancement (PAPE) effects in trained athletes: a pilot study. Applied Physiology, Nutrition and Metabolism, 2017, 42, 1122-1125.	0.9	86
23	Running Economy from a Muscle Energetics Perspective. Frontiers in Physiology, 2017, 8, 433.	1.3	93
24	Achilles tendon strain energy in distance running: consider the muscle energy cost. Journal of Applied Physiology, 2015, 118, 193-199.	1.2	45
25	Static Stretching Alters Neuromuscular Function and Pacing Strategy, but Not Performance during a 3-Km Running Time-Trial. PLoS ONE, 2014, 9, e99238.	1.1	21
26	Energy cost of running and Achilles tendon stiffness in man and woman trained runners. Physiological Reports, 2013, 1, e00178.	0.7	36
27	Skeletal muscle fatigue â€“ regulation of excitationâ€“contraction coupling to avoid metabolic catastrophe. Journal of Cell Science, 2012, 125, 2105-14.	1.2	92
28	Should postactivation potentiation be the goal of your warm-up?. Applied Physiology, Nutrition and Metabolism, 2012, 37, 546-550.	0.9	48
29	Reply: The peripheral governor does have the final say in limiting muscular performance¹This paper is a reply to the discussion by de Paula CaraÃ§a Smirmaul and Dantas, published in this issue.. Applied Physiology, Nutrition and Metabolism, 2011, 36, 775-776.	0.9	1
30	A peripheral governor regulates muscle contraction. Applied Physiology, Nutrition and Metabolism, 2011, 36, 1-11.	0.9	37
31	Procedures for Rat in situ Skeletal Muscle Contractile Properties. Journal of Visualized Experiments, 2011, , e3167.	0.2	9
32	Pattern of summation with fatigue and inhibition of calcium release in rat muscle. Muscle and Nerve, 2011, 44, 410-417.	1.0	4
33	Changes in tendon stiffness and running economy in highly trained distance runners. European Journal of Applied Physiology, 2010, 110, 1037-1046.	1.2	108
34	Cellular and Whole Muscle Studies of Activity Dependent Potentiation. Advances in Experimental Medicine and Biology, 2010, 682, 315-342.	0.8	43
35	Economy of running: beyond the measurement of oxygen uptake. Journal of Applied Physiology, 2009, 107, 1918-1922.	1.2	209
36	Potentiation of isometric and isotonic contractions during high-frequency stimulation. Pflugers Archiv European Journal of Physiology, 2008, 456, 449-458.	1.3	26

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37	Staircase but not posttetanic potentiation in rat muscle after spinal cord hemisection. Muscle and Nerve, 2008, 38, 1455-1465.	1.0	11
38	Impact of length during repetitive contractions on fatigue in rat skeletal muscle. Pflugers Archiv European Journal of Physiology, 2007, 455, 359-366.	1.3	6
39	Prediction of summation in incompletely fused tetanic contractions of rat muscle. Journal of Biomechanics, 2007, 40, 1066-1072.	0.9	15
40	The length dependence of muscle active force: considerations for parallel elastic properties. Journal of Applied Physiology, 2005, 98, 1666-1673.	1.2	53
41	Fatigue and optimal conditions for short-term work capacity. European Journal of Applied Physiology, 2004, 92, 369-75.	1.2	20
42	Assessment of peak power and short-term work capacity. European Journal of Applied Physiology, 2003, 88, 572-579.	1.2	34
43	Anaerobic Threshold: The Concept and Methods of Measurement. Applied Physiology, Nutrition, and Metabolism, 2003, 28, 299-323.	1.7	320
44	Role of Calcium Sensitivity Modulation in Skeletal Muscle Performance. Physiology, 2003, 18, 222-225.	1.6	53
45	Length-dependent twitch contractile characteristics of skeletal muscle. Canadian Journal of Physiology and Pharmacology, 2002, 80, 993-1000.	0.7	26
46	What Is Fatigue?. Applied Physiology, Nutrition, and Metabolism, 2002, 27, 42-55.	1.7	114
47	The Lactate Minimum Test for Cycling: Estimation of the Maximal Lactate Steady State. Applied Physiology, Nutrition, and Metabolism, 2002, 27, 232-249.	1.7	63
48	Potentiation of shortening and velocity of shortening during repeated isotonic tetanic contractions in mammalian skeletal muscle. Pflugers Archiv European Journal of Physiology, 2002, 443, 804-812.	1.3	21
49	Force-frequency relationship and potentiation in mammalian skeletal muscle. Journal of Applied Physiology, 2000, 88, 2088-2096.	1.2	83
50	Attenuation of myosin light chain phosphorylation and posttetanic potentiation in atrophied skeletal muscle. Pflugers Archiv European Journal of Physiology, 1997, 434, 848.	1.3	25
51	Myosin light chain phosphorylation during staircase in fatigued skeletal muscle. Pflugers Archiv European Journal of Physiology, 1993, 425, 9-15.	1.3	22
52	Posttetanic potentiation and skeletal muscle fatigue: interactions with caffeine. Canadian Journal of Physiology and Pharmacology, 1987, 65, 260-268.	0.7	64
53	Staircase, fatigue, and caffeine in skeletal muscle in situ. Muscle and Nerve, 1987, 10, 717-722.	1.0	25