Niels rtenblad

List of Publications by Year in Descending Order

85 papers	2,870 citations	31 h-index	51 g-index
95 ext. papers	3,408 ext. citations	4 avg, IF	5.16 L-index

#	Paper	IF	Citations
85	The expression of HSP70 in skeletal muscle is not associated with glycogen availability during recovery following prolonged exercise in elite endurance athletes.. *European Journal of Applied Physiology*, **2022**, 1	3.4	
84	Exercise and Muscle Glycogen Metabolism. *Physiology in Health and Disease*, **2022**, 71-114	0.2	
83	Glycogen supercompensation is due to increased number, not size, of glycogen particles in human skeletal muscle. *Experimental Physiology*, **2021**, 106, 1272-1284	2.4	2
82	Adrenergic agonist salbutamol augments hypertrophy in MHCIIa fibers and sprint mean power output but not muscle force during 11 weeks of resistance training in young men. *Journal of Applied Physiology*, **2021**, 130, 617-626	3.7	3
81	Muscle Glycogen Metabolism and High-Intensity Exercise Performance: A Narrative Review. *Sports Medicine*, **2021**, 51, 1855-1874	10.6	13
80	Muscle metabolism and impaired sprint performance in an elite women's football game. *Scandinavian Journal of Medicine and Science in Sports*, **2021**,	4.6	3
79	Contractile Properties of MHC I and II Fibers From Highly Trained Arm and Leg Muscles of Cross-Country Skiers. *Frontiers in Physiology*, **2021**, 12, 682943	4.6	3
78	Methodological Guidelines Designed to Improve the Quality of Research on Cross-Country Skiing. *Journal of Science in Sport and Exercise*, **2021**, 3, 207-223	1	4
77	Short-term intensified training temporarily impairs mitochondrial respiratory capacity in elite endurance athletes. *Journal of Applied Physiology*, **2021**, 131, 388-400	3.7	1
76	Subcellular localization- and fibre type-dependent utilization of muscle glycogen during heavy resistance exercise in elite power and Olympic weightlifters. *Acta Physiologica*, **2021**, 231, e13561	5.6	8
75	Myocardial subcellular glycogen distribution and sarcoplasmic reticulum Ca handling: effects of ischaemia, reperfusion and ischaemic preconditioning. *Journal of Muscle Research and Cell Motility*, **2021**, 42, 17-31	3.5	1
74	Pharmacological but not physiological GDF15 suppresses feeding and the motivation to exercise. *Nature Communications*, **2021**, 12, 1041	17.4	23
73	Nampt controls skeletal muscle development by maintaining Ca homeostasis and mitochondrial integrity. *Molecular Metabolism*, **2021**, 53, 101271	8.8	7
72	Effects of Acute Exercise and Training on the Sarcoplasmic Reticulum Ca Release and Uptake Rates in Highly Trained Endurance Athletes. *Frontiers in Physiology*, **2020**, 11, 810	4.6	5
71	Skeletal muscle lipid droplets are resynthesized before being coated with perilipin proteins following prolonged exercise in elite male triathletes. *American Journal of Physiology - Endocrinology and Metabolism*, **2020**, 318, E357-E370	6	7
70	The Associations Of Mitochondrial Content And Maximal Oxygen Uptake. *Medicine and Science in Sports and Exercise*, **2020**, 52, 156-157	1.2	
69	Inhibition of glycogenolysis prolongs action potential repriming period and impairs muscle function in rat skeletal muscle. *Journal of Physiology*, **2020**, 598, 789-803	3.9	14

68	Effect of long-term testosterone therapy on molecular regulators of skeletal muscle mass and fibre-type distribution in aging men with subnormal testosterone. *Metabolism: Clinical and Experimental*, **2020**, 112, 154347	12.7	2
67	Molecular markers of skeletal muscle hypertrophy following 10 wk of resistance training in oral contraceptive users and nonusers. *Journal of Applied Physiology*, **2020**, 129, 1355-1364	3.7	5
66	Heterogeneity in subcellular muscle glycogen utilisation during exercise impacts endurance capacity in men. *Journal of Physiology*, **2020**, 598, 4271-4292	3.9	12
65	Comment on: "Changes in Skeletal Muscle Glycogen Content in Professional Soccer Players before and after a Match by a NonInvasive MuscleSound Technology. A Cross Sectional Pilot Study Nutrients 2020, 12(4), 971". *Nutrients*, **2020**, 12,	6.7	2
64	Supplement with whey protein hydrolysate in contrast to carbohydrate supports mitochondrial adaptations in trained runners. *Journal of the International Society of Sports Nutrition*, **2020**, 17, 46	4.5	4
63	Transdermal Estrogen Therapy Improves Gains in Skeletal Muscle Mass After 12 Weeks of Resistance Training in Early Postmenopausal Women. *Frontiers in Physiology*, **2020**, 11, 596130	4.6	4
62	Calcium Fluxes in Work-Related Muscle Disorder: Implications from a Rat Model. *BioMed Research International*, **2019**, 2019, 5040818	3	8
61	Acute Carbohydrate Restriction During Recovery From Prolonged Exercise Enhances Intramuscular Triglyceride Resynthesis. *Medicine and Science in Sports and Exercise*, **2019**, 51, 382-382	1.2	
60	Plasticity in central neural drive with short-term disuse and recovery - effects on muscle strength and influence of aging. *Experimental Gerontology*, **2018**, 106, 145-153	4.5	8
59	High-intensity interval, but not endurance, training induces muscle fiber type-specific subsarcolemmal lipid droplet size reduction in type 2 diabetic patients. *American Journal of Physiology - Endocrinology and Metabolism*, **2018**, 315, E872-E884	6	16
58	The Muscle Fiber Profiles, Mitochondrial Content, and Enzyme Activities of the Exceptionally Well-Trained Arm and Leg Muscles of Elite Cross-Country Skiers. *Frontiers in Physiology*, **2018**, 9, 1031	4.6	39
57	Reliability of maximal mitochondrial oxidative phosphorylation in permeabilized fibers from the vastus lateralis employing high-resolution respirometry. *Physiological Reports*, **2018**, 6, e13611	2.6	14
56	Changes in metabolism but not myocellular signaling by training with CHO-restriction in endurance athletes. *Physiological Reports*, **2018**, 6, e13847	2.6	8
55	Energy system contributions and determinants of performance in sprint cross-country skiing. *Scandinavian Journal of Medicine and Science in Sports*, **2017**, 27, 385-398	4.6	36
54	Reply from Joachim Nielsen, Kasper D. Gejl and Niels Ørtenblad. *Journal of Physiology*, **2017**, 595, 2987-2988	5.9	
53	SPARC Interacts with Actin in Skeletal Muscle in Vitro and in Vivo. *American Journal of Pathology*, **2017**, 187, 457-474	5.8	18
52	Post-exercise recovery of contractile function and endurance in humans and mice is accelerated by heating and slowed by cooling skeletal muscle. *Journal of Physiology*, **2017**, 595, 7413-7426	3.9	44
51	Fundamental constraints in synchronous muscle limit superfast motor control in vertebrates. *ELife*, **2017**, 6,	8.9	20

50	No Superior Adaptations to Carbohydrate Periodization in Elite Endurance Athletes. *Medicine and Science in Sports and Exercise*, **2017**, 49, 2486-2497	1.2	31
49	Pronounced limb and fibre type differences in subcellular lipid droplet content and distribution in elite skiers before and after exhaustive exercise. *Journal of Physiology*, **2017**, 595, 5781-5795	3.9	15
48	Myosin content of single muscle fibers following short-term disuse and active recovery in young and old healthy men. *Experimental Gerontology*, **2017**, 87, 100-107	4.5	13
47	Plasticity in mitochondrial cristae density allows metabolic capacity modulation in human skeletal muscle. *Journal of Physiology*, **2017**, 595, 2839-2847	3.9	90
46	Local depletion of glycogen with supramaximal exercise in human skeletal muscle fibres. *Journal of Physiology*, **2017**, 595, 2809-2821	3.9	25
45	Gross efficiency predicts a 6-min double-poling ergometer performance in recreational cross-country skiers. *Sports Engineering*, **2017**, 20, 329-333	1.4	1
44	High-intensity sprint training inhibits mitochondrial respiration through aconitase inactivation. *FASEB Journal*, **2016**, 30, 417-27	0.9	48
43	Repeated high-intensity exercise modulates Ca(2+) sensitivity of human skeletal muscle fibers. *Scandinavian Journal of Medicine and Science in Sports*, **2016**, 26, 488-97	4.6	20
42	Metabolic Responses and Pacing Strategies during Successive Sprint Skiing Time Trials. *Medicine and Science in Sports and Exercise*, **2016**, 48, 2544-2554	1.2	29
41	Skeletal muscle fiber characteristics and oxidative capacity in hemiparetic stroke survivors. *Muscle and Nerve*, **2016**, 53, 748-54	3.4	12
40	The Physiological Mechanisms of Performance Enhancement with Sprint Interval Training Differ between the Upper and Lower Extremities in Humans. *Frontiers in Physiology*, **2016**, 7, 426	4.6	41
39	No Muscle Is an Island: Integrative Perspectives on Muscle Fatigue. *Medicine and Science in Sports and Exercise*, **2016**, 48, 2281-2293	1.2	14
38	Mechanisms underlying enhancements in muscle force and power output during maximal cycle ergometer exercise induced by chronic β-adrenergic stimulation in men. *Journal of Applied Physiology*, **2015**, 119, 475-86	3.7	28
37	Muscle glycogen and cell function--Location, location, location. *Scandinavian Journal of Medicine and Science in Sports*, **2015**, 25 Suppl 4, 34-40	4.6	29
36	Carbohydrate restricted recovery from long term endurance exercise does not affect gene responses involved in mitochondrial biogenesis in highly trained athletes. *Physiological Reports*, **2015**, 3, e12184	2.6	25
35	A PGC-1α and muscle fibre type-related decrease in markers of mitochondrial oxidative metabolism in skeletal muscle of humans with inherited insulin resistance. *Diabetologia*, **2014**, 57, 1006-15	10.3	25
34	McArdle disease: a unique study model in sports medicine. *Sports Medicine*, **2014**, 44, 1531-44	10.6	21
33	β-adrenergic stimulation enhances Ca2+ release and contractile properties of skeletal muscles, and counteracts exercise-induced reductions in Na+-K+-ATPase Vmax in trained men. *Journal of Physiology*, **2014**, 592, 5445-59	3.9	43

32	Subcellular distribution of glycogen and decreased tetanic Ca2+ in fatigued single intact mouse muscle fibres. *Journal of Physiology*, **2014**, 592, 2003-12	3.9	45
31	Muscle glycogen content modifies SR Ca2+ release rate in elite endurance athletes. *Medicine and Science in Sports and Exercise*, **2014**, 46, 496-505	1.2	55
30	Aging impairs the recovery in mechanical muscle function following 4 days of disuse. *Experimental Gerontology*, **2014**, 52, 1-8	4.5	70
29	Four days of muscle disuse impairs single fiber contractile function in young and old healthy men. *Experimental Gerontology*, **2013**, 48, 154-61	4.5	43
28	Both short intense and prolonged moderate in vitro stimulation reduce the mRNA expression of calcium-regulatory proteins in rat skeletal muscle. *Molecular and Cellular Biochemistry*, **2013**, 373, 171-8	4.2	5
27	Physiological aspects of the subcellular localization of glycogen in skeletal muscle. *Applied Physiology, Nutrition and Metabolism*, **2013**, 38, 91-9	3	26
26	Muscle glycogen stores and fatigue. *Journal of Physiology*, **2013**, 591, 4405-13	3.9	168
25	Transient impairments in single muscle fibre contractile function after prolonged cycling in elite endurance athletes. *Acta Physiologica*, **2013**, 208, 265-73	5.6	10
24	Skeletal muscle glycogen content and particle size of distinct subcellular localizations in the recovery period after a high-level soccer match. *European Journal of Applied Physiology*, **2012**, 112, 3559-67	3.4	21
23	Effects of β-agonists on force during and following anoxia in rat extensor digitorum longus muscle. *Journal of Applied Physiology*, **2012**, 112, 2057-67	3.7	7
22	Role of glycogen availability in sarcoplasmic reticulum Ca2+ kinetics in human skeletal muscle. *Journal of Physiology*, **2011**, 589, 711-25	3.9	128
21	Human skeletal muscle glycogen utilization in exhaustive exercise: role of subcellular localization and fibre type. *Journal of Physiology*, **2011**, 589, 2871-85	3.9	68
20	Effects of ageing on single muscle fibre contractile function following short-term immobilisation. *Journal of Physiology*, **2011**, 589, 4745-57	3.9	59
19	Maximal voluntary contraction force, SR function and glycogen resynthesis during the first 72 h after a high-level competitive soccer game. *European Journal of Applied Physiology*, **2011**, 111, 2987-95	3.4	90
18	Lactate per se improves the excitability of depolarized rat skeletal muscle by reducing the Cl- conductance. *Journal of Physiology*, **2010**, 588, 4785-94	3.9	31
17	Effects of aging on muscle mechanical function and muscle fiber morphology during short-term immobilization and subsequent retraining. *Journal of Applied Physiology*, **2010**, 109, 1628-34	3.7	123
16	Subcellular localization-dependent decrements in skeletal muscle glycogen and mitochondria content following short-term disuse in young and old men. *American Journal of Physiology - Endocrinology and Metabolism*, **2010**, 299, E1053-60	6	38
15	Increased subsarcolemmal lipids in type 2 diabetes: effect of training on localization of lipids, mitochondria, and glycogen in sedentary human skeletal muscle. *American Journal of Physiology - Endocrinology and Metabolism*, **2010**, 298, E706-13	6	116

14	Distinct effects of subcellular glycogen localization on tetanic relaxation time and endurance in mechanically skinned rat skeletal muscle fibres. *Journal of Physiology*, **2009**, 587, 3679-90	3.9	59
13	Effects of aging on human skeletal muscle after immobilization and retraining. *Journal of Applied Physiology*, **2009**, 107, 1172-80	3.7	240
12	Glycolysis in contracting rat skeletal muscle is controlled by factors related to energy state. *Biochemical Journal*, **2009**, 420, 161-8	3.8	17
11	Reduced sarcoplasmic reticulum content of releasable Ca2+ in rat soleus muscle fibres after eccentric contractions. *Acta Physiologica*, **2007**, 191, 217-28	5.6	17
10	Energy conservation attenuates the loss of skeletal muscle excitability during intense contractions. *American Journal of Physiology - Endocrinology and Metabolism*, **2007**, 292, E771-8	6	7
9	Reduced insulin-mediated citrate synthase activity in cultured skeletal muscle cells from patients with type 2 diabetes: evidence for an intrinsic oxidative enzyme defect. *Biochimica Et Biophysica Acta - Molecular Basis of Disease*, **2005**, 1741, 206-14	6.9	66
8	Excitability of the T-tubular system in rat skeletal muscle: roles of K+ and Na+ gradients and Na+-K+ pump activity. *Journal of Physiology*, **2004**, 557, 133-46	3.9	49
7	Reactive oxygen species are important mediators of taurine release from skeletal muscle cells. *American Journal of Physiology - Cell Physiology*, **2003**, 284, C1362-73	5.4	70
6	Rapid Report. *Journal of Physiology*, **2003**, 548, 139-145	3.9	15
5	A novel signalling pathway originating in mitochondria modulates rat skeletal muscle membrane excitability. *Journal of Physiology*, **2003**, 548, 139-45	3.9	35
4	Cellular model for induction of drip loss in meat. *Journal of Agricultural and Food Chemistry*, **2001**, 49, 4876-83	5.7	62
3	Enhanced sarcoplasmic reticulum Ca(2+) release following intermittent sprint training. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2000**, 279, R152-60	3.2	70
2	Impaired sarcoplasmic reticulum Ca(2+) release rate after fatiguing stimulation in rat skeletal muscle. *Journal of Applied Physiology*, **2000**, 89, 210-7	3.7	58
1	Xanthine oxidase in human skeletal muscle following eccentric exercise: a role in inflammation. *Journal of Physiology*, **1997**, 498 (Pt 1), 239-48	3.9	155