Lars Nybo

List of Publications by Year in Descending Order

136 papers	7,919 citations	48 h-index	87 g-index
146 ext. papers	9,238 ext. citations	4.7 avg, IF	6.24 L-index

#	Paper	IF	Citations
136	Predicted and user perceived heat strain using the ClimApp mobile tool for individualized alert and advice. *Climate Risk Management*, **2021**, 34, 100381	4.6	
135	Effects of Weather Parameters on Endurance Running Performance: Discipline Specific Analysis of 1258 Races. *Medicine and Science in Sports and Exercise*, **2021**,	1.2	3
134	Current and projected regional economic impacts of heatwaves in Europe. *Nature Communications*, **2021**, 12, 5807	17.4	5
133	Quantifying the impact of heat on human physical work capacity; part III: the impact of solar radiation varies with air temperature, humidity, and clothing coverage. *International Journal of Biometeorology*, **2021**, 1	3.7	5
132	ClimApp-Integrating Personal Factors with Weather Forecasts for Individualised Warning and Guidance on Thermal Stress. *International Journal of Environmental Research and Public Health*, **2021**, 18,	4.6	1
131	Health vs. wealth: Employer, employee and policy-maker perspectives on occupational heat stress across multiple European industries. *Temperature*, **2021**, 8, 284-301	5.2	11
130	An advanced empirical model for quantifying the impact of heat and climate change on human physical work capacity. *International Journal of Biometeorology*, **2021**, 65, 1215-1229	3.7	16
129	Effect of a Simulated Heat Wave on Physiological Strain and Labour Productivity. *International Journal of Environmental Research and Public Health*, **2021**, 18,	4.6	15
128	Force-velocity-power profiling of maximal effort sprinting, jumping and hip thrusting: Exploring the importance of force orientation specificity for assessing neuromuscular function. *Journal of Sports Sciences*, **2021**, 39, 2115-2122	3.6	0
127	Performance effects of periodized carbohydrate restriction in endurance trained athletes - a systematic review and meta-analysis. *Journal of the International Society of Sports Nutrition*, **2021**, 18, 37	4.5	2
126	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
125	Occupational Heat Stress: Multi-Country Observations and Interventions. *International Journal of Environmental Research and Public Health*, **2021**, 18,	4.6	13
124	The Impacts of Sun Exposure on Worker Physiology and Cognition: Multi-Country Evidence and Interventions. *International Journal of Environmental Research and Public Health*, **2021**, 18,	4.6	11
123	Proposed framework for forecasting heat-effects on motor-cognitive performance in the Summer Olympics. *Temperature*, **2021**, 8, 262-283	5.2	2
122	Distribution of concurrent training sessions does not impact endurance adaptation. *Journal of Science and Medicine in Sport*, **2021**, 24, 291-296	4.4	3
121	Muscle Contractile Characteristics During Exhaustive Dynamic Exercise and Recovery. *Frontiers in Physiology*, **2021**, 12, 660099	4.6	2
120	The HEAT-SHIELD project - Perspectives from an inter-sectoral approach to occupational heat stress. *Journal of Science and Medicine in Sport*, **2021**, 24, 747-755	4.4	8

119	Aerobic fitness as a parameter of importance for labour loss in the heat. *Journal of Science and Medicine in Sport*, **2021**, 24, 824-830	4.4	6
118	Reducing the health effects of hot weather and heat extremes: from personal cooling strategies to green cities. *Lancet, The*, **2021**, 398, 709-724	40	23
117	Hot weather and heat extremes: health risks. *Lancet, The*, **2021**, 398, 698-708	40	48
116	Nutritional optimization for female elite football players-topical review. *Scandinavian Journal of Medicine and Science in Sports*, **2021**,	4.6	3
115	Direct exposure of the head to solar heat radiation impairs motor-cognitive performance. *Scientific Reports*, **2020**, 10, 7812	4.9	22
114	Escalating environmental summer heat exposure□ future threat for the European workforce. *Regional Environmental Change*, **2020**, 20, 1	4.3	20
113	Impact of low-volume concurrent strength training distribution on muscular adaptation. *Journal of Science and Medicine in Sport*, **2020**, 23, 999-1004	4.4	4
112	Cardiovascular and metabolic health effects of team handball training in overweight women: Impact of prior experience. *Scandinavian Journal of Medicine and Science in Sports*, **2020**, 30, 281-294	4.6	7
111	Tramadol Does Not Improve Performance or Impair Motor Function in Trained Cyclists. *Medicine and Science in Sports and Exercise*, **2020**, 52, 1169-1175	1.2	7
110	Leg extension force-velocity imbalance has negative impact on sprint performance in ball-game players. *Sports Biomechanics*, **2020**, 1-14	2.2	1
109	Sustainable solutions to mitigate occupational heat strain - an umbrella review of physiological effects and global health perspectives. *Environmental Health*, **2020**, 19, 95	6	25
108	Muscle Metabolism and Fatigue during Simulated Ice Hockey Match-Play in Elite Players. *Medicine and Science in Sports and Exercise*, **2020**, 52, 2162-2171	1.2	16
107	Prolonged facemask use in the heat worsens dyspnea without compromising motor-cognitive performance. *Temperature*, **2020**, 8, 160-165	5.2	9
106	COVID-19 and thermoregulation-related problems: Practical recommendations. *Temperature*, **2020**, 8, 1-11	5.2	19
105	Interaction between Indoor Occupational Heat Stress and Environmental Temperature Elevations during Heat Waves. *Weather, Climate, and Society*, **2019**, 11, 755-762	2.3	10
104	Heat Stress Perception among Native and Migrant Workers in Italian Industries-Case Studies from the Construction and Agricultural Sectors. *International Journal of Environmental Research and Public Health*, **2019**, 16,	4.6	33
103	Heat Acclimation Does Not Protect Trained Males from Hyperthermia-Induced Impairments in Complex Task Performance. *International Journal of Environmental Research and Public Health*, **2019**, 16,	4.6	8
102	Fanning as an alternative to air conditioning □A sustainable solution for reducing indoor occupational heat stress. *Energy and Buildings*, **2019**, 193, 92-98	7	18

101	An Occupational Heat-Health Warning System for Europe: The HEAT-SHIELD Platform. *International Journal of Environmental Research and Public Health*, **2019**, 16,	4.6	32
100	Overview of Existing Heat-Health Warning Systems in Europe. *International Journal of Environmental Research and Public Health*, **2019**, 16,	4.6	62
99	Hematological Adaptations to Prolonged Heat Acclimation in Endurance-Trained Males. *Frontiers in Physiology*, **2019**, 10, 1379	4.6	17
98	Prolonged Heat Acclimation and Aerobic Performance in Endurance Trained Athletes. *Frontiers in Physiology*, **2019**, 10, 1372	4.6	11
97	Monitoring Muscle Fatigue Progression during Dynamic Exercise. *Medicine and Science in Sports and Exercise*, **2019**, 51, 1498-1505	1.2	6
96	Metformin does not compromise energy status in human skeletal muscle at rest or during acute exercise: A randomised, crossover trial. *Physiological Reports*, **2019**, 7, e14307	2.6	10
95	Cardiovascular, muscular, and skeletal adaptations to recreational team handball training: a randomized controlled trial with young adult untrained men. *European Journal of Applied Physiology*, **2019**, 119, 561-573	3.4	11
94	Cross-Sectional and Longitudinal Examination of Exercise Capacity in Elite Youth Badminton Players. *Journal of Strength and Conditioning Research*, **2018**, 32, 1754-1761	3.2	2
93	Fitness and health benefits of team handball training for young untrained women-A cross-disciplinary RCT on physiological adaptations and motivational aspects. *Journal of Sport and Health Science*, **2018**, 7, 139-148	8.2	24
92	Habitual Heat Exposure and Acclimatization Associated with Athletic Performance in the Multistage Marathon des Sables. *Human Performance in Extreme Environments*, **2018**, 14,	1.3	2
91	WorkersRhealth and productivity under occupational heat strain: a systematic review and meta-analysis. *Lancet Planetary Health, The*, **2018**, 2, e521-e531	9.8	131
90	High prevalence of hypohydration in occupations with heat stress-Perspectives for performance in combined cognitive and motor tasks. *PLoS ONE*, **2018**, 13, e0205321	3.7	44
89	Changes in metabolism but not myocellular signaling by training with CHO-restriction in endurance athletes. *Physiological Reports*, **2018**, 6, e13847	2.6	8
88	Effects of nitrate supplementation in trained and untrained muscle are modest with initial high plasma nitrite levels. *Scandinavian Journal of Medicine and Science in Sports*, **2017**, 27, 1616-1626	4.6	11
87	Erythropoietin on cycling performance. *Lancet Haematology,the*, **2017**, 4, e459-e460	14.6	2
86	Performance in complex motor tasks deteriorates in hyperthermic humans. *Temperature*, **2017**, 4, 420-428	3.2	36
85	No Superior Adaptations to Carbohydrate Periodization in Elite Endurance Athletes. *Medicine and Science in Sports and Exercise*, **2017**, 49, 2486-2497	1.2	31
84	Time-motion analysis as a novel approach for evaluating the impact of environmental heat exposure on labor loss in agriculture workers. *Temperature*, **2017**, 4, 330-340	5.2	51

83	Comprehension of climatic and occupational heat stress amongst agricultural advisers and workers in Slovenia. *Acta Agriculturae Slovenica*, **2017**, 109, 545	1.3	11
82	Muscle variables of importance for physiological performance in competitive football. *European Journal of Applied Physiology*, **2016**, 116, 251-62	3.4	18
81	Rebuttal by Lars Nybo and Carsten Lundby. *Journal of Physiology*, **2016**, 594, 251	3.9	4
80	Testing of Badminton-Specific Endurance. *Journal of Strength and Conditioning Research*, **2016**, 30, 2582-90	3.1	5
79	CrossTalk opposing view: Heat acclimatization does not improve exercise performance in a cool condition. *Journal of Physiology*, **2016**, 594, 245-7	3.9	26
78	Prolonged self-paced exercise in the heat - environmental factors affecting performance. *Temperature*, **2016**, 3, 539-548	5.2	41
77	Impact of adrenaline and metabolic stress on exercise-induced intracellular signaling and PGC-1 mRNA response in human skeletal muscle. *Physiological Reports*, **2016**, 4, e12844	2.6	24
76	Consensus recommendations on training and competing in the heat. *British Journal of Sports Medicine*, **2015**, 49, 1164-73	10.3	90
75	Consensus Recommendations on Training and Competing in the Heat. *Sports Medicine*, **2015**, 45, 925-38	10.6	55
74	Effect of heat and heat acclimatization on cycling time trial performance and pacing. *Medicine and Science in Sports and Exercise*, **2015**, 47, 601-6	1.2	94
73	Author Reply to Brocherie and Millet: Is the Wet-Bulb Globe Temperature (WGBT) Index Relevant for Exercise in the Heat? *Sports Medicine*, **2015**, 45, 1623-4	10.6	5
72	Heat acclimatization does not improve VO2max or cycling performance in a cool climate in trained cyclists. *Scandinavian Journal of Medicine and Science in Sports*, **2015**, 25 Suppl 1, 269-76	4.6	53
71	Time course of natural heat acclimatization in well-trained cyclists during a 2-week training camp in the heat. *Scandinavian Journal of Medicine and Science in Sports*, **2015**, 25 Suppl 1, 240-9	4.6	38
70	Consensus recommendations on training and competing in the heat. *Scandinavian Journal of Medicine and Science in Sports*, **2015**, 25 Suppl 1, 6-19	4.6	107
69	Plantar flexor neuromuscular adjustments following match-play football in hot and cool conditions. *Scandinavian Journal of Medicine and Science in Sports*, **2015**, 25 Suppl 1, 154-63	4.6	11
68	Cerebral Vascular Control and Metabolism in Heat Stress. *Comprehensive Physiology*, **2015**, 5, 1345-80	7.7	55
67	Effectiveness of inquiry-based learning in an undergraduate exercise physiology course. *American Journal of Physiology - Advances in Physiology Education*, **2015**, 39, 76-80	1.9	11
66	Influence of intranasal and carotid cooling on cerebral temperature balance and oxygenation. *Frontiers in Physiology*, **2014**, 5, 79	4.6	12

65	Performance in the heat-physiological factors of importance for hyperthermia-induced fatigue. *Comprehensive Physiology*, **2014**, 4, 657-89	7.7	171
64	Physiological characteristics of an aging Olympic athlete. *Medicine and Science in Sports and Exercise* , **2014**, 46, 2132-8	1.2	11
63	Heat sensitive persons with multiple sclerosis are more tolerant to resistance exercise than to endurance exercise. *Multiple Sclerosis Journal*, **2013**, 19, 932-40	5	23
62	Markers of muscle damage and performance recovery after exercise in the heat. *Medicine and Science in Sports and Exercise*, **2013**, 45, 860-8	1.2	31
61	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
60	Individual responses to short-term heat acclimatisation as predictors of football performance in a hot, dry environment. *British Journal of Sports Medicine*, **2012**, 46, 810-5	10.3	73
59	Brain temperature and exercise performance. *Experimental Physiology*, **2012**, 97, 333-9	2.4	47
58	Pro- and anti-angiogenic factors in human skeletal muscle in response to acute exercise and training. *Journal of Physiology*, **2012**, 590, 595-606	3.9	102
57	Enhanced fatty acid oxidation and FATP4 protein expression after endurance exercise training in human skeletal muscle. *PLoS ONE*, **2012**, 7, e29391	3.7	39
56	Physiological responses and physical performance during football in the heat. *PLoS ONE*, **2012**, 7, e39202	3.7	116
55	Heat acclimatization in semi professional soccer players. *FASEB Journal*, **2012**, 26, 1084.7	0.9	
54	Counterpoint: humans do not demonstrate selective brain cooling during hyperthermia. *Journal of Applied Physiology*, **2011**, 110, 571-3; discussion 581-2	3.7	11
53	Physiological and performance adaptations to an in-season soccer camp in the heat: associations with heart rate and heart rate variability. *Scandinavian Journal of Medicine and Science in Sports*, **2011**, 21, e477-85	4.6	90
52	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
51	VO2 kinetics and performance in soccer players after intense training and inactivity. *Medicine and Science in Sports and Exercise*, **2011**, 43, 1716-24	1.2	57
50	Last Word on Point:Counterpoint: Humans do/do not demonstrate selective brain cooling during hyperthermia. *Journal of Applied Physiology*, **2011**, 110, 582-582	3.7	1
49	Cerebral oxygenation is reduced during hyperthermic exercise in humans. *Acta Physiologica*, **2010**, 199, 63-70	5.6	42
48	Activity profile and physiological response to football training for untrained males and females, elderly and youngsters: influence of the number of players. *Scandinavian Journal of Medicine and Science in Sports*, **2010**, 20 Suppl 1, 14-23	4.6	102

47	Positive performance and health effects of a football training program over 12 weeks can be maintained over a 1-year period with reduced training frequency. *Scandinavian Journal of Medicine and Science in Sports*, **2010**, 20 Suppl 1, 80-9	4.6	101
46	Recreational football as a health promoting activity: a topical review. *Scandinavian Journal of Medicine and Science in Sports*, **2010**, 20 Suppl 1, 1-13	4.6	361
45	Cycling in the heat: performance perspectives and cerebral challenges. *Scandinavian Journal of Medicine and Science in Sports*, **2010**, 20 Suppl 3, 71-9	4.6	46
44	Current knowledge on playing football in hot environments. *Scandinavian Journal of Medicine and Science in Sports*, **2010**, 20 Suppl 3, 161-7	4.6	40
43	CNS fatigue provoked by prolonged exercise in the heat. *Frontiers in Bioscience - Elite*, **2010**, 2, 779-92	1.6	28
42	High-intensity training versus traditional exercise interventions for promoting health. *Medicine and Science in Sports and Exercise*, **2010**, 42, 1951-8	1.2	246
41	Effect of 2-wk intensified training and inactivity on muscle Na+-K+ pump expression, phospholemman (FXYD1) phosphorylation, and performance in soccer players. *Journal of Applied Physiology*, **2010**, 108, 898-905	3.7	79
40	Muscle adaptations and performance enhancements of soccer training for untrained men. *European Journal of Applied Physiology*, **2010**, 108, 1247-58	3.4	88
39	Reduced volume and increased training intensity elevate muscle Na+-K+ pump alpha2-subunit expression as well as short- and long-term work capacity in humans. *Journal of Applied Physiology*, **2009**, 107, 1771-80	3.7	68
38	Adipose triglyceride lipase in human skeletal muscle is upregulated by exercise training. *American Journal of Physiology - Endocrinology and Metabolism*, **2009**, 296, E445-53	6	102
37	Impact of carbohydrate supplementation during endurance training on glycogen storage and performance. *Acta Physiologica*, **2009**, 197, 117-27	5.6	47
36	Recreational soccer is an effective health-promoting activity for untrained men. *British Journal of Sports Medicine*, **2009**, 43, 825-31	10.3	164
35	Hyperthermia and fatigue. *Journal of Applied Physiology*, **2008**, 104, 871-8	3.7	207
34	Reduced volume but increased training intensity elevates muscle Na+-K+ pump alpha1-subunit and NHE1 expression as well as short-term work capacity in humans. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2008**, 294, R966-74	3.2	76
33	Heat shock factor activation in human muscles following a demanding intermittent exercise protocol is attenuated with hyperthermia. *Acta Physiologica*, **2008**, 193, 79-88	5.6	11
32	Effect of two different intense training regimens on skeletal muscle ion transport proteins and fatigue development. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2007**, 292, R1594-602	3.2	140
31	Capillary-oxygenation-level-dependent near-infrared spectrometry in frontal lobe of humans. *Journal of Cerebral Blood Flow and Metabolism*, **2007**, 27, 1082-93	7.3	157
30	Inadequate cerebral oxygen delivery and central fatigue during strenuous exercise. *Exercise and Sport Sciences Reviews*, **2007**, 35, 110-8	6.7	129

29	Exercise and heat stress: cerebral challenges and consequences. *Progress in Brain Research*, **2007**, 162, 29-43	2.9	37
28	The Yo-Yo IR2 test: physiological response, reliability, and application to elite soccer. *Medicine and Science in Sports and Exercise*, **2006**, 38, 1666-73	1.2	235
27	Enhanced cerebral CO2 reactivity during strenuous exercise in man. *European Journal of Applied Physiology*, **2006**, 96, 299-304	3.4	100
26	Environmental heat stress, hyperammonemia and nucleotide metabolism during intermittent exercise. *European Journal of Applied Physiology*, **2006**, 97, 89-95	3.4	27
25	Elevations in core and muscle temperature impairs repeated sprint performance. *Acta Physiologica Scandinavica*, **2005**, 183, 181-90		179
24	Effect of carbohydrate ingestion on brain exchange of amino acids during sustained exercise in human subjects. *Acta Physiologica Scandinavica*, **2005**, 185, 203-9		37
23	Cerebral ammonia uptake and accumulation during prolonged exercise in humans. *Journal of Physiology*, **2005**, 563, 285-90	3.9	70
22	Muscle temperature and sprint performance during soccer matches--beneficial effect of re-warm-up at half-time. *Scandinavian Journal of Medicine and Science in Sports*, **2004**, 14, 156-62	4.6	225
21	Heat induced fatigue and changes of the EEG is not related to reduced perfusion of the brain during prolonged exercise in humans. *Journal of Thermal Biology*, **2004**, 29, 731-737	2.9	40
20	Cerebral perturbations provoked by prolonged exercise. *Progress in Neurobiology*, **2004**, 72, 223-61	10.9	281
19	Exercise induces the release of heat shock protein 72 from the human brain in vivo. *Cell Stress and Chaperones*, **2004**, 9, 276-80	4	77
18	CNS fatigue and prolonged exercise: effect of glucose supplementation. *Medicine and Science in Sports and Exercise*, **2003**, 35, 589-94	1.2	127
17	Neurohumoral responses during prolonged exercise in humans. *Journal of Applied Physiology*, **2003**, 95, 1125-31	3.7	76
16	Minor amounts of plasma medium-chain fatty acids and no improved time trial performance after consuming lipids. *Journal of Applied Physiology*, **2003**, 95, 2434-43	3.7	14
15	Association between fatigue and failure to preserve cerebral energy turnover during prolonged exercise. *Acta Physiologica Scandinavica*, **2003**, 179, 67-74		66
14	Cerebral metabolism is influenced by muscle ischaemia during exercise in humans. *Experimental Physiology*, **2003**, 88, 297-302	2.4	35
13	Cerebral changes during exercise in the heat. *Sports Medicine*, **2003**, 33, 1-11	10.6	136
12	Interleukin-6 release from the human brain during prolonged exercise. *Journal of Physiology*, **2002**, 542, 991-5	3.9	129

11	Inadequate heat release from the human brain during prolonged exercise with hyperthermia. *Journal of Physiology*, **2002**, 545, 697-704	3.9	212
10	Effects of hyperthermia on cerebral blood flow and metabolism during prolonged exercise in humans. *Journal of Applied Physiology*, **2002**, 93, 58-64	3.7	158
9	Middle cerebral artery blood velocity is reduced with hyperthermia during prolonged exercise in humans. *Journal of Physiology*, **2001**, 534, 279-86	3.9	176
8	Hyperthermia and central fatigue during prolonged exercise in humans. *Journal of Applied Physiology*, **2001**, 91, 1055-60	3.7	434
7	Effects of marked hyperthermia with and without dehydration on VO(2) kinetics during intense exercise. *Journal of Applied Physiology*, **2001**, 90, 1057-64	3.7	117
6	Perceived exertion is associated with an altered brain activity during exercise with progressive hyperthermia. *Journal of Applied Physiology*, **2001**, 91, 2017-23	3.7	220
5	The impact of heat on human physical work capacity; part III: the impact of solar radiation varies with air temperature, humidity, and clothing coverage		2
4	Analysis of the dynamic air conditioning loads, fuel consumption and emissions of heavy-duty trucks with different glazing and paint optical properties. *International Journal of Sustainable Transportation*,1-14	3.6	1
3	Indicators to assess physiological heat strain Part 2: Delphi exercise. *Temperature*,1-11	5.2	3
2	Indicators to assess physiological heat strain Part 3: Multi-country field evaluation and consensus recommendations. *Temperature*,1-18	5.2	3
1	Occupational heat strain in outdoor workers: A comprehensive review and meta-analysis. *Temperature*,1-36	5.2	6