

Lars Nybo

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Hyperthermia and central fatigue during prolonged exercise in humans. <i>Journal of Applied Physiology</i> , 2001 , 91, 1055-60	3.7	434
135	Recreational football as a health promoting activity: a topical review. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2010 , 20 Suppl 1, 1-13	4.6	361
134	Cerebral perturbations provoked by prolonged exercise. <i>Progress in Neurobiology</i> , 2004 , 72, 223-61	10.9	281
133	High-intensity training versus traditional exercise interventions for promoting health. <i>Medicine and Science in Sports and Exercise</i> , 2010 , 42, 1951-8	1.2	246
132	The Yo-Yo IR2 test: physiological response, reliability, and application to elite soccer. <i>Medicine and Science in Sports and Exercise</i> , 2006 , 38, 1666-73	1.2	235
131	Muscle temperature and sprint performance during soccer matches--beneficial effect of re-warm-up at half-time. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2004 , 14, 156-62	4.6	225
130	Perceived exertion is associated with an altered brain activity during exercise with progressive hyperthermia. <i>Journal of Applied Physiology</i> , 2001 , 91, 2017-23	3.7	220
129	Inadequate heat release from the human brain during prolonged exercise with hyperthermia. <i>Journal of Physiology</i> , 2002 , 545, 697-704	3.9	212
128	Hyperthermia and fatigue. <i>Journal of Applied Physiology</i> , 2008 , 104, 871-8	3.7	207
127	Elevations in core and muscle temperature impairs repeated sprint performance. <i>Acta Physiologica Scandinavica</i> , 2005 , 183, 181-90		179
126	Middle cerebral artery blood velocity is reduced with hyperthermia during prolonged exercise in humans. <i>Journal of Physiology</i> , 2001 , 534, 279-86	3.9	176
125	Performance in the heat-physiological factors of importance for hyperthermia-induced fatigue. <i>Comprehensive Physiology</i> , 2014 , 4, 657-89	7.7	171
124	Recreational soccer is an effective health-promoting activity for untrained men. <i>British Journal of Sports Medicine</i> , 2009 , 43, 825-31	10.3	164
123	Effects of hyperthermia on cerebral blood flow and metabolism during prolonged exercise in humans. <i>Journal of Applied Physiology</i> , 2002 , 93, 58-64	3.7	158
122	Capillary-oxygenation-level-dependent near-infrared spectrometry in frontal lobe of humans. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2007 , 27, 1082-93	7.3	157
121	Effect of two different intense training regimens on skeletal muscle ion transport proteins and fatigue development. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2007 , 292, R1594-602	3.2	140
120	Cerebral changes during exercise in the heat. <i>Sports Medicine</i> , 2003 , 33, 1-11	10.6	136

119	Workers' health and productivity under occupational heat strain: a systematic review and meta-analysis. <i>Lancet Planetary Health, The</i> , 2018 , 2, e521-e531	9.8	131
118	Inadequate cerebral oxygen delivery and central fatigue during strenuous exercise. <i>Exercise and Sport Sciences Reviews</i> , 2007 , 35, 110-8	6.7	129
117	Interleukin-6 release from the human brain during prolonged exercise. <i>Journal of Physiology</i> , 2002 , 542, 991-5	3.9	129
116	CNS fatigue and prolonged exercise: effect of glucose supplementation. <i>Medicine and Science in Sports and Exercise</i> , 2003 , 35, 589-94	1.2	127
115	Effects of marked hyperthermia with and without dehydration on VO(2) kinetics during intense exercise. <i>Journal of Applied Physiology</i> , 2001 , 90, 1057-64	3.7	117
114	Physiological responses and physical performance during football in the heat. <i>PLoS ONE</i> , 2012 , 7, e39203	3.7	116
113	Consensus recommendations on training and competing in the heat. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2015 , 25 Suppl 1, 6-19	4.6	107
112	Pro- and anti-angiogenic factors in human skeletal muscle in response to acute exercise and training. <i>Journal of Physiology</i> , 2012 , 590, 595-606	3.9	102
111	Activity profile and physiological response to football training for untrained males and females, elderly and youngsters: influence of the number of players. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2010 , 20 Suppl 1, 14-23	4.6	102
110	Adipose triglyceride lipase in human skeletal muscle is upregulated by exercise training. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2009 , 296, E445-53	6	102
109	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. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2010 , 20 Suppl 1, 80-9	4.6	101
108	Enhanced cerebral CO2 reactivity during strenuous exercise in man. <i>European Journal of Applied Physiology</i> , 2006 , 96, 299-304	3.4	100
107	Effect of heat and heat acclimatization on cycling time trial performance and pacing. <i>Medicine and Science in Sports and Exercise</i> , 2015 , 47, 601-6	1.2	94
106	Consensus recommendations on training and competing in the heat. <i>British Journal of Sports Medicine</i> , 2015 , 49, 1164-73	10.3	90
105	Physiological and performance adaptations to an in-season soccer camp in the heat: associations with heart rate and heart rate variability. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2011 , 21, e477-85	4.6	90
104	Maximal voluntary contraction force, SR function and glycogen resynthesis during the first 72 h after a high-level competitive soccer game. <i>European Journal of Applied Physiology</i> , 2011 , 111, 2987-95	3.4	90
103	Muscle adaptations and performance enhancements of soccer training for untrained men. <i>European Journal of Applied Physiology</i> , 2010 , 108, 1247-58	3.4	88
102	Effect of 2-wk intensified training and inactivity on muscle Na ⁺ -K ⁺ pump expression, phospholemman (FX _{1D}) phosphorylation, and performance in soccer players. <i>Journal of Applied Physiology</i> , 2010 , 108, 898-905	3.7	79

101	Exercise induces the release of heat shock protein 72 from the human brain in vivo. <i>Cell Stress and Chaperones</i> , 2004 , 9, 276-80	4	77
100	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. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2008 , 294, R966-74	3.2	76
99	Neurohumoral responses during prolonged exercise in humans. <i>Journal of Applied Physiology</i> , 2003 , 95, 1125-31	3.7	76
98	Individual responses to short-term heat acclimatisation as predictors of football performance in a hot, dry environment. <i>British Journal of Sports Medicine</i> , 2012 , 46, 810-5	10.3	73
97	Cerebral ammonia uptake and accumulation during prolonged exercise in humans. <i>Journal of Physiology</i> , 2005 , 563, 285-90	3.9	70
96	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. <i>Journal of Applied Physiology</i> , 2009 , 107, 1771-80	3.7	68
95	Association between fatigue and failure to preserve cerebral energy turnover during prolonged exercise. <i>Acta Physiologica Scandinavica</i> , 2003 , 179, 67-74		66
94	Overview of Existing Heat-Health Warning Systems in Europe. <i>International Journal of Environmental Research and Public Health</i> , 2019 , 16,	4.6	62
93	VO ₂ kinetics and performance in soccer players after intense training and inactivity. <i>Medicine and Science in Sports and Exercise</i> , 2011 , 43, 1716-24	1.2	57
92	Consensus Recommendations on Training and Competing in the Heat. <i>Sports Medicine</i> , 2015 , 45, 925-38	10.6	55
91	Cerebral Vascular Control and Metabolism in Heat Stress. <i>Comprehensive Physiology</i> , 2015 , 5, 1345-80	7.7	55
90	Heat acclimatization does not improve VO ₂ max or cycling performance in a cool climate in trained cyclists. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2015 , 25 Suppl 1, 269-76	4.6	53
89	Time-motion analysis as a novel approach for evaluating the impact of environmental heat exposure on labor loss in agriculture workers. <i>Temperature</i> , 2017 , 4, 330-340	5.2	51
88	Hot weather and heat extremes: health risks. <i>Lancet, The</i> , 2021 , 398, 698-708	4.0	48
87	Brain temperature and exercise performance. <i>Experimental Physiology</i> , 2012 , 97, 333-9	2.4	47
86	Impact of carbohydrate supplementation during endurance training on glycogen storage and performance. <i>Acta Physiologica</i> , 2009 , 197, 117-27	5.6	47
85	Cycling in the heat: performance perspectives and cerebral challenges. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2010 , 20 Suppl 3, 71-9	4.6	46
84	High prevalence of hypohydration in occupations with heat stress-Perspectives for performance in combined cognitive and motor tasks. <i>PLoS ONE</i> , 2018 , 13, e0205321	3.7	44

83	Cerebral oxygenation is reduced during hyperthermic exercise in humans. <i>Acta Physiologica</i> , 2010 , 199, 63-70	5.6	42
82	Prolonged self-paced exercise in the heat - environmental factors affecting performance. <i>Temperature</i> , 2016 , 3, 539-548	5.2	41
81	Current knowledge on playing football in hot environments. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2010 , 20 Suppl 3, 161-7	4.6	40
80	Heat induced fatigue and changes of the EEG is not related to reduced perfusion of the brain during prolonged exercise in humans. <i>Journal of Thermal Biology</i> , 2004 , 29, 731-737	2.9	40
79	Enhanced fatty acid oxidation and FATP4 protein expression after endurance exercise training in human skeletal muscle. <i>PLoS ONE</i> , 2012 , 7, e29391	3.7	39
78	Time course of natural heat acclimatization in well-trained cyclists during a 2-week training camp in the heat. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2015 , 25 Suppl 1, 240-9	4.6	38
77	Exercise and heat stress: cerebral challenges and consequences. <i>Progress in Brain Research</i> , 2007 , 162, 29-43	2.9	37
76	Effect of carbohydrate ingestion on brain exchange of amino acids during sustained exercise in human subjects. <i>Acta Physiologica Scandinavica</i> , 2005 , 185, 203-9		37
75	Performance in complex motor tasks deteriorates in hyperthermic humans. <i>Temperature</i> , 2017 , 4, 420-428	3.8	36
74	Cerebral metabolism is influenced by muscle ischaemia during exercise in humans. <i>Experimental Physiology</i> , 2003 , 88, 297-302	2.4	35
73	Heat Stress Perception among Native and Migrant Workers in Italian Industries-Case Studies from the Construction and Agricultural Sectors. <i>International Journal of Environmental Research and Public Health</i> , 2019 , 16,	4.6	33
72	An Occupational Heat-Health Warning System for Europe: The HEAT-SHIELD Platform. <i>International Journal of Environmental Research and Public Health</i> , 2019 , 16,	4.6	32
71	No Superior Adaptations to Carbohydrate Periodization in Elite Endurance Athletes. <i>Medicine and Science in Sports and Exercise</i> , 2017 , 49, 2486-2497	1.2	31
70	Markers of muscle damage and performance recovery after exercise in the heat. <i>Medicine and Science in Sports and Exercise</i> , 2013 , 45, 860-8	1.2	31
69	CNS fatigue provoked by prolonged exercise in the heat. <i>Frontiers in Bioscience - Elite</i> , 2010 , 2, 779-92	1.6	28
68	Environmental heat stress, hyperammonemia and nucleotide metabolism during intermittent exercise. <i>European Journal of Applied Physiology</i> , 2006 , 97, 89-95	3.4	27
67	CrossTalk opposing view: Heat acclimatization does not improve exercise performance in a cool condition. <i>Journal of Physiology</i> , 2016 , 594, 245-7	3.9	26
66	Sustainable solutions to mitigate occupational heat strain - an umbrella review of physiological effects and global health perspectives. <i>Environmental Health</i> , 2020 , 19, 95	6	25

65	Fitness and health benefits of team handball training for young untrained women-A cross-disciplinary RCT on physiological adaptations and motivational aspects. <i>Journal of Sport and Health Science</i> , 2018 , 7, 139-148	8.2	24
64	Impact of adrenaline and metabolic stress on exercise-induced intracellular signaling and PGC-1 β mRNA response in human skeletal muscle. <i>Physiological Reports</i> , 2016 , 4, e12844	2.6	24
63	Heat sensitive persons with multiple sclerosis are more tolerant to resistance exercise than to endurance exercise. <i>Multiple Sclerosis Journal</i> , 2013 , 19, 932-40	5	23
62	Reducing the health effects of hot weather and heat extremes: from personal cooling strategies to green cities. <i>Lancet, The</i> , 2021 , 398, 709-724	4.0	23
61	Direct exposure of the head to solar heat radiation impairs motor-cognitive performance. <i>Scientific Reports</i> , 2020 , 10, 7812	4.9	22
60	Skeletal muscle glycogen content and particle size of distinct subcellular localizations in the recovery period after a high-level soccer match. <i>European Journal of Applied Physiology</i> , 2012 , 112, 3559-367	3.7	21
59	Escalating environmental summer heat exposure – future threat for the European workforce. <i>Regional Environmental Change</i> , 2020 , 20, 1	4.3	20
58	COVID-19 and thermoregulation-related problems: Practical recommendations. <i>Temperature</i> , 2020 , 8, 1-11	5.2	19
57	Muscle variables of importance for physiological performance in competitive football. <i>European Journal of Applied Physiology</i> , 2016 , 116, 251-62	3.4	18
56	Fanning as an alternative to air conditioning – a sustainable solution for reducing indoor occupational heat stress. <i>Energy and Buildings</i> , 2019 , 193, 92-98	7	18
55	Hematological Adaptations to Prolonged Heat Acclimation in Endurance-Trained Males. <i>Frontiers in Physiology</i> , 2019 , 10, 1379	4.6	17
54	Muscle Metabolism and Fatigue during Simulated Ice Hockey Match-Play in Elite Players. <i>Medicine and Science in Sports and Exercise</i> , 2020 , 52, 2162-2171	1.2	16
53	An advanced empirical model for quantifying the impact of heat and climate change on human physical work capacity. <i>International Journal of Biometeorology</i> , 2021 , 65, 1215-1229	3.7	16
52	Effect of a Simulated Heat Wave on Physiological Strain and Labour Productivity. <i>International Journal of Environmental Research and Public Health</i> , 2021 , 18,	4.6	15
51	Minor amounts of plasma medium-chain fatty acids and no improved time trial performance after consuming lipids. <i>Journal of Applied Physiology</i> , 2003 , 95, 2434-43	3.7	14
50	Occupational Heat Stress: Multi-Country Observations and Interventions. <i>International Journal of Environmental Research and Public Health</i> , 2021 , 18,	4.6	13
49	Influence of intranasal and carotid cooling on cerebral temperature balance and oxygenation. <i>Frontiers in Physiology</i> , 2014 , 5, 79	4.6	12
48	Effects of nitrate supplementation in trained and untrained muscle are modest with initial high plasma nitrite levels. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2017 , 27, 1616-1626	4.6	11

47	Prolonged Heat Acclimation and Aerobic Performance in Endurance Trained Athletes. <i>Frontiers in Physiology</i> , 2019 , 10, 1372	4.6	11
46	Plantar flexor neuromuscular adjustments following match-play football in hot and cool conditions. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2015 , 25 Suppl 1, 154-63	4.6	11
45	Effectiveness of inquiry-based learning in an undergraduate exercise physiology course. <i>American Journal of Physiology - Advances in Physiology Education</i> , 2015 , 39, 76-80	1.9	11
44	Physiological characteristics of an aging Olympic athlete. <i>Medicine and Science in Sports and Exercise</i> , 2014 , 46, 2132-8	1.2	11
43	Counterpoint: humans do not demonstrate selective brain cooling during hyperthermia. <i>Journal of Applied Physiology</i> , 2011 , 110, 571-3; discussion 581-2	3.7	11
42	Heat shock factor activation in human muscles following a demanding intermittent exercise protocol is attenuated with hyperthermia. <i>Acta Physiologica</i> , 2008 , 193, 79-88	5.6	11
41	Comprehension of climatic and occupational heat stress amongst agricultural advisers and workers in Slovenia. <i>Acta Agriculturae Slovenica</i> , 2017 , 109, 545	1.3	11
40	Health vs. wealth: Employer, employee and policy-maker perspectives on occupational heat stress across multiple European industries. <i>Temperature</i> , 2021 , 8, 284-301	5.2	11
39	The Impacts of Sun Exposure on Worker Physiology and Cognition: Multi-Country Evidence and Interventions. <i>International Journal of Environmental Research and Public Health</i> , 2021 , 18,	4.6	11
38	Cardiovascular, muscular, and skeletal adaptations to recreational team handball training: a randomized controlled trial with young adult untrained men. <i>European Journal of Applied Physiology</i> , 2019 , 119, 561-573	3.4	11
37	Interaction between Indoor Occupational Heat Stress and Environmental Temperature Elevations during Heat Waves. <i>Weather, Climate, and Society</i> , 2019 , 11, 755-762	2.3	10
36	Metformin does not compromise energy status in human skeletal muscle at rest or during acute exercise: A randomised, crossover trial. <i>Physiological Reports</i> , 2019 , 7, e14307	2.6	10
35	Prolonged facemask use in the heat worsens dyspnea without compromising motor-cognitive performance. <i>Temperature</i> , 2020 , 8, 160-165	5.2	9
34	Heat Acclimation Does Not Protect Trained Males from Hyperthermia-Induced Impairments in Complex Task Performance. <i>International Journal of Environmental Research and Public Health</i> , 2019 , 16,	4.6	8
33	Changes in metabolism but not myocellular signaling by training with CHO-restriction in endurance athletes. <i>Physiological Reports</i> , 2018 , 6, e13847	2.6	8
32	The HEAT-SHIELD project - Perspectives from an inter-sectoral approach to occupational heat stress. <i>Journal of Science and Medicine in Sport</i> , 2021 , 24, 747-755	4.4	8
31	Cardiovascular and metabolic health effects of team handball training in overweight women: Impact of prior experience. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2020 , 30, 281-294	4.6	7
30	Tramadol Does Not Improve Performance or Impair Motor Function in Trained Cyclists. <i>Medicine and Science in Sports and Exercise</i> , 2020 , 52, 1169-1175	1.2	7

29	Monitoring Muscle Fatigue Progression during Dynamic Exercise. <i>Medicine and Science in Sports and Exercise</i> , 2019 , 51, 1498-1505	1.2	6
28	Aerobic fitness as a parameter of importance for labour loss in the heat. <i>Journal of Science and Medicine in Sport</i> , 2021 , 24, 824-830	4.4	6
27	Occupational heat strain in outdoor workers: A comprehensive review and meta-analysis. <i>Temperature</i> , 1-36	5.2	6
26	Author's Reply to Brocherie and Millet: Is the Wet-Bulb Globe Temperature (WBGT) Index Relevant for Exercise in the Heat? <i>Sports Medicine</i> , 2015 , 45, 1623-4	10.6	5
25	Current and projected regional economic impacts of heatwaves in Europe. <i>Nature Communications</i> , 2021 , 12, 5807	17.4	5
24	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. <i>International Journal of Biometeorology</i> , 2021 , 1	3.7	5
23	Testing of Badminton-Specific Endurance. <i>Journal of Strength and Conditioning Research</i> , 2016 , 30, 2582-90	3.0	5
22	Impact of low-volume concurrent strength training distribution on muscular adaptation. <i>Journal of Science and Medicine in Sport</i> , 2020 , 23, 999-1004	4.4	4
21	Rebuttal by Lars Nybo and Carsten Lundby. <i>Journal of Physiology</i> , 2016 , 594, 251	3.9	4
20	Effects of Weather Parameters on Endurance Running Performance: Discipline Specific Analysis of 1258 Races. <i>Medicine and Science in Sports and Exercise</i> , 2021 ,	1.2	3
19	Muscle metabolism and impaired sprint performance in an elite women's football game. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2021 ,	4.6	3
18	Distribution of concurrent training sessions does not impact endurance adaptation. <i>Journal of Science and Medicine in Sport</i> , 2021 , 24, 291-296	4.4	3
17	Indicators to assess physiological heat strain [Part 2: Delphi exercise. <i>Temperature</i> , 1-11	5.2	3
16	Indicators to assess physiological heat strain [Part 3: Multi-country field evaluation and consensus recommendations. <i>Temperature</i> , 1-18	5.2	3
15	Nutritional optimization for female elite football players-topical review. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2021 ,	4.6	3
14	Erythropoietin on cycling performance. <i>Lancet Haematology</i> , 2017 , 4, e459-e460	14.6	2
13	Cross-Sectional and Longitudinal Examination of Exercise Capacity in Elite Youth Badminton Players. <i>Journal of Strength and Conditioning Research</i> , 2018 , 32, 1754-1761	3.2	2
12	Habitual Heat Exposure and Acclimatization Associated with Athletic Performance in the Multistage Marathon des Sables. <i>Human Performance in Extreme Environments</i> , 2018 , 14,	1.3	2

11	Performance effects of periodized carbohydrate restriction in endurance trained athletes - a systematic review and meta-analysis. <i>Journal of the International Society of Sports Nutrition</i> , 2021 , 18, 37	4.5	2
10	Proposed framework for forecasting heat-effects on motor-cognitive performance in the Summer Olympics. <i>Temperature</i> , 2021 , 8, 262-283	5.2	2
9	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
8	Muscle Contractile Characteristics During Exhaustive Dynamic Exercise and Recovery. <i>Frontiers in Physiology</i> , 2021 , 12, 660099	4.6	2
7	ClimApp-Integrating Personal Factors with Weather Forecasts for Individualised Warning and Guidance on Thermal Stress. <i>International Journal of Environmental Research and Public Health</i> , 2021 , 18,	4.6	1
6	Last Word on Point:Counterpoint: Humans do/do not demonstrate selective brain cooling during hyperthermia. <i>Journal of Applied Physiology</i> , 2011 , 110, 582-582	3.7	1
5	Leg extension force-velocity imbalance has negative impact on sprint performance in ball-game players. <i>Sports Biomechanics</i> , 2020 , 1-14	2.2	1
4	Analysis of the dynamic air conditioning loads, fuel consumption and emissions of heavy-duty trucks with different glazing and paint optical properties. <i>International Journal of Sustainable Transportation</i> ,1-14	3.6	1
3	Force-velocity-power profiling of maximal effort sprinting, jumping and hip thrusting: Exploring the importance of force orientation specificity for assessing neuromuscular function. <i>Journal of Sports Sciences</i> , 2021 , 39, 2115-2122	3.6	0
2	Predicted and user perceived heat strain using the ClimApp mobile tool for individualized alert and advice. <i>Climate Risk Management</i> , 2021 , 34, 100381	4.6	
1	Heat acclimatization in semi professional soccer players. <i>FASEB Journal</i> , 2012 , 26, 1084.7	0.9	