

# Nikolai Baastrup Nordsborg

## List of Publications by Year in descending order

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97  
papers

2,733  
citations

218381

26  
h-index

205818

48  
g-index

98  
all docs

98  
docs citations

98  
times ranked

3791  
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantitative maps of protein phosphorylation sites across 14 different rat organs and tissues. <i>Nature Communications</i> , 2012, 3, 876.	5.8	307
2	Gene expression in human skeletal muscle: alternative normalization method and effect of repeated biopsies. <i>European Journal of Applied Physiology</i> , 2005, 95, 351-360.	1.2	155
3	K <sup>+</sup> -dependent paradoxical membrane depolarization and Na <sup>+</sup> overload, major and reversible contributors to weakness by ion channel leaks. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 4036-4041.	3.3	150
4	“Live high” train low” using normobaric hypoxia: a double-blinded, placebo-controlled study. <i>Journal of Applied Physiology</i> , 2012, 112, 106-117.	1.2	133
5	Muscle interstitial potassium kinetics during intense exhaustive exercise: effect of previous arm exercise. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2003, 285, R143-R148.	0.9	117
6	Reduced volume but increased training intensity elevates muscle Na <sup>+</sup> -K <sup>+</sup> pump $\beta$ -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-R974.	0.9	97
7	Central and Peripheral Blood Flow During Exercise With a Continuous-Flow Left Ventricular Assist Device. <i>Circulation: Heart Failure</i> , 2011, 4, 554-560.	1.6	94
8	Relative Workload Determines Exercise-Induced Increases in PGC-1 $\beta$ mRNA. <i>Medicine and Science in Sports and Exercise</i> , 2010, 42, 1477-1484.	0.2	74
9	Glucocorticoids enhance muscle endurance and ameliorate Duchenne muscular dystrophy through a defined metabolic program. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E6780-9.	3.3	71
10	Caffeine and Bicarbonate for Speed. A Meta-Analysis of Legal Supplements Potential for Improving Intense Endurance Exercise Performance. <i>Frontiers in Physiology</i> , 2017, 8, 240.	1.3	68
11	Phlebotomy eliminates the maximal cardiac output response to six weeks of exercise training. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2014, 306, R752-R760.	0.9	63
12	Potassium kinetics in human muscle interstitium during repeated intense exercise in relation to fatigue. <i>Pflügers Archiv European Journal of Physiology</i> , 2004, 448, 452-6.	1.3	60
13	High-Intensity Intermittent Swimming Improves Cardiovascular Health Status for Women with Mild Hypertension. <i>BioMed Research International</i> , 2014, 2014, 1-9.	0.9	57
14	Lactate oxidation in human skeletal muscle mitochondria. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2013, 304, E686-E694.	1.8	55
15	“Live High” Train High” increases hemoglobin mass in Olympic swimmers. <i>European Journal of Applied Physiology</i> , 2014, 114, 1439-1449.	1.2	44
16	Effect of high-intensity training on exercise-induced gene expression specific to ion homeostasis and metabolism. <i>Journal of Applied Physiology</i> , 2003, 95, 1201-1206.	1.2	43
17	Skeletal muscle and performance adaptations to high-intensity training in elite male soccer players: speed endurance runs versus small-sided game training. <i>European Journal of Applied Physiology</i> , 2018, 118, 111-121.	1.2	43
18	Futsal Match-Related Fatigue Affects Running Performance and Neuromuscular Parameters but Not Finishing Kick Speed or Accuracy. <i>Frontiers in Physiology</i> , 2016, 7, 518.	1.3	40

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19	Effect of dexamethasone on skeletal muscle Na <sup>+</sup> ,K <sup>+</sup> pump subunit specific expression and K <sup>+</sup> homeostasis during exercise in humans. <i>Journal of Physiology</i> , 2008, 586, 1447-1459.	1.3	39
20	The role of haemoglobin mass on VO <sub>2</sub> max following normobaric "live high" train low™ in endurance-trained athletes. <i>British Journal of Sports Medicine</i> , 2012, 46, 822-827.	3.1	36
21	Adenosine A2B receptors modulate cAMP levels and induce CREB but not ERK1/2 and p38 phosphorylation in rat skeletal muscle cells. <i>Biochemical and Biophysical Research Communications</i> , 2003, 307, 180-187.	1.0	33
22	Time Trial Performance Is Sensitive to Low-Volume Autologous Blood Transfusion. <i>Medicine and Science in Sports and Exercise</i> , 2019, 51, 692-700.	0.2	30
23	Dexamethasone up-regulates skeletal muscle maximal Na <sup>+</sup> ,K <sup>+</sup> pump activity by muscle group specific mechanisms in humans. <i>Journal of Physiology</i> , 2005, 567, 583-589.	1.3	29
24	Contraction-induced increases in Na <sup>+</sup> -K <sup>+</sup> -ATPase mRNA levels in human skeletal muscle are not amplified by activation of additional muscle mass. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2005, 289, R84-R91.	0.9	29
25	Glucocorticoids improve high-intensity exercise performance in humans. <i>European Journal of Applied Physiology</i> , 2014, 114, 419-424.	1.2	29
26	Altitude training causes haematological fluctuations with relevance for the Athlete Biological Passport. <i>Drug Testing and Analysis</i> , 2015, 7, 655-662.	1.6	29
27	Hypoxia compounds exercise-induced free radical formation in humans; partitioning contributions from the cerebral and femoral circulation. <i>Free Radical Biology and Medicine</i> , 2018, 124, 104-113.	1.3	29
28	Hemodynamic Stress Echocardiography in Patients Supported With a Continuous-Flow Left Ventricular Assist Device. <i>JACC: Cardiovascular Imaging</i> , 2010, 3, 854-859.	2.3	28
29	Effects of 12 Weeks High-Intensity & Reduced-Volume Training in Elite Athletes. <i>PLoS ONE</i> , 2014, 9, e95025.	1.1	28
30	Relationship between performance at different exercise intensities and skeletal muscle characteristics. <i>Journal of Applied Physiology</i> , 2011, 110, 1555-1563.	1.2	26
31	Oxidative capacity and glycogen content increase more in arm than leg muscle in sedentary women after intense training. <i>Journal of Applied Physiology</i> , 2015, 119, 116-123.	1.2	26
32	Low-volume high-intensity swim training is superior to high-volume low-intensity training in relation to insulin sensitivity and glucose control in inactive middle-aged women. <i>European Journal of Applied Physiology</i> , 2016, 116, 1889-1897.	1.2	26
33	No pain, just gain: Painless, easy, and fast dried blood spot collection from fingertip and upper arm in doping control. <i>Drug Testing and Analysis</i> , 2021, 13, 1783-1790.	1.6	26
34	Exercise-induced increase in maximal in vitro Na-K-ATPase activity in human skeletal muscle. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2013, 304, R1161-R1165.	0.9	25
35	Autologous Blood Transfusion Enhances Exercise Performance—Strength of the Evidence and Physiological Mechanisms. <i>Sports Medicine - Open</i> , 2019, 5, 30.	1.3	25
36	High-intensity high-volume swimming induces more robust signaling through PGC-1 $\beta$ and AMPK activation than sprint interval swimming in m. triceps brachii. <i>PLoS ONE</i> , 2017, 12, e0185494.	1.1	25

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37	Plasma volume reduction and hematological fluctuations in high-level athletes after an increased training load. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2017, 27, 1605-1615.	1.3	24
38	Human muscular mitochondrial fusion in athletes during exercise. <i>FASEB Journal</i> , 2019, 33, 12087-12098.	0.2	24
39	Fast-Twitch Glycolytic Skeletal Muscle Is Predisposed to Age-Induced Impairments in Mitochondrial Function. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2013, 68, 1010-1022.	1.7	23
40	Protein kinase C $\delta$ activity is important for contraction-induced FXD1 phosphorylation in skeletal muscle. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2011, 301, R1808-R1814.	0.9	21
41	Detection of erythropoietin misuse by the Athlete Biological Passport combined with reticulocyte percentage. <i>Drug Testing and Analysis</i> , 2016, 8, 1049-1055.	1.6	21
42	Beta <sub>2</sub> -adrenergic agonist clenbuterol increases energy expenditure and fat oxidation, and induces mTOR phosphorylation in skeletal muscle of young healthy men. <i>Drug Testing and Analysis</i> , 2020, 12, 610-618.	1.6	20
43	Stability and detectability of testosterone esters in dried blood spots after intramuscular injections. <i>Drug Testing and Analysis</i> , 2022, 14, 1926-1937.	1.6	19
44	EpoR stimulates rapid cycling and larger red cells during mouse and human erythropoiesis. <i>Nature Communications</i> , 2021, 12, 7334.	5.8	18
45	Physiological Characteristics of an Aging Olympic Athlete. <i>Medicine and Science in Sports and Exercise</i> , 2014, 46, 2132-2138.	0.2	17
46	The impact of exercise training complementary to early intervention in patients with first-episode psychosis: a qualitative sub-study from a randomized controlled feasibility trial. <i>BMC Psychiatry</i> , 2019, 19, 192.	1.1	17
47	Adaptations to Short, Frequent Sessions of Endurance and Strength Training Are Similar to Longer, Less Frequent Exercise Sessions When the Total Volume Is the Same. <i>Journal of Strength and Conditioning Research</i> , 2015, 29, S46-S51.	1.0	16
48	Single-dose administration of clenbuterol is detectable in dried blood spots. <i>Drug Testing and Analysis</i> , 2020, 12, 1366-1372.	1.6	16
49	Exercise-induced regulation of muscular Na <sup>+</sup> -K <sup>+</sup> pump, FXD1, and NHE1 mRNA and protein expression: importance of training status, intensity, and muscle type. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2011, 300, R1209-R1220.	0.9	14
50	Effect of acute hypobaric hypoxia on the endothelial glycocalyx and digital reactive hyperemia in humans. <i>Frontiers in Physiology</i> , 2014, 5, 459.	1.3	14
51	Endurance, aerobic high-intensity, and repeated sprint cycling performance is unaffected by normobaric "Live High-Train Low" a double-blind placebo-controlled cross-over study. <i>European Journal of Applied Physiology</i> , 2017, 117, 979-988.	1.2	14
52	Oxygen conserving mitochondrial adaptations in the skeletal muscles of breath hold divers. <i>PLoS ONE</i> , 2018, 13, e0201401.	1.1	13
53	Changes in blood parameters after intramuscular testosterone ester injections " Implications for anti-doping. <i>Drug Testing and Analysis</i> , 2020, 12, 1019-1030.	1.6	13
54	Hepcidin and Erythroferrone Complement the Athlete Biological Passport in the Detection of Autologous Blood Transfusion. <i>Medicine and Science in Sports and Exercise</i> , 2022, 54, 1604-1616.	0.2	13

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55	Brain and skin do not contribute to the systemic rise in erythropoietin during acute hypoxia in humans. <i>FASEB Journal</i> , 2012, 26, 1831-1834.	0.2	12
56	Specificity of "Live High-Train Low" Altitude Training on Exercise Performance. <i>Exercise and Sport Sciences Reviews</i> , 2018, 46, 129-136.	1.6	12
57	Physiological determinants of elite mountain bike cross-country Olympic performance. <i>Journal of Sports Sciences</i> , 2019, 37, 1154-1161.	1.0	12
58	Immature reticulocytes are sensitive and specific to low-dose erythropoietin treatment at sea level and altitude. <i>Drug Testing and Analysis</i> , 2021, 13, 1331-1340.	1.6	12
59	Purinergic Effects on Na,K-ATPase Activity Differ in Rat and Human Skeletal Muscle. <i>PLoS ONE</i> , 2014, 9, e91175.	1.1	12
60	Monitoring Muscle Fatigue Progression during Dynamic Exercise. <i>Medicine and Science in Sports and Exercise</i> , 2019, 51, 1498-1505.	0.2	10
61	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.	0.2	10
62	Hematological adaptations and detection of recombinant human erythropoietin combined with chronic hypoxia. <i>Drug Testing and Analysis</i> , 2021, 13, 360-368.	1.6	10
63	An Untargeted Urine Metabolomics Approach for Autologous Blood Transfusion Detection. <i>Medicine and Science in Sports and Exercise</i> , 2021, 53, 236-243.	0.2	10
64	Muscle ion transporters and antioxidative proteins have different adaptive potential in arm than in leg skeletal muscle with exercise training. <i>Physiological Reports</i> , 2017, 5, e13470.	0.7	9
65	Effects of altitude and recombinant human erythropoietin on iron metabolism: a randomized controlled trial. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2021, 321, R152-R161.	0.9	9
66	Effect of angiotensin-converting enzyme inhibition on cardiovascular adaptation to exercise training. <i>Physiological Reports</i> , 2022, 10, .	0.7	9
67	Reproducibility of the CO rebreathing technique with a lower CO dose and a shorter rebreathing duration at sea level and at 2320 m of altitude. <i>Scandinavian Journal of Clinical and Laboratory Investigation</i> , 2020, 80, 590-599.	0.6	8
68	Thigh oxygen uptake at the onset of intense exercise is not affected by a reduction in oxygen delivery caused by hypoxia. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2012, 303, R843-R849.	0.9	7
69	High intensity and reduced volume training attenuates stress and recovery levels in elite swimmers. <i>European Journal of Sport Science</i> , 2016, 16, 344-349.	1.4	7
70	An Intramuscular Injection of Mixed Testosterone Esters Does Not Acutely Enhance Strength and Power in Recreationally Active Young Men. <i>Frontiers in Physiology</i> , 2020, 11, 563620.	1.3	7
71	Distribution of concurrent training sessions does not impact endurance adaptation. <i>Journal of Science and Medicine in Sport</i> , 2021, 24, 291-296.	0.6	7
72	Cerebral lactate uptake during exercise is driven by the increased arterial lactate concentration. <i>Journal of Applied Physiology</i> , 2021, 131, 1824-1830.	1.2	7

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73	Repeated Wingate sprints is a feasible high-quality training strategy in moderate hypoxia. PLoS ONE, 2020, 15, e0242439.	1.1	6
74	Changes in human muscle oxygen saturation and mean fiber conduction velocity during intense dynamic exercise—effect of muscular training status. Muscle and Nerve, 2012, 46, 746-754.	1.0	5
75	Impact of low-volume concurrent strength training distribution on muscular adaptation. Journal of Science and Medicine in Sport, 2020, 23, 999-1004.	0.6	5
76	Human muscle net K <sup>+</sup> release during exercise is unaffected by elevated anaerobic metabolism, but reduced after prolonged acclimatization to 4,100 m. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2010, 299, R306-R313.	0.9	4
77	Supplementing a normal diet with protein yields a moderate improvement in the robust gains in muscle mass and strength induced by resistance training in older individuals. American Journal of Clinical Nutrition, 2017, 106, 971-972.	2.2	4
78	Does intermittent exposure to high altitude increase the risk of cardiovascular disease in workers? A systematic narrative review. BMJ Open, 2020, 10, e041532.	0.8	4
79	Oxygen Uptake During Activities of Daily Life in Patients Treated With a Left Ventricular Assist Device. Journal of Heart and Lung Transplantation, 2022, 41, 982-990.	0.3	4
80	Analysis of dried blood spots is a feasible alternative for detecting ephedrine in doping control. Drug Testing and Analysis, 2022, 14, 1685-1695.	1.6	4
81	Muscle Contractile Characteristics During Exhaustive Dynamic Exercise and Recovery. Frontiers in Physiology, 2021, 12, 660099.	1.3	3
82	Exercise training complementary to specialised early intervention in patients with first-episode psychosis: a feasibility randomised trial. Pilot and Feasibility Studies, 2021, 7, 162.	0.5	3
83	Hiking strap force decreases during sustained upwind sailing. European Journal of Sport Science, 2017, 17, 393-399.	1.4	2
84	Erythropoietin on cycling performance. Lancet Haematology, 2017, 4, e459-e460.	2.2	2
85	Response. Medicine and Science in Sports and Exercise, 2019, 51, 1569-1569.	0.2	2
86	The central blood volume as measured by thoracic electrical impedance and plasma proANP is not compromised by donation of 900 mL of blood in men. Transfusion Medicine, 2020, 30, 450-455.	0.5	2
87	Improved metabolic fitness, but no cardiovascular health effects, of a low-frequency short-term combined exercise programme in 50–70-year-olds with low fitness: A randomized controlled trial. European Journal of Sport Science, 2022, 22, 460-473.	1.4	2
88	Directly measured aerobic fitness in male Maasai of Tanzania. American Journal of Human Biology, 2022, 34, e23674.	0.8	2
89	Hypoxic dose, intensity distribution, and fatigue monitoring are paramount for elite high-train low-altitude living high-train low-altitude. European Journal of Applied Physiology, 2017, 117, 2121-2122.	1.2	1
90	Does intermittent exposure to high altitude increase the risk of cardiovascular disease in workers? A systematic narrative review. BMJ Open, 2020, 10, e041532.	0.8	1

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91	Reliability and Validity of the SHFT Running Power Meter. <i>Sensors</i> , 2021, 21, 7516.	2.1	1
92	Cerebral Water and Ion Balance Remains Stable when Humans Are Exposed to Acute Hypoxic Exercise. <i>High Altitude Medicine and Biology</i> , 2015, 16, 18-25.	0.5	0
93	Response. <i>Exercise and Sport Sciences Reviews</i> , 2018, 46, 272-272.	1.6	0
94	A 3-min All-out Upper-body Ergometer Test For Competitive Swimmers. <i>International Journal of Sports Medicine</i> , 2020, 42, 724-730.	0.8	0
95	Microdoses of Recombinant Human Erythropoietin Enhance Endurance Performance While Indirect Detection by The Athlete Biological Passport Is Improved by Including The Immature Reticulocyte Fraction. <i>FASEB Journal</i> , 2021, 35, .	0.2	0
96	Detection of a Small Volume Autologous Blood Transfusion by Hpcidin, Erythroferrone, and the Athlete Biological Passport. <i>FASEB Journal</i> , 2021, 35, .	0.2	0
97	A Single Glucocorticoid Injection Accelerate Erythropoiesis but Does Not Improve Performance. <i>FASEB Journal</i> , 2022, 36, .	0.2	0