

Christoph Siebenmann

List of Publications by Year in descending order

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Version: 2024-02-01

55
papers

1,861
citations

236833

25
h-index

265120

42
g-index

56
all docs

56
docs citations

56
times ranked

1943
citing authors

#	ARTICLE	IF	CITATIONS
1	“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
2	Cutaneous Vasoconstriction Affects Near-infrared Spectroscopy Determined Cerebral Oxygen Saturation during Administration of Norepinephrine. <i>Anesthesiology</i> , 2012, 117, 263-270.	1.3	132
3	Determinants of time trial performance and maximal incremental exercise in highly trained endurance athletes. <i>Journal of Applied Physiology</i> , 2011, 111, 1422-1430.	1.2	131
4	Effect of Short-Term Acclimatization to High Altitude on Sleep and Nocturnal Breathing. <i>Sleep</i> , 2012, 35, 419-423.	0.6	122
5	Hemoglobin mass and intravascular volume kinetics during and after exposure to 3,454-m altitude. <i>Journal of Applied Physiology</i> , 2015, 119, 1194-1201.	1.2	89
6	Twenty-eight days at 3454-m altitude diminishes respiratory capacity but enhances efficiency in human skeletal muscle mitochondria. <i>FASEB Journal</i> , 2012, 26, 5192-5200.	0.2	76
7	Cardiac output during exercise: A comparison of four methods. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2015, 25, e20-7.	1.3	74
8	Regulation of blood volume in lowlanders exposed to high altitude. <i>Journal of Applied Physiology</i> , 2017, 123, 957-966.	1.2	74
9	Limitations to oxygen transport and utilization during sprint exercise in humans: evidence for a functional reserve in muscle O ₂ diffusing capacity. <i>Journal of Physiology</i> , 2015, 593, 4649-4664.	1.3	70
10	CORP: The assessment of total hemoglobin mass by carbon monoxide rebreathing. <i>Journal of Applied Physiology</i> , 2017, 123, 645-654.	1.2	67
11	Red Cell Volume Expansion at Altitude. <i>Medicine and Science in Sports and Exercise</i> , 2013, 45, 1767-1772.	0.2	61
12	Regulation of cardiac output in hypoxia. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2015, 25, 53-59.	1.3	61
13	Cerebral blood flow, frontal lobe oxygenation and intra-arterial blood pressure during sprint exercise in normoxia and severe acute hypoxia in humans. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2018, 38, 136-150.	2.4	55
14	The role of haemoglobin mass on VO ₂ 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
15	Extra-cerebral oxygenation influence on near-infrared spectroscopy-determined frontal lobe oxygenation in healthy volunteers: a comparison between INVOS [®] 4100 and NIRO [®] 200NX. <i>Clinical Physiology and Functional Imaging</i> , 2015, 35, 177-184.	0.5	35
16	Dexamethasone Improves Maximal Exercise Capacity of Individuals Susceptible to High Altitude Pulmonary Edema at 4559-m. <i>High Altitude Medicine and Biology</i> , 2011, 12, 169-177.	0.5	32
17	Twenty-eight days of exposure to 3454-m increases mitochondrial volume density in human skeletal muscle. <i>Journal of Physiology</i> , 2016, 594, 1151-1166.	1.3	32
18	Hypobaric live high train low does not improve aerobic performance more than live low train low in cross-country skiers. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2018, 28, 1636-1652.	1.3	32

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19	High Altitude Sleep Disturbances Monitored by Actigraphy and Polysomnography. <i>High Altitude Medicine and Biology</i> , 2011, 12, 229-236.	0.5	31
20	Hematological Adaptations to Prolonged Heat Acclimation in Endurance-Trained Males. <i>Frontiers in Physiology</i> , 2019, 10, 1379.	1.3	31
21	Sleep and Breathing in High Altitude Pulmonary Edema Susceptible Subjects at 4,559 Meters. <i>Sleep</i> , 2012, 35, 1413-1421.	0.6	30
22	Hypovolemia explains the reduced stroke volume at altitude. <i>Physiological Reports</i> , 2013, 1, e00094.	0.7	30
23	Effect of endurance versus resistance training on local muscle and systemic inflammation and oxidative stress in COPD. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2018, 28, 2339-2348.	1.3	30
24	Hypocapnia during hypoxic exercise and its impact on cerebral oxygenation, ventilation and maximal whole body O ₂ uptake. <i>Respiratory Physiology and Neurobiology</i> , 2013, 185, 461-467.	0.7	28
25	Kidney-synthesized erythropoietin is the main source for the hypoxia-induced increase in plasma erythropoietin in adult humans. <i>European Journal of Applied Physiology</i> , 2014, 114, 1107-1111.	1.2	28
26	Hypoxic Training Is Not Beneficial in Elite Athletes. <i>Medicine and Science in Sports and Exercise</i> , 2020, 52, 519-522.	0.2	26
27	Four weeks of normobaric "live high-train low" do not alter muscular or systemic capacity for maintaining pH and K ⁺ homeostasis during intense exercise. <i>Journal of Applied Physiology</i> , 2012, 112, 2027-2036.	1.2	24
28	Regulation of plasma volume in male lowlanders during 4 days of exposure to hypobaric hypoxia equivalent to 3500m altitude. <i>Journal of Physiology</i> , 2021, 599, 1083-1096.	1.3	24
29	Hypoxia-induced vagal withdrawal is independent of the hypoxic ventilatory response in men. <i>Journal of Applied Physiology</i> , 2019, 126, 124-131.	1.2	23
30	A brief pre-exercise nap may alleviate physical performance impairments induced by short-term sustained operations with partial sleep deprivation "A field-based study. <i>Chronobiology International</i> , 2018, 35, 1464-1470.	0.9	22
31	The carbon monoxide re-breathing method can underestimate Hbmass due to incomplete blood mixing. <i>European Journal of Applied Physiology</i> , 2013, 113, 2425-2430.	1.2	21
32	Hypoxia increases exercise heart rate despite combined inhibition of β^2 -adrenergic and muscarinic receptors. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2015, 308, H1540-H1546.	1.5	21
33	Parasympathetic withdrawal increases heart rate after 2 weeks at 3454m altitude. <i>Journal of Physiology</i> , 2017, 595, 1619-1626.	1.3	21
34	Effect of Increased Blood Flow on Pulmonary Circulation Before and During High Altitude Acclimatization. <i>High Altitude Medicine and Biology</i> , 2016, 17, 305-314.	0.5	19
35	Detection of blood volumes and haemoglobin mass by means of CO re-breathing and indocyanine green and sodium fluorescein injections. <i>Scandinavian Journal of Clinical and Laboratory Investigation</i> , 2017, 77, 164-174.	0.6	19
36	Prolonged Heat Acclimation and Aerobic Performance in Endurance Trained Athletes. <i>Frontiers in Physiology</i> , 2019, 10, 1372.	1.3	19

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37	Cerebrovascular Reactivity is Increased with Acclimatization to 3,454 M Altitude. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2015, 35, 1323-1330.	2.4	17
38	Does cerebral hypoxia facilitate central fatigue?. <i>Experimental Physiology</i> , 2016, 101, 1173-1177.	0.9	14
39	Endothelial function and shear stress in hypobaric hypoxia: time course and impact of plasma volume expansion in men. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2020, 319, H980-H994.	1.5	14
40	The interaction between metformin and physical activity on postprandial glucose and glucose kinetics: a randomised, clinical trial. <i>Diabetologia</i> , 2021, 64, 397-409.	2.9	14
41	Skeletal muscle adaptations to exercise are not influenced by metformin treatment in humans: secondary analyses of 2 randomized, clinical trials. <i>Applied Physiology, Nutrition and Metabolism</i> , 2022, 47, 309-320.	0.9	8
42	Cutaneous exposure to hypoxia does not affect skin perfusion in humans. <i>Acta Physiologica</i> , 2017, 220, 361-369.	1.8	7
43	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
44	Plasma volume contraction reduces atrial natriuretic peptide after four days of hypobaric hypoxia exposure. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2021, 320, R526-R531.	0.9	4
45	Blood Oxygen Carrying Capacity Determines Cardiorespiratory Fitness in Middle-Age and Older Women and Men. <i>Medicine and Science in Sports and Exercise</i> , 2021, 53, 2274-2282.	0.2	4
46	Hemoglobin Mass Expansion during 13 d of Altitude Training. <i>Medicine and Science in Sports and Exercise</i> , 2016, 48, 1425.	0.2	3
47	Carbon monoxide reduces near-infrared spectroscopy determined \hat{c} total \hat{c} ™ hemoglobin: a human volunteer study. <i>Scandinavian Journal of Clinical and Laboratory Investigation</i> , 2017, 77, 259-262.	0.6	3
48	The middle cerebral artery blood velocity response to acute normobaric hypoxia occurs independently of changes in ventilation in humans. <i>Experimental Physiology</i> , 2021, 106, 861-867.	0.9	3
49	Cardiac performance is influenced by rotational changes of position in the transversal plane, both in the horizontal and in the 60° head-up postures. <i>Clinical Physiology and Functional Imaging</i> , 2018, 38, 1021-1028.	0.5	2
50	In Reply:. <i>Anesthesiology</i> , 2013, 118, 982-982.	1.3	1
51	Marked improvements in cardiac function in postmenopausal women exposed to blood withdrawal plus endurance training. <i>Journal of Sports Sciences</i> , 2022, 40, 1609-1617.	1.0	1
52	Reply to Schmitt and Millet. <i>Journal of Applied Physiology</i> , 2012, 112, 528-528.	1.2	0
53	Reply to Garvican, Saunders, Pyne, Martin, Robertson, and Gore. <i>Journal of Applied Physiology</i> , 2012, 112, 1799-1799.	1.2	0
54	Measuring Uptake and Elimination of Nitrogen in Humans at Different Ambient Pressures. <i>Aerospace Medicine and Human Performance</i> , 2016, 87, 1045-1050.	0.2	0

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55	Response to Millet and Brocherie. Scandinavian Journal of Medicine and Science in Sports, 2018, 28, 2244-2245.	1.3	0