

Ola Eiken

List of Publications by Year in descending order

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Version: 2024-02-01

74
papers

868
citations

471061

17
h-index

610482

24
g-index

74
all docs

74
docs citations

74
times ranked

989
citing authors

#	ARTICLE	IF	CITATIONS
1	Separate and combined effects of a 10-d exposure to hypoxia and inactivity on oxidative function in vivo and mitochondrial respiration ex vivo in humans. <i>Journal of Applied Physiology</i> , 2016, 121, 154-163.	1.2	37
2	PlanHab [*] : hypoxia does not worsen the impairment of skeletal muscle oxidative function induced by bed rest alone. <i>Journal of Physiology</i> , 2018, 596, 3341-3355.	1.3	36
3	Effects of prolonged hypoxia and bed rest on appetite and appetite-related hormones. <i>Appetite</i> , 2016, 107, 28-37.	1.8	34
4	On the combined effects of normobaric hypoxia and bed rest upon bone and mineral metabolism: Results from the PlanHab study. <i>Bone</i> , 2016, 91, 130-138.	1.4	33
5	Hypoxia Aggravates Inactivity-Related Muscle Wasting. <i>Frontiers in Physiology</i> , 2018, 9, 494.	1.3	32
6	Exercise Training during Normobaric Hypoxic Confinement Does Not Alter Hormonal Appetite Regulation. <i>PLoS ONE</i> , 2014, 9, e98874.	1.1	31
7	PlanHab (Planetary Habitat Simulation): the combined and separate effects of 21 days bed rest and hypoxic confinement on human skeletal muscle miRNA expression. <i>Physiological Reports</i> , 2016, 4, e12753.	0.7	31
8	The Effect of Normobaric Hypoxic Confinement on Metabolism, Gut Hormones, and Body Composition. <i>Frontiers in Physiology</i> , 2016, 7, 202.	1.3	30
9	PlanHab: the combined and separate effects of 16 days of bed rest and normobaric hypoxic confinement on circulating lipids and indices of insulin sensitivity in healthy men. <i>Journal of Applied Physiology</i> , 2016, 120, 947-955.	1.2	27
10	Intestinal Metagenomes and Metabolomes in Healthy Young Males: Inactivity and Hypoxia Generated Negative Physiological Symptoms Precede Microbial Dysbiosis. <i>Frontiers in Physiology</i> , 2018, 9, 198.	1.3	25
11	Physiological and psychological determinants of whole-body endurance exercise following short-term sustained operations with partial sleep deprivation. <i>European Journal of Applied Physiology</i> , 2018, 118, 1373-1384.	1.2	23
12	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
13	G tolerance vis-à-vis pressure-distension and pressure-flow relationships of leg arteries. <i>European Journal of Applied Physiology</i> , 2012, 112, 3619-3627.	1.2	20
14	Hypoxia and inactivity related physiological changes precede or take place in absence of significant rearrangements in bacterial community structure: The PlanHab randomized trial pilot study. <i>PLoS ONE</i> , 2017, 12, e0188556.	1.1	20
15	PlanHab: hypoxia exaggerates the bed-rest-induced reduction in peak oxygen uptake during upright cycle ergometry. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2016, 311, H453-H464.	1.5	19
16	Heat acclimation does not affect maximal aerobic power in thermoneutral normoxic or hypoxic conditions. <i>Experimental Physiology</i> , 2019, 104, 345-358.	0.9	19
17	MEF2 as upstream regulator of the transcriptome signature in human skeletal muscle during unloading. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2018, 315, R799-R809.	0.9	19
18	Hypoxia Exacerbates Negative Emotional State during Inactivity: The Effect of 21 Days Hypoxic Bed Rest and Confinement. <i>Frontiers in Physiology</i> , 2018, 9, 26.	1.3	18

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19	The LunHab project: Muscle and bone alterations in male participants following a 10-day lunar habitat simulation. <i>Experimental Physiology</i> , 2019, 104, 1250-1261.	0.9	18
20	Effects of normobaric hypoxic bed rest on the thermal comfort zone. <i>Journal of Thermal Biology</i> , 2015, 49-50, 39-46.	1.1	17
21	FemHab: The effects of bed rest and hypoxia on oxidative stress in healthy women. <i>Journal of Applied Physiology</i> , 2016, 120, 930-938.	1.2	17
22	Psychological strain: Examining the effect of hypoxic bedrest and confinement. <i>Physiology and Behavior</i> , 2015, 139, 497-504.	1.0	16
23	Strategies for increasing evaporative cooling during simulated desert patrol mission. <i>Ergonomics</i> , 2016, 59, 298-309.	1.1	16
24	Finger and Toe Temperature Responses to Cold After Freezing Cold Injury in Elite Alpinists. <i>Wilderness and Environmental Medicine</i> , 2015, 26, 295-304.	0.4	15
25	Blood pressure regulation V: in vivo mechanical properties of precapillary vessels as affected by long-term pressure loading and unloading. <i>European Journal of Applied Physiology</i> , 2014, 114, 499-509.	1.2	14
26	Effect of acute hypercapnia during 10-day hypoxic bed rest on posterior eye structures. <i>Journal of Applied Physiology</i> , 2016, 120, 1241-1248.	1.2	14
27	No association between hand and foot temperature responses during local cold stress and rewarming. <i>European Journal of Applied Physiology</i> , 2017, 117, 1141-1153.	1.2	14
28	PlanHab: Hypoxia counteracts the erythropoietin suppression, but seems to exaggerate the plasma volume reduction induced by 3-weeks of bed rest. <i>Physiological Reports</i> , 2016, 4, e12760.	0.7	13
29	Exercise cardiorespiratory and thermoregulatory responses in normoxic, hypoxic, and hot environment following 10-day continuous hypoxic exposure. <i>Journal of Applied Physiology</i> , 2018, 125, 1284-1295.	1.2	13
30	Repeated exposures to moderately increased intravascular pressure increases stiffness in human arteries and arterioles. <i>Journal of Hypertension</i> , 2011, 29, 1963-1971.	0.3	12
31	Separate and Combined Effects of Hypoxia and Horizontal Bed Rest on Retinal Blood Vessel Diameters. , 2016, 57, 4927.		12
32	The Effect of Bed Rest and Hypoxic Environment on Postural Balance and Trunk Automatic (Re)Actions in Young Healthy Males. <i>Frontiers in Physiology</i> , 2018, 9, 27.	1.3	12
33	Interactions of mild hypothermia and hypoxia on finger vasoreactivity to local cold stress. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2019, 317, R418-R431.	0.9	12
34	In Shackleton's trails: Central and local thermoadaptive modifications to cold and hypoxia after a man-hauling expedition on the Antarctic Plateau. <i>Journal of Thermal Biology</i> , 2018, 73, 80-90.	1.1	10
35	G-Protection Mechanisms Afforded by the Anti-G Suit Abdominal Bladder With and Without Pressure Breathing. <i>Aviation, Space, and Environmental Medicine</i> , 2011, 82, 972-977.	0.6	9
36	Exercise during Short-Term and Long-Term Continuous Exposure to Hypoxia Exacerbates Sleep-Related Periodic Breathing. <i>Sleep</i> , 2016, 39, 773-783.	0.6	9

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37	Severe hypoxia during incremental exercise to exhaustion provokes negative post-exercise affects. <i>Physiology and Behavior</i> , 2016, 156, 171-176.	1.0	9
38	Systems View of Deconditioning During Spaceflight Simulation in the PlanHab Project: The Departure of Urine 1 H-NMR Metabolomes From Healthy State in Young Males Subjected to Bedrest Inactivity and Hypoxia. <i>Frontiers in Physiology</i> , 2020, 11, 532271.	1.3	9
39	Intraocular pressure and cerebral oxygenation during prolonged headward acceleration. <i>European Journal of Applied Physiology</i> , 2017, 117, 61-72.	1.2	8
40	Hypoxia gradually augments metabolic and thermoperceptual responsiveness to repeated whole-body cold stress in humans. <i>Experimental Physiology</i> , 2020, 105, 2123-2140.	0.9	8
41	The influence of a sustained 10-day hypoxic bed rest on cartilage biomarkers and subchondral bone in females: The FemHab study. <i>Physiological Reports</i> , 2020, 8, e14413.	0.7	8
42	A 10-day confinement to normobaric hypoxia impairs toe, but not finger temperature response during local cold stress. <i>Journal of Thermal Biology</i> , 2017, 64, 109-115.	1.1	7
43	Hypoxia Worsens Affective Responses and Feeling of Fatigue During Prolonged Bed Rest. <i>Frontiers in Psychology</i> , 2018, 9, 362.	1.1	7
44	On the time course of short-term forgetting: a human experimental model for the sense of balance. <i>Cognitive Neurodynamics</i> , 2016, 10, 7-22.	2.3	6
45	Influence of gravity on biomechanics in flywheel squat and leg press. <i>Sports Biomechanics</i> , 2023, 22, 767-783.	0.8	6
46	Effects of Fatigue on Cognitive Performance in Long-Duration Simulated Flight Missions. <i>Aviation Psychology and Applied Human Factors</i> , 2020, 10, 82-93.	0.3	6
47	eAMI: A Qualitative Quantification of Periodic Breathing Based on Amplitude of Oscillations. <i>Sleep</i> , 2015, 38, 381-389.	0.6	5
48	Body height and arterial pressure in seated and supine young males during +2 G centrifugation. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2015, 309, R1172-R1177.	0.9	5
49	Effects of Two Short-Term, Intermittent Hypoxic Training Protocols on the Finger Temperature Response to Local Cold Stress. <i>High Altitude Medicine and Biology</i> , 2015, 16, 251-260.	0.5	5
50	LunHab: interactive effects of a 10-day sustained exposure to hypoxia and bedrest on aerobic exercise capacity in male lowlanders. <i>Experimental Physiology</i> , 2017, 102, 694-710.	0.9	5
51	Heat acclimation enhances the cold-induced vasodilation response. <i>European Journal of Applied Physiology</i> , 2021, 121, 3005-3015.	1.2	5
52	High-altitude decompression strain can be reduced by an early excursion to moderate altitude while breathing oxygen. <i>European Journal of Applied Physiology</i> , 2021, 121, 3225-3232.	1.2	5
53	Pressure distension in leg vessels as influenced by prolonged bed rest and a pressure habituation regimen. <i>Journal of Applied Physiology</i> , 2016, 120, 1458-1465.	1.2	4
54	Indices of Increased Decompression Stress Following Long-Term Bed Rest. <i>Frontiers in Physiology</i> , 2018, 9, 442.	1.3	4

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55	Whole-body vibration preconditioning reduces the formation and delays the manifestation of high-altitude-induced venous gas emboli. <i>Experimental Physiology</i> , 2021, 106, 1743-1751.	0.9	4
56	Effects of vision on energy expenditure and kinematics during level walking. <i>European Journal of Applied Physiology</i> , 2022, 122, 1231-1237.	1.2	4
57	Human cardiovascular adaptation to hypergravity. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2022, 322, R597-R608.	0.9	4
58	Effect of exercise on night periodic breathing and loop gain during hypoxic confinement. <i>Respirology</i> , 2016, 21, 746-753.	1.3	3
59	The arterial baroreflex and inherent G tolerance. <i>European Journal of Applied Physiology</i> , 2016, 116, 1149-1157.	1.2	3
60	Finger- and toe-temperature responses to local cooling and rewarming have limited predictive value identifying susceptibility to local cold injury-a cohort study in military cadets. <i>Applied Ergonomics</i> , 2020, 82, 102964.	1.7	3
61	Local Intravascular Pressure Habituation in Relation to G-Induced Arm Pain. <i>Aviation, Space, and Environmental Medicine</i> , 2012, 83, 667-672.	0.6	2
62	Signs and Symptoms During Supra-Tolerance +G_z Exposures, with Reference to G-Garment Failure. <i>Aviation, Space, and Environmental Medicine</i> , 2013, 84, 196-205.	0.6	2
63	Systemic Hypoxia Increases the Expression of DPP4 in Preadipocytes of Healthy Human Participants. <i>Experimental and Clinical Endocrinology and Diabetes</i> , 2018, 126, 91-95.	0.6	2
64	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
65	Finger constrictor and thermoperceptual responsiveness to localised cooling following 5 weeks of intermittent regional exposures to moderately augmented transmural vascular pressure. <i>Microvascular Research</i> , 2021, 137, 104181.	1.1	2
66	Acral skin vasoreactivity and thermosensitivity to hand cooling following 5 days of intermittent whole-body cold exposure. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2022, , .	0.9	2
67	Spatial orientation during gondola centrifugation with subjects upright versus supine: Evidence for Gestalt psychological mechanisms in vestibular perception. <i>Journal of Vestibular Research: Equilibrium and Orientation</i> , 2021, 31, 1-17.	0.8	1
68	Comparison of Joint and Muscle Biomechanics in Maximal Flywheel Squat and Leg Press. <i>Frontiers in Sports and Active Living</i> , 2021, 3, 686335.	0.9	1
69	Differential responsiveness of glabrous and nonglabrous skin to local transmural pressure elevations: impact of 5 weeks of iterative local pressure loading. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2021, 321, R742-R750.	0.9	1
70	Heterogeneity of human adaptations to bed rest and hypoxia: a retrospective analysis within the skeletal muscle oxidative function. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2021, 321, R813-R822.	0.9	1
71	The effect of a Live-high Train-high exercise regimen on behavioural temperature regulation. <i>European Journal of Applied Physiology</i> , 2017, 117, 255-265.	1.2	0
72	Exercise temperature regulation following a 35-day horizontal bedrest. <i>Experimental Physiology</i> , 2021, 106, 1498-1507.	0.9	0

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73	Energy Intake of Men With Excess Weight During Normobaric Hypoxic Confinement. <i>Frontiers in Physiology</i> , 2021, 12, 801833.	1.3	0
74	Heterogeneity of Hematological Response to Hypoxia and Short-Term or Medium-Term Bed Rest. <i>Frontiers in Physiology</i> , 2021, 12, 777611.	1.3	0