

Otto F Barak

List of Publications by Year in descending order

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Version: 2024-02-01

61
papers

965
citations

471061

17
h-index

525886

27
g-index

64
all docs

64
docs citations

64
times ranked

1241
citing authors

#	ARTICLE	IF	CITATIONS
1	Highs and lows of hyperoxia: physiological, performance, and clinical aspects. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2018, 315, R1-R27.	0.9	85
2	Maximal Anaerobic Power Test in Athletes of Different Sport Disciplines. <i>Journal of Strength and Conditioning Research</i> , 2009, 23, 751-755.	1.0	68
3	Association of microparticles and neutrophil activation with decompression sickness. <i>Journal of Applied Physiology</i> , 2015, 119, 427-434.	1.2	63
4	Prevalence, knowledge and attitudes towards using sports supplements among young athletes. <i>Journal of the International Society of Sports Nutrition</i> , 2019, 16, 27.	1.7	60
5	Body mass index, body fat mass and the occurrence of amenorrhea in ballet dancers. <i>Gynecological Endocrinology</i> , 2005, 20, 195-199.	0.7	47
6	Cerebral oxidative metabolism is decreased with extreme apnoea in humans; impact of hypercapnia. <i>Journal of Physiology</i> , 2016, 594, 5317-5328.	1.3	36
7	Surviving Without Oxygen: How Low Can the Human Brain Go?. <i>High Altitude Medicine and Biology</i> , 2017, 18, 73-79.	0.5	28
8	Heart rate variability before and after cycle exercise in relation to different body positions. <i>Journal of Sports Science and Medicine</i> , 2010, 9, 176-82.	0.7	28
9	Hypercapnia is essential to reduce the cerebral oxidative metabolism during extreme apnea in humans. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2017, 37, 3231-3242.	2.4	27
10	Disturbed blood flow worsens endothelial dysfunction in moderate-severe chronic obstructive pulmonary disease. <i>Scientific Reports</i> , 2017, 7, 16929.	1.6	26
11	Heart rate recovery after submaximal exercise in four different recovery protocols in male athletes and non-athletes. <i>Journal of Sports Science and Medicine</i> , 2011, 10, 369-75.	0.7	26
12	Wavelet decomposition analysis is a clinically relevant strategy to evaluate cerebrovascular buffering of blood pressure after spinal cord injury. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2018, 314, H1108-H1114.	1.5	23
13	Motivation and motoric tests in sports. <i>Medicinski Pregled</i> , 2007, 60, 231-236.	0.1	22
14	Competitive apnea and its effect on the human brain: focus on the redox regulation of blood-brain barrier permeability and neuronal parenchymal integrity. <i>FASEB Journal</i> , 2018, 32, 2305-2314.	0.2	22
15	Acute heat stress reduces biomarkers of endothelial activation but not macro- or microvascular dysfunction in cervical spinal cord injury. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2019, 316, H722-H733.	1.5	22
16	St. John's wort (<i>Hypericum perforatum</i> L.) and kindling epilepsy in rabbit. <i>Phytomedicine</i> , 2002, 9, 496-499.	2.3	21
17	Ventilation inhibits sympathetic action potential recruitment even during severe chemoreflex stress. <i>Journal of Neurophysiology</i> , 2017, 118, 2914-2924.	0.9	20
18	Organ perfusion during voluntary pulmonary hyperinflation; a magnetic resonance imaging study. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2016, 310, H444-H451.	1.5	19

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19	Hypoxemia increases blood-brain barrier permeability during extreme apnea in humans. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2022, 42, 1120-1135.	2.4	18
20	Cardiac power output and its response to exercise in athletes and non-athletes. <i>Clinical Physiology and Functional Imaging</i> , 2013, 33, 201-205.	0.5	17
21	Peripheral chemoreflex inhibition with low-dose dopamine: New insight into mechanisms of extreme apnea. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2015, 309, R1162-R1171.	0.9	17
22	Association between anthropometric measures of regional fat mass and heart rate variability in obese women. <i>Nutrition and Dietetics</i> , 2017, 74, 51-60.	0.9	15
23	Effect of Maximal Apnoea Easy-Going and Struggle Phases on Subarachnoid Width and Pial Artery Pulsation in Elite Breath-Hold Divers. <i>PLoS ONE</i> , 2015, 10, e0135429.	1.1	14
24	Ascorbic acid supplementation diminishes microparticle elevations and neutrophil activation following SCUBA diving. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2015, 309, R338-R344.	0.9	14
25	β -Blockade increases maximal apnea duration in elite breath-hold divers. <i>Journal of Applied Physiology</i> , 2017, 122, 899-906.	1.2	14
26	Network analysis identifies consensus physiological measures of neurovascular coupling in humans. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2020, 40, 656-666.	2.4	14
27	Vascular dysfunction following breath-hold diving. <i>Canadian Journal of Physiology and Pharmacology</i> , 2020, 98, 124-130.	0.7	13
28	Impaired dynamic cerebral autoregulation in trained breath-hold divers. <i>Journal of Applied Physiology</i> , 2019, 126, 1694-1700.	1.2	12
29	Very Few Exercise-Induced Arterialized Gas Bubbles Reach the Cerebral Vasculature. <i>Medicine and Science in Sports and Exercise</i> , 2015, 47, 1798-1805.	0.2	11
30	AGING, HEART RATE VARIABILITY AND METABOLIC IMPACT OF OBESITY. <i>Acta Clinica Croatica</i> , 2019, 58, 430-438.	0.1	11
31	The validity of estimating triceps brachii volume from single MRI cross-sectional area before and after resistance training. <i>Journal of Sports Sciences</i> , 2011, 29, 635-641.	1.0	10
32	Effect of pulmonary hyperinflation on central blood volume: An MRI study. <i>Respiratory Physiology and Neurobiology</i> , 2017, 243, 92-96.	0.7	9
33	Forced vital capacity and not central chemoreflex predicts maximal hyperoxic breath-hold duration in elite apneists. <i>Respiratory Physiology and Neurobiology</i> , 2017, 242, 8-11.	0.7	9
34	Oxygen therapy improves cerebral oxygen delivery and neurovascular function in hypoxaemic chronic obstructive pulmonary disease patients. <i>Experimental Physiology</i> , 2018, 103, 1170-1177.	0.9	9
35	Sleep-disordered breathing is associated with brain vascular reactivity in spinal cord injury. <i>Neurology</i> , 2019, 93, e2181-e2191.	1.5	9
36	Differential influence of vitamin C on the peripheral and cerebral circulation after diving and exposure to hyperoxia. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2018, 315, R759-R767.	0.9	8

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37	Influence of lung volume on the interaction between cardiac output and cerebrovascular regulation during extreme apnoea. <i>Experimental Physiology</i> , 2017, 102, 1288-1299.	0.9	7
38	Spinal Cord Disruption Is Associated with a Loss of Cushing-Like Blood Pressure Interactions. <i>Journal of Neurotrauma</i> , 2019, 36, 1487-1490.	1.7	7
39	Temporal changes in pulmonary gas exchange efficiency when breath-hold diving below residual volume. <i>Experimental Physiology</i> , 2021, 106, 1120-1133.	0.9	7
40	The impact of pre-dive exercise on repetitive SCUBA diving. <i>Clinical Physiology and Functional Imaging</i> , 2016, 36, 197-205.	0.5	6
41	Commentaries on Viewpoint: Why predominantly neurological DCS in breath-hold divers?. <i>Journal of Applied Physiology</i> , 2016, 120, 1478-1482.	1.2	6
42	Case Studies in Physiology: Breath-hold diving beyond 100 meters' cardiopulmonary responses in world-champion divers. <i>Journal of Applied Physiology</i> , 2021, 130, 1345-1350.	1.2	6
43	Effects of circulating extracellular microvesicles from spinal cord-injured adults on endothelial cell function. <i>Clinical Science</i> , 2020, 134, 777-789.	1.8	6
44	Analysis of anaerobic capacity in rowers using Wingate test on cycle and rowing ergometer. <i>Medicinski Pregled</i> , 2010, 63, 620-623.	0.1	5
45	Intrapulmonary arteriovenous anastomoses in humans with chronic obstructive pulmonary disease: implications for cryptogenic stroke?. <i>Experimental Physiology</i> , 2016, 101, 1128-1142.	0.9	5
46	Resting arterial hypoxaemia in subjects with chronic heart failure, pulmonary hypertension and patent foramen ovale. <i>Experimental Physiology</i> , 2016, 101, 657-670.	0.9	5
47	Characterization of blood flow through intrapulmonary arteriovenous anastomoses and patent foramen ovale at rest and during exercise in stroke and transient ischemic attack patients. <i>Echocardiography</i> , 2017, 34, 676-682.	0.3	5
48	Relationship between peak cardiac pumping capability and indices of cardio-respiratory fitness in healthy individuals. <i>Clinical Physiology and Functional Imaging</i> , 2012, 32, 388-393.	0.5	4
49	Elevations in Intra-cranial blood flow velocities following a SCUBA Dive and the Influence of Post-dive Exercise. <i>International Journal of Sports Medicine</i> , 2016, 37, 591-597.	0.8	4
50	Blood pooling in extrathoracic veins after glossopharyngeal insufflation. <i>European Journal of Applied Physiology</i> , 2017, 117, 641-649.	1.2	4
51	Evolution of the plasma proteome of divers before and after a single SCUBA dive. <i>Proteomics - Clinical Applications</i> , 2017, 11, 1700016.	0.8	4
52	Alarming blood pressure changes during routine bladder emptying in a woman with cervical spinal cord injury. <i>Spinal Cord Series and Cases</i> , 2017, 3, 17101.	0.3	4
53	Cerebrovascular function is preserved during mild hyperthermia in cervical spinal cord injury. <i>Spinal Cord</i> , 2019, 57, 979-984.	0.9	3
54	Passive leg cycling increases activity of the cardiorespiratory system in people with tetraplegia. <i>Applied Physiology, Nutrition and Metabolism</i> , 2022, 47, 269-277.	0.9	3

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55	High prevalence of patent foramen ovale in recreational to elite breath hold divers. Journal of Science and Medicine in Sport, 2022, 25, 553-556.	0.6	2
56	Follow up of some anthropometric and ergometric parameters during 8 week resistance training. Medicinski Pregled, 2009, 62, 505-512.	0.1	1
57	Alterations in resting cerebrovascular regulation do not affect reactivity to hypoxia, hyperoxia or neurovascular coupling following a SCUBA dive. Experimental Physiology, 2020, 105, 1540-1549.	0.9	1
58	Where have all the bubbles gone?. FASEB Journal, 2015, 29, 678.9.	0.2	0
59	Influence Of Lung Volume On Circulatory Function And Arterial Blood Gases During Prolonged Breath Holding In Elite Apnea Divers. Medicine and Science in Sports and Exercise, 2016, 48, 670-671.	0.2	0
60	In situ analysis of mitochondrial respiratory capacity - foundation for cellular physiology. Medicinski Pregled, 2017, 70, 445-448.	0.1	0
61	Cerebrovascular Regulation in Breath-Hold Divers with Chronic Exposure to Long-Duration Apneas. FASEB Journal, 2019, 33, 855.1.	0.2	0