Otto F Barak

List of Publications by Year
in descending order

61	965	471509 17	526287 27
papers	citations	h-index	g-index

64	64	64	1241
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Highs and lows of hyperoxia: physiological, performance, and clinical aspects. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2018, 315, R1-R27.	1.8	85
2	Maximal Anaerobic Power Test in Athletes of Different Sport Disciplines. Journal of Strength and Conditioning Research, 2009, 23, 751-755.	2.1	68
3	Association of microparticles and neutrophil activation with decompression sickness. Journal of Applied Physiology, 2015, 119, 427-434.	2.5	63
4	Prevalence, knowledge and attitudes towards using sports supplements among young athletes. Journal of the International Society of Sports Nutrition, 2019, 16, 27.	3.9	60
5	Body mass index, body fat mass and the occurrence of amenorrhea in ballet dancers. Gynecological Endocrinology, 2005, 20, 195-199.	1.7	47
6	Cerebral oxidative metabolism is decreased with extreme apnoea in humans; impact of hypercapnia. Journal of Physiology, 2016, 594, 5317-5328.	2.9	36
7	Surviving Without Oxygen: How Low Can the Human Brain Go?. High Altitude Medicine and Biology, 2017, 18, 73-79.	0.9	28
8	Heart rate variability before and after cycle exercise in relation to different body positions. Journal of Sports Science and Medicine, 2010, 9, 176-82.	1.6	28
9	Hypercapnia is essential to reduce the cerebral oxidative metabolism during extreme apnea in humans. Journal of Cerebral Blood Flow and Metabolism, 2017, 37, 3231-3242.	4.3	27
10	Disturbed blood flow worsens endothelial dysfunction in moderate-severe chronic obstructive pulmonary disease. Scientific Reports, 2017, 7, 16929.	3.3	26
11	Heart rate recovery after submaximal exercise in four different recovery protocols in male athletes and non-athletes. Journal of Sports Science and Medicine, 2011, 10, 369-75.	1.6	26
12	Wavelet decomposition analysis is a clinically relevant strategy to evaluate cerebrovascular buffering of blood pressure after spinal cord injury. American Journal of Physiology - Heart and Circulatory Physiology, 2018, 314, H1108-H1114.	3.2	23
13	Motivation and motoric tests in sports. Medicinski Pregled, 2007, 60, 231-236.	0.1	22
14	Competitive apnea and its effect on the human brain: focus on the redox regulation of bloodâ€brain barrier permeability and neuronalâ€parenchymal integrity. FASEB Journal, 2018, 32, 2305-2314.	0.5	22
15	Acute heat stress reduces biomarkers of endothelial activation but not macro- or microvascular dysfunction in cervical spinal cord injury. American Journal of Physiology - Heart and Circulatory Physiology, 2019, 316, H722-H733.	3.2	22
16	St. John's wort (Hypericum perforatum L.) and kindling epilepsy in rabbit. Phytomedicine, 2002, 9, 496-499.	5.3	21
17	Ventilation inhibits sympathetic action potential recruitment even during severe chemoreflex stress. Journal of Neurophysiology, 2017, 118, 2914-2924.	1.8	20
18	Organ perfusion during voluntary pulmonary hyperinflation; a magnetic resonance imaging study. American Journal of Physiology - Heart and Circulatory Physiology, 2016, 310, H444-H451.	3.2	19

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19	Hypoxemia increases blood-brain barrier permeability during extreme apnea in humans. Journal of Cerebral Blood Flow and Metabolism, 2022, 42, 1120-1135.	4.3	18
20	Cardiac power output and its response to exercise in athletes and nonâ€athletes. Clinical Physiology and Functional Imaging, 2013, 33, 201-205.	1.2	17
21	Peripheral chemoreflex inhibition with low-dose dopamine: New insight into mechanisms of extreme apnea. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2015, 309, R1162-R1171.	1.8	17
22	Association between anthropometric measures of regional fat mass and heart rate variability in obese women. Nutrition and Dietetics, 2017, 74, 51-60.	1.8	15
23	Effect of Maximal Apnoea Easy-Going and Struggle Phases on Subarachnoid Width and Pial Artery Pulsation in Elite Breath-Hold Divers. PLoS ONE, 2015, 10, e0135429.	2.5	14
24	Ascorbic acid supplementation diminishes microparticle elevations and neutrophil activation following SCUBA diving. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2015, 309, R338-R344.	1.8	14
25	Î²₁-Blockade increases maximal apnea duration in elite breath-hold divers. Journal of Applied Physiology, 2017, 122, 899-906.	2.5	14
26	Network analysis identifies consensus physiological measures of neurovascular coupling in humans. Journal of Cerebral Blood Flow and Metabolism, 2020, 40, 656-666.	4.3	14
27	Vascular dysfunction following breath-hold diving. Canadian Journal of Physiology and Pharmacology, 2020, 98, 124-130.	1.4	13
28	Impaired dynamic cerebral autoregulation in trained breath-hold divers. Journal of Applied Physiology, 2019, 126, 1694-1700.	2.5	12
29	Very Few Exercise-Induced Arterialized Gas Bubbles Reach the Cerebral Vasculature. Medicine and Science in Sports and Exercise, 2015, 47, 1798-1805.	0.4	11
30	AGING, HEART RATE VARIABILITY AND METABOLIC IMPACT OF OBESITY. Acta Clinica Croatica, 2019, 58, 430-438.	0.2	11
31	The validity of estimating triceps brachii volume from single MRI cross-sectional area before and after resistance training. Journal of Sports Sciences, 2011, 29, 635-641.	2.0	10
32	Effect of pulmonary hyperinflation on central blood volume: An MRI study. Respiratory Physiology and Neurobiology, 2017, 243, 92-96.	1.6	9
33	Forced vital capacity and not central chemoreflex predicts maximal hyperoxic breath-hold duration in elite apneists. Respiratory Physiology and Neurobiology, 2017, 242, 8-11.	1.6	9
34	Oxygen therapy improves cerebral oxygen delivery and neurovascular function in hypoxaemic chronic obstructive pulmonary disease patients. Experimental Physiology, 2018, 103, 1170-1177.	2.0	9
35	Sleep-disordered breathing is associated with brain vascular reactivity in spinal cord injury. Neurology, 2019, 93, e2181-e2191.	1.1	9
36	Differential influence of vitamin C on the peripheral and cerebral circulation after diving and exposure to hyperoxia. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2018, 315, R759-R767.	1.8	8

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37	Influence of lung volume on the interaction between cardiac output and cerebrovascular regulation during extreme apnoea. Experimental Physiology, 2017, 102, 1288-1299.	2.0	7
38	Spinal Cord Disruption Is Associated with a Loss of Cushing-Like Blood Pressure Interactions. Journal of Neurotrauma, 2019, 36, 1487-1490.	3.4	7
39	Temporal changes in pulmonary gas exchange efficiency when breathâ€hold diving below residual volume. Experimental Physiology, 2021, 106, 1120-1133.	2.0	7
40	The impact of predive exercise on repetitive <scp>SCUBA</scp> diving. Clinical Physiology and Functional Imaging, 2016, 36, 197-205.	1.2	6
41	Commentaries on Viewpoint: Why predominantly neurological DCS in breath-hold divers?. Journal of Applied Physiology, 2016, 120, 1478-1482.	2.5	6
42	Case Studies in Physiology: Breath-hold diving beyond 100 metersâ€"cardiopulmonary responses in world-champion divers. Journal of Applied Physiology, 2021, 130, 1345-1350.	2.5	6
43	Effects of circulating extracellular microvesicles from spinal cord-injured adults on endothelial cell function. Clinical Science, 2020, 134, 777-789.	4.3	6
44	Analysis of anaerobic capacity in rowers using Wingate test on cycle and rowing ergometer. Medicinski Pregled, 2010, 63, 620-623.	0.1	5
45	Intrapulmonary arteriovenous anastomoses in humans with chronic obstructive pulmonary disease: implications for cryptogenic stroke?. Experimental Physiology, 2016, 101, 1128-1142.	2.0	5
46	Resting arterial hypoxaemia in subjects with chronic heart failure, pulmonary hypertension and patent foramen ovale. Experimental Physiology, 2016, 101, 657-670.	2.0	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. Echocardiography, 2017, 34, 676-682.	0.9	5
48	Relationship between peak cardiac pumping capability and indices of cardioâ€respiratory fitness in healthy individuals. Clinical Physiology and Functional Imaging, 2012, 32, 388-393.	1.2	4
49	Elevations in Intra-cranial blood flow velocities following a SCUBA Dive and the Influence of Post-dive Exercise. International Journal of Sports Medicine, 2016, 37, 591-597.	1.7	4
50	Blood pooling in extrathoracic veins after glossopharyngeal insufflation. European Journal of Applied Physiology, 2017, 117, 641-649.	2.5	4
51	Evolution of the plasma proteome of divers before and after a single SCUBA dive. Proteomics - Clinical Applications, 2017, 11, 1700016.	1.6	4
52	Alarming blood pressure changes during routine bladder emptying in a woman with cervical spinal cord injury. Spinal Cord Series and Cases, 2017, 3, 17101.	0.6	4
53	Cerebrovascular function is preserved during mild hyperthermia in cervical spinal cord injury. Spinal Cord, 2019, 57, 979-984.	1.9	3
54	Passive leg cycling increases activity of the cardiorespiratory system in people with tetraplegia. Applied Physiology, Nutrition and Metabolism, 2022, 47, 269-277.	1.9	3

#	Article	IF	Citations
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.	1.3	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.	2.0	1
58	Where have all the bubbles gone?. FASEB Journal, 2015, 29, 678.9.	0.5	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.	0.4	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 Breathâ€Hold Divers with Chronic Exposure to Longâ€Duration Apneas. FASEB Journal, 2019, 33, 855.1.	0.5	0