

Costantino Balestra

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

117
papers

2,694
citations

21
h-index

48
g-index

146
ext. papers

3,092
ext. citations

3.7
avg, IF

5.02
L-index

#	Paper	IF	Citations
117	Physiology of repeated mixed gas 100-m wreck dives using a closed-circuit rebreather: a field bubble study. <i>European Journal of Applied Physiology</i> , 2021 , 1	3.4	0
116	Comparison of insulation provided by dry or wetsuits among recreational divers during cold water immersion (<i>International Maritime Health</i> , 2021 , 72, 217-222	0.9	0
115	Increased Risk of Decompression Sickness When Diving With a Right-to-Left Shunt: Results of a Prospective Single-Blinded Observational Study (The "Carotid Doppler" Study). <i>Frontiers in Physiology</i> , 2021 , 12, 763408	4.6	2
114	Impaired Attentional Processing During Parabolic Flight. <i>Frontiers in Physiology</i> , 2021 , 12, 675426	4.6	1
113	Increasing Oxygen Partial Pressures Induce a Distinct Transcriptional Response in Human PBMC: A Pilot Study on the "Normobaric Oxygen Paradox". <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	11
112	Heart Rate Variability During a Standard Dive: A Role for Inspired Oxygen Pressure?. <i>Frontiers in Physiology</i> , 2021 , 12, 635132	4.6	2
111	Physiological effects of mixed-gas deep sea dives using a closed-circuit rebreather: a field pilot study. <i>European Journal of Applied Physiology</i> , 2021 , 121, 3323-3331	3.4	3
110	Oxidative Stress and Inflammation, MicroRNA, and Hemoglobin Variations after Administration of Oxygen at Different Pressures and Concentrations: A Randomized Trial. <i>International Journal of Environmental Research and Public Health</i> , 2021 , 18,	4.6	6
109	Physiological and Clinical Impact of Repeated Inhaled Oxygen Variation on Erythropoietin Levels in Patients After Surgery. <i>Frontiers in Physiology</i> , 2021 , 12, 744074	4.6	0
108	Hypoxic and Hyperoxic Breathing as a Complement to Low-Intensity Physical Exercise Programs: A Proof-of-Principle Study. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	3
107	Evaluation of Protection Level, Respiratory Safety, and Practical Aspects of Commercially Available Snorkel Masks as Personal Protection Devices Against Aerosolized Contaminants and SARS-CoV2. <i>International Journal of Environmental Research and Public Health</i> , 2020 , 17,	4.6	13
106	Hyperoxia Alters Ultrastructure and Induces Apoptosis in Leukemia Cell Lines. <i>Biomolecules</i> , 2020 , 10,	5.9	6
105	Early Endothelial Dysfunction in Type 1 Diabetes Is Accompanied by an Impairment of Vascular Smooth Muscle Function: A Meta-Analysis. <i>Frontiers in Endocrinology</i> , 2020 , 11, 203	5.7	12
104	Field study of anthropomorphic and muscle performance changes among elite skippers following a transoceanic race. <i>International Maritime Health</i> , 2020 , 71, 20-27	0.9	1
103	Investigating critical flicker fusion frequency for monitoring gas narcosis in divers. <i>Diving and Hyperbaric Medicine</i> , 2020 , 50, 377-385	1	7
102	First impressions: Use of the Azoth Systems O'Dive subclavian bubble monitor on a liveaboard dive vessel. <i>Diving and Hyperbaric Medicine</i> , 2020 , 50, 405-412	1	3
101	Physiological characteristics associated with increased resistance to decompression sickness in male and female rats. <i>Journal of Applied Physiology</i> , 2020 , 129, 612-625	3.7	3

100	Variation of Cognitive Function During a Short Stay at Hypobaric Hypoxia Chamber (Altitude: 3842 M). <i>Frontiers in Physiology</i> , 2019 , 10, 806	4.6	3
99	Static Metabolic Bubbles as Precursors of Vascular Gas Emboli During Divers' Decompression: A Hypothesis Explaining Bubbling Variability. <i>Frontiers in Physiology</i> , 2019 , 10, 807	4.6	5
98	Diving physiopathology: the end of certainties? Food for thought. <i>Minerva Anestesiologica</i> , 2019 , 85, 1129-1137	1.9	8
97	Early detection of diving-related cognitive impairment of different nitrogen-oxygen gas mixtures using critical flicker fusion frequency. <i>Diving and Hyperbaric Medicine</i> , 2019 , 49, 119-126	1	10
96	Evaluation of Divers' Neuropsychometric Effectiveness and High-Pressure Neurological Syndrome Computerized Test Battery Package and Questionnaires in Operational Setting. <i>Frontiers in Physiology</i> , 2019 , 10, 1386	4.6	3
95	Inert gas narcosis in scuba diving, different gases different reactions. <i>European Journal of Applied Physiology</i> , 2019 , 119, 247-255	3.4	17
94	Clustering of recreational divers by their health conditions in a database of a citizen science project. <i>Undersea and Hyperbaric Medicine</i> , 2019 , 46, 171-183	0.9	1
93	Commercial Divers' Subjective Evaluation of Saturation. <i>Frontiers in Psychology</i> , 2018 , 9, 2774	3.4	6
92	Variability in circulating gas emboli after a same scuba diving exposure. <i>European Journal of Applied Physiology</i> , 2018 , 118, 1255-1264	3.4	18
91	Beneficial effect of enriched air nitrox on bubble formation during scuba diving. An open-water study. <i>Journal of Sports Sciences</i> , 2018 , 36, 605-612	3.6	7
90	One-week cocoa flavanol intake increases prefrontal cortex oxygenation at rest and during moderate-intensity exercise in normoxia and hypoxia. <i>Journal of Applied Physiology</i> , 2018 , 125, 8-18	3.7	11
89	Spirometry and oxidative stress after rebreather diving in warm water. <i>Undersea and Hyperbaric Medicine</i> , 2018 , 45, 191-198	0.9	13
88	ULTRASONOGRAPHIC ASSESSMENT OF NECK MUSCULAR SIZE AND RANGE OF MOTION IN RUGBY PLAYERS. <i>International Journal of Sports Physical Therapy</i> , 2018 , 13, 28-38	1.4	1
87	Critical Flicker Fusion Frequency: A Marker of Cerebral Arousal During Modified Gravitational Conditions Related to Parabolic Flights. <i>Frontiers in Physiology</i> , 2018 , 9, 1403	4.6	12
86	Hemoglobin and Erythropoietin After Commercial Saturation Diving. <i>Frontiers in Physiology</i> , 2018 , 9, 1176	4.6	13
85	Spirometry and oxidative stress after rebreather diving in warm water. <i>Undersea and Hyperbaric Medicine</i> , 2018 , 45, 191-198	0.9	8
84	Venous gas emboli are involved in post-dive macro, but not microvascular dysfunction. <i>European Journal of Applied Physiology</i> , 2017 , 117, 335-344	3.4	9
83	Effects of oxygen-enriched air on cognitive performance during SCUBA-diving - an open-water study. <i>Research in Sports Medicine</i> , 2017 , 25, 345-356	3.8	14

82	Objective vs. Subjective Evaluation of Cognitive Performance During 0.4-MPa Dives Breathing Air or Nitrox. <i>Aerospace Medicine and Human Performance</i> , 2017 , 88, 469-475	1.1	14
81	Evidence of Heritable Determinants of Decompression Sickness in Rats. <i>Medicine and Science in Sports and Exercise</i> , 2017 , 49, 2433-2438	1.2	7
80	Preconditioning to Reduce Decompression Stress in Scuba Divers. <i>Aerospace Medicine and Human Performance</i> , 2017 , 88, 114-120	1.1	15
79	Patent Foramen Ovale (PFO), Personality Traits, and Iterative Decompression Sickness. Retrospective Analysis of 209 Cases. <i>Frontiers in Psychology</i> , 2017 , 8, 1328	3.4	7
78	Dive Risk Factors, Gas Bubble Formation, and Decompression Illness in Recreational SCUBA Diving: Analysis of DAN Europe DSL Data Base. <i>Frontiers in Psychology</i> , 2017 , 8, 1587	3.4	31
77	Do Environmental Conditions Contribute to Narcosis Onset and Symptom Severity?. <i>International Journal of Sports Medicine</i> , 2016 , 37, 1124-1128	3.6	8
76	A red orange extract modulates the vascular response to a recreational dive: a pilot study on the effect of anthocyanins on the physiological consequences of scuba diving. <i>Natural Product Research</i> , 2016 , 30, 2101-6	2.3	7
75	Pre-dive Whole-Body Vibration Better Reduces Decompression-Induced Vascular Gas Emboli than Oxygenation or a Combination of Both. <i>Frontiers in Physiology</i> , 2016 , 7, 586	4.6	11
74	Correlation between Patent Foramen Ovale, Cerebral "Lesions" and Neuropsychometric Testing in Experienced Sports Divers: Does Diving Damage the Brain?. <i>Frontiers in Psychology</i> , 2016 , 7, 696	3.4	16
73	Response: Commentary: Correlation between Patent Foramen Ovale, Cerebral "Lesions" and Neuropsychometric Testing in Experienced Sports Divers: Does Diving Damage the Brain?. <i>Frontiers in Psychology</i> , 2016 , 7, 1586	3.4	1
72	Commentaries on Viewpoint: Why predominantly neurological DCS in breath-hold divers?. <i>Journal of Applied Physiology</i> , 2016 , 120, 1478-82	3.7	5
71	Hypothesis: the influence of cavitation or vacuum phenomenon for decompression sickness. <i>Diving and Hyperbaric Medicine</i> , 2016 , 46, 190-191	1	3
70	Heart rate variability and critical flicker fusion frequency changes during and after parachute jumping in experienced skydivers. <i>European Journal of Applied Physiology</i> , 2015 , 115, 1533-45	3.4	16
69	Decompression induced bubble dynamics on ex vivo fat and muscle tissue surfaces with a new experimental set up. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015 , 129, 121-9	6	9
68	Cutis Marmorata skin decompression sickness is a manifestation of brainstem bubble embolization, not of local skin bubbles. <i>Medical Hypotheses</i> , 2015 , 85, 863-9	3.8	12
67	Association of microparticles and neutrophil activation with decompression sickness. <i>Journal of Applied Physiology</i> , 2015 , 119, 427-34	3.7	50
66	The effect of pre-dive ingestion of dark chocolate on endothelial function after a scuba dive. <i>Diving and Hyperbaric Medicine</i> , 2015 , 45, 4-9	1	13
65	Flying after diving: should recommendations be reviewed? In-flight echocardiographic study in bubble-prone and bubble-resistant divers. <i>Diving and Hyperbaric Medicine</i> , 2015 , 45, 10-5	1	11

64	Genetic predisposition to breath-hold diving-induced hemoptysis: Preliminary study. <i>Undersea and Hyperbaric Medicine</i> , 2015 , 42, 75-83	0.9	8
63	Circulatory bubble dynamics: from physical to biological aspects. <i>Advances in Colloid and Interface Science</i> , 2014 , 206, 239-49	14.3	40
62	A ternary model of decompression sickness in rats. <i>Computers in Biology and Medicine</i> , 2014 , 55, 74-8	7	11
61	Bubble stream reveals functionality of the right-to-left shunt: detection of a potential source for air embolism. <i>Ultrasound in Medicine and Biology</i> , 2014 , 40, 330-40	3.5	
60	Association of digital vascular function with cardiovascular risk factors: a population study. <i>BMJ Open</i> , 2014 , 4, e004399	3	12
59	Flying after diving: in-flight echocardiography after a scuba diving week. <i>Aviation, Space, and Environmental Medicine</i> , 2014 , 85, 993-8		10
58	Long term effects of recreational SCUBA diving on higher cognitive function. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2014 , 24, 928-34	4.6	20
57	Expression of hyperoxic bradycardia during hyperbaric exposure in rats prenatally exposed to hypoxia (1150.3). <i>FASEB Journal</i> , 2014 , 28, 1150.3	0.9	
56	The "normobaric oxygen paradox": a new tool for the anesthetist?. <i>Minerva Anestesiologica</i> , 2014 , 80, 366-72	1.9	20
55	The use of portable 2D echocardiography and 'frame-based' bubble counting as a tool to evaluate diving decompression stress. <i>Diving and Hyperbaric Medicine</i> , 2014 , 44, 5-13	1	13
54	Effect of tetrahydrobiopterin and exercise training on endothelium-dependent vasorelaxation in SHR. <i>Journal of Physiology and Biochemistry</i> , 2013 , 69, 277-87	5	10
53	Can the normobaric oxygen paradox (NOP) increase reticulocyte count after traumatic hip surgery?. <i>Journal of Clinical Anesthesia</i> , 2013 , 25, 129-34	1.9	7
52	A critical review of physiological bubble formation in hyperbaric decompression. <i>Advances in Colloid and Interface Science</i> , 2013 , 191-192, 22-30	14.3	40
51	Dark chocolate reduces endothelial dysfunction after successive breath-hold dives in cool water. <i>European Journal of Applied Physiology</i> , 2013 , 113, 2967-75	3.4	10
50	Effect of a single, open-sea, air scuba dive on human micro- and macrovascular function. <i>European Journal of Applied Physiology</i> , 2013 , 113, 2637-45	3.4	28
49	EPO modulation in a 14-days undersea scuba dive. <i>International Journal of Sports Medicine</i> , 2013 , 34, 856-60	3.6	6
48	Le sauna ^infrarouges a des effets semblables ^lâexercice physique modf^sur la fonction endothliale et lâhydratation. <i>Movement and Sports Sciences - Science Et Motricite</i> , 2013 , 15-24	0.5	
47	Nitric oxide-related endothelial changes in breath-hold and scuba divers. <i>Undersea and Hyperbaric Medicine</i> , 2013 , 40, 135-44	0.9	28

46	Functional comparison between critical flicker fusion frequency and simple cognitive tests in subjects breathing air or oxygen in normobaria. <i>Diving and Hyperbaric Medicine</i> , 2013 , 43, 138-42	1	17
45	Persistence of critical flicker fusion frequency impairment after a 33´mfw SCUBA dive: evidence of prolonged nitrogen narcosis?. <i>European Journal of Applied Physiology</i> , 2012 , 112, 4063-8	3-4	37
44	Hypoxia, a multifaceted phenomenon: the example of the "normobaric oxygen paradox". <i>European Journal of Applied Physiology</i> , 2012 , 112, 4173-5	3-4	9
43	Effects of induced relative hypoxia during the postoperative period of abdominal oncologic surgery, on hemoglobin and reticulocyte levels: a prospective, randomized controlled clinical trial. <i>Critical Care</i> , 2012 , 16,	10.8	1
42	The innervation of the axillary arch determined by surface stimulodetection electromyography. <i>Journal of Anatomy</i> , 2012 , 221, 275-8	2.9	2
41	Pulsed high oxygen induces a hypoxic-like response in human umbilical endothelial cells and in humans. <i>Journal of Applied Physiology</i> , 2012 , 113, 1684-9	3-7	30
40	The 'normobaric oxygen paradox': does it increase haemoglobin?. <i>Diving and Hyperbaric Medicine</i> , 2012 , 42, 67-71	1	11
39	Oxygen sensing, homeostasis, and disease. <i>New England Journal of Medicine</i> , 2011 , 365, 1845; author reply 1846	59.2	28
38	The normobaric oxygen paradox: a novel way to administer oxygen as an adjuvant treatment for cancer?. <i>Medical Hypotheses</i> , 2011 , 76, 467-70	3.8	21
37	Ultrasound lung "comets" increase after breath-hold diving. <i>European Journal of Applied Physiology</i> , 2011 , 111, 707-13	3-4	15
36	Supraorbital transcutaneous neurostimulation has sedative effects in healthy subjects. <i>BMC Neurology</i> , 2011 , 11, 135	3.1	38
35	Are there hemodynamic implications related to an axillary arch?. <i>Clinical Anatomy</i> , 2011 , 24, 964-7	2.5	4
34	The normobaric oxygen paradox: does it increase haemoglobin?. <i>Critical Care</i> , 2011 , 15,	10.8	4
33	Acupuncture effect on thermal tolerance and electrical pain threshold: a randomised controlled trial. <i>Acupuncture in Medicine</i> , 2011 , 29, 47-50	1.9	4
32	Increase in endogenous erythropoietin synthesis through the normobaric oxygen paradox in cardiac surgery patients. <i>British Journal of Anaesthesia</i> , 2011 , 106, 752-3	5.4	9
31	Acute effect of muscle stretching on the steadiness of sustained submaximal contractions of the plantar flexor muscles. <i>Journal of Applied Physiology</i> , 2011 , 110, 407-15	3-7	21
30	Passive flooding of paranasal sinuses and middle ears as a method of equalisation in extreme breath-hold diving. <i>British Journal of Sports Medicine</i> , 2011 , 45, 657-9	10.3	3
29	A Neuro-fuzzy Approach of Bubble Recognition in Cardiac Video Processing. <i>Communications in Computer and Information Science</i> , 2011 , 277-286	0.3	

28	Respiratory rate can be modulated by long-loop muscular reflexes, a possible factor in involuntary cessation of apnea. <i>Diving and Hyperbaric Medicine</i> , 2011 , 41, 3-8	1	2
27	The musculus pterygoideus proprius: an in-vivo approach with magnetic resonance imaging. <i>Journal of Anatomy</i> , 2010 , 217, 679-82	2.9	
26	The normobaric oxygen paradox—a simple way to induce endogenous erythropoietin production and concomitantly raise hemoglobin levels in anemic patients. <i>Transfusion Alternatives in Transfusion Medicine</i> , 2010 , 11, 39-42		9
25	Later-age score to evaluate kinesthetic abilities (Test ISEK) varie symétriquement la force manuelle la préhension (grip test). <i>Kinesithérapie</i> , 2010 , 10, 39-45	0.1	2
24	Intérêt de l'utilisation d'une console de jeux de type Wii Fit sur la réduction des facteurs de risque de chute et l'amélioration de l'équilibre chez la personne âgée. <i>Kinesithérapie</i> , 2010 , 10, 41-45	0.1	2
23	Decompression illness medically reported by hyperbaric treatment facilities: cluster analysis of 1929 cases. <i>Aviation, Space, and Environmental Medicine</i> , 2010 , 81, 3-7		8
22	Hyperoxia may be beneficial. <i>Critical Care Medicine</i> , 2010 , 38, S559-68	1.4	51
21	EPO and doping. <i>European Journal of Applied Physiology</i> , 2010 , 109, 1001-2	3.4	5
20	Evaluation of critical flicker fusion frequency and perceived fatigue in divers after air and enriched air nitrox diving. <i>Diving and Hyperbaric Medicine</i> , 2010 , 40, 114-8	1	11
19	Preventive effect of pre-dive hydration on bubble formation in divers. <i>British Journal of Sports Medicine</i> , 2009 , 43, 224-8	10.3	28
18	Movement gating of beta/gamma oscillations involved in the N30 somatosensory evoked potential. <i>Human Brain Mapping</i> , 2009 , 30, 1568-79	5.9	26
17	Pulmonary barotrauma in divers during emergency free ascent training: review of 124 cases. <i>Aviation, Space, and Environmental Medicine</i> , 2009 , 80, 371-5		4
16	Pre-dive vibration effect on bubble formation after a 30-m dive requiring a decompression stop. <i>Aviation, Space, and Environmental Medicine</i> , 2009 , 80, 1044-8		21
15	Pre-dive sauna and venous gas bubbles upon decompression from 400 kPa. <i>Aviation, Space, and Environmental Medicine</i> , 2008 , 79, 1100-5		25
14	Commentary on viewpoint "Heliox, nitrox, and trimix diving; hyperbaric oxygen treatment; and a flaw in Henry's law". <i>Journal of Applied Physiology</i> , 2007 , 102, 1720	3.7	1
13	Effect of varying deep stop times and shallow stop times on precordial bubbles after dives to 25 msw (82 fsw). <i>Undersea and Hyperbaric Medicine</i> , 2007 , 34, 399-406	0.9	4
12	Serum erythropoietin levels in healthy humans after a short period of normobaric and hyperbaric oxygen breathing: the "normobaric oxygen paradox". <i>Journal of Applied Physiology</i> , 2006 , 100, 512-8	3.7	1038
11	Evidence for increasing patency of the foramen ovale in divers. <i>American Journal of Cardiology</i> , 2005 , 95, 912-5	3	35

10	Pulpal and periodontal temperature rise during KTP laser use as a root planing complement in vitro. <i>Photomedicine and Laser Surgery</i> , 2005 , 23, 10-4		18
9	Scuba diving can induce stress of the temporomandibular joint leading to headache. <i>British Journal of Sports Medicine</i> , 2004 , 38, 102	10.3	6
8	Risk of decompression illness among 230 divers in relation to the presence and size of patent foramen ovale. <i>European Heart Journal</i> , 2004 , 25, 2173-4	9.5	10
7	THE FRACTAL APPROACH AS A TOOL TO UNDERSTAND ASYMPTOMATIC BRAIN HYPERINTENSE MRI SIGNALS. <i>Fractals</i> , 2004 , 12, 67-72	3.2	17
6	Erythropoietin production can be enhanced by normobaric oxygen breathing in healthy humans. <i>Undersea and Hyperbaric Medicine</i> , 2004 , 31, 53-7	0.9	9
5	A deep stop during decompression from 82 fsw (25 m) significantly reduces bubbles and fast tissue gas tensions. <i>Undersea and Hyperbaric Medicine</i> , 2004 , 31, 233-43	0.9	12
4	Reflex regulation during sustained and intermittent submaximal contractions in humans. <i>Journal of Physiology</i> , 2002 , 541, 959-67	3.9	117
3	Patent foramen ovale and decompression sickness in sports divers. <i>Journal of Applied Physiology</i> , 1998 , 84, 1622-6	3.7	128
2	Intrathoracic pressure changes after Valsalva strain and other maneuvers: implications for divers with patent foramen ovale. <i>Undersea and Hyperbaric Medicine</i> , 1998 , 25, 171-4	0.9	22
1	Effects of fatigue on the stretch reflex in a human muscle. <i>Electroencephalography and Clinical Neurophysiology - Evoked Potentials</i> , 1992 , 85, 46-52		65