

Costantino Balestra

List of Publications by Citations

Source: <https://exaly.com/author-pdf/847886/costantino-balestra-publications-by-citations.pdf>

Version: 2024-04-17

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	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
116	Patent foramen ovale and decompression sickness in sports divers. <i>Journal of Applied Physiology</i> , 1998 , 84, 1622-6	3.7	128
115	Reflex regulation during sustained and intermittent submaximal contractions in humans. <i>Journal of Physiology</i> , 2002 , 541, 959-67	3.9	117
114	Effects of fatigue on the stretch reflex in a human muscle. <i>Electroencephalography and Clinical Neurophysiology - Evoked Potentials</i> , 1992 , 85, 46-52		65
113	Hyperoxia may be beneficial. <i>Critical Care Medicine</i> , 2010 , 38, S559-68	1.4	51
112	Association of microparticles and neutrophil activation with decompression sickness. <i>Journal of Applied Physiology</i> , 2015 , 119, 427-34	3.7	50
111	Circulatory bubble dynamics: from physical to biological aspects. <i>Advances in Colloid and Interface Science</i> , 2014 , 206, 239-49	14.3	40
110	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
109	Supraorbital transcutaneous neurostimulation has sedative effects in healthy subjects. <i>BMC Neurology</i> , 2011 , 11, 135	3.1	38
108	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
107	Evidence for increasing patency of the foramen ovale in divers. <i>American Journal of Cardiology</i> , 2005 , 95, 912-5	3	35
106	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
105	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
104	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
103	Oxygen sensing, homeostasis, and disease. <i>New England Journal of Medicine</i> , 2011 , 365, 1845; author reply 1846	59.2	28
102	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
101	Nitric oxide-related endothelial changes in breath-hold and scuba divers. <i>Undersea and Hyperbaric Medicine</i> , 2013 , 40, 135-44	0.9	28

100	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
99	Predive sauna and venous gas bubbles upon decompression from 400 kPa. <i>Aviation, Space, and Environmental Medicine</i> , 2008 , 79, 1100-5		25
98	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
97	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
96	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
95	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
94	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
93	The "normobaric oxygen paradox": a new tool for the anesthetist?. <i>Minerva Anestesiologica</i> , 2014 , 80, 366-72	1.9	20
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	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
90	THE FRACTAL APPROACH AS A TOOL TO UNDERSTAND ASYMPTOMATIC BRAIN HYPERINTENSE MRI SIGNALS. <i>Fractals</i> , 2004 , 12, 67-72	3.2	17
89	Inert gas narcosis in scuba diving, different gases different reactions. <i>European Journal of Applied Physiology</i> , 2019 , 119, 247-255	3.4	17
88	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
87	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
86	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
85	Preconditioning to Reduce Decompression Stress in Scuba Divers. <i>Aerospace Medicine and Human Performance</i> , 2017 , 88, 114-120	1.1	15
84	Ultrasound lung "comets" increase after breath-hold diving. <i>European Journal of Applied Physiology</i> , 2011 , 111, 707-13	3.4	15
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	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
80	Spirometry and oxidative stress after rebreather diving in warm water. <i>Undersea and Hyperbaric Medicine</i> , 2018 , 45, 191-198	0.9	13
79	Hemoglobin and Erythropoietin After Commercial Saturation Diving. <i>Frontiers in Physiology</i> , 2018 , 9, 1176	4.6	13
78	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
77	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
76	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
75	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
74	Association of digital vascular function with cardiovascular risk factors: a population study. <i>BMJ Open</i> , 2014 , 4, e004399	3	12
73	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
72	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
71	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
70	A ternary model of decompression sickness in rats. <i>Computers in Biology and Medicine</i> , 2014 , 55, 74-8	7	11
69	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
68	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
67	The 'normobaric oxygen paradox': does it increase haemoglobin?. <i>Diving and Hyperbaric Medicine</i> , 2012 , 42, 67-71	1	11
66	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
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	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
63	Flying after diving: in-flight echocardiography after a scuba diving week. <i>Aviation, Space, and Environmental Medicine</i> , 2014 , 85, 993-8		10
62	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
61	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
60	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
59	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
58	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
57	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
56	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
55	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
54	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
53	Do Environmental Conditions Contribute to Narcosis Onset and Symptom Severity?. <i>International Journal of Sports Medicine</i> , 2016 , 37, 1124-1128	3.6	8
52	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
51	Diving physiopathology: the end of certainties? Food for thought. <i>Minerva Anestesiologica</i> , 2019 , 85, 1129-1137	1.9	8
50	Genetic predisposition to breath-hold diving-induced hemoptysis: Preliminary study. <i>Undersea and Hyperbaric Medicine</i> , 2015 , 42, 75-83	0.9	8
49	Spirometry and oxidative stress after rebreather diving in warm water. <i>Undersea and Hyperbaric Medicine</i> , 2018 , 45, 191-198	0.9	8
48	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
47	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

46	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
45	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
44	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
43	Investigating critical flicker fusion frequency for monitoring gas narcosis in divers. <i>Diving and Hyperbaric Medicine</i> , 2020 , 50, 377-385	1	7
42	Commercial Divers' Subjective Evaluation of Saturation. <i>Frontiers in Psychology</i> , 2018 , 9, 2774	3.4	6
41	Hyperoxia Alters Ultrastructure and Induces Apoptosis in Leukemia Cell Lines. <i>Biomolecules</i> , 2020 , 10,	5.9	6
40	EPO modulation in a 14-days undersea scuba dive. <i>International Journal of Sports Medicine</i> , 2013 , 34, 856-60	3.6	6
39	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
38	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
37	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
36	EPO and doping. <i>European Journal of Applied Physiology</i> , 2010 , 109, 1001-2	3.4	5
35	Commentaries on Viewpoint: Why predominantly neurological DCS in breath-hold divers?. <i>Journal of Applied Physiology</i> , 2016 , 120, 1478-82	3.7	5
34	Are there hemodynamic implications related to an axillary arch?. <i>Clinical Anatomy</i> , 2011 , 24, 964-7	2.5	4
33	The normobaric oxygen paradox: does it increase haemoglobin?. <i>Critical Care</i> , 2011 , 15,	10.8	4
32	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
31	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
30	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
29	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

28	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
27	First impressions: Use of the Azoth Systems O'Dive subclavian bubble monitor on a liveboard dive vessel. <i>Diving and Hyperbaric Medicine</i> , 2020 , 50, 405-412	1	3
26	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
25	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
24	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
23	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
22	Hypothesis: the influence of cavitation or vacuum phenomenon for decompression sickness. <i>Diving and Hyperbaric Medicine</i> , 2016 , 46, 190-191	1	3
21	The innervation of the axillary arch determined by surface stimulodetection electromyography. <i>Journal of Anatomy</i> , 2012 , 221, 275-8	2.9	2
20	L'inter-âge score to evaluate kinesthetic abilities (Test ISEK) évolue symétriquement à la force manuelle et la préhension (grip test). <i>Kinesithérapie</i> , 2010 , 10, 39-45	0.1	2
19	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
18	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
17	Heart Rate Variability During a Standard Dive: A Role for Inspired Oxygen Pressure?. <i>Frontiers in Physiology</i> , 2021 , 12, 635132	4.6	2
16	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
15	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
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	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
12	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
11	Impaired Attentional Processing During Parabolic Flight. <i>Frontiers in Physiology</i> , 2021 , 12, 675426	4.6	1

10	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
9	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
8	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
7	Comparison of insulation provided by dry or wetsuits among recreational divers during cold water immersion (International Maritime Health, 2021 , 72, 217-222	0.9	0
6	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
5	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	
4	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	
3	The musculus pterygoideus proprius: an in-vivo approach with magnetic resonance imaging. <i>Journal of Anatomy</i> , 2010 , 217, 679-82	2.9	
2	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	
1	A Neuro-fuzzy Approach of Bubble Recognition in Cardiac Video Processing. <i>Communications in Computer and Information Science</i> , 2011 , 277-286	0.3	