

# Guido Ferretti

## List of Publications by Year in descending order

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82  
papers

2,746  
citations

236912

25  
h-index

189881

50  
g-index

85  
all docs

85  
docs citations

85  
times ranked

2407  
citing authors

#	ARTICLE	IF	CITATIONS
1	Energy cost of walking and running at extreme uphill and downhill slopes. <i>Journal of Applied Physiology</i> , 2002, 93, 1039-1046.	2.5	449
2	The energetics of anaerobic muscle metabolism: a reappraisal of older and recent concepts. <i>Respiration Physiology</i> , 1999, 118, 103-115.	2.7	293
3	The interplay of central and peripheral factors in limiting maximal O <sub>2</sub> consumption in man after prolonged bed rest. <i>Journal of Physiology</i> , 1997, 501, 677-686.	2.9	148
4	Extreme human breath-hold diving. <i>European Journal of Applied Physiology</i> , 2001, 84, 254-271.	2.5	136
5	Factors limiting maximal oxygen consumption in humans. <i>Respiration Physiology</i> , 1990, 80, 113-128.	2.7	107
6	Cardiovascular changes during deep breath-hold dives in a pressure chamber. <i>Journal of Applied Physiology</i> , 1997, 83, 1282-1290.	2.5	95
7	Correction of cardiac output obtained by Modelflow <sup>®</sup> from finger pulse pressure profiles with a respiratory method in humans. <i>Clinical Science</i> , 2004, 106, 371-376.	4.3	77
8	Cardiac output by Modelflow <sup>®</sup> method from intra-arterial and fingertip pulse pressure profiles. <i>Clinical Science</i> , 2004, 106, 365-369.	4.3	69
9	Energetics of running in top-level marathon runners from Kenya. <i>European Journal of Applied Physiology</i> , 2012, 112, 3797-3806.	2.5	67
10	Simultaneous determination of the kinetics of cardiac output, systemic O <sub>2</sub> delivery, and lung O <sub>2</sub> uptake at exercise onset in men. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2006, 290, R1071-R1079.	1.8	66
11	Energy cost and efficiency of riding aerodynamic bicycles. <i>European Journal of Applied Physiology and Occupational Physiology</i> , 1993, 67, 144-149.	1.2	63
12	Diversity in and adaptation to breath-hold diving in humans. <i>Comparative Biochemistry and Physiology Part A, Molecular &amp; Integrative Physiology</i> , 2003, 136, 205-213.	1.8	56
13	Maximal oxygen consumption in healthy humans: theories and facts. <i>European Journal of Applied Physiology</i> , 2014, 114, 2007-2036.	2.5	52
14	Maximal instantaneous muscular power after prolonged bed rest in humans. <i>Journal of Applied Physiology</i> , 2001, 90, 431-435.	2.5	51
15	Effects of step duration in incremental ramp protocols on peak power and maximal oxygen consumption. <i>European Journal of Applied Physiology</i> , 2013, 113, 2647-2653.	2.5	45
16	Heart rate and blood pressure time courses during prolonged dry apnoea in breath-hold divers. <i>European Journal of Applied Physiology</i> , 2008, 104, 1-7.	2.5	41
17	Factors limiting maximal O <sub>2</sub> consumption: effects of acute changes in ventilation. <i>Respiration Physiology</i> , 1995, 99, 259-271.	2.7	36
18	The physiology of submaximal exercise: The steady state concept. <i>Respiratory Physiology and Neurobiology</i> , 2017, 246, 76-85.	1.6	32

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19	The Effects of Breathing He-O <sub>2</sub> Mixtures on Maximal Oxygen Consumption in Normoxic and Hypoxic Men. <i>Journal of Physiology</i> , 1997, 503, 215-221.	2.9	31
20	Phase I dynamics of cardiac output, systemic O <sub>2</sub> delivery, and lung O <sub>2</sub> uptake at exercise onset in men in acute normobaric hypoxia. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2008, 295, R624-R632.	1.8	31
21	Age-related heart rate response to exercise in heart transplant recipients. Functional significance. <i>Pflügers Archiv European Journal of Physiology</i> , 2002, 443, 698-706.	2.8	30
22	Does resistance exercise prevent body fluid changes after a 90-day bed rest?. <i>European Journal of Applied Physiology</i> , 2004, 92, 555-64.	2.5	30
23	Cardiovascular time courses during prolonged immersed static apnoea. <i>European Journal of Applied Physiology</i> , 2010, 110, 277-283.	2.5	30
24	Cardiovascular determinants of maximal oxygen consumption in upright and supine posture at the end of prolonged bed rest in humans. <i>Respiratory Physiology and Neurobiology</i> , 2010, 172, 53-62.	1.6	30
25	The heart rate response to exercise and circulating catecholamines in heart transplant recipients. <i>Pflügers Archiv European Journal of Physiology</i> , 2002, 443, 370-376.	2.8	28
26	Effect of respiratory muscle training on maximum aerobic power in normoxia and hypoxia. <i>Respiratory Physiology and Neurobiology</i> , 2010, 170, 268-272.	1.6	27
27	Calf venous volume during stand-test after a 90-day bed-rest study with or without exercise countermeasure. <i>Journal of Physiology</i> , 2004, 561, 611-622.	2.9	26
28	Prolonged head down bed rest-induced inactivity impairs tonic autonomic regulation while sparing oscillatory cardiovascular rhythms in healthy humans. <i>Journal of Hypertension</i> , 2009, 27, 551-561.	0.5	26
29	Effect of cerebral vasomotion during physical exercise on associative memory, a near-infrared spectroscopy study. <i>Neurophotonics</i> , 2017, 4, 041404.	3.3	26
30	Limiting factors to oxygen transport on Mount Everest 30½ years after: a critique of Paolo Cerretelli's contribution to the study of altitude physiology. <i>European Journal of Applied Physiology</i> , 2003, 90, 344-350.	2.5	25
31	Effects of prolonged bed rest on cardiovascular oxygen transport during submaximal exercise in humans. <i>European Journal of Applied Physiology</i> , 1998, 78, 398-402.	2.5	24
32	Kinetics of oxygen consumption during maximal exercise at different muscle temperatures. <i>Respiration Physiology</i> , 1995, 102, 261-268.	2.7	22
33	A beat-by-beat analysis of cardiovascular responses to dry resting and exercise apnoeas in elite divers. <i>European Journal of Applied Physiology</i> , 2015, 115, 119-128.	2.5	22
34	Cardiovascular responses to dry resting apnoeas in elite divers while breathing pure oxygen. <i>Respiratory Physiology and Neurobiology</i> , 2015, 219, 1-8.	1.6	21
35	Determinants of oxygen consumption during exercise on cycle ergometer: The effects of gravity acceleration. <i>Respiratory Physiology and Neurobiology</i> , 2010, 171, 128-134.	1.6	20
36	A century of exercise physiology: key concepts on coupling respiratory oxygen flow to muscle energy demand during exercise. <i>European Journal of Applied Physiology</i> , 2022, 122, 1317-1365.	2.5	20

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37	Maximum anaerobic performance of childhood-onset GH-deficient adults. <i>Growth Hormone and IGF Research</i> , 1999, 9, 228-235.	1.1	19
38	An analysis of performance in human locomotion. <i>European Journal of Applied Physiology</i> , 2011, 111, 391-401.	2.5	19
39	Cardiovascular re-adjustments and baroreflex response during clinical reambulation procedure at the end of 35-day bed rest in humans. <i>Applied Physiology, Nutrition and Metabolism</i> , 2013, 38, 673-680.	1.9	17
40	A single session of moderate intensity exercise influences memory, endocannabinoids and brain derived neurotrophic factor levels in men. <i>Scientific Reports</i> , 2021, 11, 14371.	3.3	16
41	Oxygen delivery and oxygen return in humans exercising in acute normobaric hypoxia. <i>Pflugers Archiv European Journal of Physiology</i> , 2001, 442, 443-450.	2.8	15
42	Testing the vagal withdrawal hypothesis during light exercise under autonomic blockade: a heart rate variability study. <i>Journal of Applied Physiology</i> , 2018, 125, 1804-1811.	2.5	15
43	Effect of acute physical exercise on motor sequence memory. <i>Scientific Reports</i> , 2020, 10, 15322.	3.3	15
44	Cardiac output, O <sub>2</sub> delivery and kinetics during step exercise in acute normobaric hypoxia. <i>Respiratory Physiology and Neurobiology</i> , 2013, 186, 206-213.	1.6	14
45	Experimental validation of the 3-parameter critical power model in cycling. <i>European Journal of Applied Physiology</i> , 2019, 119, 941-949.	2.5	14
46	Effects of muscle temperature on the $\dot{V}\ddot{I}\ddot{O}_2$ kinetics at the onset of exercise in man. <i>Respiration Physiology</i> , 1992, 88, 343-353.	2.7	13
47	Effects of acceleration in the G <sub>z</sub> axis on human cardiopulmonary responses to exercise. <i>European Journal of Applied Physiology</i> , 2011, 111, 2907-2917.	2.5	13
48	Lung volumes of extreme breath-hold divers. <i>Sport Sciences for Health</i> , 2012, 7, 55-59.	1.3	13
49	Dynamics of the RR-interval versus blood pressure relationship at exercise onset in humans. <i>European Journal of Applied Physiology</i> , 2017, 117, 619-630.	2.5	13
50	Alveolar gas composition during maximal and interrupted apnoeas in ambient air and pure oxygen. <i>Respiratory Physiology and Neurobiology</i> , 2017, 235, 45-51.	1.6	13
51	Gas exchange and cardiovascular responses during breath-holding in divers. <i>Respiratory Physiology and Neurobiology</i> , 2019, 267, 27-34.	1.6	13
52	Maximal O <sub>2</sub> consumption: Effects of gravity withdrawal and resumption. <i>Respiratory Physiology and Neurobiology</i> , 2009, 169, S50-S54.	1.6	12
53	The current use of wearable sensors to enhance safety and performance in breath-hold diving: A systematic review. <i>Diving and Hyperbaric Medicine</i> , 2020, 50, 54-65.	0.5	12
54	Effects of recovery interval duration on the parameters of the critical power model for incremental exercise. <i>European Journal of Applied Physiology</i> , 2017, 117, 1859-1867.	2.5	11

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55	Cardiovascular responses to dry apnoeas at exercise in air and in pure oxygen. <i>Respiratory Physiology and Neurobiology</i> , 2018, 255, 17-21.	1.6	11
56	Effect of Lower Body Negative Pressure on Phase I Cardiovascular Responses at Exercise Onset. <i>International Journal of Sports Medicine</i> , 2020, 41, 209-218.	1.7	11
57	The effects of $\beta_1$ -adrenergic blockade on cardiovascular oxygen flow in normoxic and hypoxic humans at exercise. <i>European Journal of Applied Physiology</i> , 2005, 95, 250-259.	2.5	10
58	The diagram: An analytical interpretation of oxygen transport in arterial blood during exercise in humans. <i>Respiratory Physiology and Neurobiology</i> , 2014, 193, 55-61.	1.6	10
59	Non-Invasive Determination of Cardiac Output in Pre-Capillary Pulmonary Hypertension. <i>PLoS ONE</i> , 2015, 10, e0134221.	2.5	10
60	Energetics of resting anaerobic frog gastrocnemius at different temperatures by $^{31}\text{P}$ -NMR. <i>Respiration Physiology</i> , 1990, 82, 137-147.	2.7	9
61	A new interpolation-free procedure for breath-by-breath analysis of oxygen uptake in exercise transients. <i>European Journal of Applied Physiology</i> , 2014, 114, 1983-1994.	2.5	9
62	Breath holding as an example of extreme hypoventilation: experimental testing of a new model describing alveolar gas pathways. <i>Experimental Physiology</i> , 2020, 105, 2216-2225.	2.0	9
63	Lactate and epinephrine during exercise in altitude natives. <i>Journal of Applied Physiology</i> , 1996, 81, 2488-2494.	2.5	7
64	Kinetics of Cardiac Output at the Onset of Exercise in Precapillary Pulmonary Hypertension. <i>BioMed Research International</i> , 2016, 2016, 1-8.	1.9	7
65	Baroreflex responses during dry resting and exercise apnoeas in air and pure oxygen. <i>European Journal of Applied Physiology</i> , 2021, 121, 539-547.	2.5	6
66	Vagal blockade suppresses the phase I heart rate response but not the phase I cardiac output response at exercise onset in humans. <i>European Journal of Applied Physiology</i> , 2021, 121, 3173-3187.	2.5	6
67	Exercise training in chronic hypoxia has no effect on ventilatory muscle function in humans. <i>Respiration Physiology</i> , 1998, 112, 195-202.	2.7	5
68	Heart rate variability and baroreflex sensitivity in bilateral lung transplant recipients. <i>Clinical Physiology and Functional Imaging</i> , 2018, 38, 872-880.	1.2	5
69	A regression method for the power $\hat{=}$ duration relationship when both variables are subject to error. <i>European Journal of Applied Physiology</i> , 2020, 120, 765-770.	2.5	5
70	Respiratory muscle training and maximum aerobic power in hypoxia. <i>European Journal of Applied Physiology</i> , 2010, 110, 219-220.	2.5	4
71	Effects of gravitational acceleration on cardiovascular autonomic control in resting humans. <i>European Journal of Applied Physiology</i> , 2015, 115, 1417-1427.	2.5	4
72	Obstructive and Central Sleep Apnea in First Ever Ischemic Stroke are Associated with Different Time Course and Autonomic Activation. <i>Nature and Science of Sleep</i> , 2021, Volume 13, 1167-1178.	2.7	3

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73	A closed-loop approach to the study of the baroreflex dynamics during posture changes at rest and at exercise in humans. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2021, 321, R960-R968.	1.8	2
74	Of intermittent hypoxia and doping. <i>European Journal of Applied Physiology</i> , 2010, 108, 413-414.	2.5	1
75	Assessment of respiratory muscle training effects. <i>Respiratory Physiology and Neurobiology</i> , 2010, 173, 115-117.	1.6	1
76	A reappraisal of the strength-duration test to assess neuromuscular impairment of critically ill patients. <i>Journal of Electromyography and Kinesiology</i> , 2021, 59, 102555.	1.7	1
77	Evaluation Of A Current Experimental Approach To The Measurement Of Maximal Oxygen Consumption In Humans. <i>Medicine and Science in Sports and Exercise</i> , 2011, 43, 730-731.	0.4	0
78	Maximal Oxygen Consumption. , 2015, , 97-135.		0
79	The effects of negative work on the maximal instantaneous muscular power of humans during vertical jumps. <i>Sport Sciences for Health</i> , 2015, 11, 243-249.	1.3	0
80	Aerobic Metabolism and the Steady-State Concept. , 2015, , 29-64.		0
81	Single-breath oxygen dilution for the measurement of total lung capacity: technical description and preliminary results in healthy subjects. <i>Physiological Measurement</i> , 2021, 42, .	2.1	0
82	Comment on Poole et al (2022) review on oxygen flux from capillaries to mitochondria. <i>European Journal of Applied Physiology</i> , 2022, 122, 5-6.	2.5	0