Bruno Grassi

List of Publications by Year in descending order

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Version: 2024-02-01

78 papers	3,874 citations	126907 33 h-index	123424 61 g-index
80 all docs	80 docs citations	80 times ranked	3485 citing authors

#	Article	IF	Citations
1	Muscle oxygenation and pulmonary gas exchange kinetics during cycling exercise on-transitions in humans. Journal of Applied Physiology, 2003, 95, 149-158.	2.5	353
2	Impact of sedentarism due to the COVIDâ€19 home confinement on neuromuscular, cardiovascular and metabolic health: Physiological and pathophysiological implications and recommendations for physical and nutritional countermeasures. European Journal of Sport Science, 2021, 21, 614-635.	2.7	287
3	Slow Component of VË™O2 Kinetics. Medicine and Science in Sports and Exercise, 2011, 43, 2046-2062.	0.4	260
4	Near-infrared spectroscopy and skeletal muscle oxidative functionin vivoin health and disease: a review from an exercise physiology perspective. Journal of Biomedical Optics, 2016, 21, 091313.	2.6	247
5	Faster adjustment of O2delivery does not affect VË™o 2 on-kinetics in isolated in situ canine muscle. Journal of Applied Physiology, 1998, 85, 1394-1403.	2.5	220
6	Skeletal Muscle Fatigue and Decreased Efficiency. Exercise and Sport Sciences Reviews, 2015, 43, 75-83.	3.0	178
7	The role of alterations in mitochondrial dynamics and PGCâ€1Î± overâ€expression in fast muscle atrophy following hindlimb unloading. Journal of Physiology, 2015, 593, 1981-1995.	2.9	166
8	Peripheral O2 diffusion does not affect VË™o 2 on-kinetics in isolated in situ canine muscle. Journal of Applied Physiology, 1998, 85, 1404-1412.	2.5	145
9	Progressive recruitment of muscle fibers is not necessary for the slow component of Vİ‡<scp>o</scp>₂kinetics. Journal of Applied Physiology, 2008, 105, 575-580.	2.5	118
10	Greater loss in muscle mass and function but smaller metabolic alterations in older compared with younger men following 2 wk of bed rest and recovery. Journal of Applied Physiology, 2016, 120, 922-929.	2.5	114
11	Oxygen uptake onâ€kinetics in dog gastrocnemius in situ following activation of pyruvate dehydrogenase by dichloroacetate. Journal of Physiology, 2002, 538, 195-207.	2.9	105
12	Role of convective O2 delivery in determiningVË™o 2 on-kinetics in canine muscle contracting at peak VË™o 2. Journal of Applied Physiology, 2000, 89, 1293-1301.	2.5	104
13	Impaired oxygen extraction in metabolic myopathies: Detection and quantification by near-infrared spectroscopy. Muscle and Nerve, 2007, 35, 510-520.	2.2	96
14	Delayed Metabolic Activation of Oxidative Phosphorylation in Skeletal Muscle at Exercise Onset. Medicine and Science in Sports and Exercise, 2005, 37, 1567-1573.	0.4	70
15	Early effects of exercise training on $$ mathop Vlimits^ cdot {m O}_2 $$ on- and off-kinetics in 50-year-old subjects. Pflugers Archiv European Journal of Physiology, 2002, 443, 690-697.	2.8	64
16	Role of skeletal muscles impairment and brain oxygenation in limiting oxidative metabolism during exercise after bed rest. Journal of Applied Physiology, 2010, 109, 101-111.	2.5	61
17	Kinetic control of oxygen consumption during contractions in selfâ€perfused skeletal muscle. Journal of Physiology, 2011, 589, 3995-4009.	2.9	56
18	Skeletal muscle oxidative function in vivo and ex vivo in athletes with marked hypertrophy from resistance training. Journal of Applied Physiology, 2013, 114, 1527-1535.	2.5	56

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19	Slow $$ dot{V}{ext{O}}_{2} $$ kinetics during moderate-intensity exercise as markers of lower metabolic stability and lower exercise tolerance. European Journal of Applied Physiology, 2011, 111, 345-355.	2.5	54
20	Gas exchange kinetics in obese adolescents. Inferences on exercise tolerance and prescription. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2010, 299, R1298-R1305.	1.8	51
21	Speeding of pulmonary VO2 on-kinetics by light-to-moderate-intensity aerobic exercise training in chronic heart failure: Clinical and pathophysiological correlates. International Journal of Cardiology, 2013, 167, 2189-2195.	1.7	51
22	Metabolic Myopathies. Medicine and Science in Sports and Exercise, 2009, 41, 2120-2127.	0.4	49
23	Trainingâ€induced acceleration of O₂ uptake onâ€kinetics precedes muscle mitochondrial biogenesis in humans. Experimental Physiology, 2013, 98, 883-898.	2.0	48
24	Home-based aerobic exercise training improves skeletal muscle oxidative metabolism in patients with metabolic myopathies. Journal of Applied Physiology, 2016, 121, 699-708.	2.5	47
25	Comparison between Slow Components of HR and VË™O2 Kinetics: Functional Significance. Medicine and Science in Sports and Exercise, 2018, 50, 1649-1657.	0.4	44
26	A simple method for assessing the energy cost of running during incremental tests. Journal of Applied Physiology, 2009, 107, 1068-1075.	2.5	42
27	Effects of nitric oxide synthase inhibition byl-NAME on oxygen uptake kinetics in isolated canine musclein situ. Journal of Physiology, 2005, 568, 1021-1033.	2.9	40
28	Noninvasive Evaluation of Skeletal Muscle Oxidative Metabolism after Heart Transplant. Medicine and Science in Sports and Exercise, 2006, 38, 1374-1383.	0.4	40
29	Bioenergetics of contracting skeletal muscle after partial reduction of blood flow. Journal of Applied Physiology, 1998, 84, 1882-1888.	2.5	39
30	Mechanisms responsible for the acceleration of pulmonary Vİ‡<scp>o</scp>₂on-kinetics in humans after prolonged endurance training. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2014, 307, R1101-R1114.	1.8	39
31	Separate and combined effects of a 10-d exposure to hypoxia and inactivity on oxidative function in vivo and mitochondrial respiration ex vivo in humans. Journal of Applied Physiology, 2016, 121, 154-163.	2.5	37
32	PlanHab[*]: hypoxia does not worsen the impairment of skeletal muscle oxidative function induced by bed rest alone. Journal of Physiology, 2018, 596, 3341-3355.	2.9	36
33	Functional impairment of skeletal muscle oxidative metabolism during knee extension exercise after bed rest. Journal of Applied Physiology, 2011, 111, 1719-1726.	2.5	35
34	Mitochondrial Adaptations in Elderly and Young Men Skeletal Muscle Following 2 Weeks of Bed Rest and Rehabilitation. Frontiers in Physiology, 2019, 10, 474.	2.8	35
35	Faster O₂ uptake kinetics in canine skeletal muscle in situ after acute creatine kinase inhibition. Journal of Physiology, 2011, 589, 221-233.	2.9	31
36	Anabolic resistance assessed by oral stable isotope ingestion following bed rest in young and older adult volunteers: Relationships with changes in muscle mass. Clinical Nutrition, 2017, 36, 1420-1426.	5.0	31

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37	Factors affecting energy cost of running during an ultra-endurance race. Journal of Experimental Biology, 2014, 217, 787-95.	1.7	28
38	Aging effects on prefrontal cortex oxygenation in a posture-cognition dual-task: an fNIRS pilot study. European Review of Aging and Physical Activity, 2019, 16, 2.	2.9	28
39	Serial Assessment of Peak &OV0312;O2 and &OV0312;O2 Kinetics Early after Heart Transplantation. Medicine and Science in Sports and Exercise, 2003, 35, 1798-1804.	0.4	24
40	Peripheral impairments of oxidative metabolism after a 10â€day bed rest are upstream of mitochondrial respiration. Journal of Physiology, 2021, 599, 4813-4829.	2.9	22
41	The â€œsecond windâ€•in McArdle's disease patients during a second bout of constant work rate submaximal exercise. Journal of Applied Physiology, 2014, 116, 1230-1237.	2.5	20
42	Translational Medicine: Exercise Physiology Applied to Metabolic Myopathies. Medicine and Science in Sports and Exercise, 2019, 51, 2183-2192.	0.4	19
43	Acute respiratory muscle unloading by normoxic heliumâ€“O2 breathing reduces the O2 cost of cycling and perceived exertion in obese adolescents. European Journal of Applied Physiology, 2015, 115, 99-109.	2.5	18
44	Effects of 3-month high-intensity interval training vs. moderate endurance training and 4-month follow-up on fat metabolism, cardiorespiratory function and mitochondrial respiration in obese adults. European Journal of Applied Physiology, 2020, 120, 1787-1803.	2.5	17
45	Lack of functional effects of neuromuscular electrical stimulation on skeletal muscle oxidative metabolism in healthy humans. Journal of Applied Physiology, 2012, 113, 1101-1109.	2.5	16
46	Skeletal muscle Vİ‡<scp>o</scp>₂kinetics by the NIRS repeated occlusions method during the recovery from cycle ergometer exercise. Journal of Applied Physiology, 2020, 128, 534-544.	2.5	16
47	Exercise training alone or in combination with high-protein diet in patients with late onset Pompe disease: results of a cross over study. Orphanet Journal of Rare Diseases, 2020, 15, 143.	2.7	15
48	Effects of a multidisciplinary body weight reduction program on static and dynamic thoraco-abdominal volumes in obese adolescents. Applied Physiology, Nutrition and Metabolism, 2016, 41, 649-658.	1.9	14
49	Respiratory muscle endurance training reduces the O2 cost of cycling and perceived exertion in obese adolescents. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2017, 313, R487-R495.	1.8	13
50	Isometric strength training lowers the O2 cost of cycling during moderate-intensity exercise. European Journal of Applied Physiology, 2012, 112, 4151-4161.	2.5	12
51	Exercise training in TgÎ±_q*44 mice during the progression of chronic heart failure: cardiac vs. peripheral (soleus muscle) impairments to oxidative metabolism. Journal of Applied Physiology, 2017, 123, 326-336.	2.5	12
52	Three weeks of respiratory muscle endurance training improve the O₂ cost of walking and exercise tolerance in obese adolescents. Physiological Reports, 2018, 6, e13888.	1.7	12
53	Improved Exercise Tolerance after Enzyme Replacement Therapy in Pompe Disease. Medicine and Science in Sports and Exercise, 2012, 44, 771-775.	0.4	11
54	Reduced exercise capacity in early-stage amyotrophic lateral sclerosis: Role of skeletal muscle. Amyotrophic Lateral Sclerosis and Other Motor Neuron Disorders, 2012, 13, 87-94.	2.1	11

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55	Ergogenic effects of beetroot juice supplementation during severe-intensity exercise in obese adolescents. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2018, 315, R453-R460.	1.8	11
56	Mechanisms of Attenuation of Pulmonary Vâ€™O2 Slow Component in Humans after Prolonged Endurance Training. PLoS ONE, 2016, 11, e0154135.	2.5	10
57	Exercise intolerance in patients with mitochondrial myopathies: perfusive and diffusive limitations in the O2 pathway. Current Opinion in Physiology, 2019, 10, 202-209.	1.8	9
58	Distinguishing the effects of convective and diffusive O₂ delivery on Vİ‡<scp>o</scp>₂ on-kinetics in skeletal muscle contracting at moderate intensity. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2013, 305, R512-R521.	1.8	8
59	Voluntary physical activity counteracts Chronic Heart Failure progression affecting both cardiac function and skeletal muscle in the transgenic TgÎ±q*44 mouse model. Physiological Reports, 2019, 7, e14161.	1.7	8
60	Changes in Skeletal Muscle Oxidative Capacity After a Trail-Running Race. International Journal of Sports Physiology and Performance, 2020, 15, 278-284.	2.3	8
61	Microvascular O2 delivery and O2 utilization during metabolic transitions in skeletal muscle. One-hundred years after the pioneering work by August Krogh. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2021, 252, 110842.	1.8	8
62	Skeletal muscle oxygen uptake in obese patients: functional evaluation by knee-extension exercise. European Journal of Applied Physiology, 2013, 113, 2125-2132.	2.5	7
63	Metabolic Transitions and Muscle Metabolic Stability: Effects of Exercise Training. , 2019, , 391-422.		5
64	Effect of acute nitrite infusion on contractile economy and metabolism in isolated skeletal muscle in situ during hypoxia. Journal of Physiology, 2020, 598, 2371-2384.	2.9	5
65	Changes in VO2 Kinetics After Elevated Baseline Do Not Necessarily Reflect Alterations in Muscle Force Production in Both Sexes. Frontiers in Physiology, 2019, 10, 471.	2.8	4
66	Obese Patients Decrease Work Rate in Order to Keep a Constant Target Heart Rate. Medicine and Science in Sports and Exercise, 2021, 53, 986-993.	0.4	4
67	Investigation on acute effects of enzyme replacement therapy and influence of clinical severity on physiological variables related to exercise tolerance in patients with late onset Pompe disease. Neuromuscular Disorders, 2017, 27, 542-549.	0.6	3
68	New data and well-established concepts. Journal of Applied Physiology, 2018, 125, 1354-1355.	2.5	3
69	A â€˜fatigue thresholdâ€™ during incremental exercise was identified (and then forgotten) 100 years ago. Journal of Physiology, 2020, 598, 2531-2532.	2.9	3
70	Decrease in work rate in order to keep a constant heart rate: biomarker of exercise intolerance following a 10-day bed rest. Journal of Applied Physiology, 2022, 132, 1569-1579.	2.5	3
71	Implications of rapid early oxygen consumption in exercising skeletal muscle: The empirical, the theoretical and the rational. Journal of Physiology, 2011, 589, 6245-6246.	2.9	2
72	Bed Rest Studies as Analogs of Conditions Encountered in Space and in Diseases. Medicine and Science in Sports and Exercise, 2018, 50, 1907-1908.	0.4	2

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73	Mathematical modeling versus experimental data: how to interpret conflicting evidence?. Journal of Applied Physiology, 2022, 132, 220-221.	2.5	2
74	Acute respiratory muscle unloading improves time-to-exhaustion during moderate- and heavy-intensity cycling in obese adolescent males. Scientific Reports, 2020, 10, 17036.	3.3	1
75	Metabolic Myopathies: â€œHuman Knockoutâ€•Models and Translational Medicine. Frontiers in Physiology, 2020, 11, 350.	2.8	1
76	Modeling the depletion and reconstitution of Wâ€²: Effects of prior exercise on cycling tolerance. Respiratory Physiology and Neurobiology, 2021, 285, 103590.	1.6	1
77	Heterogeneity of human adaptations to bed rest and hypoxia: a retrospective analysis within the skeletal muscle oxidative function. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2021, 321, R813-R822.	1.8	1
78	Irisin Attenuates Muscle Impairment during Bed Rest through Muscle-Adipose Tissue Crosstalk. Biology, 2022, 11, 999.	2.8	1