

# Davide Malatesta

## List of Publications by Year in descending order

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Version: 2024-02-01

73  
papers

1,813  
citations

377584

21  
h-index

325983

40  
g-index

74  
all docs

74  
docs citations

74  
times ranked

2516  
citing authors

#	ARTICLE	IF	CITATIONS
1	Acute performance and physiological responses to upperâ€limb multiâ€set exercise to failure: Effects of external resistance and systemic hypoxia. <i>European Journal of Sport Science</i> , 2022, 22, 1877-1888.	1.4	5
2	A Single Sacral-Mounted Inertial Measurement Unit to Estimate Peak Vertical Ground Reaction Force, Contact Time, and Flight Time in Running. <i>Sensors</i> , 2022, 22, 784.	2.1	8
3	Intraday variation in short-term maximal performance: effects of different warm-up modalities. <i>Sport Sciences for Health</i> , 2021, 17, 607-614.	0.4	0
4	Gait changes after supervised exercise training in patients with symptomatic lower extremity peripheral artery disease. <i>Vascular Medicine</i> , 2021, 26, 259-266.	0.8	11
5	Critical speed estimated by statistically appropriate fitting procedures. <i>European Journal of Applied Physiology</i> , 2021, 121, 2027-2038.	1.2	7
6	Effect of Mathematical Modeling and Fitting Procedures on the Assessment of Critical Speed and Its Relationship With Aerobic Fitness Parameters. <i>Frontiers in Physiology</i> , 2021, 12, 613066.	1.3	2
7	Mechanical work as a (key) determinant of energy cost in human locomotion: recent findings and future directions. <i>Experimental Physiology</i> , 2021, 106, 1897-1908.	0.9	29
8	Both a single sacral marker and the whole-body center of mass accurately estimate peak vertical ground reaction force in running. <i>Gait and Posture</i> , 2021, 89, 186-192.	0.6	7
9	Effect of very large body mass loss on energetics, mechanics and efficiency of walking in adults with obesity: massâ€driven versus behavioural adaptations. <i>Journal of Physiology</i> , 2021, , .	1.3	10
10	Estimating effective contact and flight times using a sacral-mounted inertial measurement unit. <i>Journal of Biomechanics</i> , 2021, 127, 110667.	0.9	2
11	Supervised Exercise Training Improves 6 min Walking Distance and Modifies Gait Pattern during Pain-Free Walking Condition in Patients with Symptomatic Lower Extremity Peripheral Artery Disease. <i>Sensors</i> , 2021, 21, 7989.	2.1	8
12	Oxygen Uptake at Critical Speed and Power in Running: Perspectives and Practical Applications. <i>International Journal of Sports Physiology and Performance</i> , 2021, , 1-7.	1.1	1
13	The Effect of Obesity Class on the Energetics and Mechanics of Walking. <i>Nutrients</i> , 2021, 13, 4546.	1.7	4
14	Monitoring Matches and Small-sided Games in Elite Young Soccer Players. <i>International Journal of Sports Medicine</i> , 2020, 41, 832-838.	0.8	5
15	Mass-normalized internal mechanical work in walking is not impaired in adults with class III obesity. <i>Journal of Applied Physiology</i> , 2020, 129, 194-203.	1.2	7
16	Commentaries on Viewpoint: Physiology and fast marathons. <i>Journal of Applied Physiology</i> , 2020, 128, 1069-1085.	1.2	12
17	Fat Oxidation Kinetics Is Related to Muscle Deoxygenation Kinetics During Exercise. <i>Frontiers in Physiology</i> , 2020, 11, 571.	1.3	7
18	Physical Activity and Endurance Training Modalities: Evidences and Perspectives. , 2020, , 1-18.		0

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19	More on the Record-Breaking Performance in a 70-Year-Old Marathoner. <i>New England Journal of Medicine</i> , 2019, 381, 293-294.	13.9	2
20	The Determinants of the Preferred Walking Speed in Individuals with Obesity. <i>Obesity Facts</i> , 2019, 12, 543-553.	1.6	12
21	Energy-saving walking mechanisms in obese adults. <i>Journal of Applied Physiology</i> , 2019, 126, 1250-1258.	1.2	8
22	Effects of Short-Term Normobaric Hypoxic Walking Training on Energetics and Mechanics of Gait in Adults with Obesity. <i>Obesity</i> , 2018, 26, 819-827.	1.5	26
23	Mechanical Determinants of the U-Shaped Speed-Energy Cost of Running Relationship. <i>Frontiers in Physiology</i> , 2018, 9, 1790.	1.3	8
24	Commentaries on Viewpoint: $\dot{V}_{I\dot{O}_2\text{peak}}$ is an acceptable estimate of cardiorespiratory fitness but not $\dot{V}_{I\dot{O}_2\text{max}}$ . <i>Journal of Applied Physiology</i> , 2018, 125, 966-967.	1.2	3
25	Accuracy of a smartphone pedometer application according to different speeds and mobile phone locations in a laboratory context. <i>Journal of Exercise Science and Fitness</i> , 2018, 16, 43-48.	0.8	25
26	Commentaries on Viewpoint: Principles, insights, and potential pitfalls of the noninvasive determination of muscle oxidative capacity by near-infrared spectroscopy. <i>Journal of Applied Physiology</i> , 2018, 124, 249-255.	1.2	6
27	Commentaries on Viewpoint: Use aerobic energy expenditure instead of oxygen uptake to quantify exercise intensity and predict endurance performance. <i>Journal of Applied Physiology</i> , 2018, 125, 676-682.	1.2	6
28	Vascular Dynamics and Peripheral Oxygen Uptake in Obese Individuals during Progressive Physical Exercise. <i>Respiration</i> , 2017, 94, 493-500.	1.2	2
29	The effect of treadmill and overground walking on preferred walking speed and gait kinematics in healthy, physically active older adults. <i>European Journal of Applied Physiology</i> , 2017, 117, 1833-1843.	1.2	63
30	Effects of Ultratrail Running on Skeletal-Muscle Oxygenation Dynamics. <i>International Journal of Sports Physiology and Performance</i> , 2017, 12, 496-504.	1.1	14
31	Walking in Hypoxia: An Efficient Treatment to Lessen Mechanical Constraints and Improve Health in Obese Individuals?. <i>Frontiers in Physiology</i> , 2017, 8, 73.	1.3	45
32	External Mechanical Work and Pendular Energy Transduction of Overground and Treadmill Walking in Adolescents with Unilateral Cerebral Palsy. <i>Frontiers in Physiology</i> , 2016, 7, 121.	1.3	17
33	Therapeutic Use of Exercising in Hypoxia: Promises and Limitations. <i>Frontiers in Physiology</i> , 2016, 7, 224.	1.3	98
34	Alterations in energy balance from an exercise intervention with ad libitum food intake. <i>Journal of Nutritional Science</i> , 2016, 5, e7.	0.7	10
35	Walking-induced muscle fatigue impairs postural control in adolescents with unilateral spastic cerebral palsy. <i>Research in Developmental Disabilities</i> , 2016, 53-54, 11-18.	1.2	12
36	Reply to letter: The role of participation sampling and statistical analysis in medical research. <i>European Journal of Applied Physiology</i> , 2016, 116, 441-442.	1.2	0

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37	Alterations In Energy Balance From An Exercise Intervention With Ad Libitum Food Intake. <i>Medicine and Science in Sports and Exercise</i> , 2015, 47, 861.	0.2	0
38	Short-term HIIT and Fat <sub>max</sub> training increase aerobic and metabolic fitness in men with class II and III obesity. <i>Obesity</i> , 2015, 23, 1987-1994.	1.5	53
39	Energetics and mechanics of walking in patients with chronic low back pain and healthy matched controls. <i>European Journal of Applied Physiology</i> , 2015, 115, 2433-2443.	1.2	20
40	Effects of Three Types of Exercise Interventions on Healthy Old Adults's Gait Speed: A Systematic Review and Meta-Analysis. <i>Sports Medicine</i> , 2015, 45, 1627-1643.	3.1	126
41	Long Maximal Incremental Tests Accurately Assess Aerobic Fitness in Class II and III Obese Men. <i>PLoS ONE</i> , 2015, 10, e0124180.	1.1	6
42	Fat Oxidation, Hormonal and Plasma Metabolite Kinetics during a Submaximal Incremental Test in Lean and Obese Adults. <i>PLoS ONE</i> , 2014, 9, e88707.	1.1	37
43	Acute Post-Exercise Oxygen Uptake, Hormone and Plasma Metabolite Response in Obese Men. <i>Hormone and Metabolic Research</i> , 2014, 46, 521-527.	0.7	0
44	Reproducibility of Fatmax and Fat Oxidation Rates during Exercise in Recreationally Trained Males. <i>PLoS ONE</i> , 2014, 9, e97930.	1.1	44
45	Effect of obesity onset on pendular energy transduction at spontaneous walking speed: Prader-Willi versus nonsyndromal obese individuals. <i>Obesity</i> , 2013, 21, E586-91.	1.5	17
46	Comments on Point:Counterpoint: Skeletal muscle mechanical efficiency does/does not increase with age. <i>Journal of Applied Physiology</i> , 2013, 114, 1114-1118.	1.2	3
47	Counterpoint: Skeletal muscle mechanical efficiency does not increase with age. <i>Journal of Applied Physiology</i> , 2013, 114, 1109-1111.	1.2	7
48	Unstable Shoes Increase Energy Expenditure of Obese Patients. <i>American Journal of Medicine</i> , 2012, 125, 513-516.	0.6	11
49	Effects of prior short multiple-sprint exercises with different intersprint recoveries on the slow component of oxygen uptake during high-intensity exercise. <i>Applied Physiology, Nutrition and Metabolism</i> , 2012, 37, 1080-1090.	0.9	5
50	Effects of 2 different prior endurance exercises on whole-body fat oxidation kinetics: light vs. heavy exercise. <i>Applied Physiology, Nutrition and Metabolism</i> , 2012, 37, 955-964.	0.9	8
51	Effect of an 8-weeks aerobic training program in elderly on oxidative stress and Hsp72 expression in leukocytes during antioxidant supplementation. <i>Journal of Nutrition, Health and Aging</i> , 2012, 16, 155-161.	1.5	19
52	Maximal lipid oxidation during exercise: a target for individualizing endurance training in obesity and diabetes?. <i>Journal of Endocrinological Investigation</i> , 2012, 35, 686-91.	1.8	11
53	Gender differences in whole-body fat oxidation kinetics during exercise. <i>Applied Physiology, Nutrition and Metabolism</i> , 2011, 36, 88-95.	0.9	43
54	Are Oxygen Uptake Kinetics Modified When Using a Respiratory Snorkel?. <i>International Journal of Sports Physiology and Performance</i> , 2010, 5, 292-300.	1.1	13

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55	Differences in whole-body fat oxidation kinetics between cycling and running. <i>European Journal of Applied Physiology</i> , 2010, 109, 1037-1045.	1.2	38
56	Effect of an overground walking training on gait performance in healthy 65- to 80-year-olds. <i>Experimental Gerontology</i> , 2010, 45, 427-434.	1.2	34
57	Effect of a 1-hour single bout of moderate-intensity exercise on fat oxidation kinetics. <i>Metabolism: Clinical and Experimental</i> , 2009, 58, 1778-1786.	1.5	18
58	Mechanical External Work and Recovery at Preferred Walking Speed in Obese Subjects. <i>Medicine and Science in Sports and Exercise</i> , 2009, 41, 426-434.	0.2	75
59	Effect of High-Intensity Interval Exercise on Lipid Oxidation during Postexercise Recovery. <i>Medicine and Science in Sports and Exercise</i> , 2009, 41, 364-374.	0.2	45
60	Effects of In-Season Plyometric Training Within Soccer Practice on Explosive Actions of Young Players. <i>Journal of Strength and Conditioning Research</i> , 2009, 23, 2605-2613.	1.0	204
61	A Mathematical Model to Describe Fat Oxidation Kinetics during Graded Exercise. <i>Medicine and Science in Sports and Exercise</i> , 2009, 41, 1615-1625.	0.2	43
62	Is a progressive recruitment of muscle fibers required for the development of the slow component of $\dot{V}O_2$ kinetics?. <i>Journal of Applied Physiology</i> , 2009, 106, 746-746.	1.2	7
63	Physical Activity Modulates Heat Shock Protein-72 Expression and Limits Oxidative Damage Accumulation in a Healthy Elderly Population Aged 60-90 Years. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2007, 62, 1413-1419.	1.7	27
64	Effects of the transition time between muscle-tendon stretch and shortening on mechanical efficiency. <i>European Journal of Applied Physiology</i> , 2006, 96, 665-671.	1.2	5
65	Aerobic and Functional Capacities in a Selected Active Population of European Octogenarians. <i>International Journal of Sports Medicine</i> , 2005, 26, 128-133.	0.8	10
66	Response of bone metabolism related hormones to a single session of strenuous exercise in active elderly subjects. <i>British Journal of Sports Medicine</i> , 2005, 39, 497-502.	3.1	55
67	Effect of age on Hsp72 expression in leukocytes of healthy active people. <i>Experimental Gerontology</i> , 2004, 39, 1467-1474.	1.2	25
68	Aerobic determinants of the decline in preferred walking speed in healthy, active 65- and 80-year-olds. <i>Pflügers Archiv European Journal of Physiology</i> , 2004, 447, 915-921.	1.3	49
69	Analyse fractale de la marche : application au sujet âgé. <i>Science Et Motricite</i> , 2004, , 83-103.	0.3	1
70	Energy cost of walking and gait instability in healthy 65- and 80-yr-olds. <i>Journal of Applied Physiology</i> , 2003, 95, 2248-2256.	1.2	193
71	Effects of Electromyostimulation Training and Volleyball Practice on Jumping Ability. <i>Journal of Strength and Conditioning Research</i> , 2003, 17, 573.	1.0	73
72	Effet d'une épreuve cycliste de 140 km sur la puissance maximale anaérobie. <i>Science and Sports</i> , 2002, 17, 260-262.	0.2	0

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73	Examination of running pattern consistency across speeds. Sports Biomechanics, 0, , 1-15.	0.8	2