

# David Montero

## List of Publications by Year in descending order

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Version: 2024-02-01

88  
papers

1,984  
citations

304743

22  
h-index

276875

41  
g-index

88  
all docs

88  
docs citations

88  
times ranked

2844  
citing authors

#	ARTICLE	IF	CITATIONS
1	Refuting the myth of non-response to exercise training: "non-responders" do respond to higher dose of training. <i>Journal of Physiology</i> , 2017, 595, 3377-3387.	2.9	240
2	Haematological rather than skeletal muscle adaptations contribute to the increase in peak oxygen uptake induced by moderate endurance training. <i>Journal of Physiology</i> , 2015, 593, 4677-4688.	2.9	137
3	Acute Hyperglycemia Impairs Vascular Function in Healthy and Cardiometabolic Diseased Subjects. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2015, 35, 2060-2072.	2.4	83
4	Endurance Training and $\dot{V}\dot{E}^{\text{TM}}\text{O}_2\text{max}$ . <i>Medicine and Science in Sports and Exercise</i> , 2015, 47, 2024-2033.	0.4	82
5	Vascular smooth muscle function in type 2 diabetes mellitus: a systematic review and meta-analysis. <i>Diabetologia</i> , 2013, 56, 2122-2133.	6.3	73
6	No Improved Performance With Repeated-Sprint Training in Hypoxia Versus Normoxia: A Double-Blind and Crossover Study. <i>International Journal of Sports Physiology and Performance</i> , 2017, 12, 161-167.	2.3	73
7	Sexual dimorphism of substrate utilization: Differences in skeletal muscle mitochondrial volume density and function. <i>Experimental Physiology</i> , 2018, 103, 851-859.	2.0	72
8	The impact of aerobic exercise training on arterial stiffness in pre- and hypertensive subjects: A systematic review and meta-analysis. <i>International Journal of Cardiology</i> , 2014, 173, 361-368.	1.7	69
9	Erythropoiesis with endurance training: dynamics and mechanisms. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2017, 312, R894-R902.	1.8	68
10	Effect of antioxidant vitamin supplementation on endothelial function in type 2 diabetes mellitus: a systematic review and meta-analysis of randomized controlled trials. <i>Obesity Reviews</i> , 2014, 15, 107-116.	6.5	67
11	Regulation of Red Blood Cell Volume with Exercise Training. , 2018, 9, 149-164.		55
12	Effects of Exercise Training on Arterial Function in Type 2 Diabetes Mellitus. <i>Sports Medicine</i> , 2013, 43, 1191-1199.	6.5	50
13	Effect of combined aerobic and resistance training versus aerobic training on arterial stiffness. <i>International Journal of Cardiology</i> , 2015, 178, 69-76.	1.7	50
14	Effect of Aerobic Exercise Training on Arterial Stiffness in Obese Populations. <i>Sports Medicine</i> , 2014, 44, 833-843.	6.5	49
15	Sex Dimorphism of $\text{VO}_2\text{max}$ Trainability: A Systematic Review and Meta-analysis. <i>Sports Medicine</i> , 2019, 49, 1949-1956.	6.5	47
16	The association of cardiorespiratory fitness with endothelial or smooth muscle vasodilator function. <i>European Journal of Preventive Cardiology</i> , 2015, 22, 1200-1211.	1.8	46
17	Flow-Mediated Dilation in Athletes. <i>Medicine and Science in Sports and Exercise</i> , 2014, 46, 2148-2158.	0.4	44
18	Endurance training and maximal oxygen consumption with ageing: Role of maximal cardiac output and oxygen extraction. <i>European Journal of Preventive Cardiology</i> , 2016, 23, 733-743.	1.8	39

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19	Sex differences in cardiorespiratory fitness are explained by blood volume and oxygen carrying capacity. <i>Cardiovascular Research</i> , 2022, 118, 334-343.	3.8	36
20	Microvascular Dilator Function in Athletes. <i>Medicine and Science in Sports and Exercise</i> , 2015, 47, 1485-1494.	0.4	34
21	Effects of Exercise Training in Hypoxia Versus Normoxia on Vascular Health. <i>Sports Medicine</i> , 2016, 46, 1725-1736.	6.5	32
22	The impact of age on vascular smooth muscle function in humans. <i>Journal of Hypertension</i> , 2015, 33, 445-453.	0.5	28
23	Five weeks of heat training increases haemoglobin mass in elite cyclists. <i>Experimental Physiology</i> , 2021, 106, 316-327.	2.0	28
24	CrossTalk opposing view: Diffusion limitation of O <sub>2</sub> from microvessels into muscle does not contribute to the limitation of. <i>Journal of Physiology</i> , 2015, 593, 3759-3761.	2.9	25
25	The Impact of Sex on Left Ventricular Cardiac Adaptations to Endurance Training: a Systematic Review and Meta-analysis. <i>Sports Medicine</i> , 2020, 50, 1501-1513.	6.5	25
26	Arterial oxygen content regulates plasma erythropoietin independent of arterial oxygen tension: a blinded crossover study. <i>Kidney International</i> , 2019, 95, 173-177.	5.2	23
27	Red cell volume response to exercise training: Association with aging. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2017, 27, 674-683.	2.9	21
28	Effects of Exercise Intensity on Microvascular Function in Obese Adolescents. <i>International Journal of Sports Medicine</i> , 2018, 39, 450-455.	1.7	21
29	Effects of a Lifestyle Program on Vascular Reactivity in Macro- and Microcirculation in Severely Obese Adolescents. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2014, 99, 1019-1026.	3.6	20
30	Physical Activity Is Associated With Glucose Tolerance Independent of Microvascular Function: The Maastricht Study. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2016, 101, 3324-3332.	3.6	18
31	Arterial stiffness is strongly and negatively associated with the total volume of red blood cells. <i>International Journal of Cardiology</i> , 2016, 221, 77-80.	1.7	17
32	True Anemia—Red Blood Cell Volume Deficit—in Heart Failure. <i>Circulation: Heart Failure</i> , 2017, 10, .	3.9	16
33	Increased capillary density in skeletal muscle is not associated with impaired insulin sensitivity induced by bed rest in healthy young men. <i>Applied Physiology, Nutrition and Metabolism</i> , 2018, 43, 1334-1340.	1.9	15
34	Erythropoietin response to anaemia in heart failure. <i>European Journal of Preventive Cardiology</i> , 2019, 26, 7-17.	1.8	15
35	The role of blood volume in cardiac dysfunction and reduced exercise tolerance in patients with diabetes. <i>Lancet Diabetes and Endocrinology</i> , 2019, 7, 807-816.	11.4	14
36	Did you know—why does maximal oxygen uptake increase in humans following endurance exercise training?. <i>Acta Physiologica</i> , 2019, 227, e13371.	3.8	14

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37	The Effect of Exercise Training on the Energetic Cost of Cycling. <i>Sports Medicine</i> , 2015, 45, 1603-1618.	6.5	13
38	Leg arterial stiffness after weight loss in severely obese adolescents. <i>International Journal of Cardiology</i> , 2013, 168, 1676-1677.	1.7	12
39	Hemodynamic actions of insulin: beyond the endothelium. <i>Frontiers in Physiology</i> , 2013, 4, 389.	2.8	11
40	Exercise intolerance in heart failure with preserved ejection fraction: time to scrutinize diuretic therapy?. <i>European Journal of Heart Failure</i> , 2017, 19, 971-973.	7.1	11
41	Determinants of exercise intolerance in heart failure with preserved ejection fraction: A systematic review and meta-analysis. <i>International Journal of Cardiology</i> , 2018, 254, 224-229.	1.7	11
42	Sex dimorphism in cardiac and aerobic capacities: The influence of body composition. <i>Obesity</i> , 2021, 29, 1749-1759.	3.0	11
43	Effect of Exercise on Arterial Stiffness: Is There a Ceiling Effect?. <i>American Journal of Hypertension</i> , 2017, 30, 1069-1072.	2.0	10
44	Maximal cardiac output in athletes: Influence of age. <i>European Journal of Preventive Cardiology</i> , 2015, 22, 1588-1600.	1.8	9
45	Unveiling women's powerhouse. <i>Experimental Physiology</i> , 2020, 105, 1060-1062.	2.0	9
46	Decreased microvascular myogenic response to insulin in severely obese adolescents. <i>Clinical Hemorheology and Microcirculation</i> , 2014, 57, 23-32.	1.7	8
47	Brain Perfusion and Arterial Blood Flow Velocity During Prolonged Body Tilting. <i>Aerospace Medicine and Human Performance</i> , 2016, 87, 682-687.	0.4	8
48	Unexplained Anemia in the Elderly: Potential Role of Arterial Stiffness. <i>Frontiers in Physiology</i> , 2016, 7, 485.	2.8	8
49	Female sex-specific curtailment of left ventricular volume and mass in HFpEF patients with high end-diastolic filling pressure. <i>Journal of Human Hypertension</i> , 2021, 35, 296-299.	2.2	8
50	Reduced arteriovenous oxygen difference in heart failure with preserved ejection fraction patients: Is the muscle oxidative phenotype certainly involved?. <i>European Journal of Preventive Cardiology</i> , 2017, 24, 1157-1160.	1.8	7
51	Combined effects of physical inactivity and acute hyperglycemia on arterial distensibility. <i>Vascular Medicine</i> , 2017, 22, 285-291.	1.5	7
52	Relationship of loop diuretic use with exercise intolerance in heart failure with preserved ejection fraction. <i>European Heart Journal - Cardiovascular Pharmacotherapy</i> , 2018, 4, 138-141.	3.0	7
53	Enhanced Conduit Artery Flow-Mediated Dilation in Elite Athletes. <i>Medicine and Science in Sports and Exercise</i> , 2013, 45, 1219.	0.4	6
54	Hypovolemia and reduced hemoglobin mass in patients with heart failure and preserved ejection fraction. <i>Physiological Reports</i> , 2019, 7, e14222.	1.7	6

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55	Sex and age interaction in fundamental circulatory volumetric variables at peak working capacity. <i>Biology of Sex Differences</i> , 2022, 13, 1.	4.1	6
56	Differences in Cardiac Output and Aerobic Capacity Between Sexes Are Explained by Blood Volume and Oxygen Carrying Capacity. <i>Frontiers in Physiology</i> , 2022, 13, 747903.	2.8	6
57	Arterial stiffness in obese populations: Is it reduced by aerobic training?. <i>International Journal of Cardiology</i> , 2014, 176, 280-281.	1.7	5
58	Enhanced Performance after Repeated Sprint Training in Hypoxia. <i>Medicine and Science in Sports and Exercise</i> , 2015, 47, 2483.	0.4	5
59	Effect of Beta-blocker Treatment on $\dot{V}E^{\text{TM}}\text{O}_2\text{peak}$ in Patients with Heart Failure. <i>Medicine and Science in Sports and Exercise</i> , 2018, 50, 889-896.	0.4	4
60	Relationship between plasma volume and essential blood constituents in patients with heart failure and preserved ejection fraction. <i>Clinical Physiology and Functional Imaging</i> , 2020, 40, 131-138.	1.2	4
61	Blood Oxygen Carrying Capacity Determines Cardiorespiratory Fitness in Middle-Age and Older Women and Men. <i>Medicine and Science in Sports and Exercise</i> , 2021, 53, 2274-2282.	0.4	4
62	Sex Differences in Orthostatic Tolerance Are Mainly Explained by Blood Volume and Oxygen Carrying Capacity. , 2022, 4, e0608.		4
63	Is Swimming an Alternative to Land-Based Exercise to Prevent Arterial Stiffness?. <i>American Journal of Cardiology</i> , 2013, 112, 307-308.	1.6	3
64	Arterial dilator function in athletes: present and future perspectives. <i>Frontiers in Physiology</i> , 2015, 6, 163.	2.8	3
65	Erythropoietin on cycling performance. <i>Lancet Haematology</i> , the, 2017, 4, e460-e461.	4.6	3
66	Body height is inversely associated with left ventricular end-diastolic pressure in heart failure with preserved ejection fraction. <i>European Journal of Preventive Cardiology</i> , 2020, 27, 1116-1118.	1.8	3
67	Sex specificity in orthostatic tolerance: the integration of haematological, cardiac, and endocrine factors. <i>European Journal of Preventive Cardiology</i> , 2022, 29, e246-e248.	1.8	3
68	The association between dynamical and averaging characterization of LDF skin blood flow: An integrated approach. <i>Microvascular Research</i> , 2013, 89, 159-160.	2.5	2
69	Rebuttal from Carsten Lundby and David Montero. <i>Journal of Physiology</i> , 2015, 593, 3765-3765.	2.9	2
70	Comment on Prior et al. Increased Skeletal Muscle Capillarization Independently Enhances Insulin Sensitivity in Older Adults After Exercise Training and Detraining. <i>Diabetes</i> 2015;64:3386-3395. <i>Diabetes</i> , 2016, 65, e11-e12.	0.6	2
71	Glutathione-dependent enzyme activities of peripheral blood mononuclear cells decrease during the winter season compared with the summer in normal-weight and severely obese adolescents. <i>Journal of Physiology and Biochemistry</i> , 2019, 75, 321-327.	3.0	2
72	Skeletal Muscle O <sub>2</sub> Diffusion and the Limitation of Aerobic Capacity in Heart Failure: A Clarification. <i>Frontiers in Cardiovascular Medicine</i> , 2019, 6, 78.	2.4	2

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73	Intravascular albumin loss is strongly associated with plasma volume withdrawal in dialysis patients. <i>Hemodialysis International</i> , 2021, 25, 86-93.	0.9	2
74	Blood volume primarily determines orthostatic tolerance in women. <i>Journal of Internal Medicine</i> , 2022, 291, 371-373.	6.0	2
75	Effects of blood withdrawal on cardiac, hemodynamic, and pulmonary responses to a moderate acute workload in healthy middle-aged and older females. <i>Journal of Science and Medicine in Sport</i> , 2022, 25, 198-203.	1.3	2
76	Blood withdrawal acutely impairs cardiac filling, output and aerobic capacity in proportion to induced hypovolemia in middle-aged and older women. <i>Applied Physiology, Nutrition and Metabolism</i> , 2022, 47, 75-82.	1.9	2
77	Age-dependent impairment of the erythropoietin response to reduced central venous pressure in HFpEF patients. <i>Physiological Reports</i> , 2019, 7, e14021.	1.7	1
78	Effects of hemodialysis on blood volume, macro- and microvascular function. <i>Microvascular Research</i> , 2020, 129, 103958.	2.5	1
79	Changes in the profile of circulating HDL subfractions in severe obese adolescents following a weight reduction program. <i>Nutrition, Metabolism and Cardiovascular Diseases</i> , 2021, 31, 1586-1593.	2.6	1
80	Sex-Specific Effect of Blood Oxygen-Carrying Capacity on Orthostatic Tolerance in Older Individuals. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2021, . .	3.6	1
81	Marked improvements in cardiac function in postmenopausal women exposed to blood withdrawal plus endurance training. <i>Journal of Sports Sciences</i> , 2022, 40, 1609-1617.	2.0	1
82	Arterial stiffness response to exercise training: Unequivocal explanations?. <i>International Journal of Cardiology</i> , 2015, 187, 598-599.	1.7	0
83	Response. <i>Medicine and Science in Sports and Exercise</i> , 2016, 48, 764-765.	0.4	0
84	Do Distinct Exercise Modalities Have Identical Effects on Arterial Stiffness?. <i>American Journal of Cardiology</i> , 2016, 117, 1030.	1.6	0
85	Author's Reply to Sani et al.: "Effects of Exercise Training in Hypoxia Versus Normoxia on Vascular Health: Comments on Clinical Importance" Facing Common Misconceptions Concerning Meta-Analysis in Biomedical Research. <i>Sports Medicine</i> , 2016, 46, 1769-1770.	6.5	0
86	Letter by Montero Regarding Article, "Reversing the Cardiac Effects of Sedentary Aging in Middle Age" A Randomized Controlled Trial: Implications for Heart Failure Prevention. <i>Circulation</i> , 2018, 138, 1757-1758.	1.6	0
87	Reply from David Montero and Carsten Lundby. <i>Journal of Physiology</i> , 2018, 596, 3809-3809.	2.9	0
88	Reply to Senefeld et al: Comment on "Sex Dimorphism of VO <sub>2</sub> max Trainability: A Systematic Review and Meta-analysis". <i>Sports Medicine</i> , 2020, 50, 1049-1050.	6.5	0