

# Richard Hughson

## List of Publications by Year in descending order

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288  
papers

11,983  
citations

23567

58  
h-index

38395

95  
g-index

290  
all docs

290  
docs citations

290  
times ranked

7132  
citing authors

#	ARTICLE	IF	CITATIONS
1	Autonomic control of heart rate during exercise studied by heart rate variability spectral analysis. <i>Journal of Applied Physiology</i> , 1991, 71, 1136-1142.	2.5	339
2	Coarse-graining spectral analysis: new method for studying heart rate variability. <i>Journal of Applied Physiology</i> , 1991, 71, 1143-1150.	2.5	336
3	Spontaneous Cardiac Baroreflex in Humans. <i>Hypertension</i> , 1995, 25, 1058-1068.	2.7	333
4	Acceleration of $\dot{V}E_{TMO_2}$ kinetics in heavy submaximal exercise by hyperoxia and prior high-intensity exercise. <i>Journal of Applied Physiology</i> , 1997, 83, 1318-1325.	2.5	255
5	Interaction of factors determining oxygen uptake at the onset of exercise. <i>Journal of Applied Physiology</i> , 1999, 86, 1101-1113.	2.5	206
6	Effects of aerobic training on heart rate dynamics in sedentary subjects. <i>Journal of Applied Physiology</i> , 2003, 95, 364-372.	2.5	185
7	Progressive effect of endurance training on $VO_2$ kinetics at the onset of submaximal exercise. <i>Journal of Applied Physiology</i> , 1995, 79, 1914-1920.	2.5	180
8	Anaerobic threshold, blood lactate, and muscle metabolites in progressive exercise. <i>Journal of Applied Physiology</i> , 1983, 54, 1032-1038.	2.5	179
9	Alveolar oxygen uptake and femoral artery blood flow dynamics in upright and supine leg exercise in humans. <i>Journal of Applied Physiology</i> , 1998, 85, 1622-1628.	2.5	162
10	Heart in space: effect of the extraterrestrial environment on the cardiovascular system. <i>Nature Reviews Cardiology</i> , 2018, 15, 167-180.	13.7	161
11	Effects of exercise and passive head-up tilt on fractal and complexity properties of heart rate dynamics. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2001, 280, H1081-H1087.	3.2	158
12	Dependence of muscle $\dot{V}E_{TMO_2}$ on blood flow dynamics at onset of forearm exercise. <i>Journal of Applied Physiology</i> , 1996, 81, 1619-1626.	2.5	157
13	Changes in lumbar lordosis modify the role of the extensor muscles. <i>Clinical Biomechanics</i> , 2000, 15, 777-780.	1.2	152
14	Increased postflight carotid artery stiffness and in-flight insulin resistance resulting from 6-mo spaceflight in male and female astronauts. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2016, 310, H628-H638.	3.2	145
15	A computer linear regression model to determine ventilatory anaerobic threshold. <i>Journal of Applied Physiology</i> , 1982, 52, 1349-1352.	2.5	144
16	Blood lactate concentration increases as a continuous function in progressive exercise. <i>Journal of Applied Physiology</i> , 1987, 62, 1975-1981.	2.5	142
17	Spontaneous baroreflex by sequence and power spectral methods in humans. <i>Clinical Physiology</i> , 1993, 13, 663-676.	0.7	140
18	Comparison of oxygen uptake kinetics during concentric and eccentric cycle exercise. <i>Journal of Applied Physiology</i> , 2001, 91, 2135-2142.	2.5	138

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19	A High Velocity Treadmill Running Test to Assess Endurance Running Potential*. International Journal of Sports Medicine, 1984, 05, 23-25.	1.7	133
20	Delayed kinetics of respiratory gas exchange in the transition from prior exercise. Journal of Applied Physiology, 1982, 52, 921-929.	2.5	132
21	Heart Rate Variability at Rest and Exercise: Influence of Age, Gender, and Physical Training. Applied Physiology, Nutrition, and Metabolism, 1996, 21, 455-470.	1.7	129
22	Lumbar erector spinae oxygenation during prolonged contractions: implications for prolonged work. Ergonomics, 2000, 43, 486-493.	2.1	127
23	Validation of the Hexoskin wearable vest during lying, sitting, standing, and walking activities. Applied Physiology, Nutrition and Metabolism, 2015, 40, 1019-1024.	1.9	127
24	Regulation of Oxygen Consumption at the Onset of Exercise. Exercise and Sport Sciences Reviews, 2001, 29, 129-133.	3.0	126
25	Vasodilation and muscle pump contribution to immediate exercise hyperemia. American Journal of Physiology - Heart and Circulatory Physiology, 1996, 271, H1697-H1701.	3.2	124
26	Extracting fractal components from time series. Physica D: Nonlinear Phenomena, 1993, 68, 250-264.	2.8	121
27	Physiological Demands of the Firefighter Candidate Physical Ability Test. Medicine and Science in Sports and Exercise, 2009, 41, 653-662.	0.4	120
28	Modeling Heart Rate Variability in Healthy Humans: A Turbulence Analogy. Physical Review Letters, 2001, 86, 1650-1653.	7.8	117
29	Flow-mediated dilation in human brachial artery after different circulatory occlusion conditions. American Journal of Physiology - Heart and Circulatory Physiology, 2004, 286, H442-H448.	3.2	117
30	Sympathetic and parasympathetic indicators of heart rate control at altitude studied by spectral analysis. Journal of Applied Physiology, 1994, 77, 2537-2542.	2.5	112
31	Bone marrow fat accumulation after 60 days of bed rest persisted 1 year after activities were resumed along with hemopoietic stimulation: the Women International Space Simulation for Exploration study. Journal of Applied Physiology, 2009, 107, 540-548.	2.5	110
32	Effects of pharmacological adrenergic and vagal modulation on fractal heart rate dynamics. Clinical Physiology, 2001, 21, 515-523.	0.7	109
33	Effect of acute sympathetic nervous system activation on flow-mediated dilation of brachial artery. American Journal of Physiology - Heart and Circulatory Physiology, 2006, 290, H1446-H1453.	3.2	103
34	Contributions of acetylcholine and nitric oxide to forearm blood flow at exercise onset and recovery. American Journal of Physiology - Heart and Circulatory Physiology, 1997, 273, H2388-H2395.	3.2	101
35	Heart rate variability and fractal dimension during orthostatic challenges. Journal of Applied Physiology, 1993, 75, 2602-2612.	2.5	92
36	Comparison of femoral blood gases and muscle near-infrared spectroscopy at exercise onset in humans. Journal of Applied Physiology, 1999, 86, 687-693.	2.5	90

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37	Kinetics of oxygen uptake at the onset of exercise near or above peak oxygen uptake. <i>Journal of Applied Physiology</i> , 2000, 88, 1812-1819.	2.5	87
38	Gas exchange, blood lactate, and plasma catecholamines during incremental exercise in hypoxia and normoxia. <i>Journal of Applied Physiology</i> , 1995, 79, 1134-1141.	2.5	86
39	Oxygen uptake kinetics during two bouts of heavy cycling separated by fatiguing sprint exercise in humans. <i>Journal of Applied Physiology</i> , 2003, 94, 533-541.	2.5	86
40	Effects of acetylcholine and nitric oxide on forearm blood flow at rest and after a single muscle contraction. <i>Journal of Applied Physiology</i> , 1998, 85, 2249-2254.	2.5	84
41	Kinetics of Oxygen Uptake for Submaximal Exercise in Hyperoxia, Normoxia, and Hypoxia. <i>Applied Physiology, Nutrition, and Metabolism</i> , 1995, 20, 198-210.	1.7	82
42	WISE 2005: stroke volume changes contribute to the pressor response during ischemic handgrip exercise in women. <i>Journal of Applied Physiology</i> , 2007, 103, 228-233.	2.5	81
43	Alterations in blood volume following short-term supramaximal exercise. <i>Journal of Applied Physiology</i> , 1984, 56, 145-149.	2.5	79
44	Faster O <sub>2</sub> uptake kinetics at onset of supine exercise with than without lower body negative pressure. <i>Journal of Applied Physiology</i> , 1993, 75, 1962-1967.	2.5	79
45	Critical Analysis of Cerebrovascular Autoregulation During Repeated Head-Up Tilt. <i>Stroke</i> , 2001, 32, 2403-2408.	2.0	79
46	Cardiovascular regulation during long-duration spaceflights to the International Space Station. <i>Journal of Applied Physiology</i> , 2012, 112, 719-727.	2.5	78
47	Reduced spontaneous baroreflex response slope during lower body negative pressure after 28 days of head-down bed rest. <i>Journal of Applied Physiology</i> , 1994, 77, 69-77.	2.5	75
48	Cardiorespiratory kinetics and femoral artery blood velocity during dynamic knee extension exercise. <i>Journal of Applied Physiology</i> , 1994, 77, 2625-2632.	2.5	71
49	Blood flow and muscle oxygen uptake at the onset and end of moderate and heavy dynamic forearm exercise. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2001, 280, R1741-R1747.	1.8	71
50	WISE 2005: chronic bed rest impairs microcirculatory endothelium in women. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2007, 293, H3159-H3164.	3.2	70
51	Beat-by-beat forearm blood flow with Doppler ultrasound and strain-gauge plethysmography. <i>Journal of Applied Physiology</i> , 1995, 79, 713-719.	2.5	68
52	Impaired cerebrovascular autoregulation and reduced CO <sub>2</sub> reactivity after long duration spaceflight. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2012, 302, H2592-H2598.	3.2	67
53	Kinetics of oxygen uptake at the onset of exercise in boys and men. <i>Journal of Applied Physiology</i> , 1998, 85, 1833-1841.	2.5	66
54	The effects of lumbar massage on muscle fatigue, muscle oxygenation, low back discomfort, and driver performance during prolonged driving. <i>Ergonomics</i> , 2006, 49, 28-44.	2.1	66

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55	Vasodilation contributes to the rapid hyperemia with rhythmic contractions in humans. <i>Canadian Journal of Physiology and Pharmacology</i> , 1998, 76, 418-427.	1.4	65
56	Adaptation of blood flow during the rest to work transition in humans. <i>Medicine and Science in Sports and Exercise</i> , 1999, 31, 1019-1026.	0.4	64
57	Exploring cardiorespiratory control mechanisms through gas exchange dynamics. <i>Medicine and Science in Sports and Exercise</i> , 1990, 22, 727-729.	0.4	61
58	Kinetics of VO <sub>2</sub> with impulse and step exercise in humans. <i>Journal of Applied Physiology</i> , 1988, 64, 451-459.	2.5	60
59	Oxygen uptake kinetics: historical perspective and future directions. <i>Applied Physiology, Nutrition and Metabolism</i> , 2009, 34, 840-850.	1.9	60
60	Autonomic Nervous System Responses to Exercise in Relation to Ventilatory Threshold. <i>Chest</i> , 1992, 101, 206S-210S.	0.8	59
61	Prior moderate and heavy exercise accelerate oxygen uptake and cardiac output kinetics in endurance athletes. <i>Journal of Applied Physiology</i> , 2009, 106, 1553-1563.	2.5	59
62	WISE-2005: effect of aerobic and resistive exercises on orthostatic tolerance during 60 days bed rest in women. <i>European Journal of Applied Physiology</i> , 2009, 106, 217-227.	2.5	59
63	Blood acid-base and lactate relationships studied by ramp work tests. <i>Medicine and Science in Sports and Exercise</i> , 1982, 14, 297-302.	0.4	58
64	Delayed Kinetics of $\dot{V}_{O_2}$ in the Transition from Prior Exercise. Evidence for O <sub>2</sub> Transport Limitation of $\dot{V}_{O_2}$ Kinetics: A Review*. <i>International Journal of Sports Medicine</i> , 1983, 04, 31-39.	1.7	58
65	Cerebral blood flow during orthostasis: role of arterial CO <sub>2</sub> . <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2006, 290, R1087-R1093.	1.8	58
66	Forearm blood flow by Doppler ultrasound during rest and exercise: tests of day-to-day repeatability. <i>Medicine and Science in Sports and Exercise</i> , 1996, 28, 1144-1149.	0.4	58
67	Alignment of ventilation and gas fraction for breath-by-breath respiratory gas exchange calculations in exercise. <i>Journal of Biomedical Informatics</i> , 1991, 24, 118-128.	0.7	57
68	Time course of brachial artery diameter responses to rhythmic handgrip exercise in humans. <i>Cardiovascular Research</i> , 1997, 35, 125-131.	3.8	56
69	Failure of prostaglandins to modulate the time course of blood flow during dynamic forearm exercise in humans. <i>Journal of Applied Physiology</i> , 1996, 81, 1516-1521.	2.5	55
70	Peripheral circulatory factors limit rate of increase in muscle O <sub>2</sub> uptake at onset of heavy exercise. <i>Journal of Applied Physiology</i> , 2001, 90, 83-89.	2.5	55
71	On the fractal nature of heart rate variability in humans: effects of vagal blockade. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 1995, 269, R830-R837.	1.8	54
72	Kinetics of ventilation and gas exchange during supine and upright cycle exercise. <i>European Journal of Applied Physiology and Occupational Physiology</i> , 1991, 63, 300-307.	1.2	53

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73	Cerebral hemodynamics and resistance exercise. <i>Medicine and Science in Sports and Exercise</i> , 2002, 34, 1207-1211.	0.4	53
74	Modelflow estimates of cardiac output compared with Doppler ultrasound during acute changes in vascular resistance in women. <i>Experimental Physiology</i> , 2010, 95, 561-568.	2.0	53
75	Non-contact hemodynamic imaging reveals the jugular venous pulse waveform. <i>Scientific Reports</i> , 2017, 7, 40150.	3.3	53
76	Alterations in the oxygen deficit-oxygen debt relationships with beta-adrenergic receptor blockade in man.. <i>Journal of Physiology</i> , 1984, 349, 375-387.	2.9	52
77	Reduced orthostatic tolerance following 4 h head-down tilt. <i>European Journal of Applied Physiology and Occupational Physiology</i> , 1991, 62, 26-30.	1.2	52
78	Cardiac Baroreflex during the Postoperative Period in Patients with Hypertension. <i>Anesthesiology</i> , 1999, 90, 681-692.	2.5	52
79	Dynamic modulation of cerebrovascular resistance as an index of autoregulation under tilt and controlled $P_{scv}$ $CO_2$ . <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2002, 283, R653-R662.	1.8	51
80	Measurements of Cardiac Output During Constant Exercises: Comparison of Two Non-Invasive Techniques. <i>International Journal of Sports Medicine</i> , 2004, 25, 145-149.	1.7	51
81	Lower body negative pressure exercise plus brief postexercise lower body negative pressure improve post-bed rest orthostatic tolerance. <i>Journal of Applied Physiology</i> , 2007, 103, 1964-1972.	2.5	51
82	Oxygen uptake kinetics from ramp work tests: variability of single test values. <i>Journal of Applied Physiology</i> , 1986, 61, 373-376.	2.5	50
83	The ventilatory threshold gives maximal lactate steady state. <i>European Journal of Applied Physiology and Occupational Physiology</i> , 1991, 63, 55-59.	1.2	50
84	Respiratory influences on non-linear dynamics of heart rate variability in humans. <i>Biological Cybernetics</i> , 1997, 77, 1-10.	1.3	49
85	Oxygen Uptake Kinetics Are Slowed in Cystic Fibrosis. <i>Medicine and Science in Sports and Exercise</i> , 2005, 37, 10-17.	0.4	49
86	Twitch potentiation after fatiguing exercise in man. <i>European Journal of Applied Physiology and Occupational Physiology</i> , 1987, 56, 461-466.	1.2	48
87	Tissue Oxygenation by Near-Infrared Spectroscopy and Muscle Blood Flow During Isometric Contractions of the Forearm. <i>Applied Physiology, Nutrition, and Metabolism</i> , 1999, 24, 216-230.	1.7	48
88	Field Testing of in Cross-Country Skiers With Portable Breath-by-Breath System. <i>Applied Physiology, Nutrition, and Metabolism</i> , 2001, 26, 1-11.	1.7	48
89	Autonomic responses to exercise: Deconditioning/inactivity. <i>Autonomic Neuroscience: Basic and Clinical</i> , 2015, 188, 32-35.	2.8	48
90	Effects of an artificial gravity countermeasure on orthostatic tolerance, blood volumes and aerobic power after short-term bed rest (BR-AG1). <i>Journal of Applied Physiology</i> , 2015, 118, 29-35.	2.5	47

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91	Cardiac output in exercise by impedance cardiography during breath holding and normal breathing. <i>Journal of Applied Physiology</i> , 1987, 62, 101-107.	2.5	46
92	On the modeling and interpretation of oxygen uptake kinetics from ramp work rate tests. <i>Journal of Applied Physiology</i> , 1988, 65, 2453-2458.	2.5	45
93	Air management and physiological responses during simulated firefighting tasks in a high-rise structure. <i>Applied Ergonomics</i> , 2010, 41, 251-259.	3.1	44
94	A study of cardiorespiratory dynamics with step and ramp exercise tests in normoxia and hypoxia. <i>Cardiovascular Research</i> , 1989, 23, 825-832.	3.8	41
95	Cerebral Hypoperfusion Is Exaggerated With an Upright Posture in Heart Failure. <i>JACC: Heart Failure</i> , 2015, 3, 168-175.	4.1	41
96	Blood Glucose Level Monitoring Using an FMCW Millimeter-Wave Radar Sensor. <i>Remote Sensing</i> , 2020, 12, 385.	4.0	41
97	Sympathetic nervous system activity and cardiovascular homeostasis during head-up tilt in patients with spinal cord injuries. <i>Clinical Autonomic Research</i> , 2000, 10, 207-212.	2.5	40
98	Venous emptying mediates a transient vasodilation in the human forearm. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2000, 279, H1007-H1014.	3.2	40
99	Effects of Sex and Gender on Adaptation to Space: Cardiovascular Alterations. <i>Journal of Women's Health</i> , 2014, 23, 950-955.	3.3	40
100	Intrinsic Rate and Cholinergic Sensitivity of Isolated Atria from Trained and Sedentary Rats. <i>Experimental Biology and Medicine</i> , 1973, 144, 364-367.	2.4	38
101	Rapid blunting of sympathetic vasoconstriction in the human forearm at the onset of exercise. <i>Journal of Applied Physiology</i> , 2003, 94, 1785-1792.	2.5	38
102	Slower adaptation of $\dot{V}_{O_2}$ to steady state of submaximal exercise with $\hat{I}^1$ -blockade. <i>European Journal of Applied Physiology and Occupational Physiology</i> , 1983, 52, 107-110.	1.2	37
103	Cardiovascular responses to orthostatic tests after a 42-day head-down bed-rest. <i>European Journal of Applied Physiology</i> , 1997, 77, 50-59.	2.5	37
104	Effect of hyperoxia and hypoxia on leg blood flow and pulmonary and leg oxygen uptake at the onset of kicking exercise. <i>Canadian Journal of Physiology and Pharmacology</i> , 2000, 78, 67-74.	1.4	37
105	Operation Everest II: An indication of deterministic chaos in human heart rate variability at simulated extreme altitude. <i>Biological Cybernetics</i> , 1993, 69, 205-212.	1.3	36
106	Spontaneous beat-by-beat fluctuations of total peripheral and cerebrovascular resistance in response to tilt. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2004, 287, R670-R679.	1.8	36
107	Heart Rate Variability to Monitor Autonomic Nervous System Activity During Orthostatic Stress. <i>Journal of Clinical Pharmacology</i> , 1994, 34, 558-562.	2.0	34
108	Conditions of autonomic reciprocal interplay versus autonomic co-activation: Effects on non-linear heart rate dynamics. <i>Autonomic Neuroscience: Basic and Clinical</i> , 2007, 137, 27-36.	2.8	34

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109	Effect of oral propranolol on the anaerobic threshold and maximum exercise performance in normal man. <i>Canadian Journal of Physiology and Pharmacology</i> , 1981, 59, 567-573.	1.4	33
110	Prediction of oxygen uptake dynamics by machine learning analysis of wearable sensors during activities of daily living. <i>Scientific Reports</i> , 2017, 7, 45738.	3.3	33
111	Computerized estimation of lactate threshold. <i>Journal of Biomedical Informatics</i> , 1986, 19, 481-486.	0.7	32
112	Investigation of hormonal effects during 10-h head-down tilt on heart rate and blood pressure variability. <i>Journal of Applied Physiology</i> , 1995, 78, 583-596.	2.5	32
113	Changes in the sympathetic nervous system induced by 42 days of head-down bed rest. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 1998, 274, H1875-H1884.	3.2	32
114	Hemodynamics and brain blood flow during posture change in younger women and postmenopausal women compared with age-matched men. <i>Journal of Applied Physiology</i> , 2012, 112, 1482-1493.	2.5	32
115	Effect of short-term lycopene supplementation and postprandial dyslipidemia on plasma antioxidants and biomarkers of endothelial health in young, healthy individuals. <i>Vascular Health and Risk Management</i> , 2008, 4, 213-222.	2.3	32
116	Muscle chemoreflex elevates muscle blood flow and O <sub>2</sub> uptake at exercise onset in nonischemic human forearm. <i>Journal of Applied Physiology</i> , 2001, 91, 2010-2016.	2.5	31
117	Heart Rate and Daily Physical Activity with Long-Duration Habitation of the International Space Station. <i>Aviation, Space, and Environmental Medicine</i> , 2012, 83, 577-584.	0.5	31
118	Reduction of intrinsic sinoatrial frequency and norepinephrine response of the exercised rat. <i>Canadian Journal of Physiology and Pharmacology</i> , 1977, 55, 813-820.	1.4	30
119	Comparison of a 4-day confinement and head-down tilt on endocrine response and cardiovascular variability in humans. <i>European Journal of Applied Physiology and Occupational Physiology</i> , 1996, 73, 28-37.	1.2	30
120	Physical activity is a major contributor to the ultra low frequency components of heart rate variability. <i>Heart</i> , 1999, 82, e9-e9.	2.9	30
121	Non-Invasive Monitoring of Glucose Level Changes Utilizing a mm-Wave Radar System. <i>International Journal of Mobile Human Computer Interaction</i> , 2018, 10, 10-29.	0.4	30
122	Estimate of mean tissue O <sub>2</sub> consumption at onset of exercise in males. <i>Journal of Applied Physiology</i> , 1987, 63, 1578-1585.	2.5	29
123	The effect of citrate loading on exercise performance, acid-base balance and metabolism. <i>European Journal of Applied Physiology and Occupational Physiology</i> , 1989, 58, 858-864.	1.2	29
124	Altered autonomic regulation of cardiac function during head-up tilt after 28-day head-down bed rest with countermeasures. <i>Clinical Physiology</i> , 1994, 14, 291-304.	0.7	29
125	Investigation of VO <sub>2</sub> kinetics in humans with pseudorandom binary sequence work rate change. <i>Journal of Applied Physiology</i> , 1990, 68, 796-801.	2.5	28
126	Fluid and Electrolyte Regulation in Space. <i>Advances in Space Biology and Medicine</i> , 1992, 2, 113-130.	0.5	28



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127	Regulation of Blood Flow at the Onset of Exercise by Feed Forward and Feedback Mechanisms. <i>Applied Physiology, Nutrition, and Metabolism</i> , 2003, 28, 774-787.	1.7	28
128	Two-breath CO <sub>2</sub> test detects altered dynamic cerebrovascular autoregulation and CO <sub>2</sub> responsiveness with changes in arterial Pco <sub>2</sub> . <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2004, 287, R627-R632.	1.8	28
129	Respiratory gas exchange and physiological demands during a fire fighter evaluation circuit in men and women. <i>European Journal of Applied Physiology</i> , 2008, 103, 89-98.	2.5	28
130	Acute effects of warm footbath on arterial stiffness in healthy young and older women. <i>European Journal of Applied Physiology</i> , 2012, 112, 1261-1268.	2.5	28
131	Blood lactate responses in incremental exercise as predictors of constant load performance. <i>European Journal of Applied Physiology and Occupational Physiology</i> , 1989, 59, 262-267.	1.2	27
132	Change in phase relationship between SBP and R-R interval during lower body negative pressure. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 1995, 268, H1688-H1693.	3.2	27
133	Recent findings in cardiovascular physiology with space travel. <i>Respiratory Physiology and Neurobiology</i> , 2009, 169, S38-S41.	1.6	27
134	Elevated serum soluble CD200 and CD200R as surrogate markers of bone loss under bed rest conditions. <i>Bone</i> , 2014, 60, 33-40.	2.9	27
135	Estimating oxygen uptake and energy expenditure during treadmill walking by neural network analysis of easy-to-obtain inputs. <i>Journal of Applied Physiology</i> , 2016, 121, 1226-1233.	2.5	26
136	Spectral Analysis of Blood Pressure Variability in Heart Transplant Patients. <i>Hypertension</i> , 1995, 25, 643-650.	2.7	26
137	Faster femoral artery blood velocity kinetics at the onset of exercise following short-term training. <i>Cardiovascular Research</i> , 1996, 31, 278-86.	3.8	26
138	Monitoring Road Racing in the Heat. <i>Physician and Sportsmedicine</i> , 1983, 11, 94-105.	2.1	25
139	Computer simulation of O <sub>2</sub> transport and utilization mechanisms at the onset of exercise. <i>Journal of Applied Physiology</i> , 1992, 73, 2382-2388.	2.5	25
140	Orthostatic tests after a 4-day confinement or simulated weightlessness. <i>Clinical Physiology</i> , 1997, 17, 41-55.	0.7	25
141	Association between arterial stiffness and cerebrovascular resistance in the elderly. <i>Journal of Human Hypertension</i> , 2010, 24, 190-196.	2.2	25
142	Reduced heart rate variability during sleep in long-duration spaceflight. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2013, 305, R164-R170.	1.8	25
143	Extracting aerobic system dynamics during unsupervised activities of daily living using wearable sensor machine learning models. <i>Journal of Applied Physiology</i> , 2018, 124, 473-481.	2.5	24
144	Heart rate variability after prolonged spaceflights. <i>European Journal of Applied Physiology</i> , 2002, 86, 258-265.	2.5	23

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145	Vasodilation contributes to the rapid hyperemia with rhythmic contractions in humans. <i>Canadian Journal of Physiology and Pharmacology</i> , 1998, 76, 418-427.	1.4	23
146	Effect of prolonged head-down bed rest on complex cardiovascular dynamics. <i>Autonomic Neuroscience: Basic and Clinical</i> , 2001, 86, 192-201.	2.8	22
147	Altered hormonal regulation and blood flow distribution with cardiovascular deconditioning after short-duration head down bed rest. <i>Journal of Applied Physiology</i> , 2007, 103, 2018-2025.	2.5	22
148	Effects of oral propranolol and exercise protocol on indices of aerobic function in normal man. <i>Canadian Journal of Physiology and Pharmacology</i> , 1983, 61, 1010-1016.	1.4	21
149	WISE-2005: adrenergic responses of women following 56-days, 6° head-down bed rest with or without exercise countermeasures. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2007, 293, R2343-R2352.	1.8	21
150	WISE-2005: tibial and gastrocnemius vein and calf tissue response to LBNP after a 60-day bed rest with and without countermeasures. <i>Journal of Applied Physiology</i> , 2008, 104, 938-943.	2.5	21
151	Sex differences in the oxygen delivery, extraction, and uptake during moderate-walking exercise transition. <i>Applied Physiology, Nutrition and Metabolism</i> , 2017, 42, 994-1000.	1.9	21
152	Faster Kinetics of $\dot{V}_{I\ddot{O}2}$ During Arm Exercise with Circulatory Occlusion of the Legs. <i>International Journal of Sports Medicine</i> , 1986, 07, 22-25.	1.7	20
153	$O_{2}$ uptake and blood pressure regulation at the onset of exercise: interaction of circadian rhythm and priming exercise. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2010, 299, H1832-H1842.	3.2	20
154	Long-duration bed rest modifies sympathetic neural recruitment strategies in male and female participants. <i>Journal of Applied Physiology</i> , 2018, 124, 769-779.	2.5	20
155	Accurate Blood Pressure Estimation During Activities of Daily Living: A Wearable Cuffless Solution. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2021, 25, 2510-2520.	6.3	20
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