

Richard Hughson

List of Publications by Year in descending order

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Version: 2024-02-01

288
papers

11,983
citations

27035

58
h-index

43601

95
g-index

290
all docs

290
docs citations

290
times ranked

7749
citing authors

#	ARTICLE	IF	CITATIONS
1	Sex-dependent jugular vein optical attenuation and distension during head-down tilt and lower body negative pressure. <i>Physiological Reports</i> , 2022, 10, e15179.	0.7	4
2	Repeatability and reproducibility of changes in thoracoabdominal compartmental volumes and breathing pattern during low-, moderate- and heavy-intensity exercise. <i>European Journal of Applied Physiology</i> , 2022, 122, 1217-1229.	1.2	3
3	Older Adults™ Drop in Cerebral Oxygenation on Standing Correlates With Postural Instability and May Improve With Sitting Prior to Standing. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2021, 76, 1124-1133.	1.7	7
4	Intermittent compression of the calf muscle as a countermeasure to protect blood pressure and brain blood flow in upright posture in older adults. <i>European Journal of Applied Physiology</i> , 2021, 121, 839-848.	1.2	3
5	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.	3.9	20
6	Index of Reflectivity of Ultrasound Radio Frequency Signal from the Carotid Artery Wall Increases in Astronauts after a 6 mo Spaceflight. <i>Ultrasound in Medicine and Biology</i> , 2021, 47, 2213-2219.	0.7	4
7	Optical Hemodynamic Imaging of Jugular Venous Dynamics During Altered Central Venous Pressure. <i>IEEE Transactions on Biomedical Engineering</i> , 2021, 68, 2582-2591.	2.5	5
8	Influence of intermittent pneumatic compression on foot sensation and balance control in chemotherapy-induced peripheral neuropathy patients. <i>Clinical Biomechanics</i> , 2021, 90, 105512.	0.5	1
9	Spaceflight not an eye-popping experience for astronauts. <i>Journal of Physiology</i> , 2021, 599, 1011-1012.	1.3	3
10	Temporal convolutional networks predict dynamic oxygen uptake response from wearable sensors across exercise intensities. <i>Npj Digital Medicine</i> , 2021, 4, 156.	5.7	11
11	Ultrasound vector projectile imaging for detection of altered carotid bifurcation hemodynamics during reductions in cardiac output. <i>Medical Physics</i> , 2020, 47, 431-440.	1.6	10
12	Carotid pulse pressure and intima media thickness are independently associated with cerebral hemodynamic pulsatility in community-living older adults. <i>Journal of Human Hypertension</i> , 2020, 34, 768-777.	1.0	2
13	Evidence for increased cardiovascular risk to crew during long duration space missions. <i>Journal of Applied Physiology</i> , 2020, 129, 1111-1112.	1.2	1
14	Relationship between maximal aerobic power with aerobic fitness as a function of signal-to-noise ratio. <i>Journal of Applied Physiology</i> , 2020, 129, 522-532.	1.2	12
15	Frequency domain analysis to extract dynamic response characteristics for oxygen uptake during transitions to moderate- and heavy-intensity exercises. <i>Journal of Applied Physiology</i> , 2020, 129, 1422-1430.	1.2	5
16	Cuffless Blood Pressure Estimation for Activities of Daily Living*. , 2020, 2020, 4441-4445.		6
17	Monocular 3D Sway Tracking for Assessing Postural Instability in Cerebral Hypoperfusion During Quiet Standing. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2020, 28, 720-729.	2.7	0
18	Blood Glucose Level Monitoring Using an FMCW Millimeter-Wave Radar Sensor. <i>Remote Sensing</i> , 2020, 12, 385.	1.8	41

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19	Microwave-based Nondestructive Sensing Approach for Blood Type Identification. , 2020, , .		4
20	Superficial femoral artery blood flow with intermittent pneumatic compression of the lower leg applied during walking exercise and recovery. <i>Journal of Applied Physiology</i> , 2019, 127, 559-567.	1.2	8
21	Inflight leg cuff test does not identify the risk for orthostatic hypotension after long-duration spaceflight. <i>Npj Microgravity</i> , 2019, 5, 22.	1.9	6
22	Haemodynamic and cerebrovascular effects of intermittent lower-leg compression as countermeasure to orthostatic stress. <i>Experimental Physiology</i> , 2019, 104, 1790-1800.	0.9	4
23	Interrelationships between pulse arrival time and arterial blood pressure during postural transitions before and after spaceflight. <i>Journal of Applied Physiology</i> , 2019, 127, 1050-1057.	1.2	2
24	Acute reduction in cerebral blood velocity on supine-to-stand transition increases postural instability in young adults. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2019, 317, H1342-H1353.	1.5	7
25	Comparison of pulse contour, aortic Doppler ultrasound and bioelectrical impedance estimates of stroke volume during rapid changes in blood pressure. <i>Experimental Physiology</i> , 2019, 104, 368-378.	0.9	8
26	Effects of light-emitting diode therapy (LEDT) on cardiopulmonary and hemodynamic adjustments during aerobic exercise and glucose levels in patients with diabetes mellitus: A randomized, crossover, double-blind and placebo-controlled clinical trial. <i>Complementary Therapies in Medicine</i> , 2019, 42, 178-183.	1.3	16
27	Light-emitting diode therapy (photobiomodulation) effects on oxygen uptake and cardiac output dynamics during moderate exercise transitions: a randomized, crossover, double-blind, and placebo-controlled study. <i>Lasers in Medical Science</i> , 2018, 33, 1065-1071.	1.0	19
28	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.	1.2	24
29	Heart in space: effect of the extraterrestrial environment on the cardiovascular system. <i>Nature Reviews Cardiology</i> , 2018, 15, 167-180.	6.1	161
30	Enhanced muscle blood flow with intermittent pneumatic compression of the lower leg during plantar flexion exercise and recovery. <i>Journal of Applied Physiology</i> , 2018, 124, 302-311.	1.2	12
31	Efficacy of fluid loading as a countermeasure to the hemodynamic and hormonal changes of 28-h head-down bed rest. <i>Physiological Reports</i> , 2018, 6, e13874.	0.7	6
32	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.	0.1	30
33	Reply to van Houwelingen and Langewouters. <i>Journal of Applied Physiology</i> , 2018, 125, 228-228.	1.2	0
34	Long-duration bed rest modifies sympathetic neural recruitment strategies in male and female participants. <i>Journal of Applied Physiology</i> , 2018, 124, 769-779.	1.2	20
35	Riding the Plane Wave: Considerations for In Vivo Study Designs Employing High Frame Rate Ultrasound. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 286.	1.3	7
36	Aerobic system analysis based on oxygen uptake and hip acceleration during random over-ground walking activities. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2017, 312, R93-R100.	0.9	9

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37	Linear and non-linear contributions to oxygen transport and utilization during moderate random exercise in humans. <i>Experimental Physiology</i> , 2017, 102, 563-577.	0.9	11
38	Assessing photoplethysmographic imaging performance beyond facial perfusion analysis. <i>Proceedings of SPIE</i> , 2017, , .	0.8	0
39	Non-contact arrhythmia assessment in natural settings: a step toward preventive cardiac care. , 2017, , .		0
40	Non-contact hemodynamic imaging reveals the jugular venous pulse waveform. <i>Scientific Reports</i> , 2017, 7, 40150.	1.6	53
41	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.	0.9	21
42	Prediction of oxygen uptake dynamics by machine learning analysis of wearable sensors during activities of daily living. <i>Scientific Reports</i> , 2017, 7, 45738.	1.6	33
43	Point:Counterpoint. <i>Journal of Applied Physiology</i> , 2017, 123, 692-693.	1.2	9
44	Vascular conductance and muscle blood flow during exercise are altered by inspired oxygen fraction and arterial perfusion pressure. <i>Physiological Reports</i> , 2017, 5, e13144.	0.7	7
45	Cardiac output by pulse contour analysis does not match the increase measured by rebreathing during human spaceflight. <i>Journal of Applied Physiology</i> , 2017, 123, 1145-1149.	1.2	13
46	Mean Normalized Gain: A New Method for the Assessment of the Aerobic System Temporal Dynamics during Randomly Varying Exercise in Humans. <i>Frontiers in Physiology</i> , 2017, 8, 504.	1.3	7
47	Elevated End-Tidal Pco2 During Long-Duration Spaceflight. <i>Aerospace Medicine and Human Performance</i> , 2016, 87, 894-897.	0.2	10
48	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.	1.2	26
49	Investigating the impact of passive external lower limb compression on central and peripheral hemodynamics during exercise. <i>European Journal of Applied Physiology</i> , 2016, 116, 717-727.	1.2	15
50	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.	1.5	145
51	Increased central arterial stiffness and altered cerebrovascular haemodynamic properties in South Asian older adults. <i>Journal of Human Hypertension</i> , 2016, 30, 309-314.	1.0	8
52	Prior head-down tilt does not impair the cerebrovascular response to head-up tilt. <i>Journal of Applied Physiology</i> , 2015, 118, 1356-1363.	1.2	9
53	Cerebral Hypoperfusion Is Exaggerated With an Upright Posture in Heart Failure. <i>JACC: Heart Failure</i> , 2015, 3, 168-175.	1.9	41
54	Validation of the Hexoskin wearable vest during lying, sitting, standing, and walking activities. <i>Applied Physiology, Nutrition and Metabolism</i> , 2015, 40, 1019-1024.	0.9	127

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55	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.	1.2	47
56	Autonomic responses to exercise: Deconditioning/inactivity. <i>Autonomic Neuroscience: Basic and Clinical</i> , 2015, 188, 32-35.	1.4	48
57	Assessing cerebrovascular autoregulation from critical closing pressure and resistance area product during upright posture in aging and hypertension. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2014, 307, H124-H133.	1.5	14
58	Effects of Sex and Gender on Adaptation to Space: Cardiovascular Alterations. <i>Journal of Women's Health</i> , 2014, 23, 950-955.	1.5	40
59	CCISS, Vascular and BP Reg: Canadian space life science research on ISS. <i>Acta Astronautica</i> , 2014, 104, 444-448.	1.7	5
60	Elevated serum soluble CD200 and CD200R as surrogate markers of bone loss under bed rest conditions. <i>Bone</i> , 2014, 60, 33-40.	1.4	27
61	Repeatability of popliteal blood flow and lower limb vascular conductance at rest and exercise during body tilt using Doppler ultrasound. <i>Physiological Measurement</i> , 2013, 34, 291-306.	1.2	7
62	Lower limb vascular conductance and resting popliteal blood flow during headâ€up and headâ€down postural challenges. <i>Clinical Physiology and Functional Imaging</i> , 2013, 33, 186-191.	0.5	9
63	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.	0.9	25
64	Cerebral critical closing pressure and CO ₂ responses during the progression toward syncope. <i>Journal of Applied Physiology</i> , 2013, 114, 801-807.	1.2	11
65	Effect of altered arterial perfusion pressure on vascular conductance and muscle blood flow dynamic response during exercise in humans. <i>Journal of Applied Physiology</i> , 2013, 114, 620-627.	1.2	9
66	Reply to Pancheva, Panchev, and Pancheva. <i>Journal of Applied Physiology</i> , 2013, 114, 958-958.	1.2	0
67	Reply to Pancheva, Panchev, and Pancheva. <i>Journal of Applied Physiology</i> , 2013, 114, 1122-1122.	1.2	0
68	Impaired cerebrovascular autoregulation and reduced CO ₂ reactivity after long duration spaceflight. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2012, 302, H2592-H2598.	1.5	67
69	Short-term variability of blood pressure: effects of lower-body negative pressure and long-duration bed rest. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2012, 303, R77-R85.	0.9	13
70	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.	0.6	31
71	Temporal Artery Doppler Spectrum Morphology Responses to Tilt and LBNP as an Early Indicator of Syncope. <i>Aviation, Space, and Environmental Medicine</i> , 2012, 83, 394-402.	0.6	2
72	Cardiovascular responses to lower body negative pressure before and after 4 h of head-down bed rest and seated control in men and women. <i>Journal of Applied Physiology</i> , 2012, 113, 1604-1612.	1.2	14

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73	WISE 2005: responses of women to sublingual nitroglycerin before and after 56 days of 6° head-down bed rest. <i>Journal of Applied Physiology</i> , 2012, 113, 434-441.	1.2	6
74	Cardiovascular regulation during long-duration spaceflights to the International Space Station. <i>Journal of Applied Physiology</i> , 2012, 112, 719-727.	1.2	78
75	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.	1.2	32
76	Response to letter of A. Adami, S. Pogliaghi, G. De Roia, C. Capelli. <i>European Journal of Applied Physiology</i> , 2012, 112, 399-400.	1.2	0
77	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.	1.2	28
78	Sustained hyperaemia stimulus is necessary to induce flow-mediated dilation of the human brachial artery. <i>Clinical Physiology and Functional Imaging</i> , 2011, 31, 415-421.	0.5	3
79	On the method of fitting cardiac output kinetics in severe exercise. <i>European Journal of Applied Physiology</i> , 2011, 111, 1529-1531.	1.2	2
80	System identification of baroreflex response to mild lower body negative pressure. , 2011, 2011, 2550-3.		0
81	Air management and physiological responses during simulated firefighting tasks in a high-rise structure. <i>Applied Ergonomics</i> , 2010, 41, 251-259.	1.7	44
82	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.	0.9	53
83	WISE 2005: prolongation of left ventricular pre-ejection period with 56 days head-down bed rest in women. <i>Experimental Physiology</i> , 2010, 95, 1081-1088.	0.9	10
84	Prolonged ischaemia impairs muscle blood flow and oxygen uptake dynamics during subsequent heavy exercise. <i>Journal of Physiology</i> , 2010, 588, 3785-3797.	1.3	15
85	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.	1.5	20
86	Association between arterial stiffness and cerebrovascular resistance in the elderly. <i>Journal of Human Hypertension</i> , 2010, 24, 190-196.	1.0	25
87	Physiological responses and air consumption during simulated firefighting tasks in a subway system. <i>Applied Physiology, Nutrition and Metabolism</i> , 2010, 35, 671-678.	0.9	18
88	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. <i>Journal of Applied Physiology</i> , 2009, 107, 540-548.	1.2	110
89	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.	1.2	59
90	Recent findings in cardiovascular physiology with space travel. <i>Respiratory Physiology and Neurobiology</i> , 2009, 169, S38-S41.	0.7	27

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91	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.	1.2	59
92	Oxygen uptake kinetics: historical perspective and future directions. <i>Applied Physiology, Nutrition and Metabolism</i> , 2009, 34, 840-850.	0.9	60
93	Comments on Point:Counterpoint: Respiratory sinus arrhythmia is due to a central mechanism vs. respiratory sinus arrhythmia is due to the baroreflex mechanism. <i>Journal of Applied Physiology</i> , 2009, 106, 1745-1749.	1.2	18
94	Physiological Demands of the Firefighter Candidate Physical Ability Test. <i>Medicine and Science in Sports and Exercise</i> , 2009, 41, 653-662.	0.2	120
95	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.	1.2	28
96	System Analysis for Oxygen Uptake Kinetics with Step and Pseudorandom Binary Sequence Exercise in Endurance Athletes. <i>Measurement in Physical Education and Exercise Science</i> , 2008, 12, 1-9.	1.3	9
97	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.	1.2	21
98	WISE-2005: Lower Body Negative Pressure Treadmill and Resistive Exercise Countermeasures Maintain Physiologic Function in Women during 60 days of Simulated Microgravity. <i>FASEB Journal</i> , 2008, 22, 752.15.	0.2	2
99	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.	1.0	32
100	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.	0.9	21
101	WISE 2005: chronic bed rest impairs microcirculatory endothelium in women. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2007, 293, H3159-H3164.	1.5	70
102	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.	1.2	81
103	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.	1.4	34
104	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.	1.2	22
105	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.	1.2	51
106	Heterogeneity of responses to orthostatic stress in homozygous twins. <i>Journal of Applied Physiology</i> , 2007, 102, 249-254.	1.2	15
107	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.	1.1	66
108	Cerebral autoregulation is preserved in multiple system atrophy: A transcranial Doppler study. <i>Movement Disorders</i> , 2006, 21, 2122-2126.	2.2	14

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109	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.	1.5	103
110	Cerebral blood flow during orthostasis: role of arterial CO ₂ . American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2006, 290, R1087-R1093.	0.9	58
111	Oxygen Uptake Kinetics Are Slowed in Cystic Fibrosis. Medicine and Science in Sports and Exercise, 2005, 37, 10-17.	0.2	49
112	Feedback effects of circulating norepinephrine on sympathetic outflow in healthy subjects. American Journal of Physiology - Heart and Circulatory Physiology, 2005, 288, H710-H715.	1.5	19
113	Measurements of Cardiac Output During Constant Exercises: Comparison of Two Non-Invasive Techniques. International Journal of Sports Medicine, 2004, 25, 145-149.	0.8	51
114	Two-breath CO ₂ test detects altered dynamic cerebrovascular autoregulation and CO ₂ responsiveness with changes in arterial Pco ₂ . American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2004, 287, R627-R632.	0.9	28
115	Spontaneous beat-by-beat fluctuations of total peripheral and cerebrovascular resistance in response to tilt. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2004, 287, R670-R679.	0.9	36
116	CHANGES IN HEART RATE VARIABILITY DURING DIVING IN YOUNG HARBOR SEALS, PHOCA VITULINA. Marine Mammal Science, 2004, 20, 861-871.	0.9	18
117	Searching for the Vascular Component of the Arterial Baroreflex. Cardiovascular Engineering (Dordrecht, Netherlands), 2004, 4, 155-162.	1.0	4
118	Flow-mediated dilation in human brachial artery after different circulatory occlusion conditions. American Journal of Physiology - Heart and Circulatory Physiology, 2004, 286, H442-H448.	1.5	117
119	The effect of prolonged submaximal exercise on gas exchange kinetics and ventilation during heavy exercise in humans. European Journal of Applied Physiology, 2003, 89, 587-594.	1.2	15
120	Blunted Cardiac Autonomic Responsiveness to Hypoxemic Stress in Healthy Older Adults. Applied Physiology, Nutrition, and Metabolism, 2003, 28, 518-535.	1.7	9
121	Regulation of Blood Flow at the Onset of Exercise by Feed Forward and Feedback Mechanisms. Applied Physiology, Nutrition, and Metabolism, 2003, 28, 774-787.	1.7	28
122	Oxygen uptake kinetics during two bouts of heavy cycling separated by fatiguing sprint exercise in humans. Journal of Applied Physiology, 2003, 94, 533-541.	1.2	86
123	Effects of aerobic training on heart rate dynamics in sedentary subjects. Journal of Applied Physiology, 2003, 95, 364-372.	1.2	185
124	Cascade heart rate variability. , 2003, , .		0
125	A new two-breath technique for extracting the cerebrovascular response to arterial carbon dioxide. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2003, 284, R853-R859.	0.9	18
126	Rapid blunting of sympathetic vasoconstriction in the human forearm at the onset of exercise. Journal of Applied Physiology, 2003, 94, 1785-1792.	1.2	38

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127	Blood Flow and Metabolic Control at the Onset of Heavy Exercise. International Journal of Sport and Health Science, 2003, 1, 9-18.	0.0	12
128	Cerebral hemodynamics and resistance exercise. Medicine and Science in Sports and Exercise, 2002, 34, 1207-1211.	0.2	53
129	Dynamic modulation of cerebrovascular resistance as an index of autoregulation under tilt and controlled $P_{et}CO_2$. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2002, 283, R653-R662.	0.9	51
130	A phenomenology model of normal sinus rhythm in healthy humans. IEEE Transactions on Biomedical Engineering, 2002, 49, 97-109.	2.5	4
131	Heart rate variability after prolonged spaceflights. European Journal of Applied Physiology, 2002, 86, 258-265.	1.2	23
132	Modeling Heart Rate Variability in Healthy Humans: A Turbulence Analogy. Physical Review Letters, 2001, 86, 1650-1653.	2.9	117
133	Modeling the Interaction Between Perfusion Pressure and CO ₂ on Cerebral Blood Flow. Advances in Experimental Medicine and Biology, 2001, 499, 285-290.	0.8	9
134	Effect of prolonged head-down bed rest on complex cardiovascular dynamics. Autonomic Neuroscience: Basic and Clinical, 2001, 86, 192-201.	1.4	22
135	Reduced Oxygen Uptake During Steady State Exercise After 21-Day Mountain Climbing Expedition to 6,194m. Applied Physiology, Nutrition, and Metabolism, 2001, 26, 143-156.	1.7	15
136	Field Testing of in Cross-Country Skiers With Portable Breath-by-Breath System. Applied Physiology, Nutrition, and Metabolism, 2001, 26, 1-11.	1.7	48
137	Effects of exercise and passive head-up tilt on fractal and complexity properties of heart rate dynamics. American Journal of Physiology - Heart and Circulatory Physiology, 2001, 280, H1081-H1087.	1.5	158
138	Comparison of oxygen uptake kinetics during concentric and eccentric cycle exercise. Journal of Applied Physiology, 2001, 91, 2135-2142.	1.2	138
139	Interpreting $\dot{V}E_{O_2}$ Kinetics in Heavy Exercise. Journal of Applied Physiology, 2001, 91, 530-532.	1.2	3
140	Blood flow and muscle oxygen uptake at the onset and end of moderate and heavy dynamic forearm exercise. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2001, 280, R1741-R1747.	0.9	71
141	Kinetics of $\dot{V}E_{O_2}$ With Very High Intensity Exercise. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2001, 281, R681-R682.	0.9	2
142	Peripheral circulatory factors limit rate of increase in muscle O_2 uptake at onset of heavy exercise. Journal of Applied Physiology, 2001, 90, 83-89.	1.2	55
143	Muscle chemoreflex elevates muscle blood flow and O ₂ uptake at exercise onset in nonischemic human forearm. Journal of Applied Physiology, 2001, 91, 2010-2016.	1.2	31
144	Regulation of Oxygen Consumption at the Onset of Exercise. Exercise and Sport Sciences Reviews, 2001, 29, 129-133.	1.6	126

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145	Critical Analysis of Cerebrovascular Autoregulation During Repeated Head-Up Tilt. <i>Stroke</i> , 2001, 32, 2403-2408.	1.0	79
146	Blood flow in the triceps brachii muscle in humans during sustained submaximal isometric contractions. <i>European Journal of Applied Physiology</i> , 2001, 84, 432-437.	1.2	13
147	Effects of pharmacological adrenergic and vagal modulation on fractal heart rate dynamics. <i>Clinical Physiology</i> , 2001, 21, 515-523.	0.7	109
148	Body Position and Cardiac Dynamic and Chronotropic Responses to Steady-State Isocapnic Hypoxaemia in Humans. <i>Experimental Physiology</i> , 2000, 85, 227-237.	0.9	13
149	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.	1.4	40
150	Venous emptying mediates a transient vasodilation in the human forearm. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2000, 279, H1007-H1014.	1.5	40
151	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.	1.2	87
152	Changes in lumbar lordosis modify the role of the extensor muscles. <i>Clinical Biomechanics</i> , 2000, 15, 777-780.	0.5	152
153	Lumbar erector spinae oxygenation during prolonged contractions: implications for prolonged work. <i>Ergonomics</i> , 2000, 43, 486-493.	1.1	127
154	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.	0.7	37
155	Interaction of factors determining oxygen uptake at the onset of exercise. <i>Journal of Applied Physiology</i> , 1999, 86, 1101-1113.	1.2	206
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