Glen E Foster

List of Publications by Year
in descending order

102 papers	2,797 citations	172207 29 h-index	189595 50 g-index
105 all docs	105 docs citations	105 times ranked	2698 citing authors

#	Article	IF	Citations
1	The coronary vascular response to the metaboreflex at low altitude and during acute and prolonged high altitude in males. Journal of Applied Physiology, 2022, 132, 1327-1337.	1.2	1
2	Time course and magnitude of ventilatory and renal acid-base acclimatization following rapid ascent to and residence at 3,800 m over nine days. Journal of Applied Physiology, 2021, 130, 1705-1715.	1.2	12
3	Bilateral carotid body resection â€“ a challenge for blood oxygen homeostasis. Journal of Physiology, 2021, 599, 2129-2130.	1.3	0
4	The Effects of Acute High Altitude Exposure and Arterial Blood Gas Manipulation on Neurovascular Coupling in Healthy Humans. FASEB Journal, 2021, 35, .	0.2	0
5	Cardiopulmonary Adaptations and Maladaptations to the Chronic Intermittent Hypoxia Associated With Repetitive Apnea Diving. FASEB Journal, 2021, 35, .	0.2	0
6	Muscle sympathetic singleâ€unit responses during rhythmic handgrip exercise and isocapnic hypoxia in males: The role of sympathoexcitation magnitude. FASEB Journal, 2021, 35, .	0.2	0
7	Muscle Metaboreflex Control of Sympathetic Activity Is Preserved following Acute Intermittent Hypercapnic Hypoxia. Medicine and Science in Sports and Exercise, 2021, Publish Ahead of Print, 2233-2244.	0.2	6
8	Cardiorespiratory plasticity in humans following two patterns of acute intermittent hypoxia. Experimental Physiology, 2021, 106, 1524-1534.	0.9	4
9	Muscle sympathetic single-unit responses during rhythmic handgrip exercise and isocapnic hypoxia in males: the role of sympathoexcitation magnitude. Journal of Neurophysiology, 2021, 126, 170-180.	0.9	4
10	Respiratory modulation of sympathetic vasomotor outflow during graded leg cycling. Journal of Applied Physiology, 2021, 131, 858-867.	1.2	3
11	Regional differences in cerebrovascular reactivity in response to acute isocapnic hypoxia in healthy humans: Methodological considerations. Respiratory Physiology and Neurobiology, 2021, 294, 103770.	0.7	2
12	An open-source application for the standardized burst identification from the integrated muscle sympathetic neurogram.. Journal of Neurophysiology, 2021, 126, 1831-1841.	0.9	3
13	Sex differences in the coronary vascular response to combined chemoreflex and metaboreflex stimulation in healthy humans. Experimental Physiology, 2021, , .	0.9	3
14	Influence of methazolamide on the human control of breathing: A comparison to acetazolamide. Experimental Physiology, 2020, 105, 293-301.	0.9	7
15	Acute intermittent hypercapnic hypoxia and sympathetic neurovascular transduction in men. Journal of Physiology, 2020, 598, 473-487.	1.3	35
16	Peripheral chemoreflex contribution to ventilatory longâ€term facilitation induced by acute intermittent hypercapnic hypoxia in males and females. Journal of Physiology, 2020, 598, 4713-4730.	1.3	27
17	Acute intermittent hypercapnic hypoxia and cerebral neurovascular coupling in males and females. Experimental Neurology, 2020, 334, 113441.	2.0	8
18	Angiotensin II-Type I Receptor Antagonism Does Not Influence the Chemoreceptor Reflex or Hypoxia-Induced Central Sleep Apnea in Men. Frontiers in Neuroscience, 2020, 14, 382.	1.4	7

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19	Within-breath sympathetic baroreflex sensitivity is modulated by lung volume but unaffected by acute intermittent hypercapnic hypoxia in men. American Journal of Physiology - Heart and Circulatory Physiology, 2020, 319, H213-H221.	1.5	11
20	Case Studies in Physiology: Sympathetic neural discharge patterns in a healthy young male during end-expiratory breath hold-induced sinus pause. Journal of Applied Physiology, 2020, 129, 230-237.	1.2	1
21	The Impact of Acute High Altitude Exposure (3800m) And Isocapnic Hypoxia/Hyperoxia on Neurovascular Coupling in Healthy Volunteers. FASEB Journal, 2020, 34, 1-1.	0.2	0
22	Influence of blood P<scp>o</scp>₂ on the stability of agitated saline contrast. Journal of Applied Physiology, 2020, 129, 1341-1347.	1.2	2
23	Dissociating the effects of oxygen pressure and content on the control of breathing and acute hypoxic response. Journal of Applied Physiology, 2019, 127, 1622-1631.	1.2	14
24	Could Adjunctive Pharmacology Mitigate Cardiovascular Consequences of Obstructive Sleep Apnea?. American Journal of Respiratory and Critical Care Medicine, 2019, 200, 551-555.	2.5	13
25	Measuring blood flow through intrapulmonary and intracardiac shunts: a technical labyrinth. Journal of Physiology, 2019, 597, 5315-5316.	1.3	0
26	Work of breathing influences muscle sympathetic nerve activity during semiâ€recumbent cycle exercise. Acta Physiologica, 2019, 225, e13212.	1.8	24
27	Ventilatory responses to acute hypoxia and hypercapnia in humans with a patent foramen ovale. Journal of Applied Physiology, 2019, 126, 730-738.	1.2	7
28	Work of Breathing Influences Muscle Sympathetic Nerve Activity During Whole-Body Exercise. Medicine and Science in Sports and Exercise, 2018, 50, 122.	0.2	2
29	Attenuation of human hypoxic pulmonary vasoconstriction by acetazolamide and methazolamide. Journal of Applied Physiology, 2018, 125, 1795-1803.	1.2	18
30	Effect of acetazolamide and methazolamide on diaphragm and dorsiflexor fatigue: a randomized controlled trial. Journal of Applied Physiology, 2018, 125, 770-779.	1.2	19
31	Influence of myocardial oxygen demand on the coronary vascular response to arterial blood gas changes in humans. American Journal of Physiology - Heart and Circulatory Physiology, 2018, 315, H132-H140.	1.5	6
32	The effects of age and sex on mechanical ventilatory constraint and dyspnea during exercise in healthy humans. Journal of Applied Physiology, 2018, 124, 1092-1106.	1.2	50
33	Exerciseâ€induced quadriceps muscle fatigue in men and women: effects of arterial oxygen content and respiratory muscle work. Journal of Physiology, 2017, 595, 5227-5244.	1.3	44
34	Reduced blood flow through intrapulmonary arteriovenous anastomoses during exercise in lowlanders acclimatizing to high altitude. Experimental Physiology, 2017, 102, 670-683.	0.9	5
35	Plasma Exosomes and Improvements in Endothelial Function by Angiotensin 2 Type 1 Receptor or Cyclooxygenase 2 Blockade following Intermittent Hypoxia. Frontiers in Neurology, 2017, 8, 709.	1.1	17
36	Comparing and characterizing transient and steadyâ€state tests of the peripheral chemoreflex in humans. Experimental Physiology, 2016, 101, 432-447.	0.9	29

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37	What role for hypercapnia in obstructive sleep apnea?. Journal of Applied Physiology, 2016, 121, 362-362.	1.2	1
38	A methodological approach for quantifying and characterizing the stability of agitated saline contrast: implications for quantifying intrapulmonary shunt. Journal of Applied Physiology, 2016, 121, 568-576.	1.2	9
39	Intermittent hypoxia and arterial blood pressure control in humans: role of the peripheral vasculature and carotid baroreflex. American Journal of Physiology - Heart and Circulatory Physiology, 2016, 311, H699-H706.	1.5	31
40	Commentaries on Viewpoint: Why predominantly neurological DCS in breath-hold divers?. Journal of Applied Physiology, 2016, 120, 1478-1482.	1.2	6
41	The effects of graded changes in oxygen and carbon dioxide tension on coronary blood velocity independent of myocardial energy demand. American Journal of Physiology - Heart and Circulatory Physiology, 2016, 311, H326-H336.	1.5	7
42	Effect on Intermittent Hypoxia on Plasma Exosomal Micro RNA Signature and Endothelial Function in Healthy Adults. Sleep, 2016, 39, 2077-2090.	0.6	75
43	Role of CO₂ in the cerebral hyperemic response to incremental normoxic and hyperoxic exercise. Journal of Applied Physiology, 2016, 120, 843-854.	1.2	31
44	Measuring the human ventilatory and cerebral blood flow response to CO₂: a technical consideration for the end-tidal-to-arterial gas gradient. Journal of Applied Physiology, 2016, 120, 282-296.	1.2	61
45	The effect of consistent practice of yogic breathing exercises on the human cardiorespiratory system. Respiratory Physiology and Neurobiology, 2016, 233, 41-51.	0.7	6
46	Changes in left ventricular function and coronary blood flow velocity during isocapnic hypoxia: A cardiac magnetic resonance imaging study. Journal of Cardiovascular Magnetic Resonance, 2016, 18, P126.	1.6	4
47	Reply to Topalovic and Janssens. Respiratory Physiology and Neurobiology, 2016, 227, 68.	0.7	0
48	Quantifying the shape of maximal expiratory flow-volume curves in healthy humans and asthmatic patients. Respiratory Physiology and Neurobiology, 2016, 220, 46-53.	0.7	10
49	Effects Of Exercise-induced Respiratory Muscle Work And Hypoxemia On Quadriceps Fatigue In Men Versus Women. Medicine and Science in Sports and Exercise, 2016, 48, 671.	0.2	0
50	Changes in cerebral vascular reactivity and structure following prolonged exposure to high altitude in humans. Physiological Reports, 2015, 3, e12647.	0.7	14
51	Gas density alters expiratory time constants before and after experimental lung injury. Experimental Physiology, 2015, 100, 1217-1228.	0.9	4
52	Dysanapsis and the resistive work of breathing during exercise in healthy men and women. Journal of Applied Physiology, 2015, 119, 1105-1113.	1.2	66
53	Chemoreceptor Responsiveness at Sea Level Does Not Predict the Pulmonary Pressure Response to High Altitude. Chest, 2015, 148, 219-225.	0.4	9
54	The Contribution of Arterial Blood Gases in Cerebral Blood Flow Regulation and Fuel Utilization in Man at High Altitude. Journal of Cerebral Blood Flow and Metabolism, 2015, 35, 873-881.	2.4	44

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55	End tidal-to-arterial CO₂and O₂gas gradients at low- and high-altitude during dynamic end-tidal forcing. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2015, 308, R895-R906.	0.9	63
56	Oxygen cost of exercise hyperpnoea is greater in women compared with men. Journal of Physiology, 2015, 593, 1965-1979.	1.3	108
57	Hypoxia, not pulmonary vascular pressure, induces blood flow through intrapulmonary arteriovenous anastomoses. Journal of Physiology, 2015, 593, 723-737.	1.3	25
58	Indomethacinâ€induced impairment of regional cerebrovascular reactivity: implications for respiratory control. Journal of Physiology, 2015, 593, 1291-1306.	1.3	41
59	Quantifying the shape of the maximal expiratory flowâ€“volume curve in mild COPD. Respiratory Physiology and Neurobiology, 2015, 219, 30-35.	0.7	27
60	Exercise-induced arterial hypoxemia is unaffected by intense physical training: a case report. Applied Physiology, Nutrition and Metabolism, 2014, 39, 266-269.	0.9	5
61	Resting pulmonary haemodynamics and shunting: a comparison of seaâ€level inhabitants to high altitude Sherpas. Journal of Physiology, 2014, 592, 1397-1409.	1.3	31
62	Impact of hypocapnia and cerebral perfusion on orthostatic tolerance. Journal of Physiology, 2014, 592, 5203-5219.	1.3	36
63	Pulmonary Mechanics and Gas Exchange during Exercise in Kenyan Distance Runners. Medicine and Science in Sports and Exercise, 2014, 46, 702-710.	0.2	13
64	Precise mimicking of exercise hyperpnea to investigate the oxygen cost of breathing. Respiratory Physiology and Neurobiology, 2014, 201, 15-23.	0.7	21
65	Administration of intrapulmonary sodium polyacrylate to induce lung injury for the development of a porcine model of early acute respiratory distress syndrome. Intensive Care Medicine Experimental, 2014, 2, 5.	0.9	3
66	Oxygen cost of exercise hyperpnea is greater in women compared to men (882.3). FASEB Journal, 2014, 28, 882.3.	0.2	0
67	Hypercapnia induces dilation of large cerebral arteries and is mediated via a nonâ€selective cyclooxygenase pathway (LB704). FASEB Journal, 2014, 28, LB704.	0.2	1
68	Exerciseâ€induced arterial hypoxaemia and the mechanics of breathing in healthy young women. Journal of Physiology, 2013, 591, 3017-3034.	1.3	78
69	Effects of Acute Intermittent Hypoxia on Working Memory in Young Healthy Adults. American Journal of Respiratory and Critical Care Medicine, 2013, 187, 1148-1150.	2.5	25
70	Dynamic cerebral autoregulation during and following acute hypoxia: role of carbon dioxide. Journal of Applied Physiology, 2013, 114, 1183-1190.	1.2	27
71	Regional changes in brain blood flow during severe passive hyperthermia: effects of Pa_{CO₂} and extracranial blood flow. Journal of Applied Physiology, 2013, 115, 653-659.	1.2	69
72	Serum skeletal troponin I following inspiratory threshold loading in healthy young and middle-aged men. European Journal of Applied Physiology, 2012, 112, 3547-3558.	1.2	18

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73	Repeated exercise-induced arterial hypoxemia in a healthy untrained woman. Respiratory Physiology and Neurobiology, 2012, 183, 201-205.	0.7	9
74	Effect of carrying a weighted backpack on lung mechanics during treadmill walking in healthy men. European Journal of Applied Physiology, 2012, 112, 2001-2012.	1.2	30
75	Exercise-induced intrapulmonary arteriovenous shunt in healthy women. Respiratory Physiology and Neurobiology, 2012, 181, 8-13.	0.7	19
76	Exercise and its impact on dyspnea. Current Opinion in Pharmacology, 2011, 11, 195-203.	1.7	28
77	Serum Levels Of Troponin I Increase After Inspiratory Threshold Loading In Healthy Young And Middle-Aged Men. , 2011, , .		0
78	High on altitude: new attitudes toward human cerebral blood flow regulation and altitude acclimatization. Journal of Physiology, 2011, 589, 449-449.	1.3	2
79	Losartan abolishes oxidative stress induced by intermittent hypoxia in humans. Journal of Physiology, 2011, 589, 5529-5537.	1.3	44
80	Effects Of Carrying A Weighted Backpack On Lung Mechanics In Healthy Men. Medicine and Science in Sports and Exercise, 2011, 43, 631.	0.2	0
81	Effects of intermittent hypoxia on erythropoietin, soluble erythropoietin receptor and ventilation in humans. European Respiratory Journal, 2011, 37, 880-887.	3.1	39
82	Determinants of Expiratory Flow Limitation in Healthy Women during Exercise. Medicine and Science in Sports and Exercise, 2011, 43, 1666-1674.	0.2	45
83	Intermittent Hypoxia Increases Arterial Blood Pressure in Humans Through a Renin-Angiotensin System-Dependent Mechanism. Hypertension, 2010, 56, 369-377.	1.3	144
84	Effects of Exposure to Intermittent Hypoxia on Oxidative Stress and Acute Hypoxic Ventilatory Response in Humans. American Journal of Respiratory and Critical Care Medicine, 2009, 180, 1002-1009.	2.5	149
85	Ventilatory and cerebrovascular responses to hypercapnia in patients with obstructive sleep apnoea: Effect of CPAP therapy. Respiratory Physiology and Neurobiology, 2009, 165, 73-81.	0.7	33
86	Cardiovascular and cerebrovascular responses to acute hypoxia following exposure to intermittent hypoxia in healthy humans. Journal of Physiology, 2009, 587, 3287-3299.	1.3	87
87	Ventilatory and Blood Pressure Responses to Isocapnic Hypoxia in OSA Patients. Advances in Experimental Medicine and Biology, 2008, 605, 463-468.	0.8	4
88	Effect of 4 days of intermittent hypoxia on oxidative stress in healthy men. FASEB Journal, 2008, 22, 960.3.	0.2	2
89	Effects of Continuous Positive Airway Pressure on Cerebral Vascular Response to Hypoxia in Patients with Obstructive Sleep Apnea. American Journal of Respiratory and Critical Care Medicine, 2007, 175, 720-725.	2.5	81
90	Effects of Acetazolamide on Ventilatory, Cerebrovascular, and Pulmonary Vascular Responses to Hypoxia. American Journal of Respiratory and Critical Care Medicine, 2007, 175, 277-281.	2.5	107

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91	Entrainment of breathing in cyclists and non-cyclists during arm and leg exercise. Respiratory Physiology and Neurobiology, 2007, 155, 64-70.	0.7	12
92	Intermittent hypoxia and vascular function: implications for obstructive sleep apnoea. Experimental Physiology, 2007, 92, 51-65.	0.9	145
93	Human ventilatory responsiveness to hypoxia is unrelated to maximal aerobic capacity. Journal of Applied Physiology, 2006, 100, 1204-1209.	1.2	10
94	Effects of enhanced human chemosensitivity on ventilatory responses to exercise. Experimental Physiology, 2006, 91, 221-228.	0.9	15
95	Variable effects of respiratory muscle training on cycle exercise performance in men and women. Applied Physiology, Nutrition and Metabolism, 2006, 31, 159-166.	0.9	24
96	Effects of two protocols of intermittent hypoxia on human ventilatory, cardiovascular and cerebral responses to hypoxia. Journal of Physiology, 2005, 567, 689-699.	1.3	81
97	The human diving response, its function, and its control. Scandinavian Journal of Medicine and Science in Sports, 2005, 15, 3-12.	1.3	197
98	Repeated measurement of hypoxic ventilatory response as an intermittent hypoxic stimulus. Respiratory Physiology and Neurobiology, 2005, 145, 33-39.	0.7	17
99	Sex Differences in Respiratory Exercise Physiology. Sports Medicine, 2004, 34, 567-579.	3.1	75
100	Acute hypoxic ventilatory response and exercise-induced arterial hypoxemia in men and women. Respiratory Physiology and Neurobiology, 2004, 143, 37-48.	0.7	42
101	Hypoxic Ventilatory Response in Trained Male and Female Cyclists. Medicine and Science in Sports and Exercise, 2004, 36, S265.	0.2	0
102	Action potential amplitude and baroreflex resetting of action potential clusters mediate hypoxiaâ€induced sympathetic longâ€term facilitation. Journal of Physiology, 0, , .	1.3	1