

# Glen E Foster

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9149486/publications.pdf>

Version: 2024-02-01

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 human diving response, its function, and its control. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2005, 15, 3-12.	1.3	197
2	Effects of Exposure to Intermittent Hypoxia on Oxidative Stress and Acute Hypoxic Ventilatory Response in Humans. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2009, 180, 1002-1009.	2.5	149
3	Intermittent hypoxia and vascular function: implications for obstructive sleep apnoea. <i>Experimental Physiology</i> , 2007, 92, 51-65.	0.9	145
4	Intermittent Hypoxia Increases Arterial Blood Pressure in Humans Through a Renin-Angiotensin System-Dependent Mechanism. <i>Hypertension</i> , 2010, 56, 369-377.	1.3	144
5	Oxygen cost of exercise hyperpnoea is greater in women compared with men. <i>Journal of Physiology</i> , 2015, 593, 1965-1979.	1.3	108
6	Effects of Acetazolamide on Ventilatory, Cerebrovascular, and Pulmonary Vascular Responses to Hypoxia. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2007, 175, 277-281.	2.5	107
7	Cardiovascular and cerebrovascular responses to acute hypoxia following exposure to intermittent hypoxia in healthy humans. <i>Journal of Physiology</i> , 2009, 587, 3287-3299.	1.3	87
8	Effects of two protocols of intermittent hypoxia on human ventilatory, cardiovascular and cerebral responses to hypoxia. <i>Journal of Physiology</i> , 2005, 567, 689-699.	1.3	81
9	Effects of Continuous Positive Airway Pressure on Cerebral Vascular Response to Hypoxia in Patients with Obstructive Sleep Apnea. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2007, 175, 720-725.	2.5	81
10	Exercise-induced arterial hypoxaemia and the mechanics of breathing in healthy young women. <i>Journal of Physiology</i> , 2013, 591, 3017-3034.	1.3	78
11	Sex Differences in Respiratory Exercise Physiology. <i>Sports Medicine</i> , 2004, 34, 567-579.	3.1	75
12	Effect on Intermittent Hypoxia on Plasma Exosomal Micro RNA Signature and Endothelial Function in Healthy Adults. <i>Sleep</i> , 2016, 39, 2077-2090.	0.6	75
13	Regional changes in brain blood flow during severe passive hyperthermia: effects of Pa <sub>CO<sub>2</sub></sub> and extracranial blood flow. <i>Journal of Applied Physiology</i> , 2013, 115, 653-659.	1.2	69
14	Dysanapsis and the resistive work of breathing during exercise in healthy men and women. <i>Journal of Applied Physiology</i> , 2015, 119, 1105-1113.	1.2	66
15	End tidal-to-arterial CO <sub>2</sub> and O <sub>2</sub> gas gradients at low- and high-altitude during dynamic end-tidal forcing. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2015, 308, R895-R906.	0.9	63
16	Measuring the human ventilatory and cerebral blood flow response to CO <sub>2</sub> : a technical consideration for the end-tidal-to-arterial gas gradient. <i>Journal of Applied Physiology</i> , 2016, 120, 282-296.	1.2	61
17	The effects of age and sex on mechanical ventilatory constraint and dyspnea during exercise in healthy humans. <i>Journal of Applied Physiology</i> , 2018, 124, 1092-1106.	1.2	50
18	Determinants of Expiratory Flow Limitation in Healthy Women during Exercise. <i>Medicine and Science in Sports and Exercise</i> , 2011, 43, 1666-1674.	0.2	45

#	ARTICLE	IF	CITATIONS
19	Losartan abolishes oxidative stress induced by intermittent hypoxia in humans. <i>Journal of Physiology</i> , 2011, 589, 5529-5537.	1.3	44
20	The Contribution of Arterial Blood Gases in Cerebral Blood Flow Regulation and Fuel Utilization in Man at High Altitude. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2015, 35, 873-881.	2.4	44
21	Exercise-induced quadriceps muscle fatigue in men and women: effects of arterial oxygen content and respiratory muscle work. <i>Journal of Physiology</i> , 2017, 595, 5227-5244.	1.3	44
22	Acute hypoxic ventilatory response and exercise-induced arterial hypoxemia in men and women. <i>Respiratory Physiology and Neurobiology</i> , 2004, 143, 37-48.	0.7	42
23	Indomethacin-induced impairment of regional cerebrovascular reactivity: implications for respiratory control. <i>Journal of Physiology</i> , 2015, 593, 1291-1306.	1.3	41
24	Effects of intermittent hypoxia on erythropoietin, soluble erythropoietin receptor and ventilation in humans. <i>European Respiratory Journal</i> , 2011, 37, 880-887.	3.1	39
25	Impact of hypocapnia and cerebral perfusion on orthostatic tolerance. <i>Journal of Physiology</i> , 2014, 592, 5203-5219.	1.3	36
26	Acute intermittent hypercapnic hypoxia and sympathetic neurovascular transduction in men. <i>Journal of Physiology</i> , 2020, 598, 473-487.	1.3	35
27	Ventilatory and cerebrovascular responses to hypercapnia in patients with obstructive sleep apnoea: Effect of CPAP therapy. <i>Respiratory Physiology and Neurobiology</i> , 2009, 165, 73-81.	0.7	33
28	Resting pulmonary haemodynamics and shunting: a comparison of sea-level inhabitants to high altitude Sherpas. <i>Journal of Physiology</i> , 2014, 592, 1397-1409.	1.3	31
29	Intermittent hypoxia and arterial blood pressure control in humans: role of the peripheral vasculature and carotid baroreflex. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2016, 311, H699-H706.	1.5	31
30	Role of CO <sub>2</sub> in the cerebral hyperemic response to incremental normoxic and hyperoxic exercise. <i>Journal of Applied Physiology</i> , 2016, 120, 843-854.	1.2	31
31	Effect of carrying a weighted backpack on lung mechanics during treadmill walking in healthy men. <i>European Journal of Applied Physiology</i> , 2012, 112, 2001-2012.	1.2	30
32	Comparing and characterizing transient and steady-state tests of the peripheral chemoreflex in humans. <i>Experimental Physiology</i> , 2016, 101, 432-447.	0.9	29
33	Exercise and its impact on dyspnea. <i>Current Opinion in Pharmacology</i> , 2011, 11, 195-203.	1.7	28
34	Dynamic cerebral autoregulation during and following acute hypoxia: role of carbon dioxide. <i>Journal of Applied Physiology</i> , 2013, 114, 1183-1190.	1.2	27
35	Quantifying the shape of the maximal expiratory flow-volume curve in mild COPD. <i>Respiratory Physiology and Neurobiology</i> , 2015, 219, 30-35.	0.7	27
36	Peripheral chemoreflex contribution to ventilatory long-term facilitation induced by acute intermittent hypercapnic hypoxia in males and females. <i>Journal of Physiology</i> , 2020, 598, 4713-4730.	1.3	27

#	ARTICLE	IF	CITATIONS
37	Effects of Acute Intermittent Hypoxia on Working Memory in Young Healthy Adults. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2013, 187, 1148-1150.	2.5	25
38	Hypoxia, not pulmonary vascular pressure, induces blood flow through intrapulmonary arteriovenous anastomoses. <i>Journal of Physiology</i> , 2015, 593, 723-737.	1.3	25
39	Variable effects of respiratory muscle training on cycle exercise performance in men and women. <i>Applied Physiology, Nutrition and Metabolism</i> , 2006, 31, 159-166.	0.9	24
40	Work of breathing influences muscle sympathetic nerve activity during semi-recumbent cycle exercise. <i>Acta Physiologica</i> , 2019, 225, e13212.	1.8	24
41	Precise mimicking of exercise hyperpnea to investigate the oxygen cost of breathing. <i>Respiratory Physiology and Neurobiology</i> , 2014, 201, 15-23.	0.7	21
42	Exercise-induced intrapulmonary arteriovenous shunt in healthy women. <i>Respiratory Physiology and Neurobiology</i> , 2012, 181, 8-13.	0.7	19
43	Effect of acetazolamide and methazolamide on diaphragm and dorsiflexor fatigue: a randomized controlled trial. <i>Journal of Applied Physiology</i> , 2018, 125, 770-779.	1.2	19
44	Serum skeletal troponin I following inspiratory threshold loading in healthy young and middle-aged men. <i>European Journal of Applied Physiology</i> , 2012, 112, 3547-3558.	1.2	18
45	Attenuation of human hypoxic pulmonary vasoconstriction by acetazolamide and methazolamide. <i>Journal of Applied Physiology</i> , 2018, 125, 1795-1803.	1.2	18
46	Repeated measurement of hypoxic ventilatory response as an intermittent hypoxic stimulus. <i>Respiratory Physiology and Neurobiology</i> , 2005, 145, 33-39.	0.7	17
47	Plasma Exosomes and Improvements in Endothelial Function by Angiotensin 2 Type 1 Receptor or Cyclooxygenase 2 Blockade following Intermittent Hypoxia. <i>Frontiers in Neurology</i> , 2017, 8, 709.	1.1	17
48	Effects of enhanced human chemosensitivity on ventilatory responses to exercise. <i>Experimental Physiology</i> , 2006, 91, 221-228.	0.9	15
49	Changes in cerebral vascular reactivity and structure following prolonged exposure to high altitude in humans. <i>Physiological Reports</i> , 2015, 3, e12647.	0.7	14
50	Dissociating the effects of oxygen pressure and content on the control of breathing and acute hypoxic response. <i>Journal of Applied Physiology</i> , 2019, 127, 1622-1631.	1.2	14
51	Pulmonary Mechanics and Gas Exchange during Exercise in Kenyan Distance Runners. <i>Medicine and Science in Sports and Exercise</i> , 2014, 46, 702-710.	0.2	13
52	Could Adjunctive Pharmacology Mitigate Cardiovascular Consequences of Obstructive Sleep Apnea?. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2019, 200, 551-555.	2.5	13
53	Entrainment of breathing in cyclists and non-cyclists during arm and leg exercise. <i>Respiratory Physiology and Neurobiology</i> , 2007, 155, 64-70.	0.7	12
54	Time course and magnitude of ventilatory and renal acid-base acclimatization following rapid ascent to and residence at 3,800 m over nine days. <i>Journal of Applied Physiology</i> , 2021, 130, 1705-1715.	1.2	12

#	ARTICLE	IF	CITATIONS
55	Within-breath sympathetic baroreflex sensitivity is modulated by lung volume but unaffected by acute intermittent hypercapnic hypoxia in men. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2020, 319, H213-H221.	1.5	11
56	Human ventilatory responsiveness to hypoxia is unrelated to maximal aerobic capacity. <i>Journal of Applied Physiology</i> , 2006, 100, 1204-1209.	1.2	10
57	Quantifying the shape of maximal expiratory flow-volume curves in healthy humans and asthmatic patients. <i>Respiratory Physiology and Neurobiology</i> , 2016, 220, 46-53.	0.7	10
58	Repeated exercise-induced arterial hypoxemia in a healthy untrained woman. <i>Respiratory Physiology and Neurobiology</i> , 2012, 183, 201-205.	0.7	9
59	Chemoreceptor Responsiveness at Sea Level Does Not Predict the Pulmonary Pressure Response to High Altitude. <i>Chest</i> , 2015, 148, 219-225.	0.4	9
60	A methodological approach for quantifying and characterizing the stability of agitated saline contrast: implications for quantifying intrapulmonary shunt. <i>Journal of Applied Physiology</i> , 2016, 121, 568-576.	1.2	9
61	Acute intermittent hypercapnic hypoxia and cerebral neurovascular coupling in males and females. <i>Experimental Neurology</i> , 2020, 334, 113441.	2.0	8
62	The effects of graded changes in oxygen and carbon dioxide tension on coronary blood velocity independent of myocardial energy demand. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2016, 311, H326-H336.	1.5	7
63	Ventilatory responses to acute hypoxia and hypercapnia in humans with a patent foramen ovale. <i>Journal of Applied Physiology</i> , 2019, 126, 730-738.	1.2	7
64	Influence of methazolamide on the human control of breathing: A comparison to acetazolamide. <i>Experimental Physiology</i> , 2020, 105, 293-301.	0.9	7
65	Angiotensin II-Type I Receptor Antagonism Does Not Influence the Chemoreceptor Reflex or Hypoxia-Induced Central Sleep Apnea in Men. <i>Frontiers in Neuroscience</i> , 2020, 14, 382.	1.4	7
66	Commentaries on Viewpoint: Why predominantly neurological DCS in breath-hold divers?. <i>Journal of Applied Physiology</i> , 2016, 120, 1478-1482.	1.2	6
67	The effect of consistent practice of yogic breathing exercises on the human cardiorespiratory system. <i>Respiratory Physiology and Neurobiology</i> , 2016, 233, 41-51.	0.7	6
68	Influence of myocardial oxygen demand on the coronary vascular response to arterial blood gas changes in humans. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2018, 315, H132-H140.	1.5	6
69	Muscle Metaboreflex Control of Sympathetic Activity Is Preserved following Acute Intermittent Hypercapnic Hypoxia. <i>Medicine and Science in Sports and Exercise</i> , 2021, Publish Ahead of Print, 2233-2244.	0.2	6
70	Exercise-induced arterial hypoxemia is unaffected by intense physical training: a case report. <i>Applied Physiology, Nutrition and Metabolism</i> , 2014, 39, 266-269.	0.9	5
71	Reduced blood flow through intrapulmonary arteriovenous anastomoses during exercise in lowlanders acclimatizing to high altitude. <i>Experimental Physiology</i> , 2017, 102, 670-683.	0.9	5
72	Ventilatory and Blood Pressure Responses to Isocapnic Hypoxia in OSA Patients. <i>Advances in Experimental Medicine and Biology</i> , 2008, 605, 463-468.	0.8	4

#	ARTICLE	IF	CITATIONS
73	Gas density alters expiratory time constants before and after experimental lung injury. <i>Experimental Physiology</i> , 2015, 100, 1217-1228.	0.9	4
74	Changes in left ventricular function and coronary blood flow velocity during isocapnic hypoxia: A cardiac magnetic resonance imaging study. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2016, 18, P126.	1.6	4
75	Cardiorespiratory plasticity in humans following two patterns of acute intermittent hypoxia. <i>Experimental Physiology</i> , 2021, 106, 1524-1534.	0.9	4
76	Muscle sympathetic single-unit responses during rhythmic handgrip exercise and isocapnic hypoxia in males: the role of sympathoexcitation magnitude. <i>Journal of Neurophysiology</i> , 2021, 126, 170-180.	0.9	4
77	Administration of intrapulmonary sodium polyacrylate to induce lung injury for the development of a porcine model of early acute respiratory distress syndrome. <i>Intensive Care Medicine Experimental</i> , 2014, 2, 5.	0.9	3
78	Respiratory modulation of sympathetic vasomotor outflow during graded leg cycling. <i>Journal of Applied Physiology</i> , 2021, 131, 858-867.	1.2	3
79	An open-source application for the standardized burst identification from the integrated muscle sympathetic neurogram.. <i>Journal of Neurophysiology</i> , 2021, 126, 1831-1841.	0.9	3
80	Sex differences in the coronary vascular response to combined chemoreflex and metaboreflex stimulation in healthy humans. <i>Experimental Physiology</i> , 2021, , .	0.9	3
81	High on altitude: new attitudes toward human cerebral blood flow regulation and altitude acclimatization. <i>Journal of Physiology</i> , 2011, 589, 449-449.	1.3	2
82	Work of Breathing Influences Muscle Sympathetic Nerve Activity During Whole-Body Exercise. <i>Medicine and Science in Sports and Exercise</i> , 2018, 50, 122.	0.2	2
83	Regional differences in cerebrovascular reactivity in response to acute isocapnic hypoxia in healthy humans: Methodological considerations. <i>Respiratory Physiology and Neurobiology</i> , 2021, 294, 103770.	0.7	2
84	Effect of 4 days of intermittent hypoxia on oxidative stress in healthy men. <i>FASEB Journal</i> , 2008, 22, 960.3.	0.2	2
85	Influence of blood $P_{aO_2}$ on the stability of agitated saline contrast. <i>Journal of Applied Physiology</i> , 2020, 129, 1341-1347.	1.2	2
86	What role for hypercapnia in obstructive sleep apnea?. <i>Journal of Applied Physiology</i> , 2016, 121, 362-362.	1.2	1
87	Case Studies in Physiology: Sympathetic neural discharge patterns in a healthy young male during end-expiratory breath hold-induced sinus pause. <i>Journal of Applied Physiology</i> , 2020, 129, 230-237.	1.2	1
88	Hypercapnia induces dilation of large cerebral arteries and is mediated via a non-selective cyclooxygenase pathway (LB704). <i>FASEB Journal</i> , 2014, 28, LB704.	0.2	1
89	The coronary vascular response to the metaboreflex at low altitude and during acute and prolonged high altitude in males. <i>Journal of Applied Physiology</i> , 2022, 132, 1327-1337.	1.2	1
90	Action potential amplitude and baroreflex resetting of action potential clusters mediate hypoxia-induced sympathetic long-term facilitation. <i>Journal of Physiology</i> , 0, , .	1.3	1

#	ARTICLE	IF	CITATIONS
91	Serum Levels Of Troponin I Increase After Inspiratory Threshold Loading In Healthy Young And Middle-Aged Men. , 2011, , .		0
92	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
93	Reply to Topalovic and Janssens. Respiratory Physiology and Neurobiology, 2016, 227, 68.	0.7	0
94	Measuring blood flow through intrapulmonary and intracardiac shunts: a technical labyrinth. Journal of Physiology, 2019, 597, 5315-5316.	1.3	0
95	Bilateral carotid body resection â€œ a challenge for blood oxygen homeostasis. Journal of Physiology, 2021, 599, 2129-2130.	1.3	0
96	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
97	Cardiopulmonary Adaptations and Maladaptations to the Chronic Intermittent Hypoxia Associated With Repetitive Apnea Diving. FASEB Journal, 2021, 35, .	0.2	0
98	Muscle sympathetic singleâ€œunit responses during rhythmic handgrip exercise and isocapnic hypoxia in males: The role of sympathoexcitation magnitude. FASEB Journal, 2021, 35, .	0.2	0
99	Hypoxic Ventilatory Response in Trained Male and Female Cyclists. Medicine and Science in Sports and Exercise, 2004, 36, S265.	0.2	0
100	Oxygen cost of exercise hyperpnea is greater in women compared to men (882.3). FASEB Journal, 2014, 28, 882.3.	0.2	0
101	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
102	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