

# Craig D Steinback

## List of Publications by Year in descending order

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Version: 2024-02-01

113  
papers

2,229  
citations

257101

24  
h-index

264894

42  
g-index

113  
all docs

113  
docs citations

113  
times ranked

2202  
citing authors

#	ARTICLE	IF	CITATIONS
1	The 2018 Lake Louise Acute Mountain Sickness Score. <i>High Altitude Medicine and Biology</i> , 2018, 19, 4-6.	0.5	324
2	Relationship between oxidative stress and HIF-1 $\alpha$ mRNA during sustained hypoxia in humans. <i>Free Radical Biology and Medicine</i> , 2009, 46, 321-326.	1.3	115
3	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
4	Hypercapnic vs. hypoxic control of cardiovascular, cardiovagal, and sympathetic function. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2009, 296, R402-R410.	0.9	78
5	Sympathetic neural activation: an ordered affair. <i>Journal of Physiology</i> , 2010, 588, 4825-4836.	1.3	71
6	Effects of aging on the association between cerebrovascular responses to visual stimulation, hypercapnia and arterial stiffness. <i>Frontiers in Physiology</i> , 2014, 5, 49.	1.3	68
7	Ventilatory responses to isocapnic and poikilocapnic hypoxia in humans. <i>Respiratory Physiology and Neurobiology</i> , 2007, 155, 104-113.	0.7	56
8	Sympathetic Nervous System Regulation in Human Normotensive and Hypertensive Pregnancies. <i>Hypertension</i> , 2018, 71, 793-803.	1.3	56
9	Relationship between size and latency of action potentials in human muscle sympathetic nerve activity. <i>Journal of Neurophysiology</i> , 2011, 105, 2830-2842.	0.9	53
10	Regulation of Sympathetic Nerve Activity During the Cold Pressor Test in Normotensive Pregnant and Nonpregnant Women. <i>Hypertension</i> , 2015, 66, 858-864.	1.3	44
11	Baroreflex control of sympathetic vasomotor activity and resting arterial pressure at high altitude: insight from Lowlanders and Sherpa. <i>Journal of Physiology</i> , 2019, 597, 2379-2390.	1.3	44
12	Cyclooxygenases 1 and 2 Differentially Regulate Blood Pressure and Cerebrovascular Responses to Acute and Chronic Intermittent Hypoxia: Implications for Sleep Apnea. <i>Journal of the American Heart Association</i> , 2014, 3, e000875.	1.6	39
13	Sympathetic baroreflex gain in normotensive pregnant women. <i>Journal of Applied Physiology</i> , 2015, 119, 468-474.	1.2	38
14	Cardiovascular and cerebrovascular responses to acute isocapnic and poikilocapnic hypoxia in humans. <i>Journal of Applied Physiology</i> , 2008, 104, 482-489.	1.2	37
15	Renal reactivity: acid-base compensation during incremental ascent to high altitude. <i>Journal of Physiology</i> , 2018, 596, 6191-6203.	1.3	37
16	Acute intermittent hypercapnic hypoxia and sympathetic neurovascular transduction in men. <i>Journal of Physiology</i> , 2020, 598, 473-487.	1.3	35
17	Carotid distensibility, baroreflex sensitivity, and orthostatic stress. <i>Journal of Applied Physiology</i> , 2005, 99, 64-70.	1.2	34
18	Blunted sympathetic neurovascular transduction during normotensive pregnancy. <i>Journal of Physiology</i> , 2019, 597, 3687-3696.	1.3	33

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19	Recruitment pattern of sympathetic neurons during breath-holding at different lung volumes in apnea divers and controls. <i>Autonomic Neuroscience: Basic and Clinical</i> , 2011, 164, 74-81.	1.4	31
20	Maternal Responses to Aerobic Exercise in Pregnancy. <i>Clinical Obstetrics and Gynecology</i> , 2016, 59, 541-551.	0.6	30
21	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
22	Ventilatory restraint of sympathetic activity during chemoreflex stress. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2010, 299, R1407-R1414.	0.9	28
23	The influence of prenatal exercise and pre-eclampsia on maternal vascular function. <i>Clinical Science</i> , 2017, 131, 2223-2240.	1.8	28
24	The ins and outs of breath holding: simple demonstrations of complex respiratory physiology. <i>American Journal of Physiology - Advances in Physiology Education</i> , 2015, 39, 223-231.	0.8	27
25	Influence of Hypoxia on Cerebral Blood Flow Regulation in Humans. <i>Advances in Experimental Medicine and Biology</i> , 2016, 903, 131-144.	0.8	25
26	The carotid chemoreceptor contributes to the elevated arterial stiffness and vasoconstrictor outflow in chronic obstructive pulmonary disease. <i>Journal of Physiology</i> , 2018, 596, 3233-3244.	1.3	24
27	The 2018 Global Research Expedition on Altitude Related Chronic Health (Global REACH) to Cerro de Pasco, Peru: an Experimental Overview. <i>Experimental Physiology</i> , 2021, 106, 86-103.	0.9	24
28	Quantifying cerebrovascular reactivity in anterior and posterior cerebral circulations during voluntary breath holding. <i>Experimental Physiology</i> , 2016, 101, 1517-1527.	0.9	23
29	Sex differences in dynamic blood pressure regulation: beat-by-beat responses to muscle sympathetic nerve activity. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2020, 319, H531-H538.	1.5	23
30	Impact of pregnancy and obesity on cardiorespiratory responses during weight-bearing exercise. <i>Respiratory Physiology and Neurobiology</i> , 2009, 167, 341-347.	0.7	22
31	Sympathetic neurovascular regulation during pregnancy: A longitudinal case series study. <i>Experimental Physiology</i> , 2018, 103, 318-323.	0.9	20
32	Highs and lows of sympathetic neurocardiovascular transduction: influence of altitude acclimatization and adaptation. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2020, 319, H1240-H1252.	1.5	20
33	Muscle sympathetic nerve activity and volume-regulating factors in healthy pregnant and nonpregnant women. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2017, 313, H782-H787.	1.5	19
34	UBC-Nepal Expedition: An experimental overview of the 2016 University of British Columbia Scientific Expedition to Nepal Himalaya. <i>PLoS ONE</i> , 2018, 13, e0204660.	1.1	19
35	Chemoreflex mediated arrhythmia during apnea at 5,050 m in low- but not high-altitude natives. <i>Journal of Applied Physiology</i> , 2018, 124, 930-937.	1.2	19
36	Cold air exercise screening for exercise induced bronchoconstriction in cold weather athletes. <i>Respiratory Physiology and Neurobiology</i> , 2019, 269, 103262.	0.7	19

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37	Autonomic and cardiovascular responses to chemoreflex stress in apnoea divers. <i>Autonomic Neuroscience: Basic and Clinical</i> , 2010, 156, 138-143.	1.4	18
38	Evidence for a physiological role of pulmonary arterial baroreceptors in sympathetic neural activation in healthy humans. <i>Journal of Physiology</i> , 2020, 598, 955-965.	1.3	18
39	Sympathetic and cardiovascular responses to glossopharyngeal insufflation in trained apnea divers. <i>Journal of Applied Physiology</i> , 2010, 109, 1728-1735.	1.2	17
40	Differential regulation of sympathetic burst frequency and amplitude following acute hypoxia in humans. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2012, 303, R633-R638.	0.9	17
41	Maternal Physical Activity Is Associated With Improved Blood Pressure Regulation During Late Pregnancy. <i>Canadian Journal of Cardiology</i> , 2018, 34, 485-491.	0.8	17
42	Central respiratory chemosensitivity and cerebrovascular CO <sub>2</sub> reactivity: a rebreathing demonstration illustrating integrative human physiology. <i>American Journal of Physiology - Advances in Physiology Education</i> , 2016, 40, 79-92.	0.8	16
43	Activity of muscle sympathetic neurons during normotensive pregnancy. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2018, 314, R153-R160.	0.9	16
44	Steady-state cerebral blood flow regulation at altitude: interaction between oxygen and carbon dioxide. <i>European Journal of Applied Physiology</i> , 2019, 119, 2529-2544.	1.2	16
45	Chemosensitivity, Cardiovascular Risk, and the Ventilatory Response to Exercise in COPD. <i>PLoS ONE</i> , 2016, 11, e0158341.	1.1	15
46	Maternal cardioautonomic responses during and following exercise throughout pregnancy. <i>Applied Physiology, Nutrition and Metabolism</i> , 2019, 44, 263-270.	0.9	15
47	Functional-Optical Coherence Tomography: A Non-invasive Approach to Assess the Sympathetic Nervous System and Intrinsic Vascular Regulation. <i>Frontiers in Physiology</i> , 2019, 10, 1146.	1.3	15
48	Spleen reactivity during incremental ascent to altitude. <i>Journal of Applied Physiology</i> , 2019, 126, 152-159.	1.2	15
49	Sympathetic nervous system activity and reactivity in women with gestational diabetes mellitus. <i>Physiological Reports</i> , 2020, 8, e14504.	0.7	14
50	Relating drug-induced changes in carotid artery mechanics to cardiovagal and sympathetic baroreflex control. <i>Canadian Journal of Physiology and Pharmacology</i> , 2005, 83, 439-446.	0.7	13
51	UBC-Nepal Expedition: acute alterations in sympathetic nervous activity do not influence brachial artery endothelial function at sea level and high altitude. <i>Journal of Applied Physiology</i> , 2017, 123, 1386-1396.	1.2	13
52	A sympathetic view of blood pressure control at high altitude: new insights from microneurographic studies. <i>Experimental Physiology</i> , 2021, 106, 377-384.	0.9	13
53	The effects of head-up and head-down tilt on central respiratory chemoreflex loop gain tested by hyperoxic rebreathing. <i>Progress in Brain Research</i> , 2014, 212, 149-172.	0.9	12
54	Muscle sympathetic reactivity to apneic and exercise stress in high-altitude Sherpa. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2020, 318, R493-R502.	0.9	12

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55	Global REACH 2018: Andean highlanders, chronic mountain sickness and the integrative regulation of resting blood pressure. <i>Experimental Physiology</i> , 2021, 106, 104-116.	0.9	12
56	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
57	Prenatal Exercise and Cardiovascular Health (PEACH) Study: Impact on Muscle Sympathetic Nerve (Re)Activity. <i>Medicine and Science in Sports and Exercise</i> , 2021, 53, 1101-1113.	0.2	12
58	Effects of one's sex and sex hormones on sympathetic responses to chemoreflex activation. <i>Experimental Physiology</i> , 2016, 101, 362-367.	0.9	11
59	Assessing chemoreflexes and oxygenation in the context of acute hypoxia: Implications for field studies. <i>Respiratory Physiology and Neurobiology</i> , 2017, 246, 67-75.	0.7	11
60	Mechanisms of sympathetic regulation during Apnea. <i>Physiological Reports</i> , 2019, 7, e13991.	0.7	11
61	Blunted sympathetic neurovascular transduction is associated to the severity of obstructive sleep apnea. <i>Clinical Autonomic Research</i> , 2021, 31, 443-451.	1.4	11
62	Peripheral pulse pressure responses to postural stress do not reflect those at the carotid artery. <i>Clinical Physiology and Functional Imaging</i> , 2004, 24, 40-45.	0.5	9
63	Reduced uterine perfusion pressure decreases functional capillary density in skeletal muscle. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2015, 309, H2002-H2007.	1.5	8
64	Longitudinal study of cerebral blood flow regulation during exercise in pregnancy. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2020, 40, 2278-2288.	2.4	8
65	Global REACH 2018: volume regulation in high-altitude Andeans with and without chronic mountain sickness. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2021, 321, R504-R512.	0.9	8
66	Global REACH 2018: renal oxygen delivery is maintained during early acclimatization to 4,330 m. <i>American Journal of Physiology - Renal Physiology</i> , 2020, 319, F1081-F1089.	1.3	8
67	Longitudinal cerebrovascular reactivity during pregnancy: a case study. <i>Applied Physiology, Nutrition and Metabolism</i> , 2015, 40, 636-639.	0.9	7
68	Peripheral chemoreceptor deactivation attenuates the sympathetic response to glucose ingestion. <i>Applied Physiology, Nutrition and Metabolism</i> , 2019, 44, 389-396.	0.9	7
69	The 9-Month Stress Test: Pregnancy and Exercise—Similarities and Interactions. <i>Canadian Journal of Cardiology</i> , 2021, 37, 2014-2025.	0.8	7
70	Prenatal exercise and cardiovascular health (PEACH) study: impact of acute and chronic exercise on cerebrovascular hemodynamics and dynamic cerebral autoregulation. <i>Journal of Applied Physiology</i> , 2022, 132, 247-260.	1.2	7
71	Glycemic and Metabolic Effects of Two Long Bouts of Moderate-Intensity Exercise in Men with Normal Glucose Tolerance or Type 2 Diabetes. <i>Frontiers in Endocrinology</i> , 2017, 8, 154.	1.5	6
72	A review of acute responses, after-effects and chronic complications related to microneurography. <i>Clinical Neurophysiology</i> , 2019, 130, 1781-1788.	0.7	6

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73	Influence of multiparity on sympathetic nerve activity during normal pregnancy. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2020, 318, H816-H819.	1.5	6
74	Global REACH: Assessment of Brady-Arrhythmias in Andeans and Lowlanders During Apnea at 4330 m. <i>Frontiers in Physiology</i> , 2019, 10, 1603.	1.3	6
75	Preeclampsia is not associated with elevated muscle sympathetic reactivity. <i>Journal of Applied Physiology</i> , 2021, 130, 139-148.	1.2	6
76	Assessing static and dynamic sympathetic transduction using microneurography. <i>Journal of Applied Physiology</i> , 2021, 130, 1626-1634.	1.2	6
77	Age, body mass index, and weight gain do not increase sympathetic activity during pregnancy. <i>Applied Physiology, Nutrition and Metabolism</i> , 2020, 45, 1041-1044.	0.9	6
78	Extreme pregnancy: maternal physical activity at Everest Base Camp. <i>Journal of Applied Physiology</i> , 2018, 125, 580-585.	1.2	5
79	The sympathetic muscle metaboreflex is not different in the third trimester in normotensive pregnant women. <i>Journal of Applied Physiology</i> , 2021, 130, 640-650.	1.2	5
80	Prenatal exercise and cardiovascular health (PEACH) study: the remote effect of aerobic exercise training on conduit artery and resistance vessel function. <i>Applied Physiology, Nutrition and Metabolism</i> , 2021, 46, 1459-1468.	0.9	5
81	Blood glucose concentration is unchanged during exposure to acute normobaric hypoxia in healthy humans. <i>Physiological Reports</i> , 2021, 9, e14932.	0.7	5
82	The Effect of Different Training Loads on the Lung Health of Competitive Youth Swimmers. <i>International Journal of Exercise Science</i> , 2018, 11, 999-1018.	0.5	5
83	Acid-base balance at high altitude in lowlanders and indigenous highlanders. <i>Journal of Applied Physiology</i> , 2022, 132, 575-580.	1.2	5
84	Determining whether sympathetic nervous activity influences cerebral blood velocity at rest: a novel approach. <i>Clinical Autonomic Research</i> , 2020, 30, 357-359.	1.4	4
85	Prior oxygenation, but not chemoreflex responsiveness, determines breath-hold duration during voluntary apnea. <i>Physiological Reports</i> , 2021, 9, e14664.	0.7	4
86	The Impact of Hospitalization on Physical Activity During Pregnancy. <i>Journal of Obstetrics and Gynaecology Canada</i> , 2021, 43, 766-768.	0.3	4
87	Cardiac Responses to Prenatal Resistance Exercise with and without the Valsalva Maneuver. <i>Medicine and Science in Sports and Exercise</i> , 2021, 53, 1260-1269.	0.2	4
88	Cardiovascular function during triplet pregnancy. <i>Journal of Applied Physiology</i> , 2021, 130, 1286-1292.	1.2	3
89	Global REACH 2018: The carotid artery diameter response to the cold pressor test is governed by arterial blood pressure during normoxic but not hypoxic conditions in healthy lowlanders and Andean highlanders. <i>Experimental Physiology</i> , 2020, 105, 1742-1757.	0.9	2
90	Short-term hypoxia does not promote arrhythmia during voluntary apnea. <i>Physiological Reports</i> , 2021, 9, e14703.	0.7	2

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91	Prenatal Exercise and Cardiovascular Health (PEACH) Study. <i>Medicine and Science in Sports and Exercise</i> , 2021, Publish Ahead of Print, 2605-2617.	0.2	2
92	Sympathetic neurovascular transduction following acute hypoxia. <i>Clinical Autonomic Research</i> , 2021, 31, 755-765.	1.4	2
93	Duration at high altitude influences the onset of arrhythmogenesis during apnea. <i>European Journal of Applied Physiology</i> , 2021, 122, 475.	1.2	2
94	Cerebrovascular and blood pressure responses during voluntary apneas are larger than rebreathing. <i>European Journal of Applied Physiology</i> , 2022, 122, 735.	1.2	2
95	Subject specific effects of hyperpnea but not hypocapnia on airway conductance. <i>Respiratory Physiology and Neurobiology</i> , 2011, 177, 127-132.	0.7	1
96	Cerebral oxygenation following epinephrine infusion. <i>Journal of the Neurological Sciences</i> , 2012, 321, 23-28.	0.3	1
97	Is Performance of a Modified Eucapnic Voluntary Hyperpnea Test in High Ventilation Athletes Reproducible?. <i>Allergy, Asthma and Immunology Research</i> , 2017, 9, 229.	1.1	1
98	Standardizing the cerebrovascular response to hypercapnia – increasing the flow of data!. <i>Experimental Physiology</i> , 2020, 105, 769-770.	0.9	1
99	The Effects of Moderate-to-Vigorous Physical Activity on Arterial Stiffness during Pregnancy. <i>FASEB Journal</i> , 2021, 35, .	0.2	1
100	The effects of physical activity on arterial stiffness during pregnancy: an observational study. <i>Applied Physiology, Nutrition and Metabolism</i> , 2022, 47, 234-242.	0.9	1
101	JOURNAL CLUB: Quantifying needles in a haystack: the firing properties of single sympathetic vasoconstrictor neurones in chronic obstructive pulmonary disease. <i>Journal of Physiology</i> , 2010, 588, 3137-3138.	1.3	0
102	Exercise Reduces Insulin and Glucagon, but not Incretin, Responses to Oral Glucose in Type 2 Diabetes. <i>Canadian Journal of Diabetes</i> , 2016, 40, S10.	0.4	0
103	Cardioautonomic control in healthy singleton and twin pregnancies. <i>Journal of Applied Physiology</i> , 2021, 130, 923-932.	1.2	0
104	Duration at High Altitude Influences the Onset of Arrhythmogenesis During Apnea. <i>FASEB Journal</i> , 2021, 35, .	0.2	0
105	Cardiovagal baroreceptor sensitivity and peak oxygen consumption in chronic obstructive pulmonary disease (COPD). <i>FASEB Journal</i> , 2012, 26, 1092.3.	0.2	0
106	Differential regulation of sympathetic burst frequency and amplitude following acute hypoxia. <i>FASEB Journal</i> , 2012, 26, 893.14.	0.2	0
107	Test-retest reliability of eucapnic voluntary hyperpnea test performance and pre-post spirometry in elite swimmers (LB783). <i>FASEB Journal</i> , 2014, 28, LB783.	0.2	0
108	The Reduced Uterine Perfusion Pressure (RUPP) Model of Preeclampsia Causes Decreased Capillary Perfusion in Skeletal Muscle. <i>FASEB Journal</i> , 2015, 29, LB551.	0.2	0

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109	Sympathetic Neurovascular Regulation During Pregnancy: A Longitudinal Case Study. FASEB Journal, 2015, 29, 1041.8.	0.2	0
110	How do the Carotid Chemoreceptors Modulate Ventilatory Control and Cardiovascular Regulation at Rest and During Exercise in COPD?. FASEB Journal, 2018, 32, 884.2.	0.2	0
111	Tracking cerebral blood flow regulation during incremental ascent to altitude: Effect of superimposed hypoxia and hypocapnia. FASEB Journal, 2018, 32, 1b414.	0.2	0
112	A novel noninvasive method to measure sympathetic activity and autoregulation in humans. FASEB Journal, 2018, 32, 920.4.	0.2	0
113	Selective Reductions in Pulmonary Artery Pressure Lowers Sympathetic Neural Activity in Healthy Humans at High Altitude. FASEB Journal, 2019, 33, .	0.2	0