

Ryan Hoiland

List of Publications by Citations

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105
papers

6,384
citations

30
h-index

79
g-index

113
ext. papers

7,381
ext. citations

4.8
avg. IF

5.9
L-index

#	Paper	IF	Citations
105	Heart rate variability: origins, methods, and interpretive caveats. <i>Psychophysiology</i> , 1997 , 34, 623-48	4.1	2365
104	Sympathovagal balance: a critical appraisal. <i>Circulation</i> , 1997 , 96, 3224-32	16.7	755
103	Human responses to upright tilt: a window on central autonomic integration. <i>Journal of Physiology</i> , 1999 , 517 (Pt 2), 617-28	3.9	346
102	Fundamental relations between short-term RR interval and arterial pressure oscillations in humans. <i>Circulation</i> , 1996 , 93, 1527-32	16.7	191
101	Sympathetic restraint of respiratory sinus arrhythmia: implications for vagal-cardiac tone assessment in humans. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2001 , 280, H2804-14	5.2	157
100	Human muscle sympathetic neural and haemodynamic responses to tilt following spaceflight. <i>Journal of Physiology</i> , 2002 , 538, 331-40	3.9	138
99	Mechanics of left ventricular contraction in chronic severe mitral regurgitation. <i>Circulation</i> , 1973 , 47, 1252-9	16.7	135
98	Hypoxemia, oxygen content, and the regulation of cerebral blood flow. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2016 , 310, R398-413	3.2	117
97	Human muscle sympathetic nerve activity and plasma noradrenaline kinetics in space. <i>Journal of Physiology</i> , 2002 , 538, 321-9	3.9	115
96	Weathering the COVID-19 storm: Lessons from hematologic cytokine syndromes. <i>Blood Reviews</i> , 2021 , 45, 100707	11.1	92
95	Human cerebral autoregulation before, during and after spaceflight. <i>Journal of Physiology</i> , 2007 , 579, 799-810	3.9	87
94	Regulation of the Cerebral Circulation by Arterial Carbon Dioxide. <i>Comprehensive Physiology</i> , 2019 , 9, 1101-1154	7.7	84
93	Nine months in space: effects on human autonomic cardiovascular regulation. <i>Journal of Applied Physiology</i> , 2000 , 89, 1039-45	3.7	77
92	Static autoregulation in humans: a review and reanalysis. <i>Medical Engineering and Physics</i> , 2014 , 36, 1487-95	7.5	72
91	Cardiovascular and sympathetic neural responses to handgrip and cold pressor stimuli in humans before, during and after spaceflight. <i>Journal of Physiology</i> , 2002 , 544, 653-64	3.9	68
90	The association of ABO blood group with indices of disease severity and multiorgan dysfunction in COVID-19. <i>Blood Advances</i> , 2020 , 4, 4981-4989	7.8	68
89	Influence of microgravity on astronauts' sympathetic and vagal responses to Valsalva manoeuvre. <i>Journal of Physiology</i> , 2002 , 538, 309-20	3.9	66

88	CrossTalk proposal: The middle cerebral artery diameter does change during alterations in arterial blood gases and blood pressure. <i>Journal of Physiology</i> , 2016 , 594, 4073-5	3.9	57
87	Evidence for Shear Stress-Mediated Dilation of the Internal Carotid Artery in Humans. <i>Hypertension</i> , 2016 , 68, 1217-1224	8.5	51
86	Human vagal baroreflex mechanisms in space. <i>Journal of Physiology</i> , 2010 , 588, 1129-38	3.9	49
85	Influence of high altitude on cerebral blood flow and fuel utilization during exercise and recovery. <i>Journal of Physiology</i> , 2014 , 592, 5507-27	3.9	47
84	Measuring the human ventilatory and cerebral blood flow response to CO ₂ : a technical consideration for the end-tidal-to-arterial gas gradient. <i>Journal of Applied Physiology</i> , 2016 , 120, 282-96	3.7	47
83	Shear-mediated dilation of the internal carotid artery occurs independent of hypercapnia. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2017 , 313, H24-H31	5.2	43
82	Human autonomic responses to actual and simulated weightlessness. <i>Journal of Clinical Pharmacology</i> , 1991 , 31, 951-5	2.9	40
81	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, 873-81	7.3	35
80	Indomethacin-induced impairment of regional cerebrovascular reactivity: implications for respiratory control. <i>Journal of Physiology</i> , 2015 , 593, 1291-306	3.9	35
79	Ventilatory and cerebrovascular regulation and integration at high-altitude. <i>Clinical Autonomic Research</i> , 2018 , 28, 423-435	4.3	35
78	Global REACH 2018: High Blood Viscosity and Hemoglobin Concentration Contribute to Reduced Flow-Mediated Dilation in High-Altitude Excessive Erythrocytosis. <i>Hypertension</i> , 2019 , 73, 1327-1335	8.5	31
77	Human vagal baroreflex sensitivity fluctuates widely and rhythmically at very low frequencies. <i>Journal of Physiology</i> , 2005 , 567, 1011-9	3.9	30
76	Carbon dioxide-mediated vasomotion of extra-cranial cerebral arteries in humans: a role for prostaglandins?. <i>Journal of Physiology</i> , 2016 , 594, 3463-81	3.9	28
75	Amelioration of COVID-19-related cytokine storm syndrome: parallels to chimeric antigen receptor-T cell cytokine release syndrome. <i>British Journal of Haematology</i> , 2020 , 190, e150-e154	4.5	26
74	Cerebral oxidative metabolism is decreased with extreme apnoea in humans; impact of hypercapnia. <i>Journal of Physiology</i> , 2016 , 594, 5317-28	3.9	25
73	Nitric oxide is fundamental to neurovascular coupling in humans. <i>Journal of Physiology</i> , 2020 , 598, 4927-4939	3.9	25
72	Role of CO ₂ in the cerebral hyperemic response to incremental normoxic and hyperoxic exercise. <i>Journal of Applied Physiology</i> , 2016 , 120, 843-54	3.7	25
71	Losing the dogmatic view of cerebral autoregulation. <i>Physiological Reports</i> , 2021 , 9, e14982	2.6	22

70	Internal carotid and brachial artery shear-dependent vasodilator function in young healthy humans. <i>Journal of Physiology</i> , 2020 , 598, 5333-5350	3.9	21
69	Time-frequency methods and voluntary ramped-frequency breathing: a powerful combination for exploration of human neurophysiological mechanisms. <i>Journal of Applied Physiology</i> , 2013 , 115, 1806-2137	3.7	20
68	Assessing the importance of interleukin-6 in COVID-19. <i>Lancet Respiratory Medicine</i> , 2021 , 9, e13	35.1	20
67	The effect of β-adrenergic blockade on post-exercise brachial artery flow-mediated dilatation at sea level and high altitude. <i>Journal of Physiology</i> , 2017 , 595, 1671-1686	3.9	18
66	Hypercapnia is essential to reduce the cerebral oxidative metabolism during extreme apnea in humans. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2017 , 37, 3231-3242	7.3	17
65	Adenosine receptor-dependent signaling is not obligatory for normobaric and hypobaric hypoxia-induced cerebral vasodilation in humans. <i>Journal of Applied Physiology</i> , 2017 , 122, 795-808	3.7	17
64	Surviving Without Oxygen: How Low Can the Human Brain Go?. <i>High Altitude Medicine and Biology</i> , 2017 , 18, 73-79	1.9	17
63	Disturbed blood flow worsens endothelial dysfunction in moderate-severe chronic obstructive pulmonary disease. <i>Scientific Reports</i> , 2017 , 7, 16929	4.9	17
62	Matched increases in cerebral artery shear stress, irrespective of stimulus, induce similar changes in extra-cranial arterial diameter in humans. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2019 , 39, 849-858	7.3	17
61	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	3.7	17
60	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	3.7	17
59	The Association of Inflammatory Cytokines in the Pulmonary Pathophysiology of Respiratory Failure in Critically Ill Patients With Coronavirus Disease 2019. <i>Chest</i> , 2020 , 157, e2023		16
58	Lessons from the laboratory; integrated regulation of cerebral blood flow during hypoxia. <i>Experimental Physiology</i> , 2016 , 101, 1160-1166	2.4	15
57	Peripheral chemoreflex inhibition with low-dose dopamine: new insight into mechanisms of extreme apnea. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2015 , 309, R1162-71	3.2	15
56	Competitive apnea and its effect on the human brain: focus on the redox regulation of blood-brain barrier permeability and neuronal-parenchymal integrity. <i>FASEB Journal</i> , 2018 , 32, 2305-2314	0.9	15
55	Passive heat stress reduces circulating endothelial and platelet microparticles. <i>Experimental Physiology</i> , 2017 , 102, 663-669	2.4	14
54	Pathophysiological and clinical considerations in the perioperative care of patients with a previous ischaemic stroke: a multidisciplinary narrative review. <i>British Journal of Anaesthesia</i> , 2020 , 124, 183-196	5.4	14
53	UBC-Nepal expedition: upper and lower limb conduit artery shear stress and flow-mediated dilation on ascent to 5,050 m in lowlanders and Sherpa. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2018 , 315, H1532-H1543	5.2	14

52	Quantification of Neurological Blood-Based Biomarkers in Critically Ill Patients With Coronavirus Disease 2019 2020 , 2, e0238		13
51	Cerebrovascular reactivity to carbon dioxide is not influenced by variability in the ventilatory sensitivity to carbon dioxide. <i>Experimental Physiology</i> , 2020 , 105, 904-915	2.4	13
50	Global REACH 2018: The influence of acute and chronic hypoxia on cerebral haemodynamics and related functional outcomes during cold and heat stress. <i>Journal of Physiology</i> , 2020 , 598, 265-284	3.9	12
49	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	2.4	12
48	Arterial carbon dioxide and bicarbonate rather than pH regulate cerebral blood flow in the setting of acute experimental metabolic alkalosis. <i>Journal of Physiology</i> , 2021 , 599, 1439-1457	3.9	12
47	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	3.7	11
46	One session of remote ischemic preconditioning does not improve vascular function in acute normobaric and chronic hypobaric hypoxia. <i>Experimental Physiology</i> , 2017 , 102, 1143-1157	2.4	11
45	Lack of agreement between optimal mean arterial pressure determination using pressure reactivity index versus cerebral oximetry index in hypoxic ischemic brain injury after cardiac arrest. <i>Resuscitation</i> , 2020 , 152, 184-191	4	11
44	Differential pathophysiologic phenotypes of hypoxic ischemic brain injury: considerations for post-cardiac arrest trials. <i>Intensive Care Medicine</i> , 2020 , 46, 1969-1971	14.5	11
43	βBlockade increases maximal apnea duration in elite breath-hold divers. <i>Journal of Applied Physiology</i> , 2017 , 122, 899-906	3.7	10
42	Acute reductions in haematocrit increase flow-mediated dilatation independent of resting nitric oxide bioavailability in humans. <i>Journal of Physiology</i> , 2020 , 598, 4225-4236	3.9	10
41	Evidence for temperature-mediated regional increases in cerebral blood flow during exercise. <i>Journal of Physiology</i> , 2020 , 598, 1459-1473	3.9	10
40	Cerebral metabolism, oxidation and inflammation in severe passive hyperthermia with and without respiratory alkalosis. <i>Journal of Physiology</i> , 2020 , 598, 943-954	3.9	9
39	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	3.4	8
38	UBC-Nepal expedition: phenotypical evidence for evolutionary adaptation in the control of cerebral blood flow and oxygen delivery at high altitude. <i>Journal of Physiology</i> , 2019 , 597, 2993-3008	3.9	8
37	Chemoreceptor Responsiveness at Sea Level Does Not Predict the Pulmonary Pressure Response to High Altitude. <i>Chest</i> , 2015 , 148, 219-225	5.3	8
36	Respiratory modulation of human autonomic function: long-term neuroplasticity in space. <i>Journal of Physiology</i> , 2016 , 594, 5629-46	3.9	8
35	Respiratory modulation of human autonomic function on Earth. <i>Journal of Physiology</i> , 2016 , 594, 5611-23.9	3.9	8

34	UBC-Nepal expedition: peripheral fatigue recovers faster in Sherpa than lowlanders at high altitude. <i>Journal of Physiology</i> , 2018 , 596, 5365-5377	3.9	8
33	Oxygen therapy improves cerebral oxygen delivery and neurovascular function in hypoxaemic chronic obstructive pulmonary disease patients. <i>Experimental Physiology</i> , 2018 , 103, 1170-1177	2.4	7
32	Reply from Ryan L. Hoiland and Philip N. Ainslie. <i>Journal of Physiology</i> , 2017 , 595, 3673-3675	3.9	6
31	UBC-Nepal Expedition: Haemoconcentration underlies the reductions in cerebral blood flow observed during acclimatization to high altitude. <i>Experimental Physiology</i> , 2019 , 104, 1963-1972	2.4	6
30	Influence of lung volume on the interaction between cardiac output and cerebrovascular regulation during extreme apnoea. <i>Experimental Physiology</i> , 2017 , 102, 1288-1299	2.4	6
29	UBC-Nepal expedition: The use of oral antioxidants does not alter cerebrovascular function at sea level or high altitude. <i>Experimental Physiology</i> , 2018 , 103, 523-534	2.4	5
28	Role of cerebral blood flow in extreme breath holding. <i>Translational Neuroscience</i> , 2016 , 7, 12-16	1.2	5
27	Influence of iron manipulation on hypoxic pulmonary vasoconstriction and pulmonary reactivity during ascent and acclimatization to 5050m. <i>Journal of Physiology</i> , 2021 , 599, 1685-1708	3.9	5
26	The Effect of an Expiratory Resistance Mask with Dead Space on Sleep, Acute Mountain Sickness, Cognition, and Ventilatory Acclimatization in Normobaric Hypoxia. <i>High Altitude Medicine and Biology</i> , 2019 , 20, 61-70	1.9	4
25	Differential influence of vitamin C on the peripheral and cerebral circulation after diving and exposure to hyperoxia. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2018 , 315, R759-R767	3.2	4
24	High-Altitude Acclimatization Improves Recovery from Muscle Fatigue. <i>Medicine and Science in Sports and Exercise</i> , 2020 , 52, 161-169	1.2	4
23	Determining Optimal Mean Arterial Pressure After Cardiac Arrest: A Systematic Review. <i>Neurocritical Care</i> , 2021 , 34, 621-634	3.3	4
22	Global REACH 2018: The Effect of an Expiratory Resistance Mask with Dead Space on Sleep and Acute Mountain Sickness During Acute Exposure to Hypobaric Hypoxia. <i>High Altitude Medicine and Biology</i> , 2020 , 21, 297-302	1.9	3
21	Scratching the surface of hypoxic cerebral vascular control: a potentially polarizing view of mechanistic research in humans. <i>Journal of Physiology</i> , 2020 , 598, 3313-3315	3.9	3
20	Hypoxemia increases blood-brain barrier permeability during extreme apnea in humans.. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2022 , 271678X221075967	7.3	3
19	Goal-Directed Care Using Invasive Neuromonitoring Versus Standard of Care After Cardiac Arrest: A Matched Cohort Study. <i>Critical Care Medicine</i> , 2021 , 49, 1333-1346	1.4	3
18	Alterations in arterial CO rather than pH affect the kinetics of neurovascular coupling in humans. <i>Journal of Physiology</i> , 2021 , 599, 3663-3676	3.9	3
17	Rebuttal from Ryan L. Hoiland and Philip N. Ainslie. <i>Journal of Physiology</i> , 2016 , 594, 4081	3.9	3

16	Brain Hypoxia Is Associated With Neuroglial Injury in Humans Post-Cardiac Arrest. <i>Circulation Research</i> , 2021 , 129, 583-597	15.7	3
15	Nitric oxide contributes to cerebrovascular shear-mediated dilatation but not steady-state cerebrovascular reactivity to carbon dioxide.. <i>Journal of Physiology</i> , 2021 ,	3.9	3
14	UBC-Nepal expedition: dynamic cerebral autoregulation is attenuated in lowlanders upon ascent to 5050m. <i>European Journal of Applied Physiology</i> , 2020 , 120, 675-686	3.4	2
13	Is nitric oxide mediated sympatholysis improved with exercise? Yes or nNO?. <i>Journal of Physiology</i> , 2015 , 593, 1045-6	3.9	2
12	Persistently elevated complement alternative pathway biomarkers in COVID-19 correlate with hypoxemia and predict in-hospital mortality.. <i>Medical Microbiology and Immunology</i> , 2022 , 211, 37	4	2
11	The stability of cerebrovascular CO reactivity following attainment of physiological steady-state. <i>Experimental Physiology</i> , 2021 , 106, 2542-2555	2.4	2
10	Assessing autoregulation using near infrared spectroscopy: more questions than answers. <i>Resuscitation</i> , 2020 , 156, 280-281	4	2
9	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	2.4	2
8	Negligible influence of moderate to severe hyperthermia on blood-brain barrier permeability and neuronal parenchymal integrity in healthy men. <i>Journal of Applied Physiology</i> , 2021 , 130, 792-800	3.7	2
7	Regulation of cerebral blood flow by arterial PCO independent of metabolic acidosis at 5050m. <i>Journal of Physiology</i> , 2021 , 599, 3513-3530	3.9	2
6	The influence of hemoconcentration on hypoxic pulmonary vasoconstriction in acute, prolonged, and lifelong hypoxemia. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2021 , 321, H738-H747	5.2	1
5	Trans-cerebral HCO and PCO exchange during acute respiratory acidosis and exercise-induced metabolic acidosis in humans.. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2021 , 271678X211065924	7.3	1
4	Alterations in resting cerebrovascular regulation do not affect reactivity to hypoxia, hyperoxia or neurovascular coupling following a SCUBA dive. <i>Experimental Physiology</i> , 2020 , 105, 1540-1549	2.4	0
3	Reply from Dwain L. Eckberg and the Neurolab Autonomic Team. <i>Journal of Physiology</i> , 2017 , 595, 2199-2200	3.9	0
2	Global REACH 2018: Regional differences in cerebral blood velocity control during normoxic and hypoxic cold pressor tests. <i>Autonomic Neuroscience: Basic and Clinical</i> , 2020 , 229, 102740	2.4	0
1	Performing under pressure: hypertension and the regulation of cerebral oxygen delivery. <i>Journal of Physiology</i> , 2018 , 596, 1129-1130	3.9	0