Michael M Tymko

List of Publications by Year
in descending order

76	1,266	394421 19	434195 31
papers	citations	h-index	g-index

76	76	76	1079
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Global Research Expedition on Altitude-related Chronic Health 2018 Iron Infusion at High Altitude Reduces Hypoxic Pulmonary Vasoconstriction Equally in Both Lowlanders and Healthy Andean Highlanders. Chest, 2022, 161, 1022-1035.	0.8	8
2	GLOBAL REACH 2018: intraâ€arterial vitamin C improves endothelialâ€dependent vasodilatory function in humans at high altitude. Journal of Physiology, 2022, 600, 1373-1383.	2.9	5
3	Acid-base balance at high altitude in lowlanders and indigenous highlanders. Journal of Applied Physiology, 2022, 132, 575-580.	2.5	5
4	Global REACH 2018: Characterizing Acidâ€“Base Balance Over 21 Days at 4,300â€‰m in Lowlanders. High Altitude Medicine and Biology, 2022, 23, 185-191.	0.9	2
5	Global Reach 2018: Sympathetic neural and hemodynamic responses to submaximal exercise in Andeans with and without chronic mountain sickness. American Journal of Physiology - Heart and Circulatory Physiology, 2022, , .	3.2	1
6	Nitric oxide contributes to cerebrovascular shearâ€mediated dilatation but not steadyâ€state cerebrovascular reactivity to carbon dioxide. Journal of Physiology, 2022, 600, 1385-1403.	2.9	21
7	Trans-cerebral HCO₃^{â^'} and PCO₂ exchange during acute respiratory acidosis and exercise-induced metabolic acidosis in humans. Journal of Cerebral Blood Flow and Metabolism, 2022, 42, 559-571.	4.3	6
8	Global REACH 2018: Andean highlanders, chronic mountain sickness and the integrative regulation of resting blood pressure. Experimental Physiology, 2021, 106, 104-116.	2.0	12
9	The 2018 Global Research Expedition on Altitude Related Chronic Health (Global REACH) to Cerro de Pasco, Peru: an Experimental Overview. Experimental Physiology, 2021, 106, 86-103.	2.0	24
10	The effect of hypercapnia on regional cerebral blood flow regulation during progressive lower-body negative pressure. European Journal of Applied Physiology, 2021, 121, 339-349.	2.5	3
11	Influence of iron manipulation on hypoxic pulmonary vasoconstriction and pulmonary reactivity during ascent and acclimatization to 5050Âm. Journal of Physiology, 2021, 599, 1685-1708.	2.9	17
12	Global REACH 2018: Influence of excessive erythrocytosis on coagulation and fibrinolytic factors in Andean highlanders. Experimental Physiology, 2021, 106, 1335-1342.	2.0	1
13	Assessing static and dynamic sympathetic transduction using microneurography. Journal of Applied Physiology, 2021, 130, 1626-1634.	2.5	6
14	Global REACH 2018: heightened Î±â€adrenergic signaling restrains blood flow to precisely match oxygen delivery and demand during handgrip exercise in Andeans with polycythemia. FASEB Journal, 2021, 35, .	0.5	0
15	Global REACH 2018: dysfunctional extracellular microvesicles in Andean highlander males with excessive erythrocytosis. American Journal of Physiology - Heart and Circulatory Physiology, 2021, 320, H1851-H1861.	3.2	10
16	Cardiorespiratory plasticity in humans following two patterns of acute intermittent hypoxia. Experimental Physiology, 2021, 106, 1524-1534.	2.0	4
17	Global Reach 2018: Nitric oxide-mediated cutaneous vasodilation is reduced in chronic, but not acute, hypoxia independently of enzymatic superoxide formation. Free Radical Biology and Medicine, 2021, 172, 451-458.	2.9	3
18	Global REACH 2018: the adaptive phenotype to life with chronic mountain sickness and polycythaemia. Journal of Physiology, 2021, 599, 4021-4044.	2.9	13

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19	Global REACH 2018: volume regulation in high-altitude Andeans with and without chronic mountain sickness. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2021, 321, R504-R512.	1.8	8
20	The influence of hemoconcentration on hypoxic pulmonary vasoconstriction in acute, prolonged, and lifelong hypoxemia. American Journal of Physiology - Heart and Circulatory Physiology, 2021, 321, H738-H747.	3.2	6
21	Regional differences in cerebrovascular reactivity in response to acute isocapnic hypoxia in healthy humans: Methodological considerations. Respiratory Physiology and Neurobiology, 2021, 294, 103770.	1.6	2
22	The stability of cerebrovascular CO₂ reactivity following attainment of physiological steadyâ€state. Experimental Physiology, 2021, 106, 2542-2555.	2.0	9
23	Global REACH 2018: The influence of acute and chronic hypoxia on cerebral haemodynamics and related functional outcomes during cold and heat stress. Journal of Physiology, 2020, 598, 265-284.	2.9	24
24	Cerebral metabolism, oxidation and inflammation in severe passive hyperthermia with and without respiratory alkalosis. Journal of Physiology, 2020, 598, 943-954.	2.9	14
25	Determining whether sympathetic nervous activity influences cerebral blood velocity at rest: a novel approach. Clinical Autonomic Research, 2020, 30, 357-359.	2.5	4
26	Intracranial pressure and visual acuity: The final frontier?. Journal of Physiology, 2020, 598, 4447-4449.	2.9	0
27	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. Experimental Physiology, 2020, 105, 1742-1757.	2.0	2
28	Global REACH 2018: Regional differences in cerebral blood velocity control during normoxic and hypoxic cold pressor tests. Autonomic Neuroscience: Basic and Clinical, 2020, 229, 102740.	2.8	0
29	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. High Altitude Medicine and Biology, 2020, 21, 297-302.	0.9	3
30	Mechanisms of sympathetic restraint in human skeletal muscle during exercise: role of Î±-adrenergic and nonadrenergic mechanisms. American Journal of Physiology - Heart and Circulatory Physiology, 2020, 319, H192-H202.	3.2	12
31	Standardizing the cerebrovascular response to hypercapnia â€“ increasing the flow of data!. Experimental Physiology, 2020, 105, 769-770.	2.0	1
32	Acute reductions in haematocrit increase flowâ€mediated dilatation independent of resting nitric oxide bioavailability in humans. Journal of Physiology, 2020, 598, 4225-4236.	2.9	15
33	UBC-Nepal expedition: dynamic cerebral autoregulation is attenuated in lowlanders upon ascent to 5050Âm. European Journal of Applied Physiology, 2020, 120, 675-686.	2.5	4
34	Evidence for a physiological role of pulmonary arterial baroreceptors in sympathetic neural activation in healthy humans. Journal of Physiology, 2020, 598, 955-965.	2.9	18
35	Global Reach 2018 Heightened Î±-Adrenergic Signaling Impairs Endothelial Function During Chronic Exposure to Hypobaric Hypoxia. Circulation Research, 2020, 127, e1-e13.	4.5	21
36	Highs and lows of sympathetic neurocardiovascular transduction: influence of altitude acclimatization and adaptation. American Journal of Physiology - Heart and Circulatory Physiology, 2020, 319, H1240-H1252.	3.2	20

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37	Global REACH 2018: renal oxygen delivery is maintained during early acclimatization to 4,330 m. American Journal of Physiology - Renal Physiology, 2020, 319, F1081-F1089.	2.7	8
38	The independent effects of hypovolaemia and pulmonary vasoconstriction on ventricular function and exercise capacity during acclimatisation to 3800Âm. Journal of Physiology, 2019, 597, 1059-1072.	2.9	37
39	UBCâ€Nepal Expedition: Haemoconcentration underlies the reductions in cerebral blood flow observed during acclimatization to high altitude. Experimental Physiology, 2019, 104, 1963-1972.	2.0	7
40	Global Reach 2018: reduced flow-mediated dilation stimulated by sustained increases in shear stress in high-altitude excessive erythrocytosis. American Journal of Physiology - Heart and Circulatory Physiology, 2019, 317, H991-H1001.	3.2	12
41	The effect of steady-state CO2 on regional brain blood flow responses to increases in blood pressure via the cold pressor test. Autonomic Neuroscience: Basic and Clinical, 2019, 222, 102581.	2.8	4
42	The impact of hypoxaemia on vascular function in lowlanders and high altitude indigenous populations. Journal of Physiology, 2019, 597, 5759-5776.	2.9	27
43	The Effect of an Expiratory Resistance Mask with Dead Space on Sleep, Acute Mountain Sickness, Cognition, and Ventilatory Acclimatization in Normobaric Hypoxia. High Altitude Medicine and Biology, 2019, 20, 61-70.	0.9	6
44	Global REACH 2018. Hypertension, 2019, 73, 1327-1335.	2.7	44
45	Sex differences in the circulatory responses to an isocapnic cold pressor test. Experimental Physiology, 2019, 104, 295-305.	2.0	4
46	Changes in cardiac autonomic activity during intracranial pressure plateau waves in patients with traumatic brain injury. Clinical Autonomic Research, 2019, 29, 123-126.	2.5	9
47	Severity-dependent influence of isocapnic hypoxia on reaction time is independent of neurovascular coupling. Physiology and Behavior, 2018, 188, 262-269.	2.1	14
48	UBCâ€Nepal expedition: The use of oral antioxidants does not alter cerebrovascular function at sea level or high altitude. Experimental Physiology, 2018, 103, 523-534.	2.0	6
49	UBC-Nepal Expedition: An experimental overview of the 2016 University of British Columbia Scientific Expedition to Nepal Himalaya. PLoS ONE, 2018, 13, e0204660.	2.5	19
50	Similarity between carotid and coronary artery responses to sympathetic stimulation and the role of Î±1-receptors in humans. Journal of Applied Physiology, 2018, 125, 409-418.	2.5	10
51	Evaluating the methods used for measuring cerebral blood flow at rest and during exercise in humans. European Journal of Applied Physiology, 2018, 118, 1527-1538.	2.5	25
52	Increasing cerebral blood flow reduces the severity of central sleep apnea at high altitude. Journal of Applied Physiology, 2018, 124, 1341-1348.	2.5	16
53	Is the Cushing mechanism a dynamic blood pressure-stabilizing system? Insights from Granger causality analysis of spontaneous blood pressure and cerebral blood flow. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2018, 315, R484-R495.	1.8	17
54	Intra-individual variability in cerebrovascular and respiratory chemosensitivity: Can we characterize a chemoreflex â€œreactivity profileâ€?. Respiratory Physiology and Neurobiology, 2017, 242, 30-39.	1.6	8

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55	Shear-mediated dilation of the internal carotid artery occurs independent of hypercapnia. American Journal of Physiology - Heart and Circulatory Physiology, 2017, 313, H24-H31.	3.2	56
56	Sympathetic control of the brain circulation: Appreciating the complexities to better understand the controversy. Autonomic Neuroscience: Basic and Clinical, 2017, 207, 37-47.	2.8	100
57	Adenosine receptor-dependent signaling is not obligatory for normobaric and hypobaric hypoxia-induced cerebral vasodilation in humans. Journal of Applied Physiology, 2017, 122, 795-808.	2.5	22
58	To regulate, or not to regulate? The devious history of cerebral blood flow control. Journal of Physiology, 2017, 595, 5407-5408.	2.9	3
59	Cerebrovascular response to the cold pressor test â€“ the critical role of carbon dioxide. Experimental Physiology, 2017, 102, 1647-1660.	2.0	11
60	UBC-Nepal Expedition: acute alterations in sympathetic nervous activity do not influence brachial artery endothelial function at sea level and high altitude. Journal of Applied Physiology, 2017, 123, 1386-1396.	2.5	13
61	The effect of Î±₁â€adrenergic blockade on postâ€exercise brachial artery flowâ€mediated dilatation at sea level and high altitude. Journal of Physiology, 2017, 595, 1671-1686.	2.9	23
62	How to build a lower-body differential pressure chamber integrated on a tilt-table: A pedagogy tool to demonstrate the cardiovagal baroreflex. Facets, 2017, 1, 225-244.	2.4	4
63	Central respiratory chemosensitivity and cerebrovascular CO₂reactivity: a rebreathing demonstration illustrating integrative human physiology. American Journal of Physiology - Advances in Physiology Education, 2016, 40, 79-92.	1.6	16
64	The effects of superimposed tilt and lower body negative pressure on anterior and posterior cerebral circulations. Physiological Reports, 2016, 4, e12957.	1.7	18
65	Influence of prior hyperventilation duration on respiratory chemosensitivity and cerebrovascular reactivity during modified hyperoxic rebreathing. Experimental Physiology, 2016, 101, 821-835.	2.0	14
66	Comparing and characterizing transient and steadyâ€state tests of the peripheral chemoreflex in humans. Experimental Physiology, 2016, 101, 432-447.	2.0	29
67	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.	3.2	31
68	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.	3.2	7
69	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.	2.5	61
70	Carbon dioxideâ€mediated vasomotion of extraâ€cranial cerebral arteries in humans: a role for prostaglandins?. Journal of Physiology, 2016, 594, 3463-3481.	2.9	35
71	Impaired myocardial function does not explain reduced left ventricular filling and stroke volume at rest or during exercise at high altitude. Journal of Applied Physiology, 2015, 119, 1219-1227.	2.5	37
72	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.	1.8	63

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73	The effects of head-up and head-down tilt on central respiratory chemoreflex loop gain tested by hyperoxic rebreathing. Progress in Brain Research, 2014, 212, 149-172.	1.4	12
74	Influence of high altitude on cerebral blood flow and fuel utilization during exercise and recovery. Journal of Physiology, 2014, 592, 5507-5527.	2.9	59
75	Differential cerebrovascular CO2 reactivity in anterior and posterior cerebral circulations. Respiratory Physiology and Neurobiology, 2013, 189, 76-86.	1.6	70
76	Global REACH 2018: increased adrenergic restraint of blood flow preserves coupling of oxygen delivery and demand during exercise at highâ€altitude. Journal of Physiology, 0, , .	2.9	5