

# Michael M Tymko

## List of Publications by Year in descending order

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Version: 2024-02-01

76  
papers

1,266  
citations

448610

19  
h-index

488211

31  
g-index

76  
all docs

76  
docs citations

76  
times ranked

1161  
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. <i>Chest</i> , 2022, 161, 1022-1035.	0.4	8
2	GLOBAL REACH 2018: intra-arterial vitamin C improves endothelial-dependent vasodilatory function in humans at high altitude. <i>Journal of Physiology</i> , 2022, 600, 1373-1383.	1.3	5
3	Acid-base balance at high altitude in lowlanders and indigenous highlanders. <i>Journal of Applied Physiology</i> , 2022, 132, 575-580.	1.2	5
4	Global REACH 2018: Characterizing Acid-Base Balance Over 21 Days at 4,300m in Lowlanders. <i>High Altitude Medicine and Biology</i> , 2022, 23, 185-191.	0.5	2
5	Global Reach 2018: Sympathetic neural and hemodynamic responses to submaximal exercise in Andeans with and without chronic mountain sickness. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2022, , .	1.5	1
6	Nitric oxide contributes to cerebrovascular shear-mediated dilatation but not steady-state cerebrovascular reactivity to carbon dioxide. <i>Journal of Physiology</i> , 2022, 600, 1385-1403.	1.3	21
7	Trans-cerebral HCO <sub>3</sub> <sup>-</sup> and PCO <sub>2</sub> exchange during acute respiratory acidosis and exercise-induced metabolic acidosis in humans. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2022, 42, 559-571.	2.4	6
8	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
9	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
10	The effect of hypercapnia on regional cerebral blood flow regulation during progressive lower-body negative pressure. <i>European Journal of Applied Physiology</i> , 2021, 121, 339-349.	1.2	3
11	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.	1.3	17
12	Global REACH 2018: Influence of excessive erythrocytosis on coagulation and fibrinolytic factors in Andean highlanders. <i>Experimental Physiology</i> , 2021, 106, 1335-1342.	0.9	1
13	Assessing static and dynamic sympathetic transduction using microneurography. <i>Journal of Applied Physiology</i> , 2021, 130, 1626-1634.	1.2	6
14	Global REACH 2018: heightened $\hat{I}$ -adrenergic signaling restrains blood flow to precisely match oxygen delivery and demand during handgrip exercise in Andeans with polycythemia. <i>FASEB Journal</i> , 2021, 35, .	0.2	0
15	Global REACH 2018: dysfunctional extracellular microvesicles in Andean highlander males with excessive erythrocytosis. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2021, 320, H1851-H1861.	1.5	10
16	Cardiorespiratory plasticity in humans following two patterns of acute intermittent hypoxia. <i>Experimental Physiology</i> , 2021, 106, 1524-1534.	0.9	4
17	Global Reach 2018: Nitric oxide-mediated cutaneous vasodilation is reduced in chronic, but not acute, hypoxia independently of enzymatic superoxide formation. <i>Free Radical Biology and Medicine</i> , 2021, 172, 451-458.	1.3	3
18	Global REACH 2018: the adaptive phenotype to life with chronic mountain sickness and polycythaemia. <i>Journal of Physiology</i> , 2021, 599, 4021-4044.	1.3	13

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19	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
20	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.	1.5	6
21	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
22	The stability of cerebrovascular CO <sub>2</sub> reactivity following attainment of physiological steady-state. <i>Experimental Physiology</i> , 2021, 106, 2542-2555.	0.9	9
23	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.	1.3	24
24	Cerebral metabolism, oxidation and inflammation in severe passive hyperthermia with and without respiratory alkalosis. <i>Journal of Physiology</i> , 2020, 598, 943-954.	1.3	14
25	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
26	Intracranial pressure and visual acuity: The final frontier?. <i>Journal of Physiology</i> , 2020, 598, 4447-4449.	1.3	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. <i>Experimental Physiology</i> , 2020, 105, 1742-1757.	0.9	2
28	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.	1.4	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. <i>High Altitude Medicine and Biology</i> , 2020, 21, 297-302.	0.5	3
30	Mechanisms of sympathetic restraint in human skeletal muscle during exercise: role of $\beta$ -adrenergic and nonadrenergic mechanisms. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2020, 319, H192-H202.	1.5	12
31	Standardizing the cerebrovascular response to hypercapnia – increasing the flow of data!. <i>Experimental Physiology</i> , 2020, 105, 769-770.	0.9	1
32	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.	1.3	15
33	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.	1.2	4
34	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
35	Global Reach 2018 Heightened $\beta$ -Adrenergic Signaling Impairs Endothelial Function During Chronic Exposure to Hypobaric Hypoxia. <i>Circulation Research</i> , 2020, 127, e1-e13.	2.0	21
36	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

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37	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
38	The independent effects of hypovolaemia and pulmonary vasoconstriction on ventricular function and exercise capacity during acclimatisation to 3800Åm. <i>Journal of Physiology</i> , 2019, 597, 1059-1072.	1.3	37
39	UBCâ€Nepal Expedition: Haemoconcentration underlies the reductions in cerebral blood flow observed during acclimatization to high altitude. <i>Experimental Physiology</i> , 2019, 104, 1963-1972.	0.9	7
40	Global Reach 2018: reduced flow-mediated dilation stimulated by sustained increases in shear stress in high-altitude excessive erythrocytosis. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2019, 317, H991-H1001.	1.5	12
41	The effect of steady-state CO2 on regional brain blood flow responses to increases in blood pressure via the cold pressor test. <i>Autonomic Neuroscience: Basic and Clinical</i> , 2019, 222, 102581.	1.4	4
42	The impact of hypoxaemia on vascular function in lowlanders and high altitude indigenous populations. <i>Journal of Physiology</i> , 2019, 597, 5759-5776.	1.3	27
43	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.	0.5	6
44	Global REACH 2018. <i>Hypertension</i> , 2019, 73, 1327-1335.	1.3	44
45	Sex differences in the circulatory responses to an isocapnic cold pressor test. <i>Experimental Physiology</i> , 2019, 104, 295-305.	0.9	4
46	Changes in cardiac autonomic activity during intracranial pressure plateau waves in patients with traumatic brain injury. <i>Clinical Autonomic Research</i> , 2019, 29, 123-126.	1.4	9
47	Severity-dependent influence of isocapnic hypoxia on reaction time is independent of neurovascular coupling. <i>Physiology and Behavior</i> , 2018, 188, 262-269.	1.0	14
48	UBCâ€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.	0.9	6
49	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
50	Similarity between carotid and coronary artery responses to sympathetic stimulation and the role of Î±1-receptors in humans. <i>Journal of Applied Physiology</i> , 2018, 125, 409-418.	1.2	10
51	Evaluating the methods used for measuring cerebral blood flow at rest and during exercise in humans. <i>European Journal of Applied Physiology</i> , 2018, 118, 1527-1538.	1.2	25
52	Increasing cerebral blood flow reduces the severity of central sleep apnea at high altitude. <i>Journal of Applied Physiology</i> , 2018, 124, 1341-1348.	1.2	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. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2018, 315, R484-R495.	0.9	17
54	Intra-individual variability in cerebrovascular and respiratory chemosensitivity: Can we characterize a chemoreflex â€œreactivity profileâ€?. <i>Respiratory Physiology and Neurobiology</i> , 2017, 242, 30-39.	0.7	8

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55	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.	1.5	56
56	Sympathetic control of the brain circulation: Appreciating the complexities to better understand the controversy. <i>Autonomic Neuroscience: Basic and Clinical</i> , 2017, 207, 37-47.	1.4	100
57	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.	1.2	22
58	To regulate, or not to regulate? The devious history of cerebral blood flow control. <i>Journal of Physiology</i> , 2017, 595, 5407-5408.	1.3	3
59	Cerebrovascular response to the cold pressor test – the critical role of carbon dioxide. <i>Experimental Physiology</i> , 2017, 102, 1647-1660.	0.9	11
60	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
61	The effect of $\beta$ -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.	1.3	23
62	How to build a lower-body differential pressure chamber integrated on a tilt-table: A pedagogy tool to demonstrate the cardiovascular baroreflex. <i>Facets</i> , 2017, 1, 225-244.	1.1	4
63	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
64	The effects of superimposed tilt and lower body negative pressure on anterior and posterior cerebral circulations. <i>Physiological Reports</i> , 2016, 4, e12957.	0.7	18
65	Influence of prior hyperventilation duration on respiratory chemosensitivity and cerebrovascular reactivity during modified hyperoxic rebreathing. <i>Experimental Physiology</i> , 2016, 101, 821-835.	0.9	14
66	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
67	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
68	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
69	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
70	Carbon dioxide-mediated vasomotion of extra-cranial cerebral arteries in humans: a role for prostaglandins?. <i>Journal of Physiology</i> , 2016, 594, 3463-3481.	1.3	35
71	Impaired myocardial function does not explain reduced left ventricular filling and stroke volume at rest or during exercise at high altitude. <i>Journal of Applied Physiology</i> , 2015, 119, 1219-1227.	1.2	37
72	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

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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.	0.9	12
74	Influence of high altitude on cerebral blood flow and fuel utilization during exercise and recovery. Journal of Physiology, 2014, 592, 5507-5527.	1.3	59
75	Differential cerebrovascular CO2 reactivity in anterior and posterior cerebral circulations. Respiratory Physiology and Neurobiology, 2013, 189, 76-86.	0.7	70
76	Global REACH 2018: increased adrenergic restraint of blood flow preserves coupling of oxygen delivery and demand during exercise at high altitude. Journal of Physiology, 0, , .	1.3	5