

Marc J Poulin

List of Publications by Year in descending order

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Version: 2024-02-01

115
papers

4,972
citations

100601

38
h-index

111975

67
g-index

117
all docs

117
docs citations

117
times ranked

6580
citing authors

#	ARTICLE	IF	CITATIONS
1	Impact of intermittent hypoxia on human vascular responses during sleep. <i>Experimental Neurology</i> , 2022, 347, 113897.	2.0	3
2	A prospective cohort study about the effect of repeated living high and working higher on cerebral autoregulation in unacclimatized lowlanders. <i>Scientific Reports</i> , 2022, 12, 2472.	1.6	0
3	Diagnosing Alzheimer's Disease from Circulating Blood Leukocytes Using a Fluorescent Amyloid Probe. <i>Journal of Alzheimer's Disease</i> , 2022, 85, 1721-1734.	1.2	3
4	Aerobic exercise training in older men and women's Cerebrovascular responses to submaximal exercise: Results from the Brain in Motion study. <i>Physiological Reports</i> , 2022, 10, e15158.	0.7	8
5	Association of sleep spindle characteristics with executive functioning in healthy sedentary middle-aged and older adults. <i>Journal of Sleep Research</i> , 2021, 30, e13037.	1.7	20
6	Silent hypoxaemia in COVID-19 patients. <i>Journal of Physiology</i> , 2021, 599, 1057-1065.	1.3	64
7	Impact of obstructive sleep apnea and intermittent hypoxia on blood rheology – a translational study. <i>European Respiratory Journal</i> , 2021, 58, 2100352.	3.1	10
8	The Brain in Motion II Study: study protocol for a randomized controlled trial of an aerobic exercise intervention for older adults at increased risk of dementia. <i>Trials</i> , 2021, 22, 394.	0.7	2
9	Extravascular lung water and cardiac function assessed by echocardiography in healthy lowlanders during repeated very high-altitude exposure. <i>International Journal of Cardiology</i> , 2021, 332, 166-174.	0.8	7
10	Impact of nocturnal oxygen and CPAP on the ventilatory response to hypoxia in OSA patients free of overt cardiovascular disease. <i>Experimental Neurology</i> , 2021, 346, 113852.	2.0	3
11	Effects of changes in end-tidal PO_2 and PCO_2 on neural responses during rest and sustained attention. <i>Physiological Reports</i> , 2021, 9, e15106.	0.7	3
12	Genetic Risk, Vascular Function, and Subjective Cognitive Complaints Predict Objective Cognitive Function in Healthy Older Adults: Results From the Brain in Motion Study. <i>Frontiers in Integrative Neuroscience</i> , 2020, 14, 571683.	1.0	2
13	Aerobic exercise improves cognition and cerebrovascular regulation in older adults. <i>Neurology</i> , 2020, 94, e2245-e2257.	1.5	80
14	Impact of aerobic exercise, sex, and metabolic syndrome on markers of oxidative stress: results from the Brain in Motion study. <i>Journal of Applied Physiology</i> , 2020, 128, 748-756.	1.2	10
15	Determining optimal poststroke exercise: Study protocol for a randomized controlled trial investigating therapeutic intensity and dose on functional recovery during stroke inpatient rehabilitation. <i>International Journal of Stroke</i> , 2019, 14, 80-86.	2.9	7
16	Effect of aerobic exercise on white matter microstructure in the aging brain. <i>Behavioural Brain Research</i> , 2019, 373, 112042.	1.2	31
17	Cognitive Effects of Repeated Acute Exposure to Very High Altitude Among Altitude-Experienced Workers at 5050m. <i>High Altitude Medicine and Biology</i> , 2019, 20, 361-374.	0.5	14
18	Aerobic exercise increases cortisol awakening response in older adults. <i>Psychoneuroendocrinology</i> , 2019, 103, 241-248.	1.3	24

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19	Vascular responses to hypoxia are not impaired in obstructive sleep apnoea patients free of overt cardiovascular disease. <i>Experimental Physiology</i> , 2019, 104, 580-600.	0.9	9
20	0091 Spindle Characteristics Are Associated With Executive Function In Healthy Older Adults From The Brain In Motion Study. <i>Sleep</i> , 2019, 42, A37-A38.	0.6	1
21	Novel Approach to Characterize Heterogeneity in an Aerobic Exercise Intervention. <i>Medicine and Science in Sports and Exercise</i> , 2019, 51, 1506-1516.	0.2	5
22	Exercise Performance of Lowlanders with COPD at 2,590 m: Data from a Randomized Trial. <i>Respiration</i> , 2018, 95, 422-432.	1.2	37
23	Association between glycemic load and cognitive function in community-dwelling older adults: Results from the Brain in Motion study. <i>Clinical Nutrition</i> , 2018, 37, 1690-1699.	2.3	9
24	Effects of Six-Month Aerobic Exercise Intervention on Sleep in Healthy Older Adults in the Brain in Motion Study: A Pilot Study. <i>Journal of Alzheimer's Disease Reports</i> , 2018, 2, 229-238.	1.2	5
25	Protective Effects of Exercise on Cognition and Brain Health in Older Adults. <i>Exercise and Sport Sciences Reviews</i> , 2018, 46, 215-223.	1.6	57
26	Cognition and mobility show a global association in middle- and late-adulthood: Analyses from the Canadian Longitudinal Study on Aging. <i>Gait and Posture</i> , 2018, 64, 238-243.	0.6	38
27	Effect of Acute, Subacute, and Repeated Exposure to High Altitude (5050 m) on Psychomotor Vigilance. <i>Frontiers in Physiology</i> , 2018, 9, 677.	1.3	28
28	Effects on Cognitive Functioning of Acute, Subacute and Repeated Exposures to High Altitude. <i>Frontiers in Physiology</i> , 2018, 9, 1131.	1.3	39
29	Better start them young: healthy lifestyle education in middle school " an event organised as part of Physiology Friday. , 2018, , 47-47.		0
30	Impact of obstructive sleep apnoea and intermittent hypoxia on cardiovascular and cerebrovascular regulation. <i>Experimental Physiology</i> , 2017, 102, 743-763.	0.9	70
31	Medication use by middle-aged and older participants of an exercise study: results from the Brain in Motion study. <i>BMC Complementary and Alternative Medicine</i> , 2017, 17, 105.	3.7	8
32	Human cerebral blood flow control during hypoxia: focus on chronic pulmonary obstructive disease and obstructive sleep apnea. <i>Journal of Applied Physiology</i> , 2017, 123, 1350-1361.	1.2	16
33	Cyclooxygenase-2 Inhibition Limits Angiotensin II-Induced DNA Oxidation and Protein Nitration in Humans. <i>Frontiers in Physiology</i> , 2017, 8, 138.	1.3	9
34	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
35	Blood Flow during Handgrip Exercise in COPD. <i>Medicine and Science in Sports and Exercise</i> , 2016, 48, 200-209.	0.2	10
36	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

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37	O1-05-05: Detection of Early Alzheimer's Disease From Blood Using Novel Microspectroscopy. , 2016, 12, P184-P185.		0
38	Effects of exercise on markers of oxidative stress: an Ancillary analysis of the Alberta Physical Activity and Breast Cancer Prevention Trial. <i>BMJ Open Sport and Exercise Medicine</i> , 2016, 2, e000171.	1.4	26
39	Cardiometabolic risk factors predict cerebrovascular health in older adults: results from the <i>Brain in Motion</i> study. <i>Physiological Reports</i> , 2016, 4, e12733.	0.7	11
40	Effects of continuous positive airway pressure and isocapnic hypoxia on cerebral autoregulation in patients with obstructive sleep apnoea. <i>Journal of Physiology</i> , 2016, 594, 7089-7104.	1.3	12
41	Evidence of association between sleep quality and <i>APOE</i> ϵ 4 in healthy older adults. <i>Neurology</i> , 2016, 87, 1836-1842.	1.5	51
42	Promoting brain health through exercise and diet in older adults: a physiological perspective. <i>Journal of Physiology</i> , 2016, 594, 4485-4498.	1.3	77
43	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
44	Physical Activity vs Health Education for Cognition in Sedentary Older Adults. <i>JAMA - Journal of the American Medical Association</i> , 2016, 315, 415.	3.8	6
45	The Attention Network Test-Interaction (ANT-I): reliability and validity in healthy older adults. <i>Experimental Brain Research</i> , 2016, 234, 815-827.	0.7	38
46	Association between Lifetime Physical Activity and Cognitive Functioning in Middle-Aged and Older Community Dwelling Adults: Results from the <i>Brain in Motion</i> Study. <i>Journal of the International Neuropsychological Society</i> , 2015, 21, 816-830.	1.2	52
47	Increased ventilatory response to carbon dioxide in COPD patients following vitamin C administration. <i>ERJ Open Research</i> , 2015, 1, 00017-2015.	1.1	3
48	Cerebrovascular Responsiveness to Hypercapnia Is Stable over Six Months in Older Adults. <i>PLoS ONE</i> , 2015, 10, e0143059.	1.1	7
49	Effect of Nutrients, Dietary Supplements and Vitamins on Cognition: a Systematic Review and Meta-Analysis of Randomized Controlled Trials. <i>Canadian Geriatrics Journal</i> , 2015, 18, 231-245.	0.7	76
50	Studying cerebral hemodynamics and metabolism using simultaneous near-infrared spectroscopy and transcranial Doppler ultrasound: a hyperventilation and caffeine study. <i>Physiological Reports</i> , 2015, 3, e12378.	0.7	11
51	Human intermittent hypoxia-induced respiratory plasticity is not caused by inflammation. <i>European Respiratory Journal</i> , 2015, 46, 1072-1083.	3.1	16
52	Cerebrovascular and ventilatory responses to acute isocapnic hypoxia in healthy aging and lung disease: effect of vitamin C. <i>Journal of Applied Physiology</i> , 2015, 119, 363-373.	1.2	14
53	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
54	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

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55	Nonstationary multivariate modeling of cerebral autoregulation during free-breathing and hypercapnic conditions. , 2014, , .		3
56	Cerebrovascular responses to submaximal exercise in women with COPD. BMC Pulmonary Medicine, 2014, 14, 99.	0.8	7
57	Nonstationary multivariate modeling of cerebral autoregulation during hypercapnia. Medical Engineering and Physics, 2014, 36, 592-600.	0.8	29
58	Nonstationary multivariate modeling of cerebral autoregulation during resting state and hypercapnia (1184.10). FASEB Journal, 2014, 28, 1184.10.	0.2	0
59	The brain-in-motion study: effect of a 6-month aerobic exercise intervention on cerebrovascular regulation and cognitive function in older adults. BMC Geriatrics, 2013, 13, 21.	1.1	57
60	Effects of Acute Intermittent Hypoxia on Working Memory in Young Healthy Adults. American Journal of Respiratory and Critical Care Medicine, 2013, 187, 1148-1150.	2.5	25
61	Cerebrovascular Reserve. Exercise and Sport Sciences Reviews, 2012, 40, 153-158.	1.6	162
62	Decreased cerebrovascular response to CO ₂ in post-menopausal females with COPD: role of oxidative stress. European Respiratory Journal, 2012, 40, 1354-1361.	3.1	23
63	Ventilatory responses to exercise and CO ₂ after menopause in healthy women: Effects of age and fitness. Respiratory Physiology and Neurobiology, 2012, 184, 1-8.	0.7	5
64	Losartan abolishes oxidative stress induced by intermittent hypoxia in humans. Journal of Physiology, 2011, 589, 5529-5537.	1.3	44
65	Subject specific effects of hyperpnea but not hypocapnia on airway conductance. Respiratory Physiology and Neurobiology, 2011, 177, 127-132.	0.7	1
66	Nonstationary analysis of cerebral hemodynamics using recursively estimated multiple-input nonlinear models. , 2011, , .		2
67	Cerebral and myocardial blood flow responses to hypercapnia and hypoxia in humans. American Journal of Physiology - Heart and Circulatory Physiology, 2011, 301, H1678-H1686.	1.5	40
68	Contribution of Physical Fitness, Cerebrovascular Reserve and Cognitive Stimulation to Cognitive Function in Post-Menopausal Women. Frontiers in Aging Neuroscience, 2010, 2, 137.	1.7	43
69	Intermittent Hypoxia Increases Arterial Blood Pressure in Humans Through a Renin-Angiotensin System-Dependent Mechanism. Hypertension, 2010, 56, 369-377.	1.3	144
70	Effects of cardiorespiratory fitness and cerebral blood flow on cognitive outcomes in older women. Neurobiology of Aging, 2010, 31, 2047-2057.	1.5	199
71	Effects of Exposure to Intermittent Hypoxia on Oxidative Stress and Acute Hypoxic Ventilatory Response in Humans. American Journal of Respiratory and Critical Care Medicine, 2009, 180, 1002-1009.	2.5	149
72	Effect of Cardiorespiratory Fitness on Vascular Regulation and Oxidative Stress in Postmenopausal Women. Hypertension, 2009, 54, 1014-1020.	1.3	77

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73	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
74	Relationship between oxidative stress and HIF-1 α mRNA during sustained hypoxia in humans. <i>Free Radical Biology and Medicine</i> , 2009, 46, 321-326.	1.3	115
75	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
76	Effects of ovarian hormones and aging on respiratory sinus arrhythmia and breathing patterns in women. <i>Clinical Autonomic Research</i> , 2008, 18, 134-144.	1.4	4
77	Multivariate System Identification for Cerebral Autoregulation. <i>Annals of Biomedical Engineering</i> , 2008, 36, 308-320.	1.3	47
78	Variability of Middle Cerebral Artery Blood Flow with Hypercapnia in Women. <i>Ultrasound in Medicine and Biology</i> , 2008, 34, 730-740.	0.7	8
79	Effect of Systemic Administration of the Nitric Oxide Synthase Inhibitor L-NMMA on the Human Ventilatory Response to Hypoxia. <i>Advances in Experimental Medicine and Biology</i> , 2008, 605, 41-45.	0.8	3
80	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
81	Ventilatory Response to Hypercapnia in Pre-menopausal and Post-menopausal Women. <i>Advances in Experimental Medicine and Biology</i> , 2008, 605, 452-457.	0.8	2
82	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
83	Effect of 4 days of intermittent hypoxia on oxidative stress in healthy men. <i>FASEB Journal</i> , 2008, 22, 960.3.	0.2	2
84	Relationships between oxidative stress, HIF-1 α transcription, erythropoietin and vascular endothelial growth factor during sustained hypoxia in humans. <i>FASEB Journal</i> , 2008, 22, 960.16.	0.2	0
85	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
86	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
87	Ventilatory responses to isocapnic and poikilocapnic hypoxia in humans. <i>Respiratory Physiology and Neurobiology</i> , 2007, 155, 104-113.	0.7	56
88	Cerebrovascular responses to altitude. <i>Respiratory Physiology and Neurobiology</i> , 2007, 158, 212-223.	0.7	101
89	Cerebral blood flow sensitivities to CO ₂ measured with steady-state and modified rebreathing methods. <i>Respiratory Physiology and Neurobiology</i> , 2007, 159, 34-44.	0.7	24
90	Differential sensitivities of cerebral and brachial blood flow to hypercapnia in humans. <i>Journal of Applied Physiology</i> , 2007, 102, 87-93.	1.2	34

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91	Intermittent hypoxia and vascular function: implications for obstructive sleep apnoea. <i>Experimental Physiology</i> , 2007, 92, 51-65.	0.9	145
92	Effects of the nitric oxide synthase inhibitor α -NMMA on cerebrovascular and cardiovascular responses to hypoxia and hypercapnia in humans. <i>Journal of Physiology</i> , 2007, 584, 321-332.	1.3	48
93	Control of end-tidal PCO ₂ reduces middle cerebral artery blood velocity variability: Implications for physiological neuroimaging. <i>NeuroImage</i> , 2006, 29, 1272-1277.	2.1	14
94	Differences between middle cerebral artery blood velocity waveforms of young and postmenopausal women. <i>Menopause</i> , 2006, 13, 303-313.	0.8	21
95	The effect of a high fat and high carbohydrate meal on satiety hormone response and subjective hunger in humans. <i>FASEB Journal</i> , 2006, 20, A1002.	0.2	0
96	Tidal volume and breathing frequency responses to poikilcapnic and isocapnic hypoxia in humans. <i>FASEB Journal</i> , 2006, 20, A376.	0.2	0
97	Differential responses to CO ₂ and sympathetic stimulation in the cerebral and femoral circulations in humans. <i>Journal of Physiology</i> , 2005, 566, 613-624.	1.3	112
98	Effect of five nights of normobaric hypoxia on cardiovascular responses to acute isocapnic hypoxia in humans: relationship to ventilatory chemosensitivity. <i>Ergonomics</i> , 2005, 48, 1523-1534.	1.1	7
99	Dietary and metabolic differences in pre- versus postmenopausal women taking or not taking hormone replacement therapy. <i>Physiology and Behavior</i> , 2005, 84, 303-312.	1.0	27
100	Effects of five consecutive nocturnal hypoxic exposures on the cerebrovascular responses to acute hypoxia and hypercapnia in humans. <i>Journal of Applied Physiology</i> , 2004, 96, 1745-1754.	1.2	25
101	Nonlinear Modeling of the Dynamic Effects of Arterial Pressure and Δ CO ₂ Variations on Cerebral Blood Flow in Healthy Humans. <i>IEEE Transactions on Biomedical Engineering</i> , 2004, 51, 1932-1943.	2.5	127
102	Respiratory, Cerebrovascular and Pressor Responses to Acute Hypoxia: Dependency on Pet Co ₂ . <i>Advances in Experimental Medicine and Biology</i> , 2004, 551, 243-249.	0.8	3
103	Protocol to measure acute cerebrovascular and ventilatory responses to isocapnic hypoxia in humans. <i>Respiratory Physiology and Neurobiology</i> , 2004, 141, 191-199.	0.7	43
104	Resting fluctuations in arterial carbon dioxide induce significant low frequency variations in BOLD signal. <i>NeuroImage</i> , 2004, 21, 1652-1664.	2.1	616
105	Ventilatory, cerebrovascular, and cardiovascular interactions in acute hypoxia: regulation by carbon dioxide. <i>Journal of Applied Physiology</i> , 2004, 97, 149-159.	1.2	117
106	Cerebral blood flow sensitivity to CO ₂ measured with steady-state and Read's rebreathing methods. <i>Respiratory Physiology and Neurobiology</i> , 2003, 137, 1-10.	0.7	29
107	Effects of five nights of normobaric hypoxia on the ventilatory responses to acute hypoxia and hypercapnia. <i>Respiratory Physiology and Neurobiology</i> , 2003, 138, 193-204.	0.7	25
108	Relationship between middle cerebral artery blood velocity and end-tidal PCO ₂ in the hypocapnic-hypercapnic range in humans. <i>Journal of Applied Physiology</i> , 2003, 95, 129-137.	1.2	179

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109	Changes in Cerebral Blood Flow During and After 48 H of Both Isocapnic and Poikilocapnic Hypoxia in Humans. <i>Experimental Physiology</i> , 2002, 87, 633-642.	0.9	45
110	Very mild exposure to hypoxia for 8 h can induce ventilatory acclimatization in humans. <i>Pflugers Archiv European Journal of Physiology</i> , 2001, 441, 840-843.	1.3	24
111	Assessments of flow by transcranial Doppler ultrasound in the middle cerebral artery during exercise in humans. <i>Journal of Applied Physiology</i> , 1999, 86, 1632-1637.	1.2	40
112	Fast and slow components of cerebral blood flow response to step decreases in end-tidal P CO ₂ in humans. <i>Journal of Applied Physiology</i> , 1998, 85, 388-397.	1.2	85
113	Changes in respiratory control during and after 48 h of isocapnic and poikilocapnic hypoxia in humans. <i>Journal of Applied Physiology</i> , 1998, 85, 2125-2134.	1.2	46
114	Indexes of Flow and Cross-sectional Area of the Middle Cerebral Artery Using Doppler Ultrasound During Hypoxia and Hypercapnia in Humans. <i>Stroke</i> , 1996, 27, 2244-2250.	1.0	159
115	Cardiorespiratory adaptation with short term training in older men. <i>European Journal of Applied Physiology and Occupational Physiology</i> , 1992, 65, 203-208.	1.2	24