Tadayoshi Miyamoto

List of Publications by Year
in descending order

91 papers	1,121 citations	394421 19 h-index	434195 31 g-index
91 all docs	91 docs citations	91 times ranked	1102 citing authors

#	Article	IF	Citations
1	Blood Flow Distribution during Heat Stress: Cerebral and Systemic Blood Flow. Journal of Cerebral Blood Flow and Metabolism, 2013, 33, 1915-1920.	4.3	80
2	Interaction between the ventilatory and cerebrovascular responses to hypoâ€•and hypercapnia at rest and during exercise. Journal of Physiology, 2008, 586, 4327-4338.	2.9	74
3	Effect of acute hypoxia on blood flow in vertebral and internal carotid arteries. Experimental Physiology, 2013, 98, 692-698.	2.0	72
4	A Decrease in Spatially Resolved Near-Infrared Spectroscopy-Determined Frontal Lobe Tissue Oxygenation by Phenylephrine Reflects Reduced Skin Blood Flow. Anesthesia and Analgesia, 2014, 118, 823-829.	2.2	53
5	Onset responses of ventilation and cerebral blood flow to hypercapnia in humans: rest and exercise. Journal of Applied Physiology, 2009, 106, 880-886.	2.5	50
6	Blood flow in internal carotid and vertebral arteries during graded lower body negative pressure in humans. Experimental Physiology, 2015, 100, 259-266.	2.0	49
7	The effect of oxygen on dynamic cerebral autoregulation: critical role of hypocapnia. Journal of Applied Physiology, 2010, 108, 538-543.	2.5	44
8	High plasma norepinephrine attenuates the dynamic heart rate response to vagal stimulation. American Journal of Physiology - Heart and Circulatory Physiology, 2003, 284, H2412-H2418.	3.2	37
9	Relationship between isocapnic buffering and maximal aerobic capacity in athletes. European Journal of Applied Physiology, 1997, 76, 409-414.	2.5	34
10	Input-size dependence of the baroreflex neural arc transfer characteristics. American Journal of Physiology - Heart and Circulatory Physiology, 2003, 284, H404-H415.	3.2	32
11	Muscle mechanoreflex induces the pressor response by resetting the arterial baroreflex neural arc. American Journal of Physiology - Heart and Circulatory Physiology, 2004, 286, H1382-H1388.	3.2	32
12	In vivo assessment of acetylcholine-releasing function at cardiac vagal nerve terminals. American Journal of Physiology - Heart and Circulatory Physiology, 2001, 281, H139-H145.	3.2	30
13	Muscle Sympathetic Nerve Activity Averaged Over 1 Minute Parallels Renal and Cardiac Sympathetic Nerve Activity in Response to a Forced Baroreceptor Pressure Change. Circulation, 2005, 112, 384-386.	1.6	30
14	Effects of acute hypoxia on cerebrovascular responses to carbon dioxide. Experimental Physiology, 2014, 99, 849-858.	2.0	29
15	Effects of exercise training on gut hormone levels after a single bout of exercise in middle-aged Japanese women. SpringerPlus, 2013, 2, 83.	1.2	26
16	Cardiac sympathetic nerve stimulation does not attenuate dynamic vagal control of heart rate via Î±-adrenergic mechanism. American Journal of Physiology - Heart and Circulatory Physiology, 2004, 287, H860-H865.	3.2	24
17	Resetting of the arterial baroreflex increases orthostatic sympathetic activation and prevents postural hypotension in rabbits. Journal of Physiology, 2005, 566, 237-246.	2.9	24
18	Increase in diastolic blood pressure induced by fragrance inhalation of grapefruit essential oil is positively correlated with muscle sympathetic nerve activity. Journal of Physiological Sciences, 2020, 70, 2.	2.1	22

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19	The heart rate increase at the onset of high-work intensity exercise is accelerated by central blood volume loading. European Journal of Applied Physiology, 2006, 96, 86-96.	2.5	21
20	Hyperthermia modulates regional differences in cerebral blood flow to changes in CO2. Journal of Applied Physiology, 2014, 117, 46-52.	2.5	21
21	Effects of acute hypoxia on human cognitive processing: a study using ERPs and SEPs. Journal of Applied Physiology, 2017, 123, 1246-1255.	2.5	21
22	Manipulation of central blood volume and implications for respiratory control function. American Journal of Physiology - Heart and Circulatory Physiology, 2014, 306, H1669-H1678.	3.2	20
23	EFFECTS OF ENDURANCE TRAINING ABOVE THE ANAEROBIC THRESHOLD ON ISOCAPNIC BUFFERING PHASE DURING INCREMENTAL EXERCISE IN MIDDLE-DISTANCE RUNNERS. Japanese Journal of Physical Fitness and Sports Medicine, 1998, 47, 43-51.	0.0	18
24	Integrated characterization of the human chemoreflex system controlling ventilation, using an equilibrium diagram. European Journal of Applied Physiology, 2004, 93, 340-346.	2.5	18
25	Low-Frequency Severe-Intensity Interval Training Improves Cardiorespiratory Functions. Medicine and Science in Sports and Exercise, 2015, 47, 789-798.	0.4	17
26	Dynamic characteristics of heart rate control by the autonomic nervous system in rats. Experimental Physiology, 2010, 95, 919-925.	2.0	15
27	Cerebral hypoperfusion modifies the respiratory chemoreflex during orthostatic stress. Clinical Science, 2013, 125, 37-44.	4.3	15
28	Adaptation of the respiratory controller contributes to the attenuation of exercise hyperpnea in endurance-trained athletes. European Journal of Applied Physiology, 2012, 112, 237-251.	2.5	13
29	Cerebral hypoperfusion modifies the respiratory chemoreflex during orthostatic stress. Clinical Science, 2013, 125, 37-44.	4.3	12
30	Does respiratory drive modify the cerebral vascular response to changes in endâ€tidal carbon dioxide?. Experimental Physiology, 2019, 104, 1363-1370.	2.0	12
31	Exercise training augments the dynamic heart rate response to vagal but not sympathetic stimulation in rats. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2011, 300, R969-R977.	1.8	11
32	Muscarinic potassium channels augment dynamic and static heart rate responses to vagal stimulation. American Journal of Physiology - Heart and Circulatory Physiology, 2007, 293, H1564-H1570.	3.2	10
33	Accentuated Antagonism in Vagal Heart Rate Control Mediated through Muscarinic Potassium Channels. Journal of Physiological Sciences, 2008, 58, 381-388.	2.1	10
34	Dynamic cerebral autoregulation during cognitive task: effect of hypoxia. Journal of Applied Physiology, 2018, 124, 1413-1419.	2.5	10
35	Sympathetic Neural Regulation of Heart Rate Is Robust against High Plasma Catecholamines. Journal of Physiological Sciences, 2006, 56, 235-245.	2.1	9
36	Ivabradine does not acutely affect open-loop baroreflex static characteristics and spares sympathetic heart rate control in rats. International Journal of Cardiology, 2018, 257, 255-261.	1.7	9

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37	Servo-Controlled Hind-Limb Electrical Stimulation for Short-Term Arterial Pressure Control. Circulation Journal, 2009, 73, 851-859.	1.6	8
38	Acupoint dependence of depressor and bradycardic responses elicited by manual acupuncture stimulation in humans. Journal of Physiological Sciences, 2019, 69, 1077-1084.	2.1	8
39	A novel approach for evaluating the effects of odor stimulation on dynamic cardiorespiratory functions. PLoS ONE, 2017, 12, e0172841.	2.5	7
40	Closed-Loop Identification of Baroreflex Properties in the Frequency Domain. Frontiers in Neuroscience, 2021, 15, 694512.	2.8	6
41	Effect of resistance training at a frequency of once a week on muscular strength in college students. Taiikugaku Kenkyu (Japan Journal of Physical Education Health and Sport Sciences), 2009, 54, 137-143.	0.1	5
42	The effect of an acute increase in central blood volume on the response of cerebral blood flow to acute hypotension. Journal of Applied Physiology, 2015, 119, 527-533.	2.5	5
43	Effects of walking in water on gut hormone concentrations and appetite: comparison with walking on land. Endocrine Connections, 2018, 7, 97-106.	1.9	5
44	Physiological role of anticipatory cardiorespiratory responses to exercise. Physiological Reports, 2022, 10, e15210.	1.7	5
45	Quantitative assessment of the central versus peripheral effect of intravenous clonidine using baroreflex equilibrium diagrams. Journal of Physiological Sciences, 2021, 71, 39.	2.1	5
46	Baroreflex Increases Correlation and Coherence of Muscle Sympathetic Nerve Activity (SNA) with Renal and Cardiac SNAs. Journal of Physiological Sciences, 2006, 56, 325-333.	2.1	4
47	Periodic Breathing in Heart Failure Explained by Dynamic and Static Properties of Respiratory Control. Clinical Medicine Insights: Cardiology, 2015, 9s1, CMC.S18761.	1.8	4
48	Electroacupuncture most effectively elicits depressor and bradycardic responses at 1ÂHz in humans. Clinical Autonomic Research, 2016, 26, 59-66.	2.5	4
49	Peripheral versus central effect of intravenous moxonidine on rat carotid sinus baroreflex-mediated sympathetic arterial pressure regulation. Life Sciences, 2017, 190, 103-109.	4.3	4
50	Effects of different input pressure waveforms on the carotid sinus baroreflex-mediated sympathetic arterial pressure response in rats. Journal of Applied Physiology, 2017, 123, 914-921.	2.5	4
51	Central chemoreflex activation induces sympatho-excitation without altering static or dynamic baroreflex function in normal rats. Physiological Reports, 2017, 5, e13406.	1.7	4
52	Accentuated antagonism of vagal heart rate control and less potent prejunctional inhibition of vagal acetylcholine release during sympathetic nerve stimulation in the rat. Autonomic Neuroscience: Basic and Clinical, 2019, 218, 25-30.	2.8	4
53	Integrated respiratory chemoreflexâ€mediated regulation of cerebral blood flow in hypoxia: Implications for oxygen delivery and acute mountain sickness. Experimental Physiology, 2021, 106, 1922-1938.	2.0	4
54	Contrasting effects of presynaptic Î±₂-adrenergic autoinhibition and pharmacologic augmentation of presynaptic inhibition on sympathetic heart rate control. American Journal of Physiology - Heart and Circulatory Physiology, 2008, 295, H1855-H1866.	3.2	3

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55	Modification of autonomic balance by electrical acupuncture does not affect baroreflex dynamic characteristics. , 2008, 2008, 1981-4.		3
56	Power Spectral Analysis of Short-Term Blood Pressure Recordings for Assessing Daily Variations of Blood Pressure in Human. , 2018, 2018, 1-4.		3
57	Dynamic characteristics of cerebrovascular reactivity or ventilatory response to change in carbon dioxide. Experimental Physiology, 2020, 105, 1515-1523.	2.0	3
58	EVALUATION OF THE MUSCLE OXYGENATION CURVE BY NEAR-INFRARED SPECTROSCOPY (NIRS) DURING RAMP EXERCISE. Japanese Journal of Physical Fitness and Sports Medicine, 1999, 48, 125-135.	0.0	2
59	Sensitized Central Controller of Ventilation in Rats with Chronic Heart Failure Contributes to Hyperpnea Little at Rest but More during Exercise. , 2006, 2006, 4627-30.		2
60	Effects of exercise on glucagon-like peptide-1 (GLP-1). The Journal of Physical Fitness and Sports Medicine, 2013, 2, 221-224.	0.3	2
61	Development of an anaesthetizedâ€rat model of exercise hyperpnoea: an integrative model of respiratory control using an equilibrium diagram. Experimental Physiology, 2018, 103, 748-760.	2.0	2
62	Ivabradine augments high-frequency dynamic gain of the heart rate response to low- and moderate-intensity vagal nerve stimulation under Î²-blockade. American Journal of Physiology - Heart and Circulatory Physiology, 2021, 320, H2201-H2210.	3.2	2
63	System physiology of respiratory control in man. The Journal of Physical Fitness and Sports Medicine, 2016, 5, 329-337.	0.3	2
64	THE EFFECTS OF WATER IMMERSION ON DYNAMIC AND STATIC PULMONARY FUNCTION AT BOTH NECK AND DIAPHRAGM LEVELS IN NORMAL SUBJECTS. Japanese Journal of Physical Fitness and Sports Medicine, 1994, 43, 155-161.	0.0	2
65	Low Frequency Severe-Intensity Interval Training Markedly Alters Respiratory Compensation Point During Incremental Exercise in Untrained Male. Frontiers in Physiology, 2020, 11, 1100.	2.8	1
66	Effects of pre-exercise acupuncture stimulation on heart rate response during short-duration exercise. BMC Sports Science, Medicine and Rehabilitation, 2021, 13, 129.	1.7	1
67	METHODS OF ESTIMATING THE MUSCLE OXYGENATION CURVE BY NEAR-INFRAREDSPECTROSCOPY (NIRS) DURING RAMP EXERCISE. Japanese Journal of Physical Fitness and Sports Medicine, 2000, 49, 129-137.	0.0	1
68	Neural regulation of hindlimb muscle contraction-induced glucagon-like peptide-1 and peptide YY secretion in rats. The Journal of Physical Fitness and Sports Medicine, 2015, 4, 125-131.	0.3	1
69	Ivabradine increases the high frequency gain ratio in the vagal heart rate transfer function via an interaction with muscarinic potassium channels. Physiological Reports, 2021, 9, e15134.	1.7	1
70	Anesthetized Exercise Model Mimics the Characteristics of Respiratory Pattern in CHF Rat. Journal of Cardiac Failure, 2013, 19, S176.	1.7	0
71	Novel Parametric Method to Identify the System Characteristics of Respiratory Central Chemoreflex in Human. Journal of Cardiac Failure, 2016, 22, S215.	1.7	0
72	Cognitive Task Impairs Dynamic Cerebral Autoregulation During Normoxia And Hypoxia.. Medicine and Science in Sports and Exercise, 2017, 49, 65.	0.4	0

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73	Human Cognitive Function During Acute Hypoxic Exposure. Medicine and Science in Sports and Exercise, 2017, 49, 241.	0.4	0
74	Strenuous Regular Exercise Training Almost Abolishes the Exerciseâ€induced Shift of Central Ventilation Controller, thus Attenuating Exercise Hyperpnea. FASEB Journal, 2007, 21, A1290.	0.5	0
75	Dynamic characteristics of sympathetic nerve activity response to electroacupuncture at Zusanli in anesthetized cats. FASEB Journal, 2007, 21, A883.	0.5	0
76	Quantitative Analysis of Respiratory Chemoreflex System in Rats with Chronic Heart Failure â€Analytical Approach to Underlying Mechanism of Ventilatory Abnormalityâ€. FASEB Journal, 2007, 21, A1290.	0.5	0
77	1208 Physical load of Wheelchair users while wheelchair running by energy metabolism. The Proceedings of the Transportation and Logistics Conference, 2008, 2008.17, 343-346.	0.0	0
78	Cerebral blood flow reactivity to CO 2 during exercise. FASEB Journal, 2008, 22, 737.40.	0.5	0
79	3C2-5 Relationship between characteristics of metabolic cost and wheelchair driving force. The Proceedings of the JSME Symposium on Welfare Engineering, 2009, 2009, 225-226.	0.0	0
80	2301 Physical load of wheelchair users by energy metabolism during wheelchair is ascending or descending slope. The Proceedings of the Transportation and Logistics Conference, 2009, 2009.18, 309-312.	0.0	0
81	1035 System Analysis of Human Respiratory Control and Interpretation. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2010, 2009.22, 368.	0.0	0
82	2209 Physical load of wheelchair user while driving a manual wheelchair on slope road. The Proceedings of the Transportation and Logistics Conference, 2010, 2010.19, 287-290.	0.0	0
83	2207 Physical load of wheelchair user while driving a manual wheelchair on experimental slope and road slope. The Proceedings of the Transportation and Logistics Conference, 2011, 2011.20, 325-328.	0.0	0
84	Central chemoreflex activation resets the setpoint pressure of baroreflex without compromising its function. FASEB Journal, 2012, 26, 706.4.	0.5	0
85	Distribution of internal and external cranial blood flows during whole body heating. FASEB Journal, 2013, 27, 1203.5.	0.5	0
86	Development of a rat model of exercise under anesthesia capable of reproducing abnormal respiratory responses in chronic heart failure (882.5). FASEB Journal, 2014, 28, 882.5.	0.5	0
87	RELATIONSHIPS BETWEEN OXYGEN UPTAKE KINETICS ON RECOVERY FROM MAXIMAL EXERCISE AND BLOOD LACTATE, GLUCOSE AND ALANINE METABOLISM. Japanese Journal of Physical Fitness and Sports Medicine, 1997, 46, 479-488.	0.0	0
88	The effect of an acute increase in central blood volume on hypercapniaâ€induced attenuation in dynamic cerebral autoregulation. FASEB Journal, 2015, 29, 645.6.	0.5	0
89	The Effect Of An Acute Increase In Central Blood Volume On Dynamic Cerebral Autoregulation. Medicine and Science in Sports and Exercise, 2015, 47, 156.	0.4	0
90	Dynamic cerebral carbon dioxide reactivity at rest and during exercise. FASEB Journal, 2019, 33, 528.3.	0.5	0

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91	Interpretive Complications Underlying Cerebrovascular Response To Hypercapnia; Significance Of The Central Respiratory Chemoreflex Transient. Medicine and Science in Sports and Exercise, 2020, 52, 387-387.	0.4	0