

Chester A Ray

List of Publications by Citations

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107
papers

3,968
citations

34
h-index

61
g-index

109
ext. papers

4,315
ext. citations

3.4
avg, IF

5.2
L-index

#	Paper	IF	Citations
107	American College of Sports Medicine position stand. Exercise and hypertension. <i>Medicine and Science in Sports and Exercise</i> , 2004 , 36, 533-53	1.2	1093
106	Human muscle sympathetic neural and haemodynamic responses to tilt following spaceflight. <i>Journal of Physiology</i> , 2002 , 538, 331-40	3.9	138
105	Human muscle sympathetic nerve activity and plasma noradrenaline kinetics in space. <i>Journal of Physiology</i> , 2002 , 538, 321-9	3.9	115
104	Neurovascular responses to mental stress. <i>Journal of Physiology</i> , 2005 , 564, 321-7	3.9	93
103	Skin-surface cooling elicits peripheral and visceral vasoconstriction in humans. <i>Journal of Applied Physiology</i> , 2007 , 103, 1257-62	3.7	89
102	Human cerebral autoregulation before, during and after spaceflight. <i>Journal of Physiology</i> , 2007 , 579, 799-810	3.9	87
101	Sympathetic neural responses to mental stress: responders, nonresponders and sex differences. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2009 , 296, H847-53	5.2	84
100	Aging affects the cardiovascular responses to cold stress in humans. <i>Journal of Applied Physiology</i> , 2009 , 107, 1076-82	3.7	80
99	Isometric handgrip training reduces arterial pressure at rest without changes in sympathetic nerve activity. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2000 , 279, H245-9	5.2	79
98	Aging attenuates the vestibulosympathetic reflex in humans. <i>Circulation</i> , 2002 , 105, 956-61	16.7	76
97	Interaction of the vestibular system and baroreflexes on sympathetic nerve activity in humans. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2000 , 279, H2399-404	5.2	75
96	Renal vascular responses to static handgrip: role of muscle mechanoreflex. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2003 , 285, H1247-53	5.2	73
95	Sympathetic responses to head-down rotations in humans. <i>Journal of Applied Physiology</i> , 1999 , 86, 1971-57	5.7	73
94	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
93	Influence of microgravity on astronauts' sympathetic and vagal responses to Valsalva manoeuvre. <i>Journal of Physiology</i> , 2002 , 538, 309-20	3.9	66
92	Neck afferents and muscle sympathetic activity in humans: implications for the vestibulosympathetic reflex. <i>Journal of Applied Physiology</i> , 1998 , 84, 450-3	3.7	64
91	Sympathetic responses to vestibular activation in humans. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2008 , 294, R681-8	3.2	60

90	Strength training reduces arterial blood pressure but not sympathetic neural activity in young normotensive subjects. <i>Journal of Applied Physiology</i> , 2003 , 94, 2212-6	3.7	57
89	Decreased NO signaling leads to enhanced vasoconstrictor responsiveness in skeletal muscle arterioles of the ZDF rat prior to overt diabetes and hypertension. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2008 , 294, H1840-50	5.2	53
88	Neurovascular responses to mental stress in the supine and upright postures. <i>Journal of Applied Physiology</i> , 2008 , 104, 1129-36	3.7	52
87	Sympathetic neural adaptations to exercise training in humans. <i>Autonomic Neuroscience: Basic and Clinical</i> , 2015 , 188, 36-43	2.4	50
86	Effect of repetitive hypoxic apnoeas on baroreflex function in humans. <i>Journal of Physiology</i> , 2006 , 574, 605-13	3.9	49
85	Sympathetic adaptations to one-legged training. <i>Journal of Applied Physiology</i> , 1999 , 86, 1583-7	3.7	48
84	Augmentation of exercise-induced muscle sympathetic nerve activity during muscle heating. <i>Journal of Applied Physiology</i> , 1997 , 82, 1719-25	3.7	47
83	Sympathetic vascular transduction is augmented in young normotensive blacks. <i>Journal of Applied Physiology</i> , 2002 , 92, 651-6	3.7	45
82	Sympathetic neural adaptations to exercise training in humans: insights from microneurography. <i>Medicine and Science in Sports and Exercise</i> , 1998 , 30, 387-91	1.2	44
81	Melatonin differentially affects vascular blood flow in humans. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2011 , 300, H670-4	5.2	42
80	Aldosterone impairs baroreflex sensitivity in healthy adults. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2007 , 292, H190-7	5.2	42
79	Contribution of perfusion pressure to vascular resistance response during head-up tilt. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2001 , 281, H371-5	5.2	41
78	Melatonin attenuates the sympathetic nerve responses to orthostatic stress in humans. <i>Journal of Physiology</i> , 2003 , 551, 1043-8	3.9	40
77	Omega-3 fatty acid supplementation augments sympathetic nerve activity responses to physiological stressors in humans. <i>Hypertension</i> , 2004 , 44, 732-8	8.5	40
76	Sympathetic nerve activity during natural stimulation of horizontal semicircular canals in humans. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 1998 , 275, R1274-8	3.2	40
75	Influence of vestibular activation on respiration in humans. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2002 , 282, R689-94	3.2	36
74	Central modulation of exercise-induced muscle pain in humans. <i>Journal of Physiology</i> , 2007 , 585, 287-94	3.9	34
73	Vestibulosympathetic reflex during mental stress. <i>Journal of Applied Physiology</i> , 2002 , 93, 1260-4	3.7	32

72	Muscle pain perception and sympathetic nerve activity to exercise during opioid modulation. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2000 , 279, R1565-73 ^{3,2}	3.2	31
71	The vestibulosympathetic reflex in humans: neural interactions between cardiovascular reflexes. <i>Clinical and Experimental Pharmacology and Physiology</i> , 2002 , 29, 98-102	3	30
70	Effects of aerobic exercise training on sympathetic and renal responses to mental stress in humans. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2010 , 298, H229-34	5.2	29
69	Effect of age on cutaneous vasoconstrictor responses to norepinephrine in humans. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2004 , 287, R1230-4	3.2	29
68	Limb neurovascular control during altered otolithic input in humans. <i>Journal of Physiology</i> , 2002 , 538, 303-8	3.9	28
67	Effect of gender on vestibular sympathoexcitation. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2000 , 279, R1330-3	3.2	28
66	Vestibulosympathetic reflex during orthostatic challenge in aging humans. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2002 , 283, R1027-32	3.2	27
65	Blood pressure and muscle sympathetic nerve activity during cold pressor stress: fitness and gender. <i>Psychophysiology</i> , 2003 , 40, 370-80	4.1	27
64	Forearm neurovascular responses during mental stress and vestibular activation. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2005 , 288, H904-7	5.2	26
63	Interaction between vestibulosympathetic and skeletal muscle reflexes on sympathetic activity in humans. <i>Journal of Applied Physiology</i> , 2001 , 90, 242-7	3.7	26
62	Engineering Online and In-Person Social Networks for Physical Activity: A Randomized Trial. <i>Annals of Behavioral Medicine</i> , 2016 , 50, 885-897	4.5	23
61	Mental Stress Elicits Sustained and Reproducible Increases in Skin Sympathetic Nerve Activity. <i>Physiological Reports</i> , 2013 , 1,	2.6	23
60	Engineering online and in-person social networks to sustain physical activity: application of a conceptual model. <i>BMC Public Health</i> , 2013 , 13, 753	4.1	22
59	Influence of static magnetic fields on pain perception and sympathetic nerve activity in humans. <i>Journal of Applied Physiology</i> , 2007 , 102, 1410-5	3.7	20
58	Cyclooxygenase inhibition and baroreflex sensitivity in humans. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2005 , 288, H737-43	5.2	20
57	Diminished mesenteric vaso- and venoconstriction and elevated plasma ANP and BNP with simulated microgravity. <i>Journal of Applied Physiology</i> , 2008 , 104, 1273-80	3.7	19
56	Aging attenuates the vestibulorespiratory reflex in humans. <i>Journal of Physiology</i> , 2003 , 548, 955-61	3.9	19
55	Greater sensitivity of the vestibulosympathetic reflex in the upright posture in humans. <i>Journal of Applied Physiology</i> , 2008 , 105, 65-9	3.7	17

54	Effect of acute hyperlipidemia on autonomic and cardiovascular control in humans. <i>Journal of Applied Physiology</i> , 2007 , 103, 162-9	3.7	16
53	Comparison of skin sympathetic nerve responses to isometric arm and leg exercise. <i>Journal of Applied Physiology</i> , 2004 , 97, 160-4	3.7	16
52	Neck afferent involvement in cardiovascular control during movement. <i>Brain Research Bulletin</i> , 2000 , 53, 45-9	3.9	16
51	Interactive effect of aging and local muscle heating on renal vasoconstriction during isometric handgrip. <i>American Journal of Physiology - Renal Physiology</i> , 2009 , 297, F327-32	4.3	15
50	Muscle cooling delays activation of the muscle metaboreflex in humans. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 1997 , 273, H2436-41	5.2	15
49	Effect of baroreflex loading on the responsiveness of the vestibul sympathetic reflex in humans. <i>Journal of Applied Physiology</i> , 2007 , 103, 1001-6	3.7	15
48	Age and microvascular responses to knee extensor exercise in women. <i>European Journal of Applied Physiology</i> , 2008 , 103, 343-51	3.4	15
47	Melatonin attenuates the skin sympathetic nerve response to mental stress. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2013 , 305, H1382-6	5.2	14
46	Vestibul sympathetic reflex during the early follicular and midluteal phases of the menstrual cycle. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2008 , 294, E1046-50	6	14
45	Determinants of skin sympathetic nerve responses to isometric exercise. <i>Journal of Applied Physiology</i> , 2006 , 100, 1043-8	3.7	14
44	Feasibility of using a compact elliptical device to increase energy expenditure during sedentary activities. <i>Journal of Science and Medicine in Sport</i> , 2014 , 17, 376-80	4.4	13
43	Influence of increased plasma osmolality on sympathetic outflow during apnea. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2010 , 299, R1091-6	3.2	13
42	Aerobic training improves in vivo cholinergic responsiveness but not sensitivity of eccrine sweat glands. <i>Journal of Investigative Dermatology</i> , 2010 , 130, 2328-30	4.3	13
41	Effects of short-term and prolonged bed rest on the vestibul sympathetic reflex. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2012 , 302, H368-74	5.2	13
40	Muscle sympathetic nerve responses to physiological changes in prostaglandin production in humans. <i>Journal of Applied Physiology</i> , 2001 , 90, 624-9	3.7	13
39	Vestibular activation does not influence skin sympathetic nerve responses during whole body heating. <i>Journal of Applied Physiology</i> , 2004 , 97, 540-4	3.7	12
38	Endurance training reduces renal vasoconstriction to orthostatic stress. <i>American Journal of Physiology - Renal Physiology</i> , 2010 , 298, F279-84	4.3	10
37	Effect of morphine on sympathetic nerve activity in humans. <i>Journal of Applied Physiology</i> , 2002 , 93, 1764-9	3.7	10

36	Changes in forearm muscle temperature alter renal vascular responses to isometric handgrip. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2007 , 293, H3432-9	5.2	8
35	Otolithic activation on visceral circulation in humans: effect of aging. <i>American Journal of Physiology - Renal Physiology</i> , 2008 , 295, F1166-9	4.3	7
34	Is the gender difference in peak VO ₂ greater for arm than leg exercise?. <i>European Journal of Applied Physiology and Occupational Physiology</i> , 1990 , 60, 149-54		7
33	Melatonin attenuates the vestibulosympathetic but not vestibulocollic reflexes in humans: selective impairment of the utricles. <i>Journal of Applied Physiology</i> , 2010 , 109, 1697-701	3.7	6
32	Interactive effect of hypoxia and otolith organ engagement on cardiovascular regulation in humans. <i>Journal of Applied Physiology</i> , 2002 , 93, 576-80	3.7	6
31	Effect of thermal stress on the vestibulosympathetic reflexes in humans. <i>Journal of Applied Physiology</i> , 2004 , 97, 1367-70	3.7	6
30	Effect of acute hyperthyroidism on blood flow, muscle oxygenation, and sympathetic nerve activity during dynamic handgrip. <i>Physiological Reports</i> , 2013 , 1, e00011	2.6	4
29	Celecoxib does not alter cardiovascular and renal function during dietary salt loading. <i>Clinical and Experimental Pharmacology and Physiology</i> , 2011 , 38, 543-9	3	4
28	Aging, opioid-receptor agonists and antagonists, and the vestibulosympathetic reflex in humans. <i>Journal of Applied Physiology</i> , 2004 , 96, 1761-6	3.7	4
27	Modulation of muscle sympathetic nerve activity to muscle heating during dynamic exercise. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2009 , 296, R1439-44	3.2	3
26	Regulation of pituitary gene expression by adrenalectomy. <i>Obesity</i> , 2009 , 17, 114-20	8	3
25	Glycerol-induced fluid shifts attenuate the vestibulosympathetic reflex in humans. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2011 , 300, R630-4	3.2	3
24	Effect of glucose polymer diet supplement on responses to prolonged successive swimming, cycling and running. <i>European Journal of Applied Physiology and Occupational Physiology</i> , 1988 , 58, 327-33		3
23	Augmented limb blood flow during neurovascular stress in physically fit women. <i>Psychophysiology</i> , 2013 , 50, 831-40	4.1	2
22	Comparison of sympathetic nerve responses to neck and forearm isometric exercise. <i>Medicine and Science in Sports and Exercise</i> , 2000 , 32, 1109-13	1.2	2
21	Is there diurnal variation of the vestibulosympathetic reflex: implications for orthostatic hypotension. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2013 , 305, H1555-9	5.2	1
20	New insights into orthostatic hypotension. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2008 , 294, R1575-6	3.2	1
19	Effect of dimenhydrinate on autonomic activity in humans. <i>Clinical Autonomic Research</i> , 2007 , 17, 186-92	4.3	1

18	ENDURANCE TRAINING ATTENUATES CARDIOVASCULAR DRIFT AT THE SAME ABSOLUTE WORK RATE. <i>FASEB Journal</i> , 2007 , 21, A931	0.9	1
17	Postural effects of vestibular-mediated sympathetic activation. <i>Journal of Applied Physiology</i> , 2012 , 112, 1087; author reply 1088	3.7	
16	Effect of polyunsaturated fatty acids on baroreflex function in heart failure patients. <i>Journal of the American College of Cardiology</i> , 2007 , 49, 1750; author reply 1750-1	15.1	
15	Effect of blood lipids on autonomic control in humans. <i>FASEB Journal</i> , 2007 , 21, A875	0.9	
14	Aging augments renal vasoconstriction during exercise and local muscle heating. <i>FASEB Journal</i> , 2007 , 21, A569	0.9	
13	ENDURANCE TRAINING ATTENUATES THE VESTIBULOSYMPATHETIC REFLEX IN RUNNERS. <i>FASEB Journal</i> , 2007 , 21, A567	0.9	
12	Muscle temperature alters renal vascular responses to exercise. <i>FASEB Journal</i> , 2007 , 21, A569	0.9	
11	Endurance Training Attenuates Renal Artery Vasoconstriction During Vestibular Stimulation in Runners. <i>FASEB Journal</i> , 2007 , 21, A567	0.9	
10	Kinins do not alter cardiovascular and sympathetic responses to isometric exercise in humans. <i>FASEB Journal</i> , 2008 , 22, 740.3	0.9	
9	Maximal cutaneous blood flow is not affected by endurance training: implications for physiological interpretation of cutaneous blood flow. <i>FASEB Journal</i> , 2008 , 22, 1175.5	0.9	
8	Glycerol-induced fluid shift attenuates the vestibulosympathetic reflex in humans. <i>FASEB Journal</i> , 2008 , 22, 740.2	0.9	
7	Mild skin surface cooling does not increase arterial stiffness in humans. <i>FASEB Journal</i> , 2009 , 23, 788.10	0.9	
6	Effect of aging on arm and leg muscle sympathetic nerve activity in humans. <i>FASEB Journal</i> , 2009 , 23, 786.2	0.9	
5	Aerobic exercise training increases maximal in vivo cholinergic responsiveness but not sensitivity of eccrine sweat glands. <i>FASEB Journal</i> , 2009 , 23, 788.8	0.9	
4	Is there diurnal variation with the vestibulosympathetic reflex?. <i>FASEB Journal</i> , 2010 , 24, 616.5	0.9	
3	Evidence of a circadian rhythm for muscle sympathetic nerve activity in humans. <i>FASEB Journal</i> , 2010 , 24, 802.1	0.9	
2	Endurance training reduces renal blood flow at rest in humans. <i>FASEB Journal</i> , 2011 , 25, 1057.2	0.9	
1	Effect of Mental Stress on Coronary Blood Flow in Humans. <i>FASEB Journal</i> , 2012 , 26, 1055.6	0.9	

