

Chester A Ray

List of Publications by Year in descending order

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109
papers

4,773
citations

109264

35
h-index

98753

67
g-index

109
all docs

109
docs citations

109
times ranked

4442
citing authors

#	ARTICLE	IF	CITATIONS
1	Exercise and Hypertension. <i>Medicine and Science in Sports and Exercise</i> , 2004, 36, 533-553.	0.2	1,421
2	Human muscle sympathetic neural and haemodynamic responses to tilt following spaceflight. <i>Journal of Physiology</i> , 2002, 538, 331-340.	1.3	157
3	Human muscle sympathetic nerve activity and plasma noradrenaline kinetics in space. <i>Journal of Physiology</i> , 2002, 538, 321-329.	1.3	139
4	Neurovascular responses to mental stress. <i>Journal of Physiology</i> , 2005, 564, 321-327.	1.3	111
5	Human cerebral autoregulation before, during and after spaceflight. <i>Journal of Physiology</i> , 2007, 579, 799-810.	1.3	108
6	Skin-surface cooling elicits peripheral and visceral vasoconstriction in humans. <i>Journal of Applied Physiology</i> , 2007, 103, 1257-1262.	1.2	102
7	Sympathetic neural responses to mental stress: responders, nonresponders and sex differences. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2009, 296, H847-H853.	1.5	102
8	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-H2404.	1.5	88
9	Aging affects the cardiovascular responses to cold stress in humans. <i>Journal of Applied Physiology</i> , 2009, 107, 1076-1082.	1.2	88
10	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-H249.	1.5	87
11	Aging Attenuates the Vestibulosympathetic Reflex in Humans. <i>Circulation</i> , 2002, 105, 956-961.	1.6	87
12	Renal vascular responses to static handgrip: role of muscle mechanoreflex. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2003, 285, H1247-H1253.	1.5	82
13	Sympathetic responses to head-down rotations in humans. <i>Journal of Applied Physiology</i> , 1999, 86, 1971-1976.	1.2	79
14	Influence of microgravity on astronauts' sympathetic and vagal responses to Valsalva's manoeuvre. <i>Journal of Physiology</i> , 2002, 538, 309-320.	1.3	79
15	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, 653-664.	1.3	74
16	Sympathetic responses to vestibular activation in humans. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2008, 294, R681-R688.	0.9	70
17	Strength training reduces arterial blood pressure but not sympathetic neural activity in young normotensive subjects. <i>Journal of Applied Physiology</i> , 2003, 94, 2212-2216.	1.2	69
18	Neck afferents and muscle sympathetic activity in humans: implications for the vestibulosympathetic reflex. <i>Journal of Applied Physiology</i> , 1998, 84, 450-453.	1.2	68

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19	Sympathetic neural adaptations to exercise training in humans. <i>Autonomic Neuroscience: Basic and Clinical</i> , 2015, 188, 36-43.	1.4	62
20	Sympathetic vascular transduction is augmented in young normotensive blacks. <i>Journal of Applied Physiology</i> , 2002, 92, 651-656.	1.2	60
21	Neurovascular responses to mental stress in the supine and upright postures. <i>Journal of Applied Physiology</i> , 2008, 104, 1129-1136.	1.2	58
22	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-H1850.	1.5	57
23	Melatonin differentially affects vascular blood flow in humans. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2011, 300, H670-H674.	1.5	56
24	Effect of repetitive hypoxic apnoeas on baroreflex function in humans. <i>Journal of Physiology</i> , 2006, 574, 605-613.	1.3	54
25	Sympathetic neural adaptations to exercise training in humans: insights from microneurography. <i>Medicine and Science in Sports and Exercise</i> , 1998, 30, 387-391.	0.2	54
26	Sympathetic adaptations to one-legged training. <i>Journal of Applied Physiology</i> , 1999, 86, 1583-1587.	1.2	52
27	Augmentation of exercise-induced muscle sympathetic nerve activity during muscle heating. <i>Journal of Applied Physiology</i> , 1997, 82, 1719-1733.	1.2	51
28	Omega-3 Fatty Acid Supplementation Augments Sympathetic Nerve Activity Responses to Physiological Stressors in Humans. <i>Hypertension</i> , 2004, 44, 732-738.	1.3	49
29	Aldosterone impairs baroreflex sensitivity in healthy adults. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2007, 292, H190-H197.	1.5	48
30	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-R1278.	0.9	45
31	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-H375.	1.5	45
32	Melatonin attenuates the sympathetic nerve responses to orthostatic stress in humans. <i>Journal of Physiology</i> , 2003, 551, 1043-1048.	1.3	45
33	Central modulation of exercise-induced muscle pain in humans. <i>Journal of Physiology</i> , 2007, 585, 287-294.	1.3	45
34	Engineering Online and In-Person Social Networks for Physical Activity: A Randomized Trial. <i>Annals of Behavioral Medicine</i> , 2016, 50, 885-897.	1.7	43
35	Influence of vestibular activation on respiration in humans. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2002, 282, R689-R694.	0.9	40
36	Vestibul sympathetic reflex during orthostatic challenge in aging humans. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2002, 283, R1027-R1032.	0.9	37

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37	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-R1573.	0.9	36
38	The Vestibulosympathetic Reflex In Humans: Neural Interactions Between Cardiovascular Reflexes. <i>Clinical and Experimental Pharmacology and Physiology</i> , 2002, 29, 98-102.	0.9	35
39	Limb neurovascular control during altered otolithic input in humans. <i>Journal of Physiology</i> , 2002, 538, 303-308.	1.3	33
40	Vestibulosympathetic reflex during mental stress. <i>Journal of Applied Physiology</i> , 2002, 93, 1260-1264.	1.2	32
41	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-H234.	1.5	32
42	Effect of gender on vestibular sympathoexcitation. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2000, 279, R1330-R1333.	0.9	31
43	Blood pressure and muscle sympathetic nerve activity during cold pressor stress: Fitness and gender. <i>Psychophysiology</i> , 2003, 40, 370-380.	1.2	30
44	Interaction between vestibulosympathetic and skeletal muscle reflexes on sympathetic activity in humans. <i>Journal of Applied Physiology</i> , 2001, 90, 242-247.	1.2	29
45	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-R1234.	0.9	29
46	Engineering online and in-person social networks to sustain physical activity: application of a conceptual model. <i>BMC Public Health</i> , 2013, 13, 753.	1.2	28
47	Mental stress elicits sustained and reproducible increases in skin sympathetic nerve activity. <i>Physiological Reports</i> , 2013, 1, .	0.7	28
48	Forearm neurovascular responses during mental stress and vestibular activation. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2005, 288, H904-H907.	1.5	27
49	Influence of static magnetic fields on pain perception and sympathetic nerve activity in humans. <i>Journal of Applied Physiology</i> , 2007, 102, 1410-1415.	1.2	27
50	Neck afferent involvement in cardiovascular control during movement. <i>Brain Research Bulletin</i> , 2000, 53, 45-49.	1.4	24
51	Cyclooxygenase inhibition and baroreflex sensitivity in humans. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2005, 288, H737-H743.	1.5	23
52	Aging attenuates the vestibulorespiratory reflex in humans. <i>Journal of Physiology</i> , 2003, 548, 955-961.	1.3	22
53	Diminished mesenteric vaso- and venoconstriction and elevated plasma ANP and BNP with simulated microgravity. <i>Journal of Applied Physiology</i> , 2008, 104, 1273-1280.	1.2	21
54	Comparison of skin sympathetic nerve responses to isometric arm and leg exercise. <i>Journal of Applied Physiology</i> , 2004, 97, 160-164.	1.2	19

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55	Effect of acute hyperlipidemia on autonomic and cardiovascular control in humans. <i>Journal of Applied Physiology</i> , 2007, 103, 162-169.	1.2	19
56	Effects of short-term and prolonged bed rest on the vestibulosympathetic reflex. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2012, 302, H368-H374.	1.5	19
57	Greater sensitivity of the vestibulosympathetic reflex in the upright posture in humans. <i>Journal of Applied Physiology</i> , 2008, 105, 65-69.	1.2	18
58	Melatonin attenuates the skin sympathetic nerve response to mental stress. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2013, 305, H1382-H1386.	1.5	18
59	Effect of baroreflex loading on the responsiveness of the vestibulosympathetic reflex in humans. <i>Journal of Applied Physiology</i> , 2007, 103, 1001-1006.	1.2	17
60	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-F332.	1.3	17
61	Muscle cooling delays activation of the muscle metaboreflex in humans. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 1997, 273, H2436-H2441.	1.5	16
62	Determinants of skin sympathetic nerve responses to isometric exercise. <i>Journal of Applied Physiology</i> , 2006, 100, 1043-1048.	1.2	16
63	Vestibulosympathetic reflex during the early follicular and midluteal phases of the menstrual cycle. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2008, 294, E1046-E1050.	1.8	16
64	Age and microvascular responses to knee extensor exercise in women. <i>European Journal of Applied Physiology</i> , 2008, 103, 343-351.	1.2	15
65	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, 376-380.	0.6	15
66	Effect of morphine on sympathetic nerve activity in humans. <i>Journal of Applied Physiology</i> , 2002, 93, 1764-1769.	1.2	14
67	Influence of increased plasma osmolality on sympathetic outflow during apnea. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2010, 299, R1091-R1096.	0.9	14
68	Muscle sympathetic nerve responses to physiological changes in prostaglandin production in humans. <i>Journal of Applied Physiology</i> , 2001, 90, 624-629.	1.2	13
69	Vestibular activation does not influence skin sympathetic nerve responses during whole body heating. <i>Journal of Applied Physiology</i> , 2004, 97, 540-544.	1.2	13
70	Aerobic Training Improves In Vivo Cholinergic Responsiveness but Not Sensitivity of Eccrine Sweat Glands. <i>Journal of Investigative Dermatology</i> , 2010, 130, 2328-2330.	0.3	13
71	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-H3439.	1.5	11
72	Endurance training reduces renal vasoconstriction to orthostatic stress. <i>American Journal of Physiology - Renal Physiology</i> , 2010, 298, F279-F284.	1.3	11

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73	Is the gender difference in peak \dot{V}_{O_2} greater for arm than leg exercise?. European Journal of Applied Physiology and Occupational Physiology, 1990, 60, 149-154.	1.2	8
74	Interactive effect of hypoxia and otolith organ engagement on cardiovascular regulation in humans. Journal of Applied Physiology, 2002, 93, 576-580.	1.2	8
75	Melatonin attenuates the vestibulosympathetic but not vestibulocollic reflexes in humans: selective impairment of the utricles. Journal of Applied Physiology, 2010, 109, 1697-1701.	1.2	8
76	Effect of thermal stress on the vestibulosympathetic reflexes in humans. Journal of Applied Physiology, 2004, 97, 1367-1370.	1.2	7
77	Otolithic activation on visceral circulation in humans: effect of aging. American Journal of Physiology - Renal Physiology, 2008, 295, F1166-F1169.	1.3	7
78	Effect of glucose polymer diet supplement on responses to prolonged successive swimming, cycling and running. European Journal of Applied Physiology and Occupational Physiology, 1988, 58, 327-333.	1.2	6
79	Celecoxib does not alter cardiovascular and renal function during dietary salt loading. Clinical and Experimental Pharmacology and Physiology, 2011, 38, 543-549.	0.9	6
80	Effect of acute hyperthyroidism on blood flow, muscle oxygenation, and sympathetic nerve activity during dynamic handgrip. Physiological Reports, 2013, 1, e00011.	0.7	5
81	Aging, opioid-receptor agonists and antagonists, and the vestibulosympathetic reflex in humans. Journal of Applied Physiology, 2004, 96, 1761-1766.	1.2	4
82	Modulation of muscle sympathetic nerve activity to muscle heating during dynamic exercise. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2009, 296, R1439-R1444.	0.9	3
83	Regulation of Pituitary Gene Expression by Adrenalectomy. Obesity, 2009, 17, 114-120.	1.5	3
84	Glycerol-induced fluid shifts attenuate the vestibulosympathetic reflex in humans. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2011, 300, R630-R634.	0.9	3
85	Comparison of sympathetic nerve responses to neck and forearm isometric exercise. Medicine and Science in Sports and Exercise, 2000, 32, 1109-1113.	0.2	2
86	Effect of dimenhydrinate on autonomic activity in humans. Clinical Autonomic Research, 2007, 17, 186-192.	1.4	2
87	New insights into orthostatic hypotension. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2008, 294, R1575-R1576.	0.9	2
88	Is there diurnal variation of the vestibulosympathetic reflex: implications for orthostatic hypotension. American Journal of Physiology - Heart and Circulatory Physiology, 2013, 305, H1555-H1559.	1.5	2
89	Augmented limb blood flow during neurovascular stress in physically fit women. Psychophysiology, 2013, 50, 831-840.	1.2	2
90	ENDURANCE TRAINING ATTENUATES CARDIOVASCULAR DRIFT AT THE SAME ABSOLUTE WORK RATE. FASEB Journal, 2007, 21, A931.	0.2	1

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91	Effect of blood lipids on autonomic control in humans. FASEB Journal, 2007, 21, A875.	0.2	1
92	Effect of Polyunsaturated Fatty Acids on Baroreflex Function in Heart Failure Patients. Journal of the American College of Cardiology, 2007, 49, 1750.	1.2	0
93	Postural effects of vestibular-mediated sympathetic activation. Journal of Applied Physiology, 2012, 112, 1087-1087.	1.2	0
94	Aging augments renal vasoconstriction during exercise and local muscle heating. FASEB Journal, 2007, 21, A569.	0.2	0
95	ENDURANCE TRAINING ATTENUATES THE VESTIBULOSYPHATHETIC REFLEX IN RUNNERS. FASEB Journal, 2007, 21, A567.	0.2	0
96	Effect of dimenhydrinate on the vestibulosympathetic reflex and baroreflexes in humans. FASEB Journal, 2007, 21, .	0.2	0
97	Muscle temperature alters renal vascular responses to exercise. FASEB Journal, 2007, 21, A569.	0.2	0
98	Endurance Training Attenuates Renal Artery Vasoconstriction During Vestibular Stimulation in Runners. FASEB Journal, 2007, 21, A567.	0.2	0
99	Kinins do not alter cardiovascular and sympathetic responses to isometric exercise in humans. FASEB Journal, 2008, 22, 740.3.	0.2	0
100	Maximal cutaneous blood flow is not affected by endurance training: implications for physiological interpretation of cutaneous blood flow. FASEB Journal, 2008, 22, 1175.5.	0.2	0
101	Glycerol-induced fluid shift attenuates the vestibulosympathetic reflex in humans. FASEB Journal, 2008, 22, 740.2.	0.2	0
102	Mild skin surface cooling does not increase arterial stiffness in humans. FASEB Journal, 2009, 23, 788.10.	0.2	0
103	Effect of aging on arm and leg muscle sympathetic nerve activity in humans. FASEB Journal, 2009, 23, 786.2.	0.2	0
104	Aerobic exercise training increases maximal in vivo cholinergic responsiveness but not sensitivity of eccrine sweat glands. FASEB Journal, 2009, 23, 788.8.	0.2	0
105	Is there diurnal variation with the vestibulosympathetic reflex?. FASEB Journal, 2010, 24, 616.5.	0.2	0
106	Effect of melatonin on the vestibulocollic reflex in humans. FASEB Journal, 2010, 24, .	0.2	0
107	Evidence of a circadian rhythm for muscle sympathetic nerve activity in humans. FASEB Journal, 2010, 24, 802.1.	0.2	0
108	Endurance training reduces renal blood flow at rest in humans. FASEB Journal, 2011, 25, 1057.2.	0.2	0

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109	Effect of Mental Stress on Coronary Blood Flow in Humans. FASEB Journal, 2012, 26, 1055.6.	0.2	0