

Derek Kimmerly

List of Publications by Year in descending order

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Version: 2024-02-01

75
papers

1,945
citations

279798

23
h-index

265206

42
g-index

76
all docs

76
docs citations

76
times ranked

2040
citing authors

#	ARTICLE	IF	CITATIONS
1	Gender affects sympathetic and hemodynamic response to postural stress. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2001, 281, H2028-H2035.	3.2	195
2	Ventral medial prefrontal cortex and cardiovagal control in conscious humans. <i>NeuroImage</i> , 2007, 35, 698-708.	4.2	194
3	Cortical regions associated with autonomic cardiovascular regulation during lower body negative pressure in humans. <i>Journal of Physiology</i> , 2005, 569, 331-345.	2.9	185
4	Differential Effect of head-up tilt on Cardiovagal and Sympathetic Baroreflex Sensitivity in Humans. <i>Experimental Physiology</i> , 2003, 88, 769-774.	2.0	76
5	Differing Effects of Obstructive and Central Sleep Apneas on Stroke Volume in Patients with Heart Failure. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2013, 187, 433-438.	5.6	76
6	Hypovolemia and neurovascular control during orthostatic stress. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2002, 282, H645-H655.	3.2	76
7	Arousal From Sleep and Sympathetic Excitation During Wakefulness. <i>Hypertension</i> , 2016, 68, 1467-1474.	2.7	74
8	Sex differences in forebrain and cardiovagal responses at the onset of isometric handgrip exercise: a retrospective fMRI study. <i>Journal of Applied Physiology</i> , 2007, 103, 1402-1411.	2.5	62
9	Influence of Sex and Age on Muscle Sympathetic Nerve Activity of Healthy Normotensive Adults. <i>Hypertension</i> , 2020, 76, 997-1005.	2.7	60
10	Test-retest repeatability of muscle sympathetic nerve activity: influence of data analysis and head-up tilt. <i>Autonomic Neuroscience: Basic and Clinical</i> , 2004, 114, 61-71.	2.8	46
11	Forebrain neural patterns associated with sex differences in autonomic and cardiovascular function during baroreceptor unloading. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2007, 292, R715-R722.	1.8	46
12	Step Rate Thresholds Associated with Moderate and Vigorous Physical Activity in Adults. <i>International Journal of Environmental Research and Public Health</i> , 2018, 15, 2454.	2.6	39
13	Sex does not influence impairments in popliteal endothelial-dependent vasodilator or vasoconstrictor responses following prolonged sitting. <i>Journal of Applied Physiology</i> , 2019, 127, 679-687.	2.5	37
14	Circulating norepinephrine and cerebrovascular control in conscious humans. <i>Clinical Physiology and Functional Imaging</i> , 2003, 23, 314-319.	1.2	36
15	Apnea-Induced Cortical BOLD-fMRI and Peripheral Sympathoneural Firing Response Patterns of Awake Healthy Humans. <i>PLoS ONE</i> , 2013, 8, e82525.	2.5	36
16	A review of human neuroimaging investigations involved with central autonomic regulation of baroreflex-mediated cardiovascular control. <i>Autonomic Neuroscience: Basic and Clinical</i> , 2017, 207, 10-21.	2.8	36
17	High-Intensity Interval Training Improves Cognitive Flexibility in Older Adults. <i>Brain Sciences</i> , 2020, 10, 796.	2.3	35
18	Impact of High-Intensity Interval Training, Moderate-Intensity Continuous Training, and Resistance Training on Endothelial Function in Older Adults. <i>Medicine and Science in Sports and Exercise</i> , 2020, 52, 1057-1067.	0.4	34

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19	Association between resting-state brain functional connectivity and muscle sympathetic burst incidence. <i>Journal of Neurophysiology</i> , 2016, 115, 662-673.	1.8	33
20	The effects of cardiorespiratory fitness on executive function and prefrontal oxygenation in older adults. <i>GeroScience</i> , 2019, 41, 681-690.	4.6	32
21	Cortical autonomic network gray matter and sympathetic nerve activity in obstructive sleep apnea. <i>Sleep</i> , 2018, 41, .	1.1	31
22	The Influence of Oral L-Glutamine Supplementation on Muscle Strength Recovery and Soreness Following Unilateral Knee Extension Eccentric Exercise. <i>International Journal of Sport Nutrition and Exercise Metabolism</i> , 2015, 25, 417-426.	2.1	29
23	Hypovolemia and MSNA discharge patterns: assessing and interpreting sympathetic responses. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2003, 284, H1198-H1204.	3.2	27
24	Forebrain regions associated with postexercise differences in autonomic and cardiovascular function during baroreceptor unloading. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2007, 293, H299-H306.	3.2	25
25	Achieving Canadian physical activity guidelines is associated with better vascular function independent of aerobic fitness and sedentary time in older adults. <i>Applied Physiology, Nutrition and Metabolism</i> , 2018, 43, 1003-1009.	1.9	22
26	Improving the criterion validity of the activPAL in determining physical activity intensity during laboratory and free-living conditions. <i>Journal of Sports Sciences</i> , 2021, 39, 826-834.	2.0	21
27	Validity of the ActivPAL monitor to distinguish postures: A systematic review. <i>Gait and Posture</i> , 2022, 94, 107-113.	1.4	21
28	Long-duration bed rest modifies sympathetic neural recruitment strategies in male and female participants. <i>Journal of Applied Physiology</i> , 2018, 124, 769-779.	2.5	20
29	Aerobic fitness and sympathetic responses to spontaneous muscle sympathetic nerve activity in young males. <i>Clinical Autonomic Research</i> , 2021, 31, 253-261.	2.5	20
30	Feedback effects of circulating norepinephrine on sympathetic outflow in healthy subjects. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2005, 288, H710-H715.	3.2	19
31	Influence of Anthropometrics on Step-Rate Thresholds for Moderate and Vigorous Physical Activity in Older Adults: Scientific Modeling Study. <i>JMIR Aging</i> , 2018, 1, e12363.	3.0	19
32	Greater habitual moderate-to-vigorous physical activity is associated with better executive function and higher prefrontal oxygenation in older adults. <i>GeroScience</i> , 2021, 43, 2707-2718.	4.6	18
33	Popliteal flow-mediated dilatory responses to an acute bout of prolonged sitting between earlier and later phases of natural menstrual and oral contraceptive pill cycles. <i>Journal of Applied Physiology</i> , 2020, 129, 637-645.	2.5	16
34	Is "not different" enough to conclude similar cardiovascular responses across sexes?. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2022, 322, H355-H358.	3.2	16
35	Intensity of acute aerobic exercise but not aerobic fitness impacts on corticospinal excitability. <i>Applied Physiology, Nutrition and Metabolism</i> , 2019, 44, 869-878.	1.9	15
36	An open-source program to analyze spontaneous sympathetic neurohemodynamic transduction. <i>Journal of Neurophysiology</i> , 2021, 125, 972-976.	1.8	15

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37	Knee high compression socks minimize head tilt induced cerebral and cardiovascular responses following dynamic exercise. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2018, 28, 1766-1774.	2.9	14
38	The impact of age and sex on popliteal artery endothelial-dependent vasodilator and vasoconstrictor function. <i>Experimental Gerontology</i> , 2021, 145, 111221.	2.8	14
39	Validity of the activPAL and Height-Adjusted Curvilinear Cadence-METs Equations in Healthy Adults. <i>Measurement in Physical Education and Exercise Science</i> , 2020, 24, 147-156.	1.8	13
40	Relationship between brachial and popliteal artery low-flow-mediated constriction in older adults: impact of aerobic fitness on vascular endothelial function. <i>Journal of Applied Physiology</i> , 2019, 127, 134-142.	2.5	12
41	The influence of aerobic fitness on electrocardiographic and heart rate variability parameters in young and older adults. <i>Autonomic Neuroscience: Basic and Clinical</i> , 2019, 217, 66-70.	2.8	11
42	The relationship between aerobic fitness and low-flow-mediated constriction in older adults. <i>European Journal of Applied Physiology</i> , 2019, 119, 351-359.	2.5	11
43	The Bout Cadence Method Improves the Quantification of Stepping Cadence In Free-Living Conditions. <i>Gait and Posture</i> , 2020, 79, 96-101.	1.4	10
44	Aerobic fitness is inversely associated with neurohemodynamic transduction and blood pressure variability in older adults. <i>GeroScience</i> , 2021, 43, 2737-2748.	4.6	9
45	The influence of habitual breaks in sedentary time on cardiovagal baroreflex function. <i>Applied Physiology, Nutrition and Metabolism</i> , 2021, 46, 1143-1146.	1.9	9
46	Sex and light physical activity impact popliteal, but not brachial artery flow-mediated dilation in physically active young adults. <i>Applied Physiology, Nutrition and Metabolism</i> , 2020, 45, 1387-1395.	1.9	8
47	Influence of prostaglandins and endothelial-derived hyperpolarizing factors on brachial and popliteal endothelial-dependent function in young adults. <i>Journal of Applied Physiology</i> , 2021, 130, 17-25.	2.5	8
48	Short-term supplement of virgin coconut oil improves endothelial-dependent dilation but not exercise-mediated hyperemia in young adults. <i>Nutrition Research</i> , 2019, 67, 17-26.	2.9	7
49	Meeting international aerobic physical activity guidelines is associated with enhanced cardiovagal baroreflex sensitivity in healthy older adults. <i>Clinical Autonomic Research</i> , 2020, 30, 139-148.	2.5	7
50	Impact of habitual sedentary patterns on popliteal artery endothelial-dependent vasodilation in healthy adults. <i>Vascular Medicine</i> , 2022, 27, 120-126.	1.5	7
51	Effect of Angiotensin AT1 Receptor Blockade on Sympathetic Responses to Handgrip in Healthy Men. <i>American Journal of Hypertension</i> , 2011, 24, 537-543.	2.0	6
52	Sympathetic neurohemodynamic transduction is attenuated in older males independent of aerobic fitness. <i>Clinical Autonomic Research</i> , 2022, 32, 73.	2.5	6
53	Influence of music on maximal self-paced running performance and passive post-exercise recovery rate. <i>Journal of Sports Medicine and Physical Fitness</i> , 2016, 56, 39-48.	0.7	6
54	Using the Portapres for the measurement of toe arterial blood pressure during movement: is it valid and reliable?. <i>Physiological Reports</i> , 2017, 5, e13369.	1.7	5

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55	Development and validation of an activPAL accelerometry count-based model of physical activity intensity in adults. <i>Medical Engineering and Physics</i> , 2021, 95, 45-50.	1.7	5
56	Cardiac mechanoreceptor function implicated during premature ventricular contraction. <i>Autonomic Neuroscience: Basic and Clinical</i> , 2012, 167, 50-55.	2.8	4
57	What is the impact of aerobic fitness and movement interventions on low-flow-mediated vasoconstriction? A systematic review of observational and intervention studies. <i>Vascular Medicine</i> , 2022, 27, 193-202.	1.5	4
58	The impact of different step rate threshold methods on physical activity intensity in older adults. <i>Gait and Posture</i> , 2022, 94, 51-57.	1.4	4
59	Comparison of Cortical Autonomic Network-Linked Sympathetic Excitation by Mueller Maneuvers and Breath-Holds in Subjects With and Without Obstructive Sleep Apnea. <i>Frontiers in Physiology</i> , 2021, 12, 678630.	2.8	3
60	Impact of sampling duration on spontaneous sympathetic transduction. <i>Clinical Autonomic Research</i> , 2022, , 1.	2.5	3
61	Ecological Validity of Prolonged Sitting Studies: How Well Do They Represent Real-Life Sedentary Patterns? A Pilot Study. <i>Translational Journal of the American College of Sports Medicine</i> , 2022, 7, .	0.6	3
62	Comparison of signal-averaging and regression approaches to analyzing sympathetic transduction. <i>Clinical Autonomic Research</i> , 2022, 32, 299-302.	2.5	3
63	The association between habitual posture and intensity-related physical activity with sympathetic neurohemodynamic transduction in young males. <i>Clinical Autonomic Research</i> , 2021, 31, 339-341.	2.5	2
64	A larger low-flow-mediated constrictor response is associated with augmented flow-mediated dilation in the popliteal artery. <i>Clinical Physiology and Functional Imaging</i> , 2021, 41, 497-504.	1.2	2
65	Central and Peripheral Response to Incremental Cycling Exercise in Older Untrained Active Men: A Comparison of Those In-Between. <i>Physiological Research</i> , 2016, 65, 303-309.	0.9	2
66	Comparison of habitual stepping cadence analysis methods: Relationship with step counts. <i>Gait and Posture</i> , 2022, 92, 328-332.	1.4	2
67	Spontaneous cardiovagal baroreflex sensitivity is unaffected by an acute bout of prolonged sitting: no impact of sex, menstrual phase, or oral contraceptive pill phase. <i>Clinical Autonomic Research</i> , 2021, 31, 783-786.	2.5	1
68	Does aerobic fitness impact prolonged sitting-induced popliteal artery endothelial dysfunction?. <i>European Journal of Applied Physiology</i> , 2021, 121, 3233-3241.	2.5	1
69	Aging, cardiorespiratory fitness and sympathetic transduction. <i>Aging</i> , 2022, 14, 4189-4190.	3.1	1
70	Male versus Female Forebrain Associations with Cardiodynamic Response during Isometric Exercise. <i>FASEB Journal</i> , 2006, 20, A769.	0.5	0
71	Hypovolemia affects cortical activity patterns associated with the cardiovascular response to moderate lower body negative pressure (LBNP). <i>FASEB Journal</i> , 2008, 22, 740.15.	0.5	0
72	Influence of hand dominance on peak forearm blood flow and cardiovascular responses to isometric handgrip exercise in recreationally active racquet players. <i>FASEB Journal</i> , 2013, 27, 710.16.	0.5	0

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73	Short-Term Ingestion of Virgin Coconut Oil Improves Endothelial-Dependent Dilation but not Exercise-Mediated Hyperemia in Healthy Young Adults. FASEB Journal, 2018, 32, .	0.5	0
74	Can Six-Weeks of Whole-Body Resistance Training Improve Endothelial Function in Older Adults?. FASEB Journal, 2018, 32, 855.22.	0.5	0
75	When is Muscle Sympathetic Nerve Activity "Abnormal"? FASEB Journal, 2020, 34, 1-1.	0.5	0