

James W E Rush

List of Publications by Year in descending order

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Version: 2024-02-01

49
papers

2,105
citations

186265

28
h-index

223800

46
g-index

49
all docs

49
docs citations

49
times ranked

2684
citing authors

#	ARTICLE	IF	CITATIONS
1	Increased postflight carotid artery stiffness and in-flight insulin resistance resulting from 6-mo spaceflight in male and female astronauts. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2016, 310, H628-H638.	3.2	145
2	Exercise training regulates SOD-1 and oxidative stress in porcine aortic endothelium. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2003, 284, H1378-H1387.	3.2	128
3	AMPK expression and phosphorylation are increased in rodent muscle after chronic leptin treatment. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2003, 284, E648-E654.	3.5	110
4	Vascular Nitric Oxide and Oxidative Stress: Determinants of Endothelial Adaptations to Cardiovascular Disease and to Physical Activity. <i>Applied Physiology, Nutrition, and Metabolism</i> , 2005, 30, 442-474.	1.7	100
5	Encapsulation-structuring of edible oil attenuates acute elevation of blood lipids and insulin in humans. <i>Soft Matter</i> , 2007, 3, 183-187.	2.7	99
6	Exercise training improves aortic endothelium-dependent vasorelaxation and determinants of nitric oxide bioavailability in spontaneously hypertensive rats. <i>Journal of Applied Physiology</i> , 2004, 96, 2088-2096.	2.5	97
7	Plasma glutathione peroxidase in healthy young adults: influence of gender and physical activity. <i>Clinical Biochemistry</i> , 2003, 36, 345-351.	1.9	96
8	SOD-1 expression in pig coronary arterioles is increased by exercise training. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2000, 279, H2068-H2076.	3.2	78
9	Short-term exercise training increases ACh-induced relaxation and eNOS protein in porcine pulmonary arteries. <i>Journal of Applied Physiology</i> , 2001, 90, 1102-1110.	2.5	74
10	Flow regulation of ecNOS and Cu/Zn SOD mRNA expression in porcine coronary arterioles. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 1999, 276, H1058-H1063.	3.2	61
11	Gender, exercise training, and eNOS expression in porcine skeletal muscle arteries. <i>Journal of Applied Physiology</i> , 2003, 95, 250-264.	2.5	60
12	Exercise preserves endothelium-dependent relaxation in coronary arteries of hypercholesterolemic male pigs. <i>Journal of Applied Physiology</i> , 2004, 96, 1114-1126.	2.5	59
13	AMP-activated protein kinase activator AICAR acutely lowers blood pressure and relaxes isolated resistance arteries of hypertensive rats. <i>Journal of Hypertension</i> , 2012, 30, 725-733.	0.5	58
14	Myoadenylate deaminase deficiency does not affect muscle anaplerosis during exhaustive exercise in humans. <i>Journal of Physiology</i> , 2001, 533, 881-889.	2.9	56
15	Vascular biology of angiotensin and the impact of physical activity. <i>Applied Physiology, Nutrition and Metabolism</i> , 2008, 33, 162-171.	1.9	55
16	Hindlimb unweighting decreases endothelium-dependent dilation and eNOS expression in soleus not gastrocnemius. <i>Journal of Applied Physiology</i> , 2001, 91, 1091-1098.	2.5	54
17	Endothelial function in coronary arterioles from pigs with early-stage coronary disease induced by high-fat, high-cholesterol diet: effect of exercise. <i>Journal of Applied Physiology</i> , 2004, 97, 1159-1168.	2.5	54
18	Chronic resveratrol enhances endothelium-dependent relaxation but does not alter eNOS levels in aorta of spontaneously hypertensive rats. <i>Experimental Biology and Medicine</i> , 2007, 232, 814-22.	2.4	50

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19	Nitric oxide and coronary vascular endothelium adaptations in hypertension. <i>Vascular Health and Risk Management</i> , 2009, 5, 1075.	2.3	44
20	Endothelium-dependent vasorelaxation to the AMPK activator AICAR is enhanced in aorta from hypertensive rats and is NO and EDCF dependent. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2011, 300, H64-H75.	3.2	44
21	Short-term training enhances endothelium-dependent dilation of coronary arteries, not arterioles. <i>Journal of Applied Physiology</i> , 2003, 94, 234-244.	2.5	43
22	Skeletal muscle glycogen phosphorylase kinetics: effects of adenine nucleotides and caffeine. <i>Journal of Applied Physiology</i> , 2001, 91, 2071-2078.	2.5	40
23	Autophagic Signaling and Proteolytic Enzyme Activity in Cardiac and Skeletal Muscle of Spontaneously Hypertensive Rats following Chronic Aerobic Exercise. <i>PLoS ONE</i> , 2015, 10, e0119382.	2.5	39
24	Exercise attenuates the effects of hypercholesterolemia on endothelium-dependent relaxation in coronary arteries from adult female pigs. <i>Journal of Applied Physiology</i> , 2004, 96, 1105-1113.	2.5	35
25	Low-intensity resistance training attenuates dexamethasone-induced atrophy in the flexor hallucis longus muscle. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2014, 143, 357-364.	2.5	33
26	RhoA-Rho kinase signaling mediates endothelium- and endoperoxide-dependent contractile activities characteristic of hypertensive vascular dysfunction. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2010, 298, H1391-H1405.	3.2	30
27	Elevated skeletal muscle apoptotic signaling following glutathione depletion. <i>Apoptosis: an International Journal on Programmed Cell Death</i> , 2012, 17, 48-60.	4.9	30
28	Increased DNA fragmentation and altered apoptotic protein levels in skeletal muscle of spontaneously hypertensive rats. <i>Journal of Applied Physiology</i> , 2006, 101, 1149-1161.	2.5	29
29	High-intensity resistance training attenuates dexamethasone-induced muscle atrophy. <i>Muscle and Nerve</i> , 2016, 53, 779-788.	2.2	29
30	Molecular and kinetic alterations of muscle AMP deaminase during chronic creatine depletion. <i>American Journal of Physiology - Cell Physiology</i> , 1998, 274, C465-C471.	4.6	27
31	Fasting triacylglycerol status, but not polyunsaturated/saturated fatty acid ratio, influences the postprandial response to a series of oral fat tolerance tests. <i>Journal of Nutritional Biochemistry</i> , 2009, 20, 694-704.	4.2	27
32	Glutathione depletion in vivo enhances contraction and attenuates endothelium-dependent relaxation of isolated rat aorta. <i>Free Radical Biology and Medicine</i> , 2006, 40, 670-678.	2.9	26
33	Decreased DNA fragmentation and apoptotic signaling in soleus muscle of hypertensive rats following 6 weeks of treadmill training. <i>Journal of Applied Physiology</i> , 2012, 113, 1048-1057.	2.5	26
34	Time-course changes of catabolic proteins following muscle atrophy induced by dexamethasone. <i>Steroids</i> , 2016, 107, 30-36.	1.8	24
35	Dietary docosahexaenoic acid supplementation reduces SERCA Ca ²⁺ transport efficiency in rat skeletal muscle. <i>Chemistry and Physics of Lipids</i> , 2015, 187, 56-61.	3.2	22
36	Cyclooxygenase and thromboxane/prostaglandin receptor contribute to aortic endothelium-dependent dysfunction in aging female spontaneously hypertensive rats. <i>Journal of Applied Physiology</i> , 2009, 107, 1059-1067.	2.5	20

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37	Controlled Release of Food Lipids Using Monoglyceride Gel Phases Regulates Lipid and Insulin Metabolism in Humans. <i>Food Biophysics</i> , 2008, 3, 241-245.	3.0	18
38	Evidence for a pro-apoptotic phenotype in skeletal muscle of hypertensive rats. <i>Biochemical and Biophysical Research Communications</i> , 2008, 368, 168-174.	2.1	16
39	Nitric oxide, oxidative stress and vascular endothelium in health and hypertension. <i>Clinical Hemorheology and Microcirculation</i> , 2007, 37, 185-92.	1.7	16
40	Exercise Does Not Attenuate Early CAD Progression in a Pig Model. <i>Medicine and Science in Sports and Exercise</i> , 2012, 44, 27-38.	0.4	11
41	Influence of training status and eNOS haplotypes on plasma nitrite concentrations in normotensive older adults: a hypothesis-generating study. <i>Aging Clinical and Experimental Research</i> , 2014, 26, 591-598.	2.9	10
42	Impaired hemodynamics and endothelial vasomotor function via endoperoxide-mediated vasoconstriction in the carotid artery of spontaneously hypertensive rats. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2009, 296, H1038-H1047.	3.2	8
43	The effects of buthionine sulfoximine treatment on diaphragm contractility and SERCA pump function in adult and middle aged rats. <i>Physiological Reports</i> , 2015, 3, e12547.	1.7	8
44	Effects of Glutathione-depleting Drug Buthionine Sulfoximine and Aging on Activity of Endothelium-derived Relaxing and Contracting Factors in Carotid Artery of Spragueâ€Dawley Rats. <i>Journal of Cardiovascular Pharmacology</i> , 2011, 58, 272-283.	1.9	7
45	Chronic in vivo or acute in vitro resveratrol attenuates endothelium-dependent cyclooxygenase-mediated contractile signaling in hypertensive rat carotid artery. <i>Journal of Applied Physiology</i> , 2016, 120, 1141-1150.	2.5	4
46	Exercising an option to prevent age related decline of vascular BH ₄ and uncoupling of eNOS. <i>Journal of Physiology</i> , 2009, 587, 3755-3755.	2.9	2
47	Markers of Cardiovascular Risk and Metabolism Assessed on Multiple Baseline Occasions and in Response to a Single Fatty Meal in Healthy Young Adults. <i>Food Digestion</i> , 2013, 4, 49-57.	0.9	2
48	Glutathione enhances endothelium-mediated control of coronary vascular resistance via a ROS- and NO intermediate-dependent mechanism. <i>Journal of Applied Physiology</i> , 2012, 113, 246-254.	2.5	1
49	Suppression of phenylephrine contraction by AMPK inhibition in isolated carotid artery from normotensive WKY and hypertensive SHR rats. <i>FASEB Journal</i> , 2013, 27, lb662.	0.5	0