Michael D Delp

List of Publications by Year
in descending order

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104	6,168	76196	69108
papers	citations	40	77
		h-index	g-index

104	104	104	5238
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Physiological Parameter Values for Physiologically Based Pharmacokinetic Models. Toxicology and Industrial Health, 1997, 13, 407-484.	0.6	1,206
2	Aging impairs endothelium-dependent vasodilation in rat skeletal muscle arterioles. American Journal of Physiology - Heart and Circulatory Physiology, 2002, 283, H1662-H1672.	1.5	197
3	Alterations in skeletal perfusion with simulated microgravity: a possible mechanism for bone remodeling. Journal of Applied Physiology, 2000, 89, 1046-1054.	1.2	187
4	Effects of ageing and exercise training on endothelium-dependent vasodilatation and structure of rat skeletal muscle arterioles. Journal of Physiology, 2004, 556, 947-958.	1.3	173
5	Regional Variations of Contractile Activity in Isolated Rat Lymphatics. Microcirculation, 2004, 11, 477-492.	1.0	170
6	Aging Reduces Skeletal Blood Flow, Endothelium-Dependent Vasodilation, and NO Bioavailability in Rats. Journal of Bone and Mineral Research, 2007, 22, 1280-1288.	3.1	144
7	Apollo Lunar Astronauts Show Higher Cardiovascular Disease Mortality: Possible Deep Space Radiation Effects on the Vascular Endothelium. Scientific Reports, 2016, 6, 29901.	1.6	144
8	Time course of enhanced endothelium-mediated dilation in aorta of trained rats. Medicine and Science in Sports and Exercise, 1997, 29, 1454-1461.	0.2	143
9	Ageing diminishes endotheliumâ€dependent vasodilatation and tetrahydrobiopterin content in rat skeletal muscle arterioles. Journal of Physiology, 2008, 586, 1161-1168.	1.3	133
10	Effects of aging on cardiac output, regional blood flow, and body composition in Fischer-344 rats. Journal of Applied Physiology, 1998, 85, 1813-1822.	1.2	131
11	Effects of ageing and exercise training on eNOS uncoupling in skeletal muscle resistance arterioles. Journal of Physiology, 2009, 587, 3885-3897.	1.3	131
12	Structural and functional remodeling of skeletal muscle microvasculature is induced by simulated microgravity. American Journal of Physiology - Heart and Circulatory Physiology, 2000, 278, H1866-H1873.	1.5	125
13	Exercise increases blood flow to locomotor, vestibular, cardiorespiratory and visual regions of the brain in miniature swine. Journal of Physiology, 2001, 533, 849-859.	1.3	119
14	Effects of aging on vasoconstrictor and mechanical properties of rat skeletal muscle arterioles. American Journal of Physiology - Heart and Circulatory Physiology, 2002, 282, H1843-H1854.	1.5	106
15	Myogenic and vasoconstrictor responsiveness of skeletal muscle arterioles is diminished by hindlimb unloading. Journal of Applied Physiology, 1999, 86, 1178-1184.	1.2	90
16	Time course of vasodilatory responses in skeletal muscle arterioles: role in hyperemia at onset of exercise. American Journal of Physiology - Heart and Circulatory Physiology, 2000, 279, H1715-H1723.	1.5	89
17	Effects of hindlimb unloading on rat cerebral, splenic, and mesenteric resistance artery morphology. Journal of Applied Physiology, 1999, 87, 2115-2121.	1.2	85
18	Effects of aging on microvascular oxygen pressures in rat skeletal muscle. Respiratory Physiology and Neurobiology, 2005, 146, 259-268.	0.7	85

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19	Changes in skeletal muscle biochemistry and histology relative to fiber type in rats with heart failure. Journal of Applied Physiology, 1997, 83, 1291-1299.	1.2	82
20	Simulated microgravity enhances cerebral artery vasoconstriction and vascular resistance through endothelial nitric oxide mechanism. American Journal of Physiology - Heart and Circulatory Physiology, 2005, 288, H1652-H1661.	1.5	82
21	Spaceflightâ€induced alterations in cerebral artery vasoconstrictor, mechanical, and structural properties: implications for elevated cerebral perfusion and intracranial pressure. FASEB Journal, 2013, 27, 2282-2292.	0.2	80
22	Effects of exercise training on endothelium-dependent peripheral vascular responsiveness. Medicine and Science in Sports and Exercise, 1995, 27, 1152???1157.	0.2	75
23	Ageing and exercise training alter adrenergic vasomotor responses of rat skeletal muscle arterioles. Journal of Physiology, 2007, 579, 115-125.	1.3	75
24	Integrative control of the skeletal muscle microcirculation in the maintenance of arterial pressure during exercise. Journal of Applied Physiology, 2004, 97, 1112-1118.	1.2	72
25	Aging blunts the dynamics of vasodilation in isolated skeletal muscle resistance vessels. Journal of Applied Physiology, 2010, 108, 14-20.	1.2	70
26	The effects of aging and exercise training on endothelin-1 vasoconstrictor responses in rat skeletal muscle arterioles. Cardiovascular Research, 2005, 66, 393-401.	1.8	69
27	Altered bone mass, geometry and mechanical properties during the development and progression of type 2 diabetes in the Zucker diabetic fatty rat. Journal of Endocrinology, 2008, 199, 379-388.	1.2	69
28	Differential effects of training on the control of skeletal muscle perfusion. Medicine and Science in Sports and Exercise, 1998, 30, 361-374.	0.2	68
29	Exercise training enhances flow-induced vasodilation in skeletal muscle resistance arteries of aged rats: role of PGI2 and nitric oxide. American Journal of Physiology - Heart and Circulatory Physiology, 2007, 292, H3119-H3127.	1.5	65
30	Morphological changes during fiber type transitions in low-frequency-stimulated rat fast-twitch muscle. Cell and Tissue Research, 1994, 277, 363-371.	1.5	63
31	Decreases in Bone Blood Flow and Bone Material Properties in Aging Fischer-344 Rats. Clinical Orthopaedics and Related Research, 2002, 396, 248-257.	0.7	63
32	Control of skeletal muscle perfusion at the onset of dynamic exercise. Medicine and Science in Sports and Exercise, 1999, 31, 1011-1018.	0.2	60
33	Decreased NO signaling leads to enhanced vasoconstrictor responsiveness in skeletal muscle arterioles of the ZDF rat prior to overt diabetes and hypertension. American Journal of Physiology - Heart and Circulatory Physiology, 2008, 294, H1840-H1850.	1.5	57
34	Increased nitric oxide-mediated vasodilation of bone resistance arteries is associated with increased trabecular bone volume after endurance training in rats. Bone, 2010, 46, 813-819.	1.4	55
35	Selected Contribution: Effects of fiber composition and hindlimb unloading on the vasodilator properties of skeletal muscle arterioles. Journal of Applied Physiology, 2000, 89, 398-405.	1.2	54
36	Hindlimb unloading induces a collagen isoform shift in the soleus muscle of the rat. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2001, 281, R1710-R1717.	0.9	52

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37	Inhibition of active lymph pump by simulated microgravity in rats. American Journal of Physiology - Heart and Circulatory Physiology, 2006, 290, H2295-H2308.	1.5	48
38	Type 2 diabetes alters bone and marrow blood flow and vascular control mechanisms in the ZDF rat. Journal of Endocrinology, 2015, 225, 47-58.	1.2	47
39	Age and exercise training alter signaling through reactive oxygen species in the endothelium of skeletal muscle arterioles. Journal of Applied Physiology, 2013, 114, 681-693.	1.2	45
40	Exercise Training Enhances Vasodilation Responses to Vascular Endothelial Growth Factor in Porcine Coronary Arterioles Exposed to Chronic Coronary Occlusion. Circulation, 2004, 109, 664-670.	1.6	44
41	Effects of acute and chronic exercise on vasoconstrictor responsiveness of rat abdominal aorta. Journal of Applied Physiology, 1999, 87, 1752-1757.	1.2	43
42	Impact of Spaceflight and Artificial Gravity on the Mouse Retina: Biochemical and Proteomic Analysis. International Journal of Molecular Sciences, 2018, 19, 2546.	1.8	41
43	Age, Gender, and Hormonal Status Modulate the Vascular Toxicity of the Diesel Exhaust Extract Phenanthraquinone. Journal of Toxicology and Environmental Health - Part A: Current Issues, 2008, 71, 464-470.	1.1	39
44	Effects of aging and exercise training on skeletal muscle blood flow and resistance artery morphology. Journal of Applied Physiology, 2012, 113, 1699-1708.	1.2	39
45	Spaceflight induces oxidative damage to bloodâ€brain barrier integrity in a mouse model. FASEB Journal, 2020, 34, 15516-15530.	0.2	39
46	Effects of spaceflight and ground recovery on mesenteric artery and vein constrictor properties in mice. FASEB Journal, 2013, 27, 399-409.	0.2	38
47	Spaceflight influences gene expression, photoreceptor integrity, and oxidative stress-related damage in the murine retina. Scientific Reports, 2019, 9, 13304.	1.6	38
48	Chronic skeletal unloading of the rat femur: Mechanisms and functional consequences of vascular remodeling. Bone, 2013, 57, 355-360.	1.4	37
49	Structural remodeling of coronary resistance arteries: effects of age and exercise training. Journal of Applied Physiology, 2014, 117, 616-623.	1.2	37
50	Influence of ageing and physical activity on vascular morphology in rat skeletal muscle. Journal of Physiology, 2006, 575, 617-626.	1.3	36
51	Thyroid Status and Exercise Tolerance. Sports Medicine, 1995, 20, 189-198.	3.1	35
52	Effect of concentric and eccentric muscle actions on muscle sympathetic nerve activity. Journal of Applied Physiology, 1999, 86, 558-563.	1.2	35
53	Myocardial Heat Shock Protein 70 Expression in Young and Old Rats After Identical Exercise Programs. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2005, 60, 963-969.	1.7	35
54	Spaceflight on the Bion-M1 biosatellite alters cerebral artery vasomotor and mechanical properties in mice. Journal of Applied Physiology, 2015, 118, 830-838.	1.2	35

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55	Acute and chronic head-down tail suspension diminishes cerebral perfusion in rats. American Journal of Physiology - Heart and Circulatory Physiology, 2002, 282, H328-H334.	1.5	34
56	Aging potentiates the effect of congestive heart failure on muscle microvascular oxygenation. Journal of Applied Physiology, 2007, 103, 1757-1763.	1.2	34
57	Chronic ethanol increases fetal cerebral blood flow specific to the ethanol-sensitive cerebellum under normoxaemic, hypercapnic and acidaemic conditions: ovine model. Experimental Physiology, 2007, 92, 933-943.	0.9	34
58	Adrenergic control of vascular resistance varies in muscles composed of different fiber types: influence of the vascular endothelium. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2011, 301, R783-R790.	0.9	34
59	Exercise training reverses ageâ€induced diastolic dysfunction and restores coronary microvascular function. Journal of Physiology, 2017, 595, 3703-3719.	1.3	34
60	Effect of short-term microgravity and long-term hindlimb unloading on rat cardiac mass and function. Journal of Applied Physiology, 2001, 91, 1207-1213.	1.2	33
61	Aging and Estrogen Status: A Possible Endothelium-Dependent Vascular Coupling Mechanism in Bone Remodeling. PLoS ONE, 2012, 7, e48564.	1.1	31
62	Spaceflight reduces vasoconstrictor responsiveness of skeletal muscle resistance arteries in mice. Journal of Applied Physiology, 2012, 113, 1439-1445.	1.2	28
63	Exercise Training Augments Regional Bone and Marrow Blood Flow during Exercise. Medicine and Science in Sports and Exercise, 2014, 46, 2107-2112.	0.2	28
64	Fiber Composition and Oxidative Capacity of Hamster Skeletal Muscle. Journal of Histochemistry and Cytochemistry, 2002, 50, 1685-1692.	1.3	27
65	Endothelium-dependent vasodilation of cerebral arteries is altered with simulated microgravity through nitric oxide synthase and EDHF mechanisms. Journal of Applied Physiology, 2006, 101, 348-353.	1.2	27
66	Effects of skeletal unloading on the vasomotor properties of the rat femur principal nutrient artery. Journal of Applied Physiology, 2015, 118, 980-988.	1.2	27
67	Effects of arterial hypotension on microvascular oxygen exchange in contracting skeletal muscle. Journal of Applied Physiology, 2006, 100, 1019-1026.	1.2	26
68	Effects of High-LET Radiation Exposure and Hindlimb Unloading on Skeletal Muscle Resistance Artery Vasomotor Properties and Cancellous Bone Microarchitecture in Mice. Radiation Research, 2016, 185, 257-266.	0.7	26
69	Effects of hindlimb unweighting on the mechanical and structure properties of the rat abdominal aorta. Journal of Applied Physiology, 2003, 94, 439-445.	1.2	24
70	Simulated microgravity alters rat mesenteric artery vasoconstrictor dynamics through an intracellular Ca²⁺release mechanism. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2008, 294, R1577-R1585.	0.9	23
71	Ocular and regional cerebral blood flow in aging Fischer-344 rats. Journal of Applied Physiology, 1998, 85, 1024-1029.	1.2	21
72	Diminished mesenteric vaso- and venoconstriction and elevated plasma ANP and BNP with simulated microgravity. Journal of Applied Physiology, 2008, 104, 1273-1280.	1.2	21

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73	Unraveling the complex web of impaired wound healing with mechanical unloading and physical deconditioning. Journal of Applied Physiology, 2008, 104, 1262-1263.	1.2	21
74	Effects of aging, TNF-Î±, and exercise training on angiotensin II-induced vasoconstriction of rat skeletal muscle arterioles. Journal of Applied Physiology, 2012, 113, 1091-1100.	1.2	19
75	Exercise training reverses aging-induced impairment of myogenic constriction in skeletal muscle arterioles. Journal of Applied Physiology, 2015, 118, 904-911.	1.2	19
76	Effects of hindlimb unloading and ionizing radiation on skeletal muscle resistance artery vasodilation and its relation to cancellous bone in mice. Journal of Applied Physiology, 2016, 120, 97-106.	1.2	18
77	Effects of spaceflight on the murine mandible: Possible factors mediating skeletal changes in non-weight bearing bones of the head. Bone, 2016, 83, 156-161.	1.4	18
78	Spaceflight and hind limb unloading induces an arthritic phenotype in knee articular cartilage and menisci of rodents. Scientific Reports, 2021, 11, 10469.	1.6	17
79	Rat hindlimb muscle blood flow during level and downhill locomotion. Journal of Applied Physiology, 1999, 86, 564-568.	1.2	15
80	Arterial adaptations in microgravity contribute to orthostatic tolerance. Journal of Applied Physiology, 2007, 102, 836-836.	1.2	15
81	Differential effects of aging and exercise on intra-abdominal adipose arteriolar function and blood flow regulation. Journal of Applied Physiology, 2013, 114, 808-815.	1.2	15
82	The effects of aging on the functional and structural properties of the rat basilar artery. Physiological Reports, 2014, 2, e12031.	0.7	15
83	Effects of aging on adipose resistance artery vasoconstriction: possible implications for orthostatic blood pressure regulation. Journal of Applied Physiology, 2007, 103, 1636-1643.	1.2	14
84	The Functional and Structural Changes in the Basilar Artery Due to Overpressure Blast Injury. Journal of Cerebral Blood Flow and Metabolism, 2015, 35, 1950-1956.	2.4	14
85	Neuropilin-1 Is Essential for Enhanced VEGF₁₆₅-Mediated Vasodilatation in Collateral-Dependent Coronary Arterioles of Exercise-Trained Pigs. Journal of Vascular Research, 2009, 46, 152-161.	0.6	12
86	Effects of age and exercise training on coronary microvascular smooth muscle phenotype and function. Journal of Applied Physiology, 2018, 124, 140-149.	1.2	12
87	The G proteinâ€“coupled estrogen receptor agonist, Gâ€1, attenuates BK channel activation in cerebral arterial smooth muscle cells. Pharmacology Research and Perspectives, 2018, 6, e00409.	1.1	12
88	The individual and combined effects of spaceflight radiation and microgravity on biologic systems and functional outcomes. Journal of Environmental Science and Health, Part C: Toxicology and Carcinogenesis, 2021, 39, 129-179.	0.4	12
89	Spaceflight decelerates the epigenetic clock orchestrated with a global alteration in DNA methylome and transcriptome in the mouse retina. Precision Clinical Medicine, 2021, 4, 93-108.	1.3	8
90	Aerobic exercise training reduces cardiac function and coronary flow-induced vasodilation in mice lacking adiponectin. American Journal of Physiology - Heart and Circulatory Physiology, 2021, 321, H1-H14.	1.5	7

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91	A comparison of methods used to determine &OV0312;o2 of exercising humans and animals. Medicine and Science in Sports and Exercise, 1989, 21, 480???486.	0.2	5
92	Altered rodent gait characteristics after ~35 days in orbit aboard the International Space Station. Life Sciences in Space Research, 2020, 24, 9-17.	1.2	3
93	Simulated Microgravity Induces Regionally Distinct Neurovascular and Structural Remodeling of Skeletal Muscle and Cutaneous Arteries in the Rat. Frontiers in Physiology, 2020, 11, 675.	1.3	3
94	Reply to Zhang. Journal of Applied Physiology, 2015, 119, 1244-1244.	1.2	1
95	ENHANCED DILATION OF ARTERIOLES FROM SOLEUS MUSCLE OF TRAINED RATS636. Medicine and Science in Sports and Exercise, 1996, 28, 107.	0.2	1
96	Vasoconstriction via voltageâ€gated Ca 2+ Channels is impaired in the Femoral Principal Nutrient Artery of Aged Rats. FASEB Journal, 2006, 20, .	0.2	0
97	MECHANISM OF ANGIOTENSIN II VASOREACTIVITY IN RAT SOLEUS MUSCLE ARTERIOLES: EFFECTS OF AGING AND EXERCISE TRAINING. FASEB Journal, 2006, 20, A285.	0.2	0
98	Aging Diminishes Adrenergic Vasoconstriction in Adipose Tissue Resistance Arteries. FASEB Journal, 2007, 21, A481.	0.2	0
99	Aging alters regional vascular conductance and arterial pressure during orthostatic stress.. FASEB Journal, 2007, 21, A486.	0.2	0
100	Adrenergic Regulation of Vasomotor Responses in Skeletal Muscle Composed of Different Fiber Types. FASEB Journal, 2009, 23, .	0.2	0
101	Exerciseâ€induced increases in trabecular bone volume are associated with increased nitric oxideâ€mediated vasodilation in osseous vasculature of young and old rats. FASEB Journal, 2009, 23, 955.21.	0.2	0
102	Aerobic exercise affects body weight differently in young and old rats. FASEB Journal, 2012, 26, lb731.	0.2	0
103	Effects of spaceflight on vasoconstrictor and mechanical properties of mouse cerebral arteries. FASEB Journal, 2012, 26, .	0.2	0
104	Endurance exercise training enhances regional femoral and tibial bone blood flow during exercise. FASEB Journal, 2012, 26, 1142.47.	0.2	0