

Michael A Hill

List of Publications by Citations

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156
papers

6,393
citations

42
h-index

76
g-index

167
ext. papers

7,574
ext. citations

5.9
avg, IF

6.21
L-index

#	Paper	IF	Citations
156	Signaling mechanisms underlying the vascular myogenic response. <i>Physiological Reviews</i> , 1999 , 79, 387-423	47.9	788
155	Diabetic Cardiomyopathy: An Update of Mechanisms Contributing to This Clinical Entity. <i>Circulation Research</i> , 2018 , 122, 624-638	15.7	613
154	Direct regulation of blood pressure by smooth muscle cell mineralocorticoid receptors. <i>Nature Medicine</i> , 2012 , 18, 1429-33	50.5	240
153	Invited review: arteriolar smooth muscle mechanotransduction: Ca(2+) signaling pathways underlying myogenic reactivity. <i>Journal of Applied Physiology</i> , 2001 , 91, 973-83	3.7	224
152	The plastic nature of the vascular wall: a continuum of remodeling events contributing to control of arteriolar diameter and structure. <i>Physiology</i> , 2009 , 24, 45-57	9.8	153
151	Integrins as unique receptors for vascular control. <i>Journal of Vascular Research</i> , 2003 , 40, 211-33	1.9	144
150	Autoimmune basis for postural tachycardia syndrome. <i>Journal of the American Heart Association</i> , 2014 , 3, e000755	6	140
149	Integrins and mechanotransduction of the vascular myogenic response. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2001 , 280, H1427-33	5.2	132
148	Impaired peripheral vasomotion in diabetes. <i>Diabetes Care</i> , 1996 , 19, 715-21	14.6	130
147	Acute mechanoadaptation of vascular smooth muscle cells in response to continuous arteriolar vasoconstriction: implications for functional remodeling. <i>FASEB Journal</i> , 2004 , 18, 708-10	0.9	112
146	Covid-19 and Disparities in Nutrition and Obesity. <i>New England Journal of Medicine</i> , 2020 , 383, e69	59.2	108
145	Role of Reactive Oxygen Species in Tumor Necrosis Factor-alpha Induced Endothelial Dysfunction. <i>Current Hypertension Reviews</i> , 2008 , 4, 245-255	2.3	96
144	Large conductance, Ca2+-activated K+ channels (BKCa) and arteriolar myogenic signaling. <i>FEBS Letters</i> , 2010 , 584, 2033-42	3.8	91
143	Commentary: COVID-19 in patients with diabetes. <i>Metabolism: Clinical and Experimental</i> , 2020 , 107, 1542177	17.7	89
142	Extracellular matrix-specific focal adhesions in vascular smooth muscle produce mechanically active adhesion sites. <i>American Journal of Physiology - Cell Physiology</i> , 2008 , 295, C268-78	5.4	89
141	Impairment of peripheral blood flow responses in diabetes resembles an enhanced aging effect. <i>Diabetes Care</i> , 1997 , 20, 1711-6	14.6	87
140	Arteriolar myogenic signalling mechanisms: Implications for local vascular function. <i>Clinical Hemorheology and Microcirculation</i> , 2006 , 34, 67-79	2.5	87

139	Lymphatic vascular integrity is disrupted in type 2 diabetes due to impaired nitric oxide signalling. <i>Cardiovascular Research</i> , 2015 , 107, 89-97	9.9	79
138	Myogenic contraction in rat skeletal muscle arterioles: smooth muscle membrane potential and Ca(2+) signaling. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2005 , 289, H1326-34	5.2	77
137	Augmented vascular smooth muscle cell stiffness and adhesion when hypertension is superimposed on aging. <i>Hypertension</i> , 2015 , 65, 370-7	8.5	76
136	Lipoproteins and diabetic microvascular complications. <i>Current Pharmaceutical Design</i> , 2004 , 10, 3395-4183	3.3	74
135	Endothelial Mineralocorticoid Receptors Differentially Contribute to Coronary and Mesenteric Vascular Function Without Modulating Blood Pressure. <i>Hypertension</i> , 2015 , 66, 988-97	8.5	72
134	Openers of SKCa and IKCa channels enhance agonist-evoked endothelial nitric oxide synthesis and arteriolar vasodilation. <i>FASEB Journal</i> , 2009 , 23, 1138-45	0.9	69
133	Therapeutic potential of pharmacologically targeting arteriolar myogenic tone. <i>Trends in Pharmacological Sciences</i> , 2009 , 30, 363-74	13.2	64
132	Temporal analysis of vascular smooth muscle cell elasticity and adhesion reveals oscillation waveforms that differ with aging. <i>Aging Cell</i> , 2012 , 11, 741-50	9.9	60
131	Spatial distribution and mechanical function of elastin in resistance arteries: a role in bearing longitudinal stress. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2011 , 31, 2889-96	9.4	59
130	Heterogeneity in function of small artery smooth muscle BKCa: involvement of the beta1-subunit. <i>Journal of Physiology</i> , 2009 , 587, 3025-44	3.9	58
129	Vascular mineralocorticoid receptor regulates microRNA-155 to promote vasoconstriction and rising blood pressure with aging. <i>JCI Insight</i> , 2016 , 1, e88942	9.9	57
128	Role of Renin-Angiotensin-Aldosterone System Activation in Promoting Cardiovascular Fibrosis and Stiffness. <i>Hypertension</i> , 2018 , 72, 537-548	8.5	56
127	Regulation of ion channels by integrins. <i>Cell Biochemistry and Biophysics</i> , 2002 , 36, 41-66	3.2	55
126	Arteriolar vascular smooth muscle cells: mechanotransducers in a complex environment. <i>International Journal of Biochemistry and Cell Biology</i> , 2012 , 44, 1505-10	5.6	53
125	Ca2+ sensitization due to myosin light chain phosphatase inhibition and cytoskeletal reorganization in the myogenic response of skeletal muscle resistance arteries. <i>Journal of Physiology</i> , 2013 , 591, 1235-50	3.9	53
124	Normal blood flow response and vasomotion in the diabetic Charcot foot. <i>Journal of Diabetes and Its Complications</i> , 1998 , 12, 147-53	3.2	53
123	Temporal aspects of Ca(2+) and myosin phosphorylation during myogenic and norepinephrine-induced arteriolar constriction. <i>Journal of Vascular Research</i> , 2000 , 37, 556-67	1.9	51
122	A role for heterocellular coupling and EETs in dilation of rat cremaster arteries. <i>Microcirculation</i> , 2006 , 13, 119-30	2.9	50

121	Capacitative Ca(2+) entry in vascular endothelial cells is mediated via pathways sensitive to 2 aminoethoxydiphenyl borate and xestospongine C. <i>British Journal of Pharmacology</i> , 2002 , 135, 119-28	8.6	48
120	Interleukin-1 and interleukin-6 mediated skeletal muscle arteriolar vasodilation: in vitro versus in vivo studies. <i>Shock</i> , 1998 , 9, 210-5	3.4	48
119	Altered cremaster muscle hemodynamics due to disruption of the deferential feed vessels. <i>Microvascular Research</i> , 1990 , 39, 349-63	3.7	48
118	Interaction of IL-6 and TNF- α contributes to endothelial dysfunction in type 2 diabetic mouse hearts. <i>PLoS ONE</i> , 2017 , 12, e0187189	3.7	46
117	Adiponectin abates diabetes-induced endothelial dysfunction by suppressing oxidative stress, adhesion molecules, and inflammation in type 2 diabetic mice. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2012 , 303, H106-15	5.2	46
116	Hydrogen sulfide preconditioning or neutrophil depletion attenuates ischemia-reperfusion-induced mitochondrial dysfunction in rat small intestine. <i>American Journal of Physiology - Renal Physiology</i> , 2012 , 302, G44-54	5.1	45
115	Transient increases in diameter and [Ca(2+)](i) are not obligatory for myogenic constriction. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2000 , 278, H345-52	5.2	45
114	Potassium channels and membrane potential in the modulation of intracellular calcium in vascular endothelial cells. <i>Journal of Cardiovascular Electrophysiology</i> , 2004 , 15, 598-610	2.7	42
113	Mechanical activation of angiotensin II type 1 receptors causes actin remodelling and myogenic responsiveness in skeletal muscle arterioles. <i>Journal of Physiology</i> , 2016 , 594, 7027-7047	3.9	40
112	Epithelial Sodium Channel in Aldosterone-Induced Endothelium Stiffness and Aortic Dysfunction. <i>Hypertension</i> , 2018 , 72, 731-738	8.5	40
111	Antecedent hydrogen sulfide elicits an anti-inflammatory phenotype in postischemic murine small intestine: role of BK channels. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2010 , 299, H1554-67	5.2	40
110	Agonistic autoantibodies as vasodilators in orthostatic hypotension: a new mechanism. <i>Hypertension</i> , 2012 , 59, 402-8	8.5	40
109	Reduced EDHF responses and connexin activity in mesenteric arteries from the insulin-resistant obese Zucker rat. <i>Diabetologia</i> , 2008 , 51, 872-81	10.3	39
108	Alteration of microtubule polymerization modulates arteriolar vasomotor tone. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 1999 , 277, H100-6	5.2	39
107	Vasoactive agonists exert dynamic and coordinated effects on vascular smooth muscle cell elasticity, cytoskeletal remodelling and adhesion. <i>Journal of Physiology</i> , 2014 , 592, 1249-66	3.9	38
106	Pharmacological evidence for capacitative Ca(2+) entry in cannulated and pressurized skeletal muscle arterioles. <i>British Journal of Pharmacology</i> , 2001 , 134, 247-56	8.6	38
105	Effects of mibefradil and nifedipine on arteriolar myogenic responsiveness and intracellular Ca(2+). <i>British Journal of Pharmacology</i> , 2000 , 131, 1065-72	8.6	36
104	Troglitazone, but not rosiglitazone, inhibits Na/H exchange activity and proliferation of macrovascular endothelial cells. <i>Journal of Diabetes and Its Complications</i> , 2001 , 15, 120-7	3.2	35

103	Mechanisms underlying regional differences in the Ca ²⁺ sensitivity of BK(Ca) current in arteriolar smooth muscle. <i>Journal of Physiology</i> , 2013 , 591, 1277-93	3.9	33
102	Local Regulation of Microvascular Perfusion 2008 , 161-284		32
101	Aldosterone and vascular mineralocorticoid receptors: regulators of ion channels beyond the kidney. <i>Hypertension</i> , 2014 , 63, 632-7	8.5	31
100	Autoantibody activation of beta-adrenergic and muscarinic receptors contributes to an "autoimmune" orthostatic hypotension. <i>Journal of the American Society of Hypertension</i> , 2012 , 6, 40-7		31
99	Cellular signalling in arteriolar myogenic constriction: involvement of tyrosine phosphorylation pathways. <i>Clinical and Experimental Pharmacology and Physiology</i> , 2002 , 29, 612-9	3	31
98	Obesity, Adipose Tissue and Vascular Dysfunction. <i>Circulation Research</i> , 2021 , 128, 951-968	15.7	31
97	Vascular transcriptional alterations produced by juvenile obesity in Ossabaw swine. <i>Physiological Genomics</i> , 2013 , 45, 434-46	3.6	30
96	Passive pressure-diameter relationship and structural composition of rat mesenteric lymphangions. <i>Lymphatic Research and Biology</i> , 2012 , 10, 152-63	2.3	30
95	TRPV4 increases cardiomyocyte calcium cycling and contractility yet contributes to damage in the aged heart following hypoosmotic stress. <i>Cardiovascular Research</i> , 2019 , 115, 46-56	9.9	29
94	Enhanced endothelium epithelial sodium channel signaling prompts left ventricular diastolic dysfunction in obese female mice. <i>Metabolism: Clinical and Experimental</i> , 2018 , 78, 69-79	12.7	28
93	Decreased activity of the smooth muscle Na ⁺ /Ca ²⁺ exchanger impairs arteriolar myogenic reactivity. <i>Journal of Physiology</i> , 2008 , 586, 1669-81	3.9	28
92	Secretion of apolipoprotein E from macrophages occurs via a protein kinase A and calcium-dependent pathway along the microtubule network. <i>Circulation Research</i> , 2007 , 101, 607-16	15.7	27
91	Epithelial sodium channels in endothelial cells mediate diet-induced endothelium stiffness and impaired vascular relaxation in obese female mice. <i>Metabolism: Clinical and Experimental</i> , 2019 , 99, 57-66	12.7	26
90	Disconnect between adipose tissue inflammation and cardiometabolic dysfunction in Ossabaw pigs. <i>Obesity</i> , 2015 , 23, 2421-9	8	26
89	Adiponectin Receptor Agonist, AdipoRon, Causes Vasorelaxation Predominantly Via a Direct Smooth Muscle Action. <i>Microcirculation</i> , 2016 , 23, 207-20	2.9	25
88	G protein coupled receptor transactivation: extending the paradigm to include serine/threonine kinase receptors. <i>International Journal of Biochemistry and Cell Biology</i> , 2012 , 44, 722-7	5.6	25
87	Arteriolar arcades and pressure distribution in cremaster muscle microcirculation. <i>Microvascular Research</i> , 1992 , 44, 117-24	3.7	25
86	New technologies for dissecting the arteriolar myogenic response. <i>Trends in Pharmacological Sciences</i> , 2007 , 28, 308-15	13.2	24

85	Insulin resistance, cardiovascular stiffening and cardiovascular disease. <i>Metabolism: Clinical and Experimental</i> , 2021 , 119, 154766	12.7	24
84	Arterial Stiffening in Western Diet-Fed Mice Is Associated with Increased Vascular Elastin, Transforming Growth Factor- β and Plasma Neuraminidase. <i>Frontiers in Physiology</i> , 2016 , 7, 285	4.6	24
83	Intraluminal pressure stimulates MAPK phosphorylation in arterioles: temporal dissociation from myogenic contractile response. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2003 , 285, H1764-73	5.2	23
82	Heterogeneity in Kv7 channel function in the cerebral and coronary circulation. <i>Microcirculation</i> , 2015 , 22, 109-121	2.9	22
81	N-cadherin, a vascular smooth muscle cell-cell adhesion molecule: function and signaling for vasomotor control. <i>Microcirculation</i> , 2014 , 21, 208-18	2.9	22
80	Endothelium-independent constriction of isolated, pressurized arterioles by Nomega-nitro-L-arginine methyl ester (L-NAME). <i>British Journal of Pharmacology</i> , 2007 , 151, 602-9	8.6	22
79	Matrix protein glycation impairs agonist-induced intracellular Ca ²⁺ signaling in endothelial cells. <i>Journal of Cellular Physiology</i> , 2002 , 193, 80-92	7	21
78	Tyrosine phosphorylation following alterations in arteriolar intraluminal pressure and wall tension. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2001 , 281, H1047-56	5.2	21
77	Endotoxin interacts with tumor necrosis factor-alpha to induce vasodilation of isolated rat skeletal muscle arterioles. <i>Shock</i> , 1996 , 5, 251-7	3.4	21
76	Commentary: COVID-19 and obesity pandemics converge into a syndemic requiring urgent and multidisciplinary action. <i>Metabolism: Clinical and Experimental</i> , 2021 , 114, 154408	12.7	21
75	Membrane cholesterol depletion with beta-cyclodextrin impairs pressure-induced contraction and calcium signalling in isolated skeletal muscle arterioles. <i>Journal of Vascular Research</i> , 2007 , 44, 292-302	1.9	20
74	Angiotensin II Type 1 Receptor Mechanoactivation Involves RGS5 (Regulator of G Protein Signaling 5) in Skeletal Muscle Arteries: Impaired Trafficking of RGS5 in Hypertension. <i>Hypertension</i> , 2017 , 70, 1264-1272 ¹⁹	8.5	19
73	Endothelium-dependent vasodilation in myogenically active mouse skeletal muscle arterioles: role of EDH and K(+) channels. <i>Microcirculation</i> , 2009 , 16, 377-90; 1 p following 390	2.9	19
72	Delayed arteriolar relaxation after prolonged agonist exposure: functional remodeling involving tyrosine phosphorylation. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2003 , 285, H849-56	5.2	18
71	The vascular endothelium in diabetes: a practical target for drug treatment?. <i>Expert Opinion on Therapeutic Targets</i> , 2005 , 9, 101-17	6.4	18
70	N-cadherin and integrin blockade inhibit arteriolar myogenic reactivity but not pressure-induced increases in intracellular Ca. <i>Frontiers in Physiology</i> , 2010 , 1, 165	4.6	16
69	Tyrosine phosphorylation modulates arteriolar tone but is not fundamental to myogenic response. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2000 , 278, H373-82	5.2	16
68	Inhibition of Myogenic Tone in Rat Cremaster and Cerebral Arteries by SKA-31, an Activator of Endothelial KCa _{2.3} and KCa _{3.1} Channels. <i>Journal of Cardiovascular Pharmacology</i> , 2015 , 66, 118-27	3.1	15

67	Does C-reactive protein contribute to atherothrombosis via oxidant-mediated release of pro-thrombotic factors and activation of platelets?. <i>Frontiers in Physiology</i> , 2012 , 3, 433	4.6	15
66	Coupling a change in intraluminal pressure to vascular smooth muscle depolarization: still stretching for an explanation. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2007 , 292, H2570-2	5.2	14
65	Erythrocyte membrane fluidity in type 1 diabetes mellitus. <i>Pathology</i> , 1983 , 15, 449-51	1.6	14
64	Large conductance Ca ²⁺ -activated K ⁺ channel (BKCa) β subunit splice variants in resistance arteries from rat cerebral and skeletal muscle vasculature. <i>PLoS ONE</i> , 2014 , 9, e98863	3.7	13
63	Advanced glycation end products acutely impair ca(2+) signaling in bovine aortic endothelial cells. <i>Frontiers in Physiology</i> , 2013 , 4, 38	4.6	13
62	Impaired arteriolar mechanotransduction in experimental diabetes mellitus. <i>Journal of Diabetes and Its Complications</i> , 1999 , 13, 235-42	3.2	13
61	Depletion of dendritic cells in perivascular adipose tissue improves arterial relaxation responses in type 2 diabetic mice. <i>Metabolism: Clinical and Experimental</i> , 2018 , 85, 76-89	12.7	12
60	Small artery mechanobiology: Roles of cellular and non-cellular elements. <i>Microcirculation</i> , 2016 , 23, 611-613	2.9	12
59	Chronic interval exercise training prevents BK channel-mediated coronary vascular dysfunction in aortic-banded miniswine. <i>Journal of Applied Physiology</i> , 2018 , 125, 86-96	3.7	12
58	Discovery of novel L-type voltage-gated calcium channel blockers and application for the prevention of inflammation and angiogenesis. <i>Journal of Neuroinflammation</i> , 2020 , 17, 132	10.1	11
57	Small Artery Elastin Distribution and Architecture-Focus on Three Dimensional Organization. <i>Microcirculation</i> , 2016 , 23, 614-620	2.9	11
56	Sexual Dimorphism in Obesity-Associated Endothelial ENaC Activity and Stiffening in Mice. <i>Endocrinology</i> , 2019 , 160, 2918-2928	4.8	10
55	Nonenzymatic glycation interferes with fibronectin-integrin interactions in vascular smooth muscle cells. <i>Microcirculation</i> , 2017 , 24, e12347	2.9	9
54	Mechanisms underlying pervanadate-induced contraction of rat cremaster muscle arterioles. <i>European Journal of Pharmacology</i> , 2002 , 442, 107-14	5.3	9
53	Lack of direct endotoxin-induced vasoactive effects on isolated skeletal muscle arterioles. <i>Shock</i> , 1995 , 3, 216-23	3.4	9
52	Western diet induces renal artery endothelial stiffening that is dependent on the epithelial Na channel. <i>American Journal of Physiology - Renal Physiology</i> , 2020 , 318, F1220-F1228	4.3	9
51	N-Cadherin, a novel and rapidly remodelling site involved in vasoregulation of small cerebral arteries. <i>Journal of Physiology</i> , 2017 , 595, 1987-2000	3.9	8
50	Role of the vascular endothelial sodium channel activation in the genesis of pathologically increased cardiovascular stiffness. <i>Cardiovascular Research</i> , 2020 ,	9.9	8

49	Alpha -adrenergic stimulation selectively enhances endothelium-mediated vasodilation in rat cremaster arteries. <i>Physiological Reports</i> , 2018 , 6, e13703	2.6	8
48	Endothelial sodium channel activation promotes cardiac stiffness and diastolic dysfunction in Western diet fed female mice. <i>Metabolism: Clinical and Experimental</i> , 2020 , 109, 154223	12.7	7
47	Brief serotonin exposure initiates arteriolar inward remodeling processes in vivo that involve transglutaminase activation and actin cytoskeleton reorganization. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2016 , 310, H188-98	5.2	7
46	Local Regulation of Microvascular Perfusion 2008 , 161-284		7
45	Myogenic reactivity of rat epineurial arterioles: potential role in local vasoregulatory events. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 1999 , 277, H144-51	5.2	7
44	Regulation of blood flow in small arteries: mechanosensory events underlying myogenic vasoconstriction. <i>Journal of Exercise Rehabilitation</i> , 2020 , 16, 207-215	1.8	7
43	Regulation of Coronary Endothelial Function by Interactions between TNF- α and Adiponectin in Apolipoprotein E Knockout Mice. <i>Journal of Vascular Research</i> , 2015 , 52, 372-82	1.9	6
42	Cytochrome P450 products and arachidonic acid-induced, non-store-operated, Ca ²⁺ entry in cultured bovine endothelial cells. <i>Endothelium: Journal of Endothelial Cell Research</i> , 2005 , 12, 153-61		6
41	A Calcium Mediated Mechanism Coordinating Vascular Smooth Muscle Cell Adhesion During KCl Activation. <i>Frontiers in Physiology</i> , 2018 , 9, 1810	4.6	6
40	Measurement of Pulse Propagation Velocity, Distensibility and Strain in an Abdominal Aortic Aneurysm Mouse Model. <i>Journal of Visualized Experiments</i> , 2020 ,	1.6	5
39	Mechanisms underlying smooth muscle Ca ²⁺ waves in cremaster muscle arterioles. <i>FASEB Journal</i> , 2009 , 23, 767.8	0.9	5
38	Development of an image-based system for measurement of membrane potential, intracellular Ca(2+) and contraction in arteriolar smooth muscle cells. <i>Microcirculation</i> , 2010 , 17, 629-40	2.9	4
37	Oxidant signaling underlies PKG β modulation of Ca ²⁺ sparks and BKCa in myogenically active arterioles. <i>Science Signaling</i> , 2016 , 9, fs15	8.8	3
36	Approaches for introducing peptides into intact and functional arteriolar smooth muscle: manipulation of protein kinase-based signalling. <i>Clinical and Experimental Pharmacology and Physiology</i> , 2003 , 30, 653-8	3	3
35	VITREOUS FLUOROPHOTOMETRY IN CHILDREN WITH TYPE I DIABETES MELLITUS. <i>Australian and New Zealand Journal of Ophthalmology</i> , 1984 , 12, 39-43		3
34	Mineralocorticoid antagonists and ENaC inhibitors in hyperaldosteronism. <i>Journal of Clinical Hypertension</i> , 2019 , 21, 929-931	2.3	2
33	A very unusual complication of amniocentesis. <i>Clinical Case Reports (discontinued)</i> , 2015 , 3, 345-8	0.7	2
32	The effect of thyroid hormone supplementation on hemodynamic stability and survival in an endotoxin-induced model of physiologic stress. <i>Journal of Surgical Research</i> , 1996 , 61, 77-83	2.5	2

31	Smooth muscle mineralocorticoid receptor as an epigenetic regulator of vascular aging.. <i>Cardiovascular Research</i> , 2022 ,	9.9	2
30	Arteriolar vasodilation involves actin depolymerization. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2018 , 315, H423-H428	5.2	1
29	Local Control of Microvascular Perfusion. <i>Colloquium Series on Integrated Systems Physiology From Molecule To Function</i> , 2012 , 4, 1-148		1
28	Measurement of changes in endothelial and smooth muscle Ca ²⁺ in pressurized arteries. <i>Methods in Molecular Biology</i> , 2013 , 937, 229-38	1.4	1
27	The Plastic Nature of the Vascular Wall: Reply to Lee, Sandow, and DeMay. <i>Physiology</i> , 2009 , 24, 273-275	9.8	1
26	CADHERINS PLAY A ROLE IN ARTERIOLAR MYOGENIC RESPONSIVENESS. <i>FASEB Journal</i> , 2008 , 22, 1143	7.9	1
25	Diabetes and Oxidant Stress 2008 , 123-158		1
24	Inherent rhythm of smooth muscle cells in rat mesenteric arterioles: An eigensystem formulation. <i>Physical Review E</i> , 2016 , 93, 042415	2.4	0
23	Myogenic Tone and Mechanotransduction 2012 , 1243-1257		0
22	Endothelial sodium channel activation mediates DOCA-salt-induced endothelial cell and arterial stiffening.. <i>Metabolism: Clinical and Experimental</i> , 2022 , 130, 155165	12.7	0
21	Inhibition of sphingomyelinase attenuates diet - Induced increases in aortic stiffness.. <i>Journal of Molecular and Cellular Cardiology</i> , 2022 , 167, 32-39	5.8	0
20	Quantification of elastin-fiber reticulation in rat mesenteric arterioles using molecular dynamics optimization. <i>Biomedical Physics and Engineering Express</i> , 2018 , 4, 035029	1.5	
19	Should we be sympathetic to angiotensin II infusion?. <i>Journal of Physiology</i> , 2013 , 591, 5269-70	3.9	
18	Mechanotransduction and the Myogenic Response in Diabetes. <i>Studies in Mechanobiology, Tissue Engineering and Biomaterials</i> , 2014 , 233-270	0.5	
17	The Plastic Nature of the Vascular Wall: Reply to Folkow. <i>Physiology</i> , 2010 , 25, 266-267	9.8	
16	Factors influencing residual pancreatic beta cell function in recently diagnosed Type 1 diabetic children. <i>Journal of Paediatrics and Child Health</i> , 1982 , 18, 37-9	1.3	
15	Alterations to Protein Level and Cellular Location of the BKCa β Subunit in the Coronary Vasculature are Dependent on Sex Hormones, Metabolic Status, and Species: A Retrospective Study in Multiple Swine Models of Pressure Overload-Induced Heart Failure. <i>FASEB Journal</i> , 2018 , 32, 579.2	0.9	
14	Estrogen receptor alpha mediated activation of the endothelial epithelial sodium channel: role in the genesis of arterial stiffness. <i>FASEB Journal</i> , 2018 , 32, 846.7	0.9	

- 13 Age-Related Changes in Skeletal Muscle and Small Mesenteric Arterial Function in Spontaneously Hypertensive Rats. *FASEB Journal*, **2019**, 33, lb456 0.9
- 12 Autoregulation and Resistance-Artery Function **1991**, 345-371
- 11 Exogenous diacylglycerol restores arteriolar myogenic constriction following candesartan (664.10). *FASEB Journal*, **2014**, 28, 664.10 0.9
- 10 Recruitment of RGS5 Protein to Mechanically Activated AT1R in Arteriolar VSMC. *FASEB Journal*, **2015**, 29, 636.5 0.9
- 9 Regional Variation in Arterial Myogenic Responsiveness: Links to Potassium Channel Diversity/Function **2016**, 131-152
- 8 Exploiting the cellular actions of SKCa and IKCa channels to manipulate endothelial function and vascular tone. *FASEB Journal*, **2009**, 23, 627.6 0.9
- 7 Exercise Training Improves Coronary Microvascular Arteriolar Function in Familial Hypercholesterolemia Porcine Model via Nrf2. *FASEB Journal*, **2012**, 26, 1138.24 0.9
- 6 Age-Related Changes in the Expression of Elastin in Small cerebral and Mesenteric Arteries. *FASEB Journal*, **2012**, 26, 861.4 0.9
- 5 Inflammation, but not oxidative stress or apoptosis, predominates in atherosclerosis-associated endothelial dysfunction in juvenile Ossabaw pigs with metabolic syndrome. *FASEB Journal*, **2012**, 26, 1055.1 0.9
- 4 Development of the elastin network in the walls of resistance arteries from neonatal and adult rats. *FASEB Journal*, **2013**, 27, 679.8 0.9
- 3 Topical application of Serotonin + L-NAME in vivo induces inward remodeling of the rat cremasteric 1A arteriole via a mechanism that is antagonized by the addition of cystamine, a competitive inhibitor of transglutaminase II. *FASEB Journal*, **2013**, 27, lb657 0.9
- 2 Angiotensin II-independent Activation of AT1 Receptors in Skeletal Muscle Arterioles. *FASEB Journal*, **2013**, 27, 678.13 0.9
- 1 Mechanisms underlying vascular stiffening in obesity, insulin resistance, and type 2 diabetes **2021**, 63-88