David X Zhang

List of Publications by Year
in descending order

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57	1,925	331670 21	315739 38
papers	citations	h-index	g-index

59	59	59	2724
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Mitochondrial reactive oxygen species-mediated signaling in endothelial cells. American Journal of Physiology - Heart and Circulatory Physiology, 2007, 292, H2023-H2031.	3.2	353
2	Characteristics and Superoxide-Induced Activation of Reconstituted Myocardial Mitochondrial ATP-Sensitive Potassium Channels. Circulation Research, 2001, 89, 1177-1183.	4.5	185
3	Transient Receptor Potential Vanilloid Type 4â€“Deficient Mice Exhibit Impaired Endothelium-Dependent Relaxation Induced by Acetylcholine In Vitro and In Vivo. Hypertension, 2009, 53, 532-538.	2.7	170
4	H ₂ O ₂ -Induced Dilation in Human Coronary Arterioles: Role of Protein Kinase G Dimerization and Large-Conductance Ca ²⁺ -Activated K ⁺ Channel Activation. Circulation Research, 2012, 110, 471-480.	4.5	143
5	Ceramide-induced activation of NADPH oxidase and endothelial dysfunction in small coronary arteries. American Journal of Physiology - Heart and Circulatory Physiology, 2003, 284, H605-H612.	3.2	101
6	Production and metabolism of ceramide in normal and ischemic-reperfused myocardium of rats. Basic Research in Cardiology, 2001, 96, 267-274.	5.9	81
7	Ceramide Reduces Endothelium-Dependent Vasodilation by Increasing Superoxide Production in Small Bovine Coronary Arteries. Circulation Research, 2001, 88, 824-831.	4.5	75
8	<scp>TRPV</scp>4 regulates matrix stiffness and <scp>TGF</scp>Î²1â€induced epithelialâ€mesenchymal transition. Journal of Cellular and Molecular Medicine, 2019, 23, 761-774.	3.6	72
9	Transient Receptor Potential Channel Activation and Endothelium-dependent Dilation in the Systemic Circulation. Journal of Cardiovascular Pharmacology, 2011, 57, 133-139.	1.9	71
10	Role of ceramide in TNF-Î±-induced impairment of endothelium-dependent vasorelaxation in coronary arteries. American Journal of Physiology - Heart and Circulatory Physiology, 2002, 283, H1785-H1794.	3.2	67
11	A novel TRPV4-specific agonist inhibits monocyte adhesion and atherosclerosis. Oncotarget, 2016, 7, 37622-37635.	1.8	63
12	TRPV4 ion channel is a novel regulator of dermal myofibroblast differentiation. American Journal of Physiology - Cell Physiology, 2017, 312, C562-C572.	4.6	52
13	Chronic Co-Administration of Sepiapterin and <scp>l</scp> -Citrulline Ameliorates Diabetic Cardiomyopathy and Myocardial Ischemia/Reperfusion Injury in Obese Type 2 Diabetic Mice. Circulation: Heart Failure, 2016, 9, e002424.	3.9	48
14	Effect of Ceramide on K Ca Channel Activity and Vascular Tone in Coronary Arteries. Hypertension, 1999, 33, 1441-1446.	2.7	47
15	Rap1b in Smooth Muscle and Endothelium Is Required for Maintenance of Vascular Tone and Normal Blood Pressure. Arteriosclerosis, Thrombosis, and Vascular Biology, 2014, 34, 1486-1494.	2.4	43
16	Contribution of K _V 1.5 Channel to Hydrogen Peroxideâ€“Induced Human Arteriolar Dilation and Its Modulation by Coronary Artery Disease. Circulation Research, 2017, 120, 658-669.	4.5	43
17	Rap1 promotes endothelial mechanosensing complex formation, <scp>NO</scp> release and normal endothelial function. EMBO Reports, 2015, 16, 628-637.	4.5	42
18	Characterization of blood pressure and endothelial function in TRPV4-deficient mice with <scp>l</scp> -NAME- and angiotensin II-induced hypertension. Physiological Reports, 2014, 2, e00199.	1.7	35

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19	ACh-induced relaxations of rabbit small mesenteric arteries: role of arachidonic acid metabolites and K+. American Journal of Physiology - Heart and Circulatory Physiology, 2007, 293, H152-H159.	3.2	26
20	Cyclooxygenase- and lipoxygenase-dependent relaxation to arachidonic acid in rabbit small mesenteric arteries. American Journal of Physiology - Heart and Circulatory Physiology, 2005, 288, H302-H309.	3.2	24
21	Expression of CYP 4A ï‰-hydroxylase and formation of 20-hydroxyeicosatetreanoic acid (20-HETE) in cultured rat brain astrocytes. Prostaglandins and Other Lipid Mediators, 2016, 124, 16-26.	1.9	24
22	Endothelial Rap1 (Ras-Association Proximate 1) Restricts Inflammatory Signaling to Protect From the Progression of Atherosclerosis. Arteriosclerosis, Thrombosis, and Vascular Biology, 2021, 41, 638-650.	2.4	24
23	TRPV4 ION Channel Is Associated withÂScleroderma. Journal of Investigative Dermatology, 2017, 137, 962-965.	0.7	21
24	Characterization of Vasoconstrictor Responses in Small Bovine Adrenal Cortical Arteries in Vitro. Endocrinology, 2004, 145, 1571-1578.	2.8	15
25	Steroid-Producing Cells Regulate Arterial Tone of Adrenal Cortical Arteries. Endocrinology, 2007, 148, 3569-3576.	2.8	15
26	Inhibiting NADPH Oxidases to Target Vascular and Other Pathologies: An Update on Recent Experimental and Clinical Studies. Biomolecules, 2022, 12, 823.	4.0	12
27	Calcium-Induced Calcium Release and Cyclic ADP-Ribose-Mediated Signaling in the Myocytes from Small Coronary Arteries. Microvascular Research, 2002, 64, 339-348.	2.5	11
28	Acetylcholine-Induced Relaxation and Hyperpolarization in Small Bovine Adrenal Cortical Arteries: Role of Cytochrome P450 Metabolites. Endocrinology, 2004, 145, 4532-4539.	2.8	11
29	Prolonged endothelial-dysfunction in human arterioles following infection with SARS-CoV-2. Cardiovascular Research, 2022, 118, 18-19.	3.8	9
30	Mechanisms of histamine-induced relaxation in bovine small adrenal cortical arteries. American Journal of Physiology - Endocrinology and Metabolism, 2005, 289, E1058-E1063.	3.5	8
31	Detection of TRPV4 channel current-like activity in Fawn Hooded hypertensive (FHH) rat cerebral arterial muscle cells. PLoS ONE, 2017, 12, e0176796.	2.5	7
32	Shakerâ€related voltageâ€gated K⁺ channel expression and vasomotor function in human coronary resistance arteries. Microcirculation, 2018, 25, e12431.	1.8	7
33	Endothelin receptor A and p66Shc regulate spontaneous Ca²⁺oscillations in smooth muscle cells controlling renal arterial spontaneous motion. FASEB Journal, 2019, 33, 2636-2645.	0.5	6
34	Endothelinâ€1 potentiates TRPV1â€mediated vasoconstriction of human adipose arterioles in a protein kinase Câ€dependent manner. British Journal of Pharmacology, 2021, 178, 709-725.	5.4	4
35	NADPH oxidase 4 contributes to TRPV4-mediated endothelium-dependent vasodilation in human arterioles by regulating protein phosphorylation of TRPV4 channels. Basic Research in Cardiology, 2022, 117, 24.	5.9	4
36	Myocardin and Kv1 Channels. Arteriosclerosis, Thrombosis, and Vascular Biology, 2019, 39, 2454-2456.	2.4	2

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37	H 2 O 2 â€induced Dilation in Human Adipose Arterioles: Role of Smooth Muscle K + Channels. FASEB Journal, 2015, 29, 637.4.	0.5	2
38	Distinct Signaling Functions of Rap1 Isoforms in NO Release From Endothelium. Frontiers in Cell and Developmental Biology, 2021, 9, 687598.	3.7	1
39	Hydrogen peroxide modulates TRPV4â€mediated Ca2+ entry in human coronary artery endothelial cells. FASEB Journal, 2013, 27, 916.3.	0.5	1
40	Prolonged Endothelial Dysfunction in Human Arterioles with SARSâ€CoVâ€2. FASEB Journal, 2021, 35, .	0.5	0
41	Generation and proliferation assessment of HEK293T cells stably expressing Kv1.5 channel with and without regulatory subunits Î²1.1 or Î²1.2. FASEB Journal, 2021, 35, .	0.5	0
42	Role of TRPV4 channels in agonistâ€induced endothelial Ca2+ entry and vasodilation: Evidence from TRPV4â€deficient mice. FASEB Journal, 2008, 22, 1181.4.	0.5	0
43	TRPV4 channel mediates flowâ€induced dilation in mouse small mesenteric arteries. FASEB Journal, 2008, 22, 964.9.	0.5	0
44	Unmasking a role for nitric oxide in acetylcholineâ€induced vasodilation in diseased human coronary arterioles.. FASEB Journal, 2009, 23, .	0.5	0
45	NADPH oxidaseâ€dependent reactive oxygen species are involved in flowâ€induced dilation of human adipose arterioles. FASEB Journal, 2012, 26, 863.3.	0.5	0
46	Blood pressure profile and response to NG â€nitroâ€Lâ€arginine methyl ester challenge in conscious TRPV4â€deficient mice. FASEB Journal, 2012, 26, 1056.9.	0.5	0
47	Differential regulation of oxidant generation and [Ca2+]i mobilization by adenosine A1 and A3 receptors in brain astrocytes. FASEB Journal, 2012, 26, 1137.7.	0.5	0
48	Arachidonic acidâ€induced dilation in human coronary arterioles: role of endothelial TRPV4â€mediated and membrane potentialâ€sensitive Ca2+ entry. FASEB Journal, 2012, 26, .	0.5	0
49	Role of hydrogen peroxide and epoxyeicosatrienoic acids in arachidonic acidâ€induced dilation of human coronary arterioles. FASEB Journal, 2013, 27, 687.12.	0.5	0
50	Angiotensin IIâ€induced impairment of vasodilation in mouse mesenteric arteries: role of endothelial TRPV4 channels. FASEB Journal, 2013, 27, 916.4.	0.5	0
51	Brain astrocyteâ€derived EETs and 20â€HETE elicit opposing actions on calcium movement and KCa channel current activities in astrocytes. FASEB Journal, 2013, 27, 1203.17.	0.5	0
52	Potential role of TRPV4 channels in angiotensin IIâ€induced endothelial dysfunction (696.2). FASEB Journal, 2014, 28, 696.2.	0.5	0
53	Opposing vasomotor roles of TRPV1 and TRPV2 channels in the Human Adipose Microcirculation. FASEB Journal, 2018, 32, .	0.5	0
54	H 2 O 2 Regulates Arachidonic Acidâ€induced TRPV4â€mediated Vasodilation in Human Coronary Arterioles. FASEB Journal, 2018, 32, 846.10.	0.5	0

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55	Mechanisms of TRPV4 channel activation in human arteriolar endothelial cells: A structureâ€activity study with arachidonic acid and analogs. FASEB Journal, 2019, 33, 684.9.	0.5	0
56	NADPH Oxidase 2 and 4 Contribute to Endotheliumâ€Dependent Dilation in Healthy Human Arterioles. FASEB Journal, 2020, 34, 1-1.	0.5	0
57	The Role of Angiotensin 1â€7 in Isolated Human Arterioles with SARSâ€CoVâ€2. FASEB Journal, 2022, 36, .	0.5	0