

# David X Zhang

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4570904/publications.pdf>

Version: 2024-02-01

57  
papers

1,925  
citations

331670

21  
h-index

315739

38  
g-index

59  
all docs

59  
docs citations

59  
times ranked

2724  
citing authors

#	ARTICLE	IF	CITATIONS
1	Prolonged endothelial-dysfunction in human arterioles following infection with SARS-CoV-2. <i>Cardiovascular Research</i> , 2022, 118, 18-19.	3.8	9
2	NADPH oxidase 4 contributes to TRPV4-mediated endothelium-dependent vasodilation in human arterioles by regulating protein phosphorylation of TRPV4 channels. <i>Basic Research in Cardiology</i> , 2022, 117, 24.	5.9	4
3	The Role of Angiotensin 1 $\alpha$ 7 in Isolated Human Arterioles with SARS $\alpha$ CoV $\alpha$ 2. <i>FASEB Journal</i> , 2022, 36, .	0.5	0
4	Inhibiting NADPH Oxidases to Target Vascular and Other Pathologies: An Update on Recent Experimental and Clinical Studies. <i>Biomolecules</i> , 2022, 12, 823.	4.0	12
5	Endothelin $\alpha$ 1 potentiates TRPV1 $\alpha$ -mediated vasoconstriction of human adipose arterioles in a protein kinase C $\alpha$ -dependent manner. <i>British Journal of Pharmacology</i> , 2021, 178, 709-725.	5.4	4
6	Endothelial Rap1 (Ras-Association Proximate 1) Restricts Inflammatory Signaling to Protect From the Progression of Atherosclerosis. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2021, 41, 638-650.	2.4	24
7	Prolonged Endothelial Dysfunction in Human Arterioles with SARS $\alpha$ CoV $\alpha$ 2. <i>FASEB Journal</i> , 2021, 35, .	0.5	0
8	Generation and proliferation assessment of HEK293T cells stably expressing Kv1.5 channel with and without regulatory subunits $\beta$ 1.1 or $\beta$ 1.2. <i>FASEB Journal</i> , 2021, 35, .	0.5	0
9	Distinct Signaling Functions of Rap1 Isoforms in NO Release From Endothelium. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 687598.	3.7	1
10	NADPH Oxidase 2 and 4 Contribute to Endothelium $\alpha$ -Dependent Dilation in Healthy Human Arterioles. <i>FASEB Journal</i> , 2020, 34, 1-1.	0.5	0
11	Myocardin and Kv1 Channels. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2019, 39, 2454-2456.	2.4	2
12	$\langle$ scp>TRPV</scp>4 regulates matrix stiffness and $\langle$ scp>TGF</scp> $\beta$ 1 $\alpha$ -induced epithelial $\alpha$ -mesenchymal transition. <i>Journal of Cellular and Molecular Medicine</i> , 2019, 23, 761-774.	3.6	72
13	Endothelin receptor A and p66Shc regulate spontaneous Ca <sup>2+</sup> oscillations in smooth muscle cells controlling renal arterial spontaneous motion. <i>FASEB Journal</i> , 2019, 33, 2636-2645.	0.5	6
14	Mechanisms of TRPV4 channel activation in human arteriolar endothelial cells: A structure $\alpha$ -activity study with arachidonic acid and analogs. <i>FASEB Journal</i> , 2019, 33, 684.9.	0.5	0
15	Shaker $\alpha$ -related voltage $\alpha$ -gated K <sup>+</sup> channel expression and vasomotor function in human coronary resistance arteries. <i>Microcirculation</i> , 2018, 25, e12431.	1.8	7
16	Opposing vasomotor roles of TRPV1 and TRPV2 channels in the Human Adipose Microcirculation. <i>FASEB Journal</i> , 2018, 32, .	0.5	0
17	H <sub>2</sub> O <sub>2</sub> Regulates Arachidonic Acid $\alpha$ -induced TRPV4 $\alpha$ -mediated Vasodilation in Human Coronary Arterioles. <i>FASEB Journal</i> , 2018, 32, 846.10.	0.5	0
18	TRPV4 ION Channel Is Associated with Scleroderma. <i>Journal of Investigative Dermatology</i> , 2017, 137, 962-965.	0.7	21

#	ARTICLE	IF	CITATIONS
19	TRPV4 ion channel is a novel regulator of dermal myofibroblast differentiation. American Journal of Physiology - Cell Physiology, 2017, 312, C562-C572.	4.6	52
20	Contribution of K <sup>v</sup> 1.5 Channel to Hydrogen Peroxide-Induced Human Arteriolar Dilation and Its Modulation by Coronary Artery Disease. Circulation Research, 2017, 120, 658-669.	4.5	43
21	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
22	A novel TRPV4-specific agonist inhibits monocyte adhesion and atherosclerosis. Oncotarget, 2016, 7, 37622-37635.	1.8	63
23	Expression of CYP 4A hydroxylase and formation of 20-hydroxyeicosatetraenoic acid (20-HETE) in cultured rat brain astrocytes. Prostaglandins and Other Lipid Mediators, 2016, 124, 16-26.	1.9	24
24	Chronic Co-Administration of Sepsia and L-Nitroarginine Ameliorates Diabetic Cardiomyopathy and Myocardial Ischemia/Reperfusion Injury in Obese Type 2 Diabetic Mice. Circulation: Heart Failure, 2016, 9, e002424.	3.9	48
25	Rap1 promotes endothelial mechanosensing complex formation, NO release and normal endothelial function. EMBO Reports, 2015, 16, 628-637.	4.5	42
26	H <sub>2</sub> O <sub>2</sub> -Induced Dilation in Human Adipose Arterioles: Role of Smooth Muscle K <sup>+</sup> Channels. FASEB Journal, 2015, 29, 637.4.	0.5	2
27	Characterization of blood pressure and endothelial function in TRPV4-deficient mice with L-NAME- and angiotensin II-induced hypertension. Physiological Reports, 2014, 2, e00199.	1.7	35
28	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
29	Potential role of TRPV4 channels in angiotensin II-induced endothelial dysfunction (696.2). FASEB Journal, 2014, 28, 696.2.	0.5	0
30	Role of hydrogen peroxide and epoxyeicosatrienoic acids in arachidonic acid-induced dilation of human coronary arterioles. FASEB Journal, 2013, 27, 687.12.	0.5	0
31	Angiotensin II-induced impairment of vasodilation in mouse mesenteric arteries: role of endothelial TRPV4 channels. FASEB Journal, 2013, 27, 916.4.	0.5	0
32	Hydrogen peroxide modulates TRPV4-mediated Ca <sup>2+</sup> entry in human coronary artery endothelial cells. FASEB Journal, 2013, 27, 916.3.	0.5	1
33	Brain astrocyte-derived EETs and 20-HETE elicit opposing actions on calcium movement and K <sup>+</sup> channel current activities in astrocytes. FASEB Journal, 2013, 27, 1203.17.	0.5	0
34	H <sub>2</sub> O <sub>2</sub> -Induced Dilation in Human Coronary Arterioles: Role of Protein Kinase G Dimerization and Large-Conductance Ca <sup>2+</sup> -Activated K <sup>+</sup> Channel Activation. Circulation Research, 2012, 110, 471-480.	4.5	143
35	NADPH oxidase-dependent reactive oxygen species are involved in flow-induced dilation of human adipose arterioles. FASEB Journal, 2012, 26, 863.3.	0.5	0
36	Blood pressure profile and response to NG-nitro-L-arginine methyl ester challenge in conscious TRPV4-deficient mice. FASEB Journal, 2012, 26, 1056.9.	0.5	0

#	ARTICLE	IF	CITATIONS
37	Differential regulation of oxidant generation and [Ca <sup>2+</sup> ] <sub>i</sub> mobilization by adenosine A1 and A3 receptors in brain astrocytes. <i>FASEB Journal</i> , 2012, 26, 1137-7.	0.5	0
38	Arachidonic acid-induced dilation in human coronary arterioles: role of endothelial TRPV4-mediated and membrane potential-sensitive Ca <sup>2+</sup> entry. <i>FASEB Journal</i> , 2012, 26, .	0.5	0
39	Transient Receptor Potential Channel Activation and Endothelium-dependent Dilation in the Systemic Circulation. <i>Journal of Cardiovascular Pharmacology</i> , 2011, 57, 133-139.	1.9	71
40	Transient Receptor Potential Vanilloid Type 4-deficient Mice Exhibit Impaired Endothelium-Dependent Relaxation Induced by Acetylcholine In Vitro and In Vivo. <i>Hypertension</i> , 2009, 53, 532-538.	2.7	170
41	Unmasking a role for nitric oxide in acetylcholine-induced vasodilation in diseased human coronary arterioles.. <i>FASEB Journal</i> , 2009, 23, .	0.5	0
42	Role of TRPV4 channels in agonist-induced endothelial Ca <sup>2+</sup> entry and vasodilation: Evidence from TRPV4-deficient mice. <i>FASEB Journal</i> , 2008, 22, 1181.4.	0.5	0
43	TRPV4 channel mediates flow-induced dilation in mouse small mesenteric arteries. <i>FASEB Journal</i> , 2008, 22, 964.9.	0.5	0
44	Steroid-Producing Cells Regulate Arterial Tone of Adrenal Cortical Arteries. <i>Endocrinology</i> , 2007, 148, 3569-3576.	2.8	15
45	Mitochondrial reactive oxygen species-mediated signaling in endothelial cells. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2007, 292, H2023-H2031.	3.2	353
46	ACh-induced relaxations of rabbit small mesenteric arteries: role of arachidonic acid metabolites and K <sup>+</sup> . <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2007, 293, H152-H159.	3.2	26
47	Cyclooxygenase- and lipoxygenase-dependent relaxation to arachidonic acid in rabbit small mesenteric arteries. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2005, 288, H302-H309.	3.2	24
48	Mechanisms of histamine-induced relaxation in bovine small adrenal cortical arteries. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2005, 289, E1058-E1063.	3.5	8
49	Characterization of Vasoconstrictor Responses in Small Bovine Adrenal Cortical Arteries in Vitro. <i>Endocrinology</i> , 2004, 145, 1571-1578.	2.8	15
50	Acetylcholine-Induced Relaxation and Hyperpolarization in Small Bovine Adrenal Cortical Arteries: Role of Cytochrome P450 Metabolites. <i>Endocrinology</i> , 2004, 145, 4532-4539.	2.8	11
51	Ceramide-induced activation of NADPH oxidase and endothelial dysfunction in small coronary arteries. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2003, 284, H605-H612.	3.2	101
52	Calcium-Induced Calcium Release and Cyclic ADP-Ribose-Mediated Signaling in the Myocytes from Small Coronary Arteries. <i>Microvascular Research</i> , 2002, 64, 339-348.	2.5	11
53	Role of ceramide in TNF- $\alpha$ -induced impairment of endothelium-dependent vasorelaxation in coronary arteries. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2002, 283, H1785-H1794.	3.2	67
54	Production and metabolism of ceramide in normal and ischemic-reperfused myocardium of rats. <i>Basic Research in Cardiology</i> , 2001, 96, 267-274.	5.9	81

#	ARTICLE	IF	CITATIONS
55	Characteristics and Superoxide-Induced Activation of Reconstituted Myocardial Mitochondrial ATP-Sensitive Potassium Channels. <i>Circulation Research</i> , 2001, 89, 1177-1183.	4.5	185
56	Ceramide Reduces Endothelium-Dependent Vasodilation by Increasing Superoxide Production in Small Bovine Coronary Arteries. <i>Circulation Research</i> , 2001, 88, 824-831.	4.5	75
57	Effect of Ceramide on K <sup>+</sup> Ca Channel Activity and Vascular Tone in Coronary Arteries. <i>Hypertension</i> , 1999, 33, 1441-1446.	2.7	47