Guiling Zhao

List of Publications by Year
in descending order

37 papers	949 citations	516710 16 h-index	552781 26 g-index
41 all docs	41 docs citations	41 times ranked	1178 citing authors

#	Article	IF	Citations
1	IP ₃ Constricts Cerebral Arteries via IP ₃ Receptorâ€"Mediated TRPC3 Channel Activation and Independently of Sarcoplasmic Reticulum Ca ²⁺ Release. Circulation Research, 2008, 102, 1118-1126.	4.5	107
2	Imaging Microdomain Ca 2+ in Muscle Cells. Circulation Research, 2004, 94, 1011-1022.	4.5	80
3	Isoform-Selective Physical Coupling of TRPC3 Channels to IP ₃ Receptors in Smooth Muscle Cells Regulates Arterial Contractility. Circulation Research, 2010, 106, 1603-1612.	4.5	77
4	Smooth Muscle Cell Î± ₂ Î´-1 Subunits Are Essential for Vasoregulation by Ca _V 1.2 Channels. Circulation Research, 2009, 105, 948-955.	4.5	71
5	Type 1 IP3 receptors activate BKCa channels via local molecular coupling in arterial smooth muscle cells. Journal of General Physiology, 2010, 136, 283-291.	1.9	55
6	STIM1 enhances SR Ca ²⁺ content through binding phospholamban in rat ventricular myocytes. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E4792-801.	7.1	55
7	IP3 receptors regulate vascular smooth muscle contractility and hypertension. JCI Insight, 2016, 1, e89402.	5.0	52
8	Hypersensitivity of BK _{Ca} to Ca ²⁺ Sparks Underlies Hyporeactivity of Arterial Smooth Muscle in Shock. Circulation Research, 2007, 101, 493-502.	4.5	48
9	STIM1â€"Ca ²⁺ signaling modulates automaticity of the mouse sinoatrial node. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E5618-27.	7.1	47
10	Type 1 inositol 1,4,5-trisphosphate receptors mediate UTP-induced cation currents, Ca²⁺signals, and vasoconstriction in cerebral arteries. American Journal of Physiology - Cell Physiology, 2008, 295, C1376-C1384.	4.6	46
11	Dynamics of the mitochondrial permeability transition pore: Transient and permanent opening events. Archives of Biochemistry and Biophysics, 2019, 666, 31-39.	3.0	46
12	ATP- and voltage-dependent electro-metabolic signaling regulates blood flow in heart. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 7461-7470.	7.1	44
13	New Approach to Treatment of Shock???Restitution of Vasoreactivity. Shock, 2002, 18, 189-192.	2.1	38
14	Caveolin-1 abolishment attenuates the myogenic response in murine cerebral arteries. American Journal of Physiology - Heart and Circulatory Physiology, 2007, 292, H1584-H1592.	3.2	38
15	From multi-target anticoagulants to DOACs, and intrinsic coagulation factor inhibitors. Blood Reviews, 2020, 39, 100615.	5.7	35
16	Glutamate regulates Ca2+ signals in smooth muscle cells of newborn piglet brain slice arterioles through astrocyte- and heme oxygenase-dependent mechanisms. American Journal of Physiology - Heart and Circulatory Physiology, 2010, 298, H562-H569.	3.2	30
17	Calcium mobilization is required for peroxynitrite-mediated enhancement of spontaneous transient outward currents in arteriolar smooth muscle cells. Free Radical Biology and Medicine, 2004, 37, 823-838.	2.9	16
18	Hypoxia reduces KCa channel activity by inducing Ca2+ spark uncoupling in cerebral artery smooth muscle cells. American Journal of Physiology - Cell Physiology, 2007, 292, C2122-C2128.	4.6	14

#	Article	IF	Citations
19	Generation of<i>Kcnma1</i>^{<i>fl</i>}<i>-tdTomato</i>, a conditional deletion of the BK channel<i>Î±</i>subunit in mouse. Physiological Reports, 2015, 3, e12612.	1.7	14
20	Peroxynitrite induces arteriolar smooth muscle cells membrane hyperpolarization with arteriolar hyporeactivity in rats. Life Sciences, 2004, 74, 1199-1210.	4.3	11
21	Mobilization of intracellular calcium by peroxynitrite in arteriolar smooth muscle cells from rats. Redox Report, 2004, 9, 49-55.	4.5	10
22	The surprising complexity of KATP channel biology and of genetic diseases. Journal of Clinical Investigation, 2020, 130, 1112-1115.	8.2	7
23	Dynamic Measurement and Imaging of Capillaries, Arterioles, and Pericytes in Mouse Heart. Journal of Visualized Experiments, 2020, , .	0.3	3
24	Superresolution Subspace Signaling. Science, 2012, 336, 546-547.	12.6	2
25	Blood Flow Control by ATP-Sensitive Potassium Channel in Heart. Biophysical Journal, 2019, 116, 31a-32a.	0.5	2
26	Isoform-Selective Physical Coupling of TRPC3 Channels to IP3 Receptors in Smooth Muscle Cells Regulates Arterial Contractility. Biophysical Journal, 2010, 98, 343a.	0.5	0
27	Cylic AMP Measured with ICUE3 in Vascular Smooth Muscle Cells. Biophysical Journal, 2010, 98, 101a.	0.5	0
28	STIM1 in Rat Ventricular Myocytes. Biophysical Journal, 2011, 100, 196a.	0.5	0
29	STIM1 Induces Ca2+ and Membrane Potential Oscillations Independent of SOCE in Rat Ventricular Myocytes. Biophysical Journal, 2013, 104, 100a.	0.5	0
30	STIM1 Enhances SR Ca2+ Refilling through Activating SERCA2a in Rat Ventricular Myocytes. Biophysical Journal, 2014, 106, 129a.	0.5	0
31	The Function of Stromal Interaction Molecule 1 (STIM1) in Heart. Biophysical Journal, 2016, 110, 360a.	0.5	0
32	Dynamic Blood Flow Control in Heart. Biophysical Journal, 2017, 112, 36a.	0.5	0
33	Hypoxia inhibits transients KCa currents to limit cerebral artery dilation. FASEB Journal, 2006, 20, A304.	0.5	0
34	Caveolinâ€1 ablation induces functional K Ca channel activation and attenuates the myogenic response in cerebral arteries. FASEB Journal, 2007, 21, A521.	0.5	0
35	Essential role for inositol 1,4,5â€trisphosphate receptor 1 (IP3R1) in UTPâ€induced Ca2+ signal and diameter regulation in rat cerebral arteries. FASEB Journal, 2008, 22, 1208.5.	0.5	0
36	Dynamic blood flow control by ATPâ€sensitive K + channel in heart. FASEB Journal, 2018, 32, 843.24.	0.5	0

#	Article	IF	Citations
37	Blood Flow Control of the Microcirculation by K_{ATP} Channels in Ventricular Myocytes. FASEB Journal, 2020, 34, 1-1.	0.5	0