

Thomas A Longden

List of Publications by Year in descending order

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Version: 2024-02-01

26
papers

1,280
citations

516710

16
h-index

580821

25
g-index

29
all docs

29
docs citations

29
times ranked

1377
citing authors

#	ARTICLE	IF	CITATIONS
1	Capillary K ⁺ -sensing initiates retrograde hyperpolarization to increase local cerebral blood flow. <i>Nature Neuroscience</i> , 2017, 20, 717-726.	14.8	364
2	Vascular Inward Rectifier K ⁺ Channels as External K ⁺ Sensors in the Control of Cerebral Blood Flow. <i>Microcirculation</i> , 2015, 22, 183-196.	1.8	113
3	Ion channel networks in the control of cerebral blood flow. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2016, 36, 492-512.	4.3	108
4	PIP2 depletion promotes TRPV4 channel activity in mouse brain capillary endothelial cells. <i>ELife</i> , 2018, 7, .	6.0	104
5	Stress-induced glucocorticoid signaling remodels neurovascular coupling through impairment of cerebrovascular inwardly rectifying K ⁺ channel function. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 7462-7467.	7.1	69
6	Endothelial GqPCR activity controls capillary electrical signaling and brain blood flow through PIP ₂ depletion. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E3569-E3577.	7.1	67
7	Dysfunction of Mouse Cerebral Arteries during Early Aging. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2015, 35, 1445-1453.	4.3	66
8	Traumatic Brain Injury Disrupts Cerebrovascular Tone Through Endothelial Inducible Nitric Oxide Synthase Expression and Nitric Oxide Gain of Function. <i>Journal of the American Heart Association</i> , 2014, 3, e001474.	3.7	49
9	Local IP ₃ receptor-mediated Ca ²⁺ signals compound to direct blood flow in brain capillaries. <i>Science Advances</i> , 2021, 7, .	10.3	46
10	PIP ₂ corrects cerebral blood flow deficits in small vessel disease by rescuing capillary Kir2.1 activity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	45
11	The capillary Kir channel as sensor and amplifier of neuronal signals: Modeling insights on K ⁺ -mediated neurovascular communication. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 16626-16637.	7.1	44
12	Intermediate-conductance calcium-activated potassium channels participate in neurovascular coupling. <i>British Journal of Pharmacology</i> , 2011, 164, 922-933.	5.4	35
13	The Ion Channel and GPCR Toolkit of Brain Capillary Pericytes. <i>Frontiers in Cellular Neuroscience</i> , 2020, 14, 601324.	3.7	33
14	Differential restoration of functional hyperemia by antihypertensive drug classes in hypertension-related cerebral small vessel disease. <i>Journal of Clinical Investigation</i> , 2021, 131, .	8.2	27
15	Vascular control of the CO ₂ /H ⁺ -dependent drive to breathe. <i>ELife</i> , 2020, 9, .	6.0	23
16	Uncoupling of neurovascular communication after transient global cerebral ischemia is caused by impaired parenchymal smooth muscle Kir channel function. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2016, 36, 1195-1201.	4.3	22
17	Impaired capillary-to-arteriolar electrical signaling after traumatic brain injury. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2021, 41, 1313-1327.	4.3	15
18	Inhibition of vascular smooth muscle inward-rectifier K ⁺ channels restores myogenic tone in mouse urinary bladder arterioles. <i>American Journal of Physiology - Renal Physiology</i> , 2017, 312, F836-F847.	2.7	13

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19	Ion channels in capillary endothelium. <i>Current Topics in Membranes</i> , 2020, 85, 261-300.	0.9	12
20	Prostaglandin E2 Dilates Intracerebral Arterioles When Applied to Capillaries: Implications for Small Vessel Diseases. <i>Frontiers in Aging Neuroscience</i> , 2021, 13, 695965.	3.4	11
21	Endothelial signaling and the dynamic regulation of arterial tone: A surreptitious relationship. <i>Microcirculation</i> , 2017, 24, e12370.	1.8	3
22	Neural activity drives dynamic Ca ²⁺ signals in capillary endothelial cells that shape local brain blood flow. <i>FASEB Journal</i> , 2019, 33, 688.8.	0.5	3
23	Channeling stress. <i>Channels</i> , 2014, 8, 296-297.	2.8	2
24	Pathologically Entangled: Brain Trauma-Evoked ROS Imbalance Disrupts Kir Channel Function in Distant Peripheral Vessels. <i>Function</i> , 2021, 2, zqab021.	2.3	1
25	Unique Ion Channel Properties of Brain Capillary Endothelial Cells. <i>FASEB Journal</i> , 2015, 29, 832.9.	0.5	1
26	Impairment of Neurovascular Coupling by Chronic Stress. <i>FASEB Journal</i> , 2013, 27, 925.9.	0.5	0