

# 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	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
2	Pathologically Entangled: Brain Trauma-Evoked ROS Imbalance Disrupts Kir Channel Function in Distant Peripheral Vessels. <i>Function</i> , 2021, 2, zqab021.	2.3	1
3	PIP <sub>2</sub> 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
4	Local IP <sub>3</sub> receptor-mediated Ca <sup>2+</sup> signals compound to direct blood flow in brain capillaries. <i>Science Advances</i> , 2021, 7, .	10.3	46
5	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
6	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
7	The Ion Channel and GPCR Toolkit of Brain Capillary Pericytes. <i>Frontiers in Cellular Neuroscience</i> , 2020, 14, 601324.	3.7	33
8	Ion channels in capillary endothelium. <i>Current Topics in Membranes</i> , 2020, 85, 261-300.	0.9	12
9	The capillary Kir channel as sensor and amplifier of neuronal signals: Modeling insights on K <sup>+</sup> -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
10	Vascular control of the CO <sub>2</sub> /H <sup>+</sup> -dependent drive to breathe. <i>ELife</i> , 2020, 9, .	6.0	23
11	Neural activity drives dynamic Ca <sup>2+</sup> signals in capillary endothelial cells that shape local brain blood flow. <i>FASEB Journal</i> , 2019, 33, 688.8.	0.5	3
12	Endothelial GqPCR activity controls capillary electrical signaling and brain blood flow through PIP <sub>2</sub> depletion. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E3569-E3577.	7.1	67
13	PIP <sub>2</sub> depletion promotes TRPV4 channel activity in mouse brain capillary endothelial cells. <i>ELife</i> , 2018, 7, .	6.0	104
14	Inhibition of vascular smooth muscle inward-rectifier K <sup>+</sup> channels restores myogenic tone in mouse urinary bladder arterioles. <i>American Journal of Physiology - Renal Physiology</i> , 2017, 312, F836-F847.	2.7	13
15	Capillary K <sup>+</sup> -sensing initiates retrograde hyperpolarization to increase local cerebral blood flow. <i>Nature Neuroscience</i> , 2017, 20, 717-726.	14.8	364
16	Endothelial signaling and the dynamic regulation of arterial tone: A surreptitious relationship. <i>Microcirculation</i> , 2017, 24, e12370.	1.8	3
17	Uncoupling of neurovascular communication after transient global cerebral ischemia is caused by impaired parenchymal smooth muscle K <sub>ir</sub> channel function. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2016, 36, 1195-1201.	4.3	22
18	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

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19	Vascular Inward Rectifier K <sup>+</sup> Channels as External K <sup>+</sup> Sensors in the Control of Cerebral Blood Flow. <i>Microcirculation</i> , 2015, 22, 183-196.	1.8	113
20	Dysfunction of Mouse Cerebral Arteries during Early Aging. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2015, 35, 1445-1453.	4.3	66
21	Unique Ion Channel Properties of Brain Capillary Endothelial Cells. <i>FASEB Journal</i> , 2015, 29, 832.9.	0.5	1
22	Stress-induced glucocorticoid signaling remodels neurovascular coupling through impairment of cerebrovascular inwardly rectifying K <sup>+</sup> channel function. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 7462-7467.	7.1	69
23	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
24	Channeling stress. <i>Channels</i> , 2014, 8, 296-297.	2.8	2
25	Impairment of Neurovascular Coupling by Chronic Stress. <i>FASEB Journal</i> , 2013, 27, 925.9.	0.5	0
26	Intermediate-conductance calcium-activated potassium channels participate in neurovascular coupling. <i>British Journal of Pharmacology</i> , 2011, 164, 922-933.	5.4	35