

Alexander A Mongin

List of Publications by Year in descending order

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54
papers

2,455
citations

172457

29
h-index

206112

48
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all docs

58
docs citations

58
times ranked

2619
citing authors

#	ARTICLE	IF	CITATIONS
1	STIM1 and Orai1 mediate CRAC channel activity and are essential for human glioblastoma invasion. Pflugers Archiv European Journal of Physiology, 2013, 465, 1249-1260.	2.8	157
2	Pharmacological comparison of swelling-activated excitatory amino acid release and Cl ⁻ currents in cultured rat astrocytes. Journal of Physiology, 2006, 572, 677-689.	2.9	114
3	Mechanisms of cell volume regulation and possible nature of the cell volume sensor. Pathophysiology, 2001, 8, 77-88.	2.2	110
4	ATP potently modulates anion channel-mediated excitatory amino acid release from cultured astrocytes. American Journal of Physiology - Cell Physiology, 2002, 283, C569-C578.	4.6	109
5	LRR8A protein is indispensable for swelling-activated and ATP-induced release of excitatory amino acids in rat astrocytes. Journal of Physiology, 2014, 592, 4855-4862.	2.9	106
6	ATP regulates anion channel-mediated organic osmolyte release from cultured rat astrocytes via multiple Ca ²⁺ -sensitive mechanisms. American Journal of Physiology - Cell Physiology, 2005, 288, C204-C213.	4.6	103
7	Activation of microglia with zymosan promotes excitatory amino acid release via volume-regulated anion channels: the role of NADPH oxidases. Journal of Neurochemistry, 2008, 106, 2449-2462.	3.9	94
8	Salt-sensing mechanisms in blood pressure regulation and hypertension. American Journal of Physiology - Heart and Circulatory Physiology, 2007, 293, H2039-H2053.	3.2	89
9	Enhanced GLT-1 mediated glutamate uptake and migration of primary astrocytes directed by fibronectin-coated electrospun poly-l-lactic acid fibers. Biomaterials, 2014, 35, 1439-1449.	11.4	85
10	Volume-regulated anion channel—a frenemy within the brain. Pflugers Archiv European Journal of Physiology, 2016, 468, 421-441.	2.8	84
11	Molecular composition and heterogeneity of the LRR8A-containing swelling-activated osmolyte channels in primary rat astrocytes. Journal of Physiology, 2017, 595, 6939-6951.	2.9	82
12	Disruption of ionic and cell volume homeostasis in cerebral ischemia: The perfect storm. Pathophysiology, 2007, 14, 183-193.	2.2	80
13	Calcium-Activated Potassium Channels BK and IK1 Are Functionally Expressed in Human Gliomas but Do Not Regulate Cell Proliferation. PLoS ONE, 2010, 5, e12304.	2.5	71
14	DCPIB, the Proposed Selective Blocker of Volume-Regulated Anion Channels, Inhibits Several Glutamate Transport Pathways in Glial Cells. Molecular Pharmacology, 2013, 83, 22-32.	2.3	67
15	Volume-dependent taurine release from cultured astrocytes requires permissive [Ca ²⁺] _i and calmodulin. American Journal of Physiology - Cell Physiology, 1999, 277, C823-C832.	4.6	63
16	Tamoxifen inhibits nitrotyrosine formation after reversible middle cerebral artery occlusion in the rat. Journal of Neurochemistry, 2001, 76, 1842-1850.	3.9	63
17	[³ H]taurine and [³ H]aspartate release from astrocyte cultures are differently regulated by tyrosine kinases. American Journal of Physiology - Cell Physiology, 1999, 276, C1226-C1230.	4.6	61
18	Two Distinct Modes of Hypoosmotic Medium-Induced Release of Excitatory Amino Acids and Taurine in the Rat Brain In Vivo. PLoS ONE, 2008, 3, e3543.	2.5	59

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19	Swelling-Activated Release of Excitatory Amino Acids in the Brain: Relevance for Pathophysiology. , 1998, 123, 240-257.		58
20	The neuroprotective properties of the superoxide dismutase mimetic tempol correlate with its ability to reduce pathological glutamate release in a rodent model of stroke. <i>Free Radical Biology and Medicine</i> , 2014, 77, 168-182.	2.9	57
21	Cell Volume Control in Healthy Brain and Neuropathologies. <i>Current Topics in Membranes</i> , 2018, 81, 385-455.	0.9	52
22	Air-Stimulated ATP Release from Keratinocytes Occurs through Connexin Hemichannels. <i>PLoS ONE</i> , 2013, 8, e56744.	2.5	50
23	The signaling role for chloride in the bidirectional communication between neurons and astrocytes. <i>Neuroscience Letters</i> , 2019, 689, 33-44.	2.1	49
24	Hydrogen Peroxide Potentiates Volume-sensitive Excitatory Amino Acid Release via a Mechanism Involving Ca ²⁺ /Calmodulin-dependent Protein Kinase II*. <i>Journal of Biological Chemistry</i> , 2005, 280, 3548-3554.	3.4	44
25	Peroxynitrite enhances astrocytic volume-sensitive excitatory amino acid release via a src tyrosine kinase-dependent mechanism. <i>Journal of Neurochemistry</i> , 2002, 82, 903-912.	3.9	38
26	AMPA-Kainate Receptor Inhibition Promotes Neurologic Recovery in Premature Rabbits with Intraventricular Hemorrhage. <i>Journal of Neuroscience</i> , 2016, 36, 3363-3377.	3.6	38
27	Two conventional protein kinase C isoforms, $\hat{1}\pm$ and $\hat{1}^2\text{I}$, are involved in the ATP-induced activation of volume-regulated anion channel and glutamate release in cultured astrocytes. <i>Journal of Neurochemistry</i> , 2008, 105, 2260-2270.	3.9	37
28	Kinetics and peculiarities of thermal inactivation of volume-induced Na ⁺ /H ⁺ exchange, Na ⁺ , K ⁺ , 2Cl ⁻ cotransport and K ⁺ , Cl ⁻ cotransport in rat erythrocytes. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1993, 1151, 186-192.	2.6	33
29	Swelling-induced K ⁺ influx in cultured primary astrocytes. <i>Brain Research</i> , 1994, 655, 110-114.	2.2	33
30	Critical role of the $\hat{1}\pm$ 1-Na ⁺ , K ⁺ -ATPase subunit in insensitivity of rodent cells to cytotoxic action of ouabain. <i>Apoptosis: an International Journal on Programmed Cell Death</i> , 2015, 20, 1200-1210.	4.9	33
31	Downregulation of Leucine-Rich Repeat-Containing 8A Limits Proliferation and Increases Sensitivity of Glioblastoma to Temozolomide and Carmustine. <i>Frontiers in Oncology</i> , 2018, 8, 142.	2.8	29
32	Intracellular ATP depletion inhibits swelling-induced d-[3H]aspartate release from primary astrocyte cultures. <i>Brain Research</i> , 1999, 842, 39-45.	2.2	27
33	Long-lasting inhibition of presynaptic metabolism and neurotransmitter release by protein S-nitrosylation. <i>Free Radical Biology and Medicine</i> , 2010, 49, 757-769.	2.9	27
34	TRAM-34, a Putatively Selective Blocker of Intermediate-Conductance, Calcium-Activated Potassium Channels, Inhibits Cytochrome P450 Activity. <i>PLoS ONE</i> , 2013, 8, e63028.	2.5	26
35	Hypo-osmotic swelling modifies glutamate-glutamine cycle in the cerebral cortex and in astrocyte cultures. <i>Journal of Neurochemistry</i> , 2011, 118, 140-152.	3.9	23
36	Swelling-induced activation of Na ⁺ ,K ⁺ ,2Cl ⁻ cotransport in C6 glioma cells: kinetic properties and intracellular signalling mechanisms. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1996, 1285, 229-236.	2.6	22

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37	A simple method for measuring intracellular activities of glutamine synthetase and glutaminase in glial cells. <i>American Journal of Physiology - Cell Physiology</i> , 2011, 301, C814-C822.	4.6	21
38	Metabolic constraints of swelling-activated glutamate release in astrocytes and their implication for ischemic tissue damage. <i>Journal of Neurochemistry</i> , 2019, 151, 255-272.	3.9	21
39	Recombinant Adeno-Associated Virus Serotype 6 (rAAV6) Potently and Preferentially Transduces Rat Astrocytes In vitro and In vivo. <i>Frontiers in Cellular Neuroscience</i> , 2016, 10, 262.	3.7	19
40	Selective Vulnerability of Synaptic Signaling and Metabolism to Nitrosative Stress. <i>Antioxidants and Redox Signaling</i> , 2012, 17, 992-1012.	5.4	17
41	Hypoosmotic shock activates Ca ²⁺ channels in isolated nerve terminals. <i>Neurochemistry International</i> , 1997, 31, 835-843.	3.8	16
42	Osmotic regulation of sodium pump in rat brain synaptosomes: the role of cytoplasmic sodium. <i>Brain Research</i> , 1994, 644, 1-6.	2.2	12
43	xCT/SLC7A11 antiporter function inhibits HIV-1 infection. <i>Virology</i> , 2021, 556, 149-160.	2.4	10
44	Late adolescence mortality in mice with brain-specific deletion of the volume-regulated anion channel subunit LRRC8A. <i>FASEB Journal</i> , 2021, 35, e21869.	0.5	10
45	Astrocytic Swelling in Neuropathology. , 2004, , 550-562.		10
46	Activation of P2Y receptors causes strong and persistent shrinkage of C11-MDCK renal epithelial cells. <i>American Journal of Physiology - Cell Physiology</i> , 2011, 301, C403-C412.	4.6	9
47	Intracellular levels of glutamate in swollen astrocytes are preserved via neurotransmitter reuptake and <i>de novo</i> synthesis: implications for hyponatremia. <i>Journal of Neurochemistry</i> , 2015, 135, 176-185.	3.9	9
48	Is autocrine ATP release required for activation of volume-sensitive chloride channels?. <i>Journal of Neurophysiology</i> , 2003, 90, 2791-2793.	1.8	8
49	Effects of alternative splicing on the function of bestrophin-1 calcium-activated chloride channels. <i>Biochemical Journal</i> , 2014, 458, 575-583.	3.7	7
50	Nitric Oxide May Contribute to the Long-Term Impairment of Synaptic Transmission After Transient Ischemia. <i>Stroke</i> , 2002, 33, 2348-2350.	2.0	5
51	<i>Potential link between cysteinyl-leukotriene receptors and release of bioactive amino acids in regulation of lung function</i> . Focus on "Volume-sensitive release of organic osmolytes in the human lung epithelial cell line A549: role of the 5-lipoxygenase". <i>American Journal of Physiology - Cell Physiology</i> , 2013, 305, C24-C25.	4.6	3
52	Editorial: Ion and Water Transport in Cell Death. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 757033.	3.7	1
53	Regulation of Cell Volume in Neural Cells. , 2009, , 81-87.		1
54	Neuroprotective properties of antioxidants in stroke correlate with their effects on ischemic release of glutamate. <i>FASEB Journal</i> , 2013, 27, 1142.9.	0.5	0