Sergei M Antonov

List of Publications by Year
in descending order

34 papers	912 citations	430874 18 h-index	454955 30 g-index
36 all docs	36 docs citations	36 times ranked	1101 citing authors

#	Article	IF	Citations
1	Effects of Lithium and Selective Inhibitors of Sodium-Calcium Exchanger on Its Transport Currents in Neurons and HEK293 Cells. Biochemistry (Moscow) Supplement Series A: Membrane and Cell Biology, 2022, 16, 29-37.	0.6	0
2	The Role of Ryanodine and IP3-receptors in Calcium Responses to Tricyclic Antidepressants in Rat Neocortical Neurons. Journal of Evolutionary Biochemistry and Physiology, 2021, 57, 694-703.	0.6	0
3	Tricyclic Antidepressant Structure-Related Alterations in Calcium-Dependent Inhibition and Open-Channel Block of NMDA Receptors. Frontiers in Pharmacology, 2021, 12, 815368.	3.5	7
4	Ethanol inhibition of NMDA receptors in calcium-dependent and â€“independent modes. Biochemical and Biophysical Research Communications, 2020, 522, 1046-1051.	2.1	9
5	Calcium Export from Neurons and Multi-Kinase Signaling Cascades Contribute to Ouabain Neuroprotection in Hyperhomocysteinemia. Biomolecules, 2020, 10, 1104.	4.0	7
6	GluN2 Subunit-Dependent Redox Modulation of NMDA Receptor Activation by Homocysteine. Biomolecules, 2020, 10, 1441.	4.0	6
7	Dual action of amitriptyline on NMDA receptors: enhancement of Ca-dependent desensitization and trapping channel block. Scientific Reports, 2019, 9, 19454.	3.3	16
8	Developmental Changes of Synaptic and Extrasynaptic NMDA Receptor Expression in Rat Cerebellar Neurons In Vitro. Journal of Molecular Neuroscience, 2018, 64, 300-311.	2.3	9
9	Calcium-Dependent Desensitization of NMDA Receptors. Biochemistry (Moscow), 2018, 83, 1173-1183.	1.5	36
10	Downregulation of calcium-dependent NMDA receptor desensitization by sodium-calcium exchangers: a role of membrane cholesterol. BMC Neuroscience, 2018, 19, 73.	1.9	23
11	High sensitivity of cerebellar neurons to homocysteine is determined by expression of GluN2C and GluN2D subunits of NMDA receptors. Biochemical and Biophysical Research Communications, 2018, 506, 648-652.	2.1	16
12	Pro-nociceptive migraine mediator CGRP provides neuroprotection of sensory, cortical and cerebellar neurons via multi-kinase signaling. Cephalalgia, 2017, 37, 1373-1383.	3.9	25
13	Functional Properties of Human NMDA Receptors Associated with Epilepsy-Related Mutations of GluN2A Subunit. Frontiers in Cellular Neuroscience, 2017, 11, 155.	3.7	31
14	GluN2A Subunit-Containing NMDA Receptors Are the Preferential Neuronal Targets of Homocysteine. Frontiers in Cellular Neuroscience, 2016, 10, 246.	3.7	36
15	Glia and glial polyamines. Role in brain function in health and disease. Biochemistry (Moscow) Supplement Series A: Membrane and Cell Biology, 2016, 10, 73-98.	0.6	18
16	Calcium alterations signal either to senescence or to autophagy induction in stem cells upon oxidative stress. Aging, 2016, 8, 3400-3418.	3.1	75
17	Homocysteine-induced membrane currents, calcium responses and changes in mitochondrial potential in rat cortical neurons. Journal of Evolutionary Biochemistry and Physiology, 2015, 51, 296-304.	0.6	4
18	Inhibition of Plasma Membrane Na/Ca-Exchanger by KB-R7943 or Lithium Reveals Its Role in Ca-Dependent <i>N</i>-methyl-d-aspartate Receptor Inactivation. Journal of Pharmacology and Experimental Therapeutics, 2015, 355, 484-495.	2.5	28

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19	The role of NMDA and mGluR5 receptors in calcium mobilization and neurotoxicity of homocysteine in trigeminal and cortical neurons and glial cells. Journal of Neurochemistry, 2014, 129, 264-274.	3.9	67
20	The effect of SK channel modulators on the simple spike firing frequency in discharge of cerebellar Purkinje cells in laboratory mice. Journal of Evolutionary Biochemistry and Physiology, 2014, 50, 114-120.	0.6	4
21	Kainate-induced calcium overload of cortical neurons in vitro: Dependence on expression of AMPAR GluA2-subunit and down-regulation by subnanomolar ouabain. Cell Calcium, 2013, 54, 95-104.	2.4	31
22	Na⁺,K⁺-ATPase Functionally Interacts with the Plasma Membrane Na⁺,Ca²⁺ Exchanger to Prevent Ca²⁺ Overload and Neuronal Apoptosis in Excitotoxic Stress. Journal of Pharmacology and Experimental Therapeutics, 2012, 343, 596-607.	2.5	65
23	Complex rectification of MÃ¼ller cell Kir currents. Glia, 2008, 56, 775-790.	4.9	27
24	A fluorescence vital assay for the recognition and quantification of excitotoxic cell death by necrosis and apoptosis using confocal microscopy on neurons in culture. Journal of Neuroscience Methods, 2007, 163, 1-8.	2.5	86
25	The glutamate receptor types determining concentrational dependence of its neurotoxic effect on rat cerebral cortex neurons. Journal of Evolutionary Biochemistry and Physiology, 2006, 42, 706-715.	0.6	0
26	Modulation by permeant ions of Mg 2+ inhibition of NMDAâ€activated wholeâ€cell currents in rat cortical neurons. Journal of Physiology, 2002, 538, 65-77.	2.9	33
27	Transporters of Neurotransmitters: Receptive, Transport, and Channel Functions. Journal of Evolutionary Biochemistry and Physiology, 2001, 37, 328-334.	0.6	2
28	Permeant ion regulation of <i>N</i> -methyl- <scp>d</scp> -aspartate receptor channel block by Mg ²⁺. Proceedings of the National Academy of Sciences of the United States of America, 1999, 96, 14571-14576.	7.1	87
29	Binding sites for permeant ions in the channel of NMDA receptors and their effects on channel block. Nature Neuroscience, 1998, 1, 451-461.	14.8	64
30	Identification of two types of excitatory monosynaptic inputs in frog spinal motoneurones. Neuroscience Letters, 1990, 109, 82-87.	2.1	9
31	Argiopine blocks glutamate-activated single-channel currents on crayfish muscle by two mechanisms.. Journal of Physiology, 1989, 419, 569-587.	2.9	27
32	Intense non-quantal release of glutamate in an insect neuromuscular junction. Neuroscience Letters, 1988, 93, 204-208.	2.1	24
33	Argiopin blocks the glutamate responses and sensorimotor transmission in motoneurones of isolated frog spinal cord. Neuroscience Letters, 1987, 83, 179-184.	2.1	35
34	Nutritional and Metabolic Factors, Ethanol and Cholesterol, Interact With Calcium-Dependent N-Methyl-D-Aspartate Receptor Inhibition by Tricyclic Antidepressants. Frontiers in Cellular Neuroscience, 0, 16, .	3.7	2