William D Atchison

List of Publications by Year
in descending order

31 papers	1,006 citations	566801 15 h-index	433756 31 g-index
32 all docs	32 docs citations	32 times ranked	1183 citing authors

#	Article	IF	Citations
1	Mechanisms of methylmercuryâ€induced neurotoxicity. FASEB Journal, 1994, 8, 622-629.	0.2	262
2	The role of environmental mercury, lead and pesticide exposure in development of amyotrophic lateral sclerosis. NeuroToxicology, 2009, 30, 761-765.	1.4	141
3	Effects of Toxic Environmental Contaminants on Voltage-Gated Calcium Channel Function: From Past to Present. Journal of Bioenergetics and Biomembranes, 2003, 35, 507-532.	1.0	64
4	Is chemical neurotransmission altered specifically during methylmercury-induced cerebellar dysfunction?. Trends in Pharmacological Sciences, 2005, 26, 549-557.	4.0	53
5	Nerve membrane sodium channels as the target site of brevetoxins at neuromuscular junctions. British Journal of Pharmacology, 1986, 89, 731-738.	2.7	43
6	Ca2+Channels as Targets of Neurological Disease: Lambertâ€“Eaton Syndrome and Other Ca2+Channelopathies. Journal of Bioenergetics and Biomembranes, 2003, 35, 697-718.	1.0	39
7	Methylmercury Differentially Affects GABA A Receptorâ€Mediated Spontaneous IPSCs in Purkinje and Granule Cells of Rat Cerebellar Slices. Journal of Physiology, 2003, 550, 191-204.	1.3	38
8	Methylmercuryâ€induced Elevations in Intrasynaptosomal Zinc Concentrations: An ¹⁹Fâ€NMR Study. Journal of Neurochemistry, 1994, 63, 383-386.	2.1	31
9	Comparative sensitivity of rat cerebellar neurons to dysregulation of divalent cation homeostasis and cytotoxicity caused by methylmercury. Toxicology and Applied Pharmacology, 2005, 208, 222-232.	1.3	31
10	Passive transfer of Lambertâ€Eaton syndrome to mice induces dihydropyridine sensitivity of neuromuscular transmission. Journal of Physiology, 2002, 543, 567-576.	1.3	28
11	Allethrin Differentially Modulates Voltage-Gated Calcium Channel Subtypes in Rat PC12 Cells. Toxicological Sciences, 2010, 116, 604-613.	1.4	25
12	Continuous exposure to low concentrations of methylmercury impairs cerebellar granule cell migration in organotypic slice culture. NeuroToxicology, 2009, 30, 203-208.	1.4	23
13	Methylmercury Impairs Canonical Dopamine Metabolism in Rat Undifferentiated Pheochromocytoma (PC12) Cells by Indirect Inhibition of Aldehyde Dehydrogenase. Toxicological Sciences, 2015, 144, 347-356.	1.4	23
14	Inwardly Rectifying and Voltage-gated Outward Potassium Channels Exhibit Low Sensitivity to Methylmercury. NeuroToxicology, 2005, 26, 439-454.	1.4	22
15	The NR2B subunit in NMDA receptors is functionally important during cerebellar granule cell migration. Neuroscience Letters, 2007, 429, 87-90.	1.0	21
16	Multiple Sources of Ca²⁺Contribute to Methylmercury-Induced Increased Frequency of Spontaneous Inhibitory Synaptic Responses in Cerebellar Slices of Rat. Toxicological Sciences, 2016, 150, 117-130.	1.4	15
17	Differentiation Between Alterations in Plasma and Mitochondrial Membrane Potentials in Synaptosomes Using a Carbocyanine Dye. Journal of Neurochemistry, 1992, 58, 1321-1329.	2.1	14
18	The Proteins Synaptotagmin and Syntaxin Are Not General Targets of Lambert-Eaton Myasthenic Syndrome Autoantibody. Journal of Neurochemistry, 2002, 64, 1245-1251.	2.1	14

#	Article	IF	Citations
19	Fluid flow-induced increase in inward Ba2+ current expressed in HEK293 cells transiently transfected with human neuronal L-type Ca2+ channels. Brain Research, 2005, 1045, 116-123.	1.1	14
20	Evaluating a Gene-Environment Interaction in Amyotrophic Lateral Sclerosis: Methylmercury Exposure and Mutated SOD1. Current Environmental Health Reports, 2017, 4, 200-207.	3.2	14
21	Effects of methylmercury on spinal cord afferents and efferentsâ€"A review. NeuroToxicology, 2017, 60, 308-320.	1.4	14
22	Acute neurotoxicant exposure induces hyperexcitability in mouse lumbar spinal motor neurons. Journal of Neurophysiology, 2020, 123, 1448-1459.	0.9	14
23	Endplate blocking actions of lophotoxin. British Journal of Pharmacology, 1984, 82, 667-672.	2.7	12
24	Lambertâ€"Eaton syndrome antibodies target multiple subunits of voltageâ€gated Ca²⁺ channels. Muscle and Nerve, 2015, 51, 176-184.	1.0	11
25	Methylmercury-Dependent Increases in Fluo4 Fluorescence in Neonatal Rat Cerebellar Slices Depend on Granule Cell Migrational Stage and GABAA Receptor Modulation. Journal of Pharmacology and Experimental Therapeutics, 2015, 356, 2-12.	1.3	9
26	Morphometric characterization of the neuromuscular junction of rodents intoxicated with 2,4-dithiobiuret: evidence that nerve terminal recycling processes contribute to muscle weakness. Toxicology and Applied Pharmacology, 2004, 196, 266-286.	1.3	8
27	AMPA receptor contribution to methylmercury-mediated alteration of intracellular Ca2+ concentration in human induced pluripotent stem cell motor neurons. NeuroToxicology, 2020, 81, 116-126.	1.4	7
28	Age-Dependent Contribution of P/Q- and R-Type Ca²⁺Channels to Neuromuscular Transmission inLethargicMice. Journal of Pharmacology and Experimental Therapeutics, 2015, 352, 395-404.	1.3	6
29	Bridge to neuroscience workshop: An effective educational tool to introduce principles of neuroscience to Hispanics students. PLoS ONE, 2019, 14, e0225116.	1.1	3
30	Methylmercury induces an initial increase in GABA-evoked currents in Xenopus oocytes expressing Î± 1 and Î± 6 subunit-containing GABA A receptors. NeuroToxicology, 2017, 60, 161-170.	1.4	2
31	Isolation of Ca2+ Channel alpha1A, alpha2, and beta Subunit Segments from Human Spinal Cord RNAa. Annals of the New York Academy of Sciences, 1998, 841, 115-118.	1.8	1