William D Atchison

List of Publications by Year in Descending Order

31 papers	855 citations	15 h-index	29 g-index
32 ext. papers	925 ext. citations	4.8 avg, IF	4.22 L-index

#	Paper	IF	Citations
31	Acute neurotoxicant exposure induces hyperexcitability in mouse lumbar spinal motor neurons. *Journal of Neurophysiology*, **2020**, 123, 1448-1459	3.2	5
30	AMPA receptor contribution to methylmercury-mediated alteration of intracellular Ca concentration in human induced pluripotent stem cell motor neurons. *NeuroToxicology*, **2020**, 81, 116-126	4.4	3
29	Bridge to neuroscience workshop: An effective educational tool to introduce principles of neuroscience to Hispanics students. *PLoS ONE*, **2019**, 14, e0225116	3.7	0
28	Evaluating a Gene-Environment Interaction in Amyotrophic Lateral Sclerosis: Methylmercury Exposure and Mutated SOD1. *Current Environmental Health Reports*, **2017**, 4, 200-207	6.5	9
27	Effects of methylmercury on spinal cord afferents and efferents-A review. *NeuroToxicology*, **2017**, 60, 308-320	4.4	8
26	Methylmercury induces an initial increase in GABA-evoked currents in Xenopus oocytes expressing □and □subunit-containing GABA receptors. *NeuroToxicology*, **2017**, 60, 161-170	4.4	1
25	Multiple Sources of Ca2+ Contribute to Methylmercury-Induced Increased Frequency of Spontaneous Inhibitory Synaptic Responses in Cerebellar Slices of Rat. *Toxicological Sciences*, **2016**, 150, 117-30	4.4	8
24	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*, **2016**, 356, 2-12	4.7	8
23	Methylmercury impairs canonical dopamine metabolism in rat undifferentiated pheochromocytoma (PC12) cells by indirect inhibition of aldehyde dehydrogenase. *Toxicological Sciences*, **2015**, 144, 347-56	4.4	22
22	Age-dependent contribution of P/Q- and R-type Ca2+ channels to neuromuscular transmission in lethargic mice. *Journal of Pharmacology and Experimental Therapeutics*, **2015**, 352, 395-404	4.7	5
21	Lambert-Eaton syndrome antibodies target multiple subunits of voltage-gated Ca2+ channels. *Muscle and Nerve*, **2015**, 51, 176-84	3.4	9
20	Allethrin differentially modulates voltage-gated calcium channel subtypes in rat PC12 cells. *Toxicological Sciences*, **2010**, 116, 604-13	4.4	22
19	Continuous exposure to low concentrations of methylmercury impairs cerebellar granule cell migration in organotypic slice culture. *NeuroToxicology*, **2009**, 30, 203-8	4.4	22
18	The role of environmental mercury, lead and pesticide exposure in development of amyotrophic lateral sclerosis. *NeuroToxicology*, **2009**, 30, 761-5	4.4	119
17	The NR2B subunit in NMDA receptors is functionally important during cerebellar granule cell migration. *Neuroscience Letters*, **2007**, 429, 87-90	3.3	18
16	Inwardly rectifying and voltage-gated outward potassium channels exhibit low sensitivity to methylmercury. *NeuroToxicology*, **2005**, 26, 439-54	4.4	22
15	Is chemical neurotransmission altered specifically during methylmercury-induced cerebellar dysfunction?. *Trends in Pharmacological Sciences*, **2005**, 26, 549-57	13.2	42

14	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, 116-23	3.7	14
13	Comparative sensitivity of rat cerebellar neurons to dysregulation of divalent cation homeostasis and cytotoxicity caused by methylmercury. *Toxicology and Applied Pharmacology*, **2005**, 208, 222-32	4.6	27
12	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, 266-86	4.6	8
11	Effects of toxic environmental contaminants on voltage-gated calcium channel function: from past to present. *Journal of Bioenergetics and Biomembranes*, **2003**, 35, 507-32	3.7	56
10	Ca2+ channels as targets of neurological disease: Lambert-Eaton Syndrome and other Ca2+ channelopathies. *Journal of Bioenergetics and Biomembranes*, **2003**, 35, 697-718	3.7	32
9	Methylmercury differentially affects GABA(A) receptor-mediated spontaneous IPSCs in Purkinje and granule cells of rat cerebellar slices. *Journal of Physiology*, **2003**, 550, 191-204	3.9	31
8	Passive transfer of Lambert-Eaton syndrome to mice induces dihydropyridine sensitivity of neuromuscular transmission. *Journal of Physiology*, **2002**, 543, 567-76	3.9	24
7	Isolation of Ca2+ channel alpha 1A, alpha 2, and beta subunit segments from human spinal cord RNA. *Annals of the New York Academy of Sciences*, **1998**, 841, 115-8	6.5	1
6	The proteins synaptotagmin and syntaxin are not general targets of Lambert-Eaton myasthenic syndrome autoantibody. *Journal of Neurochemistry*, **1995**, 64, 1245-51	6	12
5	Methylmercury-induced elevations in intrasynaptosomal zinc concentrations: an 19F-NMR study. *Journal of Neurochemistry*, **1994**, 63, 383-6	6	24
4	Mechanisms of methylmercury-induced neurotoxicity. *FASEB Journal*, **1994**, 8, 622-9	0.9	242
3	Differentiation between alterations in plasma and mitochondrial membrane potentials in synaptosomes using a carbocyanine dye. *Journal of Neurochemistry*, **1992**, 58, 1321-9	6	13
2	Nerve membrane sodium channels as the target site of brevetoxins at neuromuscular junctions. *British Journal of Pharmacology*, **1986**, 89, 731-8	8.6	35
1	Endplate blocking actions of lophotoxin. *British Journal of Pharmacology*, **1984**, 82, 667-72	8.6	11