Michael Aschner

List of Publications by Citations

673 papers	25,859 citations	83 h-index	131 g-index
798 ext. papers	31,337 ext. citations	4.9 avg, IF	7.55 L-index

#	Paper	IF	Citations
673	Caenorhabditis elegans: an emerging model in biomedical and environmental toxicology. *Toxicological Sciences*, **2008**, 106, 5-28	4.4	686
672	Nutritional aspects of manganese homeostasis. *Molecular Aspects of Medicine*, **2005**, 26, 353-62	16.7	503
671	Manganese: recent advances in understanding its transport and neurotoxicity. *Toxicology and Applied Pharmacology*, **2007**, 221, 131-47	4.6	461
670	Guidelines for the use and interpretation of assays for monitoring autophagy (4th edition). *Autophagy*, **2021**, 17, 1-382	10.2	440
669	Manganese neurotoxicity. *Annals of the New York Academy of Sciences*, **2004**, 1012, 115-28	6.5	365
668	Brain barrier systems: a new frontier in metal neurotoxicological research. *Toxicology and Applied Pharmacology*, **2003**, 192, 1-11	4.6	355
667	Metals, oxidative stress and neurodegeneration: a focus on iron, manganese and mercury. *Neurochemistry International*, **2013**, 62, 575-94	4.4	347
666	Mechanisms of methylmercury-induced neurotoxicity: evidence from experimental studies. *Life Sciences*, **2011**, 89, 555-63	6.8	290
665	Mercury neurotoxicity: mechanisms of blood-brain barrier transport. *Neuroscience and Biobehavioral Reviews*, **1990**, 14, 169-76	9	259
664	Role of manganese in neurodegenerative diseases. *Journal of Trace Elements in Medicine and Biology*, **2011**, 25, 191-203	4.1	249
663	Developmental neuropathology of environmental agents. *Annual Review of Pharmacology and Toxicology*, **2004**, 44, 87-110	17.9	245
662	Oxidative stress in MeHg-induced neurotoxicity. *Toxicology and Applied Pharmacology*, **2011**, 256, 405-17	4.6	240
661	Manganese dosimetry: species differences and implications for neurotoxicity. *Critical Reviews in Toxicology*, **2005**, 35, 1-32	5.7	238
660	Manganese neurotoxicity: cellular effects and blood-brain barrier transport. *Neuroscience and Biobehavioral Reviews*, **1991**, 15, 333-40	9	221
659	Manganese Is Essential for Neuronal Health. *Annual Review of Nutrition*, **2015**, 35, 71-108	9.9	219
658	Zinc and respiratory tract infections: Perspectives for COVID-19 (Review). *International Journal of Molecular Medicine*, **2020**, 46, 17-26	4.4	219
657	Involvement of glutamate and reactive oxygen species in methylmercury neurotoxicity. *Brazilian Journal of Medical and Biological Research*, **2007**, 40, 285-91	2.8	214

656	Manganese and its role in Parkinson disease: from transport to neuropathology. *NeuroMolecular Medicine*, **2009**, 11, 252-66	4.6	213
655	Manganese neurotoxicity and the role of reactive oxygen species. *Free Radical Biology and Medicine* , **2013**, 62, 65-75	7.8	190
654	Manganese transport in eukaryotes: the role of DMT1. *NeuroToxicology*, **2008**, 29, 569-76	4.4	184
653	Methylmercury alters glutamate transport in astrocytes. *Neurochemistry International*, **2000**, 37, 199-206	4.4	182
652	Oxidative damage and neurodegeneration in manganese-induced neurotoxicity. *Toxicology and Applied Pharmacology*, **2009**, 240, 219-25	4.6	179
651	Manganese neurotoxicity: a focus on the neonate **2007**, 113, 369-77		178
650	Manganese-Induced Parkinsonism and Parkinson Disease: Shared and Distinguishable Features. *International Journal of Environmental Research and Public Health*, **2015**, 12, 7519-40	4.6	176
649	Manganese uptake and efflux in cultured rat astrocytes. *Journal of Neurochemistry*, **1992**, 58, 730-5	6	175
648	"Manganese-induced neurotoxicity: a review of its behavioral consequences and neuroprotective strategies". *BMC Pharmacology & Toxicology*, **2016**, 17, 57	2.6	174
647	Manganese (Mn) transport across the rat blood-brain barrier: saturable and transferrin-dependent transport mechanisms. *Brain Research Bulletin*, **1994**, 33, 345-9	3.9	174
646	Prenatal methylmercury exposure hampers glutathione antioxidant system ontogenesis and causes long-lasting oxidative stress in the mouse brain. *Toxicology and Applied Pharmacology*, **2008**, 227, 147-54	4.6	168
645	Manganese metabolism in humans. *Frontiers in Bioscience - Landmark*, **2018**, 23, 1655-1679	2.8	165
644	Manganese neurotoxicity and glutamate-GABA interaction. *Neurochemistry International*, **2003**, 43, 475-80	4.4	164
643	Glial cells in neurotoxicity development. *Annual Review of Pharmacology and Toxicology*, **1999**, 39, 151-73	17.9	164
642	Manganese homeostasis in the nervous system. *Journal of Neurochemistry*, **2015**, 134, 601-10	6	159
641	Glutathione modulation influences methyl mercury induced neurotoxicity in primary cell cultures of neurons and astrocytes. *NeuroToxicology*, **2006**, 27, 492-500	4.4	159
640	The functional significance of brain metallothioneins. *FASEB Journal*, **1996**, 10, 1129-36	0.9	159
639	Interactions between excessive manganese exposures and dietary iron-deficiency in neurodegeneration. *Environmental Toxicology and Pharmacology*, **2005**, 19, 415-21	5.8	158

638	Methylmercury induces oxidative injury, alterations in permeability and glutamine transport in cultured astrocytes. *Brain Research*, **2007**, 1131, 1-10	3.7	148
637	Roles of glutamine in neurotransmission. *Neuron Glia Biology*, **2010**, 6, 263-76		147
636	Manganese induces oxidative impairment in cultured rat astrocytes. *Toxicological Sciences*, **2007**, 98, 198-205	4.4	143
635	Speciation of manganese in cells and mitochondria: a search for the proximal cause of manganese neurotoxicity. *NeuroToxicology*, **2006**, 27, 765-76	4.4	142
634	Extracellular dopamine potentiates mn-induced oxidative stress, lifespan reduction, and dopaminergic neurodegeneration in a BLI-3-dependent manner in Caenorhabditis elegans. *PLoS Genetics*, **2010**, 6, e1001084	6	141
633	SLC30A10 is a cell surface-localized manganese efflux transporter, and parkinsonism-causing mutations block its intracellular trafficking and efflux activity. *Journal of Neuroscience*, **2014**, 34, 14079-95	6.6	139
632	Manganese accumulates in iron-deficient rat brain regions in a heterogeneous fashion and is associated with neurochemical alterations. *Biological Trace Element Research*, **2002**, 87, 143-56	4.5	138
631	A new threat from an old enemy: Re-emergence of coronavirus (Review). *International Journal of Molecular Medicine*, **2020**, 45, 1631-1643	4.4	137
630	Neurotoxic effect of active ingredients in sunscreen products, a contemporary review. *Toxicology Reports*, **2017**, 4, 245-259	4.8	120
629	Ferroportin is a manganese-responsive protein that decreases manganese cytotoxicity and accumulation. *Journal of Neurochemistry*, **2010**, 112, 1190-8	6	118
628	Methylmercury-induced reactive oxygen species formation in neonatal cerebral astrocytic cultures is attenuated by antioxidants. *Molecular Brain Research*, **2003**, 110, 85-91		118
627	Uptake of methylmercury in the rat brain: effects of amino acids. *Brain Research*, **1988**, 462, 31-9	3.7	118
626	Manganese in health and disease. *Metal Ions in Life Sciences*, **2013**, 13, 199-227	2.6	117
625	The effects of manganese on glutamate, dopamine and gamma-aminobutyric acid regulation. *Neurochemistry International*, **2006**, 48, 426-33	4.4	114
624	Manganese: brain transport and emerging research needs. *Environmental Health Perspectives*, **2000**, 108 Suppl 3, 429-32	8.4	112
623	In vivo measurement of brain GABA concentrations by magnetic resonance spectroscopy in smelters occupationally exposed to manganese. *Environmental Health Perspectives*, **2011**, 119, 219-24	8.4	111
622	Cellular transport and homeostasis of essential and nonessential metals. *Metallomics*, **2012**, 4, 593-605	4.5	110
621	Diphenyl diselenide, a simple organoselenium compound, decreases methylmercury-induced cerebral, hepatic and renal oxidative stress and mercury deposition in adult mice. *Brain Research Bulletin*, **2009**, 79, 77-84	3.9	108

620	Mitochondrial-dependent manganese neurotoxicity in rat primary astrocyte cultures. *Brain Research*, **2008**, 1203, 1-11	3.7	108
619	The role of NLRP3-CASP1 in inflammasome-mediated neuroinflammation and autophagy dysfunction in manganese-induced, hippocampal-dependent impairment of learning and memory ability. *Autophagy*, **2017**, 13, 914-927	10.2	107
618	Metals and Neurodegeneration. *F1000Research*, **2016**, 5,	3.6	107
617	Biomarkers of mercury toxicity: Past, present, and future trends. *Journal of Toxicology and Environmental Health - Part B: Critical Reviews*, **2017**, 20, 119-154	8.6	106
616	Modulatory effect of glutathione status and antioxidants on methylmercury-induced free radical formation in primary cultures of cerebral astrocytes. *Molecular Brain Research*, **2005**, 137, 11-22		106
615	Estrogen and tamoxifen reverse manganese-induced glutamate transporter impairment in astrocytes. *Journal of Neurochemistry*, **2009**, 110, 530-44	6	105
614	Manganese (Mn) and iron (Fe): interdependency of transport and regulation. *Neurotoxicity Research* , **2010**, 18, 124-31	4.3	105
613	The methylmercury-L-cysteine conjugate is a substrate for the L-type large neutral amino acid transporter. *Journal of Neurochemistry*, **2008**, 107, 1083-90	6	100
612	The role of autophagy in modulation of neuroinflammation in microglia. *Neuroscience*, **2016**, 319, 155-67	3.9	98
611	Manganese-induced dopaminergic neurodegeneration: insights into mechanisms and genetics shared with Parkinson© disease. *Chemical Reviews*, **2009**, 109, 4862-84	68.1	98
610	The role of astrocytic glutamate transporters GLT-1 and GLAST in neurological disorders: Potential targets for neurotherapeutics. *Neuropharmacology*, **2019**, 161, 107559	5.5	96
609	Pathophysiology of manganese-associated neurotoxicity. *NeuroToxicology*, **2012**, 33, 881-6	4.4	96
608	Methylmercury induces acute oxidative stress, altering Nrf2 protein level in primary microglial cells. *Toxicological Sciences*, **2010**, 116, 590-603	4.4	93
607	Manganese exposure is cytotoxic and alters dopaminergic and GABAergic neurons within the basal ganglia. *Journal of Neurochemistry*, **2009**, 110, 378-89	6	93
606	Manganese causes differential regulation of glutamate transporter (GLAST) taurine transporter and metallothionein in cultured rat astrocytes. *NeuroToxicology*, **2002**, 23, 595-602	4.4	93
605	Methylmercury and brain development: A review of recent literature. *Journal of Trace Elements in Medicine and Biology*, **2016**, 38, 99-107	4.1	92
604	Identification and characterization of uptake systems for cystine and cysteine in cultured astrocytes and neurons: evidence for methylmercury-targeted disruption of astrocyte transport. *Journal of Neuroscience Research*, **2001**, 66, 998-1002	4.4	92
603	Neuroprotective Effects of Quercetin in Alzheimer© Disease. *Biomolecules*, **2019**, 10,	5.9	92

602	The uptake of cysteine in cultured primary astrocytes and neurons. *Brain Research*, **2001**, 902, 156-63	3.7	90
601	Manganese inhalation by rhesus monkeys is associated with brain regional changes in biomarkers of neurotoxicity. *Toxicological Sciences*, **2007**, 97, 459-66	4.4	88
600	Methylmercury inhibits the in vitro uptake of the glutathione precursor, cystine, in astrocytes, but not in neurons. *Brain Research*, **2001**, 894, 131-40	3.7	88
599	Polyphenols in the treatment of autoimmune diseases. *Autoimmunity Reviews*, **2019**, 18, 647-657	13.6	87
598	Protection of DFP-induced oxidative damage and neurodegeneration by antioxidants and NMDA receptor antagonist. *Toxicology and Applied Pharmacology*, **2009**, 240, 124-31	4.6	87
597	Free radical formation in cerebral cortical astrocytes in culture induced by methylmercury. *Molecular Brain Research*, **2004**, 128, 48-57		87
596	Iron deficient and manganese supplemented diets alter metals and transporters in the developing rat brain. *Toxicological Sciences*, **2007**, 95, 205-14	4.4	86
595	A manganese-enhanced diet alters brain metals and transporters in the developing rat. *Toxicological Sciences*, **2006**, 92, 516-25	4.4	85
594	The inhibitory effect of manganese on acetylcholinesterase activity enhances oxidative stress and neuroinflammation in the rat brain. *Toxicology*, **2012**, 292, 90-8	4.4	84
593	Methylmercury-induced alterations in excitatory amino acid transport in rat primary astrocyte cultures. *Brain Research*, **1993**, 602, 181-6	3.7	84
592	COVID-19, an opportunity to reevaluate the correlation between long-term effects of anthropogenic pollutants on viral epidemic/pandemic events and prevalence. *Food and Chemical Toxicology*, **2020**, 141, 111418	4.7	83
591	Organoselenium compounds as mimics of selenoproteins and thiol modifier agents. *Metallomics*, **2017**, 9, 1703-1734	4.5	83
590	Methylmercury-mediated inhibition of 3H-D-aspartate transport in cultured astrocytes is reversed by the antioxidant catalase. *Brain Research*, **2001**, 902, 92-100	3.7	83
589	Comparative study on the response of rat primary astrocytes and microglia to methylmercury toxicity. *Glia*, **2011**, 59, 810-20	9	82
588	SARS-CoV-2 pathophysiology and its clinical implications: An integrative overview of the pharmacotherapeutic management of COVID-19. *Food and Chemical Toxicology*, **2020**, 146, 111769	4.7	82
587	Methylmercury uptake in rat primary astrocyte cultures: the role of the neutral amino acid transport system. *Brain Research*, **1990**, 521, 221-8	3.7	81
586	Neurotoxicity of metals. *Handbook of Clinical Neurology / Edited By P J Vinken and G W Bruyn*, **2015**, 131, 169-89	3	80
585	Manganese-induced cytotoxicity in dopamine-producing cells. *NeuroToxicology*, **2004**, 25, 543-53	4.4	79

584	Basal ganglia intensity indices and diffusion weighted imaging in manganese-exposed welders. *Occupational and Environmental Medicine*, **2012**, 69, 437-43	2.1	78
583	Increased manganese uptake by primary astrocyte cultures with altered iron status is mediated primarily by divalent metal transporter. *NeuroToxicology*, **2006**, 27, 125-30	4.4	78
582	Changes in dietary iron exacerbate regional brain manganese accumulation as determined by magnetic resonance imaging. *Toxicological Sciences*, **2011**, 120, 146-53	4.4	77
581	Reference compounds for alternative test methods to indicate developmental neurotoxicity (DNT) potential of chemicals: example lists and criteria for their selection and use. *ALTEX: Alternatives To Animal Experimentation*, **2017**, 34, 49-74	4.3	76
580	SMF-1, SMF-2 and SMF-3 DMT1 orthologues regulate and are regulated differentially by manganese levels in C. elegans. *PLoS ONE*, **2009**, 4, e7792	3.7	73
579	Astrocyte modulation of neurotoxic injury. *Brain Pathology*, **2002**, 12, 475-81	6	73
578	Methylmercury toxicity and Nrf2-dependent detoxification in astrocytes. *Toxicological Sciences*, **2009**, 107, 135-43	4.4	72
577	Effects of manganese on thyroid hormone homeostasis: potential links. *NeuroToxicology*, **2007**, 28, 951-6	4.4	72
576	The effects of pdr1, djr1.1 and pink1 loss in manganese-induced toxicity and the role of □synuclein in C. elegans. *Metallomics*, **2014**, 6, 476-90	4.5	71
575	Methylmercury-induced alterations in astrocyte functions are attenuated by ebselen. *NeuroToxicology*, **2011**, 32, 291-9	4.4	69
574	Protective effects of antioxidants and anti-inflammatory agents against manganese-induced oxidative damage and neuronal injury. *Toxicology and Applied Pharmacology*, **2011**, 256, 219-26	4.6	69
573	Manganese exposure among smelting workers: blood manganese-iron ratio as a novel tool for manganese exposure assessment. *Biomarkers*, **2009**, 14, 3-16	2.6	69
572	Hormetic Neurobehavioral effects of low dose toxic chemical mixtures in real-life risk simulation (RLRS) in rats. *Food and Chemical Toxicology*, **2019**, 125, 141-149	4.7	69
571	Manganese toxicity in the central nervous system: the glutamine/glutamate-□aminobutyric acid cycle. *Journal of Internal Medicine*, **2013**, 273, 466-77	10.8	68
570	In vivo manganese exposure modulates Erk, Akt and Darpp-32 in the striatum of developing rats, and impairs their motor function. *PLoS ONE*, **2012**, 7, e33057	3.7	68
569	A review of the alleged health hazards of monosodium glutamate. *Comprehensive Reviews in Food Science and Food Safety*, **2019**, 18, 1111-1134	16.4	67
568	Yin Yang 1 is a repressor of glutamate transporter EAAT2, and it mediates manganese-induced decrease of EAAT2 expression in astrocytes. *Molecular and Cellular Biology*, **2014**, 34, 1280-9	4.8	67
567	Interactions of methylmercury with rat primary astrocyte cultures: inhibition of rubidium and glutamate uptake and induction of swelling. *Brain Research*, **1990**, 530, 245-50	3.7	67

566	Brain manganese and the balance between essential roles and neurotoxicity. *Journal of Biological Chemistry*, **2020**, 295, 6312-6329	5.4	66
565	Role of astrocytes in manganese mediated neurotoxicity. *BMC Pharmacology & Toxicology*, **2013**, 14, 23	2.6	65
564	Neurotoxicity of Metal Mixtures. *Advances in Neurobiology*, **2017**, 18, 227-265	2.1	65
563	Neuronal oxidative injury and dendritic damage induced by carbofuran: protection by memantine. *Toxicology and Applied Pharmacology*, **2007**, 219, 97-105	4.6	65
562	Is Triclosan a neurotoxic agent?. *Journal of Toxicology and Environmental Health - Part B: Critical Reviews*, **2017**, 20, 104-117	8.6	64
561	Modulation of cholinergic systems by manganese. *NeuroToxicology*, **2007**, 28, 1003-14	4.4	64
560	Intracellular glutathione (GSH) levels modulate mercuric chloride (MC)- and methylmercuric chloride (MeHgCl)-induced amino acid release from neonatal rat primary astrocytes cultures. *Brain Research*, **1994**, 664, 133-40	3.7	64
559	Autophagy in Neurodegenerative Diseases and Metal Neurotoxicity. *Neurochemical Research*, **2016**, 41, 409-22	4.6	63
558	Considerations on manganese (Mn) treatments for in vitro studies. *NeuroToxicology*, **2014**, 41, 141-2	4.4	63
557	The role of autophagy dysregulation in manganese-induced dopaminergic neurodegeneration. *Neurotoxicity Research*, **2013**, 24, 478-90	4.3	63
556	Manganese-induced oxidative DNA damage in neuronal SH-SY5Y cells: attenuation of thymine base lesions by glutathione and N-acetylcysteine. *Toxicology Letters*, **2013**, 218, 299-307	4.4	63
555	Manganese-exposed developing rats display motor deficits and striatal oxidative stress that are reversed by Trolox. *Archives of Toxicology*, **2013**, 87, 1231-44	5.8	62
554	Measuring brain manganese and iron accumulation in rats following 14 weeks of low-dose manganese treatment using atomic absorption spectroscopy and magnetic resonance imaging. *Toxicological Sciences*, **2008**, 103, 116-24	4.4	62
553	Multiple organ injury in male C57BL/6J mice exposed to ambient particulate matter in a real-ambient PM exposure system in Shijiazhuang, China. *Environmental Pollution*, **2019**, 248, 874-887	9.3	61
552	Manganese transport via the transferrin mechanism. *NeuroToxicology*, **2013**, 34, 118-27	4.4	61
551	Estrogen and tamoxifen protect against Mn-induced toxicity in rat cortical primary cultures of neurons and astrocytes. *Toxicological Sciences*, **2009**, 110, 156-67	4.4	61
550	Methyl mercury uptake across bovine brain capillary endothelial cells in vitro: the role of amino acids. *Basic and Clinical Pharmacology and Toxicology*, **1989**, 64, 293-7		61
549	Manganese disrupts astrocyte glutamine transporter expression and function. *Journal of Neurochemistry*, **2009**, 110, 822-30	6	60

548	Disease-toxicant screen reveals a neuroprotective interaction between Huntington disease and manganese exposure. *Journal of Neurochemistry*, **2010**, 112, 227-37	6	59
547	Duration of airborne-manganese exposure in rhesus monkeys is associated with brain regional changes in biomarkers of neurotoxicity. *NeuroToxicology*, **2008**, 29, 377-85	4.4	59
546	The consequences of methylmercury exposure on interactive functions between astrocytes and neurons. *NeuroToxicology*, **2002**, 23, 755-9	4.4	59
545	Genetic factors and manganese-induced neurotoxicity. *Frontiers in Genetics*, **2014**, 5, 265	4.5	58
544	Cancer-associated stroke: Pathophysiology, detection and management (Review). *International Journal of Oncology*, **2019**, 54, 779-796	4.4	57
543	A possible neuroprotective action of a vinylic telluride against Mn-induced neurotoxicity. *Toxicological Sciences*, **2010**, 115, 194-201	4.4	57
542	Characterization of the effects of methylmercury on Caenorhabditis elegans. *Toxicology and Applied Pharmacology*, **2009**, 240, 265-72	4.6	57
541	Methylmercury: recent advances in the understanding of its neurotoxicity. *Therapeutic Drug Monitoring*, **2005**, 27, 278-83	3.2	57
540	Anticancer Potential of Furanocoumarins: Mechanistic and Therapeutic Aspects. *International Journal of Molecular Sciences*, **2020**, 21,	6.3	57
539	Transforming growth factor- mediates estrogen-induced upregulation of glutamate transporter GLT-1 in rat primary astrocytes. *Glia*, **2012**, 60, 1024-36	9	56
538	The use of magnetic resonance imaging (MRI) in the study of manganese neurotoxicity. *NeuroToxicology*, **2006**, 27, 798-806	4.4	56
537	Astrocytic functions and physiological reactions to injury: the potential to induce and/or exacerbate neuronal dysfunction--a forum position paper. *NeuroToxicology*, **1998**, 19, 7-17; discussion 37-8	4.4	56
536	Sulfhydryl groups as targets of mercury toxicity. *Coordination Chemistry Reviews*, **2020**, 417, 213343-213343	3.2	55
535	Guanosine and synthetic organoselenium compounds modulate methylmercury-induced oxidative stress in rat brain cortical slices: involvement of oxidative stress and glutamatergic system. *Toxicology in Vitro*, **2009**, 23, 302-7	3.6	55
534	Role of glutathione in determining the differential sensitivity between the cortical and cerebellar regions towards mercury-induced oxidative stress. *Toxicology*, **2007**, 230, 164-77	4.4	55
533	Manganese: pharmacokinetics and molecular mechanisms of brain uptake. *Toxicological Reviews*, **2006**, 25, 147-54		55
532	Mitochondrial Redox Dysfunction and Environmental Exposures. *Antioxidants and Redox Signaling*, **2015**, 23, 578-95	8.4	53
531	Glia and methylmercury neurotoxicity. *Journal of Toxicology and Environmental Health - Part A: Current Issues*, **2012**, 75, 1091-101	3.2	53

530	Organotellurium and organoselenium compounds attenuate Mn-induced toxicity in Caenorhabditis elegans by preventing oxidative stress. *Free Radical Biology and Medicine*, **2012**, 52, 1903-10	7.8	53
529	The Caenorhabiditis elegans model as a reliable tool in neurotoxicology. *Human and Experimental Toxicology*, **2012**, 31, 236-43	3.4	53
528	Curcumin pretreatment protects against acute acrylonitrile-induced oxidative damage in rats. *Toxicology*, **2010**, 267, 140-6	4.4	53
527	Glutathione antioxidant system and methylmercury-induced neurotoxicity: An intriguing interplay. *Biochimica Et Biophysica Acta - General Subjects*, **2019**, 1863, 129285	4	52
526	Manganese in human parenteral nutrition: considerations for toxicity and biomonitoring. *NeuroToxicology*, **2014**, 43, 36-45	4.4	52
525	Neonatal rat primary microglia: isolation, culturing, and selected applications. *Current Protocols in Toxicology / Editorial Board, Mahin D Maines (editor-in-chief) [et Al]*, **2010**, Chapter 12, Unit 12.17	1	52
524	Cellular manganese content is developmentally regulated in human dopaminergic neurons. *Scientific Reports*, **2014**, 4, 6801	4.9	51
523	Protective effect of Melissa officinalis aqueous extract against Mn-induced oxidative stress in chronically exposed mice. *Brain Research Bulletin*, **2012**, 87, 74-9	3.9	51
522	Oxidative stress is induced in the rat brain following repeated inhalation exposure to manganese sulfate. *Biological Trace Element Research*, **2003**, 93, 113-26	4.5	50
521	Manganese: Brain Transport and Emerging Research Needs. *Environmental Health Perspectives*, **2000**, 108, 429	8.4	50
520	Oxidative Stress in Methylmercury-Induced Cell Toxicity. *Toxics*, **2018**, 6,	4.7	49
519	Manganese-induced Neurotoxicity: From to Humans. *Toxicology Research*, **2015**, 4, 191-202	2.6	48
518	Manganese neurotoxicity: a focus on glutamate transporters. *Annals of Occupational and Environmental Medicine*, **2013**, 25, 4	1.3	48
517	Manganese accumulation in striatum of mice exposed to toxic doses is dependent upon a functional dopamine transporter. *Environmental Toxicology and Pharmacology*, **2005**, 20, 390-4	5.8	48
516	Metallothioneins: mercury species-specific induction and their potential role in attenuating neurotoxicity. *Experimental Biology and Medicine*, **2006**, 231, 1468-73	3.7	48
515	The use of astrocytes in culture as model systems for evaluating neurotoxic-induced-injury. *NeuroToxicology*, **1991**, 12, 505-17	4.4	48
514	Mitotic arrest in the developing CNS after prenatal exposure to methylmercury. *Neurobehavioral Toxicology and Teratology*, **1984**, 6, 379-85		48
513	Deficiency in the manganese efflux transporter SLC30A10 induces severe hypothyroidism in mice. *Journal of Biological Chemistry*, **2017**, 292, 9760-9773	5.4	47

512	Lead, Arsenic, and Manganese Metal Mixture Exposures: Focus on Biomarkers of Effect. *Biological Trace Element Research*, **2015**, 166, 13-23	4.5	47
511	Complex methylmercury-cysteine alters mercury accumulation in different tissues of mice. *Basic and Clinical Pharmacology and Toxicology*, **2010**, 107, 789-92	3.1	47
510	Altered manganese homeostasis and manganese toxicity in a Huntington disease striatal cell model are not explained by defects in the iron transport system. *Toxicological Sciences*, **2010**, 117, 169-79	4.4	47
509	Adverse health effects of 5G mobile networking technology under real-life conditions. *Toxicology Letters*, **2020**, 323, 35-40	4.4	46
508	An evaluation framework for new approach methodologies (NAMs) for human health safety assessment. *Regulatory Toxicology and Pharmacology*, **2020**, 112, 104592	3.4	46
507	Anthocyanin-rich a□□(Euterpe oleracea Mart.) extract attenuates manganese-induced oxidative stress in rat primary astrocyte cultures. *Journal of Toxicology and Environmental Health - Part A: Current Issues*, **2014**, 77, 390-404	3.2	46
506	Metallothionein (MT) isoforms in the central nervous system (CNS): regional and cell-specific distribution and potential functions as an antioxidant. *NeuroToxicology*, **1998**, 19, 653-60	4.4	46
505	Genistein alleviates lead-induced neurotoxicity in vitro and in vivo: Involvement of multiple signaling pathways. *NeuroToxicology*, **2016**, 53, 153-164	4.4	45
504	Metal-induced neurodegeneration in C. elegans. *Frontiers in Aging Neuroscience*, **2013**, 5, 18	5.3	45
503	Glutamate/aspartate transporter (GLAST), taurine transporter and metallothionein mRNA levels are differentially altered in astrocytes exposed to manganese chloride, manganese phosphate or manganese sulfate. *NeuroToxicology*, **2002**, 23, 281-8	4.4	45
502	SLC30A10 transporter in the digestive system regulates brain manganese under basal conditions while brain SLC30A10 protects against neurotoxicity. *Journal of Biological Chemistry*, **2019**, 294, 1860-1876	5.4	45
501	Redox toxicology of environmental chemicals causing oxidative stress. *Redox Biology*, **2020**, 34, 101475	11.3	45
500	MALAT1 rs664589 Polymorphism Inhibits Binding to miR-194-5p, Contributing to Colorectal Cancer Risk, Growth, and Metastasis. *Cancer Research*, **2019**, 79, 5432-5441	10.1	44
499	A novel manganese-dependent ATM-p53 signaling pathway is selectively impaired in patient-based neuroprogenitor and murine striatal models of Huntington disease. *Human Molecular Genetics*, **2015**, 24, 1929-44	5.6	44
498	Transcriptional Regulation of the Astrocytic Excitatory Amino Acid Transporter 1 (EAAT1) via NF-B and Yin Yang 1 (YY1). *Journal of Biological Chemistry*, **2015**, 290, 23725-37	5.4	43
497	Structural Elements in the Transmembrane and Cytoplasmic Domains of the Metal Transporter SLC30A10 Are Required for Its Manganese Efflux Activity. *Journal of Biological Chemistry*, **2016**, 291, 15940-57	5.4	43
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