Michael Aschner

List of Publications by Year
in descending order

709 papers	36,723 citations	3334 91 h-index	7518 151 g-index
798 all docs	798 docs citations	798 times ranked	28263 citing authors

#	Article	IF	Citations
1	Guidelines for the use and interpretation of assays for monitoring autophagy (4th) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 742 Td	9.1	1,430
2	Caenorhabditis elegans: An Emerging Model in Biomedical and Environmental Toxicology. Toxicological Sciences, 2008, 106, 5-28.	3.1	832
3	Nutritional aspects of manganese homeostasis. Molecular Aspects of Medicine, 2005, 26, 353-362.	6.4	683
4	Manganese: Recent advances in understanding its transport and neurotoxicity. Toxicology and Applied Pharmacology, 2007, 221, 131-147.	2.8	527
5	Metals, oxidative stress and neurodegeneration: A focus on iron, manganese and mercury. Neurochemistry International, 2013, 62, 575-594.	3.8	439
6	Manganese Neurotoxicity. Annals of the New York Academy of Sciences, 2004, 1012, 115-128.	3.8	432
7	Brain barrier systems: a new frontier in metal neurotoxicological research. Toxicology and Applied Pharmacology, 2003, 192, 1-11.	2.8	417
8	Manganese Is Essential for Neuronal Health. Annual Review of Nutrition, 2015, 35, 71-108.	10.1	392
9	Mechanisms of methylmercury-induced neurotoxicity: Evidence from experimental studies. Life Sciences, 2011, 89, 555-563.	4.3	349
10	Manganese metabolism in humans. Frontiers in Bioscience - Landmark, 2018, 23, 1655-1679.	3.0	340
11	Zinc and respiratory tract infections: Perspectives for COVIDâ€'19 (Review). International Journal of Molecular Medicine, 2020, 46, 17-26.	4.0	312
12	Role of manganese in neurodegenerative diseases. Journal of Trace Elements in Medicine and Biology, 2011, 25, 191-203.	3.0	311
13	Mercury neurotoxicity: Mechanisms of blood-brain barrier transport. Neuroscience and Biobehavioral Reviews, 1990, 14, 169-176.	6.1	303
14	Developmental Neuropathology of Environmental Agents. Annual Review of Pharmacology and Toxicology, 2004, 44, 87-110.	9.4	294
15	Manganese Dosimetry: Species Differences and Implications for Neurotoxicity. Critical Reviews in Toxicology, 2005, 35, 1-32.	3.9	277
16	Oxidative stress in MeHg-induced neurotoxicity. Toxicology and Applied Pharmacology, 2011, 256, 405-417.	2.8	270
17	Manganese-Induced Parkinsonism and Parkinsonâ€™s Disease: Shared and Distinguishable Features. International Journal of Environmental Research and Public Health, 2015, 12, 7519-7540.	2.6	263
18	Manganese and its Role in Parkinsonâ€™s Disease: From Transport to Neuropathology. NeuroMolecular Medicine, 2009, 11, 252-266.	3.4	258

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19	Manganese neurotoxicity: Cellular effects and blood-brain barrier transport. Neuroscience and Biobehavioral Reviews, 1991, 15, 333-340.	6.1	253
20	Manganese neurotoxicity and the role of reactive oxygen species. Free Radical Biology and Medicine, 2013, 62, 65-75.	2.9	249
21	Involvement of glutamate and reactive oxygen species in methylmercury neurotoxicity. Brazilian Journal of Medical and Biological Research, 2007, 40, 285-291.	1.5	243
22	â€œManganese-induced neurotoxicity: a review of its behavioral consequences and neuroprotective strategiesâ€ BMC Pharmacology & Toxicology, 2016, 17, 57.	2.4	243
23	Neuroprotective Effects of Quercetin in Alzheimerâ€™s Disease. Biomolecules, 2020, 10, 59.	4.0	238
24	The role of astrocytic glutamate transporters GLT-1 and GLAST in neurological disorders: Potential targets for neurotherapeutics. Neuropharmacology, 2019, 161, 107559.	4.1	230
25	Manganese homeostasis in the nervous system. Journal of Neurochemistry, 2015, 134, 601-610.	3.9	222
26	Roles of glutamine in neurotransmission. Neuron Glia Biology, 2010, 6, 263-276.	1.6	211
27	Methylmercury alters glutamate transport in astrocytes. Neurochemistry International, 2000, 37, 199-206.	3.8	209
28	Oxidative damage and neurodegeneration in manganese-induced neurotoxicity. Toxicology and Applied Pharmacology, 2009, 240, 219-225.	2.8	209
29	Manganese neurotoxicity: A focus on the neonate. , 2007, 113, 369-377.		207
30	Manganese transport in eukaryotes: The role of DMT1. NeuroToxicology, 2008, 29, 569-576.	3.0	207
31	Manganese neurotoxicity and glutamate-GABA interaction. Neurochemistry International, 2003, 43, 475-480.	3.8	199
32	Manganese (Mn) transport across the rat blood-brain barrier: Saturable and transferrin-dependent transport mechanisms. Brain Research Bulletin, 1994, 33, 345-349.	3.0	198
33	Manganese in Health and Disease. Metal Ions in Life Sciences, 2013, 13, 199-227.	2.8	196
34	Manganese Uptake and Efflux in Cultured Rat Astrocytes. Journal of Neurochemistry, 1992, 58, 730-735.	3.9	191
35	Prenatal methylmercury exposure hampers glutathione antioxidant system ontogenesis and causes long-lasting oxidative stress in the mouse brain. Toxicology and Applied Pharmacology, 2008, 227, 147-154.	2.8	191
36	Interactions between excessive manganese exposures and dietary iron-deficiency in neurodegeneration. Environmental Toxicology and Pharmacology, 2005, 19, 415-421.	4.0	189

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37	Neurotoxic effect of active ingredients in sunscreen products, a contemporary review. Toxicology Reports, 2017, 4, 245-259.	3.3	185
38	The functional significance of brain metallothioneins. FASEB Journal, 1996, 10, 1129-1136.	0.5	179
39	GLIAL CELLS IN NEUROTOXICITY DEVELOPMENT. Annual Review of Pharmacology and Toxicology, 1999, 39, 151-173.	9.4	176
40	A new threat from an old enemy: Reâ€‘emergence of coronavirus (Review). International Journal of Molecular Medicine, 2020, 45, 1631-1643.	4.0	175
41	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, 14079-14095.	3.6	174
42	Metals and Neurodegeneration. F1000Research, 2016, 5, 366.	1.6	172
43	Glutathione modulation influences methyl mercury induced neurotoxicity in primary cell cultures of neurons and astrocytes. NeuroToxicology, 2006, 27, 492-500.	3.0	171
44	Sulfhydryl groups as targets of mercury toxicity. Coordination Chemistry Reviews, 2020, 417, 213343.	18.8	168
45	Extracellular Dopamine Potentiates Mn-Induced Oxidative Stress, Lifespan Reduction, and Dopaminergic Neurodegeneration in a BLI-3â€"Dependent Manner in Caenorhabditis elegans. PLoS Genetics, 2010, 6, e1001084.	3.5	166
46	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.	9.1	165
47	Manganese Induces Oxidative Impairment in Cultured Rat Astrocytes. Toxicological Sciences, 2007, 98, 198-205.	3.1	164
48	Brain manganese and the balance between essential roles and neurotoxicity. Journal of Biological Chemistry, 2020, 295, 6312-6329.	3.4	164
49	Methylmercury induces oxidative injury, alterations in permeability and glutamine transport in cultured astrocytes. Brain Research, 2007, 1131, 1-10.	2.2	163
50	Speciation of manganese in cells and mitochondria: A search for the proximal cause of manganese neurotoxicity. NeuroToxicology, 2006, 27, 765-776.	3.0	160
51	Cellular transport and homeostasis of essential and nonessential metals. Metallomics, 2012, 4, 593.	2.4	160
52	Manganese Accumulates in Iron-Deficient Rat Brain Regions in a Heterogeneous Fashion and Is Associated with Neurochemical Alterations. Biological Trace Element Research, 2002, 87, 143-156.	3.5	155
53	Polyphenols in the treatment of autoimmune diseases. Autoimmunity Reviews, 2019, 18, 647-657.	5.8	155
54	The role of autophagy in modulation of neuroinflammation in microglia. Neuroscience, 2016, 319, 155-167.	2.3	148

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55	Biomarkers of mercury toxicity: Past, present, and future trends. Journal of Toxicology and Environmental Health - Part B: Critical Reviews, 2017, 20, 119-154.	6.5	147
56	Manganese: brain transport and emerging research needs.. Environmental Health Perspectives, 2000, 108, 429-432.	6.0	137
57	The effects of manganese on glutamate, dopamine and Î³-aminobutyric acid regulation. Neurochemistry International, 2006, 48, 426-433.	3.8	137
58	Ferroportin is a manganeseâ€responsive protein that decreases manganese cytotoxicity and accumulation. Journal of Neurochemistry, 2010, 112, 1190-1198.	3.9	132
59	Methylmercury and brain development: A review of recent literature. Journal of Trace Elements in Medicine and Biology, 2016, 38, 99-107.	3.0	132
60	Uptake of methylmercury in the rat brain: effects of amino acids. Brain Research, 1988, 462, 31-39.	2.2	131
61	<i>In Vivo</i> Measurement of Brain GABA Concentrations by Magnetic Resonance Spectroscopy in Smelters Occupationally Exposed to Manganese. Environmental Health Perspectives, 2011, 119, 219-224.	6.0	130
62	A Review of the Alleged Health Hazards of Monosodium Glutamate. Comprehensive Reviews in Food Science and Food Safety, 2019, 18, 1111-1134.	11.7	130
63	The methylmercuryâ€<scp>l</scp>â€cysteine conjugate is a substrate for the Lâ€type large neutral amino acid transporter. Journal of Neurochemistry, 2008, 107, 1083-1090.	3.9	129
64	Methylmercury-induced reactive oxygen species formation in neonatal cerebral astrocytic cultures is attenuated by antioxidants. Molecular Brain Research, 2003, 110, 85-91.	2.3	126
65	Estrogen and tamoxifen reverse manganeseâ€induced glutamate transporter impairment in astrocytes. Journal of Neurochemistry, 2009, 110, 530-544.	3.9	126
66	Manganese (Mn) and Iron (Fe): Interdependency of Transport and Regulation. Neurotoxicity Research, 2010, 18, 124-131.	2.7	126
67	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.	2.3	122
68	Neurotoxicity of metals. Handbook of Clinical Neurology / Edited By P J Vinken and G W Bruyn, 2015, 131, 169-189.	1.8	120
69	Organoselenium compounds as mimics of selenoproteins and thiol modifier agents. Metallomics, 2017, 9, 1703-1734.	2.4	119
70	Mitochondrial-dependent manganese neurotoxicity in rat primary astrocyte cultures. Brain Research, 2008, 1203, 1-11.	2.2	118
71	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.	3.6	117
72	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.	3.0	116

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73	Pathophysiology of manganese-associated neurotoxicity. NeuroToxicology, 2012, 33, 881-886.	3.0	115
74	Manganese-Induced Dopaminergic Neurodegeneration: Insights into Mechanisms and Genetics Shared with Parkinsonâ€™s Disease. Chemical Reviews, 2009, 109, 4862-4884.	47.7	114
75	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.	2.9	111
76	Anticancer Potential of Furanocoumarins: Mechanistic and Therapeutic Aspects. International Journal of Molecular Sciences, 2020, 21, 5622.	4.1	109
77	Manganese Causes Differential Regulation of Glutamate Transporter (GLAST) Taurine Transporter and Metallothionein in Cultured Rat Astrocytes. NeuroToxicology, 2002, 23, 595-602.	3.0	108
78	Manganese exposure is cytotoxic and alters dopaminergic and GABAergic neurons within the basal ganglia. Journal of Neurochemistry, 2009, 110, 378-389.	3.9	108
79	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.	7.5	108
80	An evaluation framework for new approach methodologies (NAMs) for human health safety assessment. Regulatory Toxicology and Pharmacology, 2020, 112, 104592.	2.7	108
81	Manganese Inhalation by Rhesus Monkeys is Associated with Brain Regional Changes in Biomarkers of Neurotoxicity. Toxicological Sciences, 2007, 97, 459-466.	3.1	107
82	Neurotoxicity of Metal Mixtures. Advances in Neurobiology, 2017, 18, 227-265.	1.8	104
83	Cancer-associated stroke: Pathophysiology, detection and management (Review). International Journal of Oncology, 2019, 54, 779-796.	3.3	104
84	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.	3.6	103
85	The uptake of cysteine in cultured primary astrocytes and neurons. Brain Research, 2001, 902, 156-163.	2.2	102
86	Methylmercury-induced alterations in excitatory amino acid transport in rat primary astrocyte cultures. Brain Research, 1993, 602, 181-186.	2.2	101
87	Free radical formation in cerebral cortical astrocytes in culture induced by methylmercury. Molecular Brain Research, 2004, 128, 48-57.	2.3	99
88	Methylmercury Induces Acute Oxidative Stress, Altering Nrf2 Protein Level in Primary Microglial Cells. Toxicological Sciences, 2010, 116, 590-603.	3.1	99
89	Redox toxicology of environmental chemicals causing oxidative stress. Redox Biology, 2020, 34, 101475.	9.0	99
90	Protection of DFP-induced oxidative damage and neurodegeneration by antioxidants and NMDA receptor antagonist. Toxicology and Applied Pharmacology, 2009, 240, 124-131.	2.8	98

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91	Basal ganglia intensity indices and diffusion weighted imaging in manganese-exposed welders. Occupational and Environmental Medicine, 2012, 69, 437-443.	2.8	98
92	Manganese toxicity in the central nervous system: the glutamine/glutamateâ€î³â€aminobutyric acid cycle. Journal of Internal Medicine, 2013, 273, 466-477.	6.0	98
93	Iron Deficient and Manganese Supplemented Diets Alter Metals and Transporters in the Developing Rat Brain. Toxicological Sciences, 2007, 95, 205-214.	3.1	97
94	Methylmercury inhibits the in vitro uptake of the glutathione precursor, cystine, in astrocytes, but not in neurons. Brain Research, 2001, 894, 131-140.	2.2	96
95	A Manganese-Enhanced Diet Alters Brain Metals and Transporters in the Developing Rat. Toxicological Sciences, 2006, 92, 516-525.	3.1	96
96	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.	1.5	94
97	Changes in Dietary Iron Exacerbate Regional Brain Manganese Accumulation as Determined by Magnetic Resonance Imaging. Toxicological Sciences, 2011, 120, 146-153.	3.1	93
98	The inhibitory effect of manganese on acetylcholinesterase activity enhances oxidative stress and neuroinflammation in the rat brain. Toxicology, 2012, 292, 90-98.	4.2	93
99	Is Triclosan a neurotoxic agent?. Journal of Toxicology and Environmental Health - Part B: Critical Reviews, 2017, 20, 104-117.	6.5	92
100	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.	3.6	92
101	Comparative study on the response of rat primary astrocytes and microglia to methylmercury toxicity. Glia, 2011, 59, 810-820.	4.9	91
102	Considerations on manganese (Mn) treatments for in vitro studies. NeuroToxicology, 2014, 41, 141-142.	3.0	91
103	Autophagy in Neurodegenerative Diseases and Metal Neurotoxicity. Neurochemical Research, 2016, 41, 409-422.	3.3	90
104	Methylmercury uptake in rat primary astrocyte cultures: the role of the neutral amino acid transport system. Brain Research, 1990, 521, 221-228.	2.2	89
105	Increased manganese uptake by primary astrocyte cultures with altered iron status is mediated primarily by divalent metal transporter. NeuroToxicology, 2006, 27, 125-130.	3.0	89
106	Effects of manganese on thyroid hormone homeostasis: Potential links. NeuroToxicology, 2007, 28, 951-956.	3.0	89
107	Methylmercury-mediated inhibition of 3H-d-aspartate transport in cultured astrocytes is reversed by the antioxidant catalase. Brain Research, 2001, 902, 92-100.	2.2	87
108	Astrocyte Modulation of Neurotoxic Injury. Brain Pathology, 2002, 12, 475-481.	4.1	87

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109	Glutathione antioxidant system and methylmercury-induced neurotoxicity: An intriguing interplay. Biochimica Et Biophysica Acta - General Subjects, 2019, 1863, 129285.	2.4	87
110	C. elegans as a model in developmental neurotoxicology. Toxicology and Applied Pharmacology, 2018, 354, 126-135.	2.8	86
111	The effects of pdr1, djr1.1 and pink1 loss in manganese-induced toxicity and the role of Î±-synuclein in C. elegans. Metallomics, 2014, 6, 476-490.	2.4	85
112	Manganese-Induced Cytotoxicity in Dopamine-Producing Cells. NeuroToxicology, 2004, 25, 543-553.	3.0	83
113	Methylmercury Toxicity and Nrf2-dependent Detoxification in Astrocytes. Toxicological Sciences, 2009, 107, 135-143.	3.1	83
114	Protective effects of antioxidants and anti-inflammatory agents against manganese-induced oxidative damage and neuronal injury. Toxicology and Applied Pharmacology, 2011, 256, 219-226.	2.8	82
115	Role of astrocytes in manganese mediated neurotoxicity. BMC Pharmacology & Toxicology, 2013, 14, 23.	2.4	81
116	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.	2.5	80
117	Manganese transport via the transferrin mechanism. NeuroToxicology, 2013, 34, 118-127.	3.0	80
118	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, 1280-1289.	2.3	80
119	Astrocytic Oxidative/Nitrosative Stress Contributes to Parkinsonâ€™s Disease Pathogenesis: The Dual Role of Reactive Astrocytes. Antioxidants, 2019, 8, 265.	5.1	80
120	Adverse health effects of 5G mobile networking technology under real-life conditions. Toxicology Letters, 2020, 323, 35-40.	0.8	80
121	Improved strategies to counter the COVID-19 pandemic: Lockdowns vs. primary and community healthcare. Toxicology Reports, 2021, 8, 1-9.	3.3	80
122	Manganese exposure among smelting workers: blood manganeseâ€“iron ratio as a novel tool for manganese exposure assessment. Biomarkers, 2009, 14, 3-16.	1.9	79
123	Methylmercury-induced alterations in astrocyte functions are attenuated by ebselen. NeuroToxicology, 2011, 32, 291-299.	3.0	79
124	Methylmercury's chemistry: From the environment to the mammalian brain. Biochimica Et Biophysica Acta - General Subjects, 2019, 1863, 129284.	2.4	78
125	Modulation of cholinergic systems by manganese. NeuroToxicology, 2007, 28, 1003-1014.	3.0	77
126	Manganese-exposed developing rats display motor deficits and striatal oxidative stress that are reversed by Trolox. Archives of Toxicology, 2013, 87, 1231-1244.	4.2	76

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127	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.	0.8	76
128	Methyl Mercury Uptake Across Bovine Brain Capillary Endothelial Cells <i>in Vitro:</i> The Role of Amino Acids. Basic and Clinical Pharmacology and Toxicology, 1989, 64, 293-297.	0.0	75
129	Estrogen and Tamoxifen Protect against Mn-Induced Toxicity in Rat Cortical Primary Cultures of Neurons and Astrocytes. Toxicological Sciences, 2009, 110, 156-167.	3.1	75
130	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.	2.5	75
131	The Role of Autophagy Dysregulation in Manganese-Induced Dopaminergic Neurodegeneration. Neurotoxicity Research, 2013, 24, 478-490.	2.7	75
132	Genetic factors and manganese-induced neurotoxicity. Frontiers in Genetics, 2014, 5, 265.	2.3	75
133	Interactions of methylmercury with rat primary astrocyte cultures: inhibition of rubidium and glutamate uptake and induction of swelling. Brain Research, 1990, 530, 245-250.	2.2	74
134	Manganese. Advances in Nutrition, 2017, 8, 520-521.	6.4	73
135	Hypoxiaâ€Inducible Exosomes Facilitate Liverâ€Tropic Premetastatic Niche in Colorectal Cancer. Hepatology, 2021, 74, 2633-2651.	7.3	73
136	The Consequences of Methylmercury Exposure on Interactive Functions between Astrocytes and Neurons. NeuroToxicology, 2002, 23, 755-759.	3.0	71
137	Targeted Metabolomic Analysis of Serum Fatty Acids for the Prediction of Autoimmune Diseases. Frontiers in Molecular Biosciences, 2019, 6, 120.	3.5	71
138	Therapeutic potential of naringin in neurological disorders. Food and Chemical Toxicology, 2019, 132, 110646.	3.6	71
139	Manganese. Toxicological Reviews, 2006, 25, 147-154.	2.5	70
140	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, 116-124.	3.1	70
141	Manganese disrupts astrocyte glutamine transporter expression and function. Journal of Neurochemistry, 2009, 110, 822-830.	3.9	70
142	Cellular manganese content is developmentally regulated in human dopaminergic neurons. Scientific Reports, 2014, 4, 6801.	3.3	70
143	MALAT1 rs664589 Polymorphism Inhibits Binding to miR-194-5p, Contributing to Colorectal Cancer Risk, Growth, and Metastasis. Cancer Research, 2019, 79, 5432-5441.	0.9	70
144	Dysregulation of TFEB contributes to manganese-induced autophagic failure and mitochondrial dysfunction in astrocytes. Autophagy, 2020, 16, 1506-1523.	9.1	70

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145	Neuronal oxidative injury and dendritic damage induced by carbofuran: Protection by memantine. Toxicology and Applied Pharmacology, 2007, 219, 97-105.	2.8	69
146	Duration of airborne-manganese exposure in rhesus monkeys is associated with brain regional changes in biomarkers of neurotoxicity. NeuroToxicology, 2008, 29, 377-385.	3.0	69
147	Mitochondrial Redox Dysfunction and Environmental Exposures. Antioxidants and Redox Signaling, 2015, 23, 578-595.	5.4	69
148	The use of magnetic resonance imaging (MRI) in the study of manganese neurotoxicity. NeuroToxicology, 2006, 27, 798-806.	3.0	68
149	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.	3.4	68
150	Molecular Targets of Manganese-Induced Neurotoxicity: A Five-Year Update. International Journal of Molecular Sciences, 2021, 22, 4646.	4.1	68
151	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, 133-140.	2.2	66
152	Characterization of the effects of methylmercury on Caenorhabditis elegans. Toxicology and Applied Pharmacology, 2009, 240, 265-272.	2.8	66
153	A Possible Neuroprotective Action of a Vinylic Telluride against Mn-Induced Neurotoxicity. Toxicological Sciences, 2010, 115, 194-201.	3.1	66
154	Oxidative Stress in Methylmercury-Induced Cell Toxicity. Toxics, 2018, 6, 47.	3.7	66
155	Oxidative Stress Is Induced in the Rat Brain Following Repeated Inhalation Exposure to Manganese Sulfate. Biological Trace Element Research, 2003, 93, 113-126.	3.5	65
156	The effects of manganese overexposure on brain health. Neurochemistry International, 2020, 135, 104688.	3.8	65
157	Manganese in the Diet: Bioaccessibility, Adequate Intake, and Neurotoxicological Effects. Journal of Agricultural and Food Chemistry, 2020, 68, 12893-12903.	5.2	65
158	Pivotal Role of TGF-Î²/Smad Signaling in Cardiac Fibrosis: Non-coding RNAs as Effectual Players. Frontiers in Cardiovascular Medicine, 2020, 7, 588347.	2.4	65
159	Methylmercury. Therapeutic Drug Monitoring, 2005, 27, 278-283.	2.0	64
160	Diseaseâ€toxicant screen reveals a neuroprotective interaction between Huntingtonâ€™s disease and manganese exposure. Journal of Neurochemistry, 2010, 112, 227-237.	3.9	64
161	Protective effect of Melissa officinalis aqueous extract against Mn-induced oxidative stress in chronically exposed mice. Brain Research Bulletin, 2012, 87, 74-79.	3.0	64
162	Methods for the Detection of Autophagy in Mammalian Cells. Current Protocols in Toxicology / Editorial Board, Mahin D Maines (editor-in-chief) [et Al], 2016, 69, 20.12.1-20.12.26.	1.1	64

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163	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, 302-307.	2.4	63
164	Organotellurium and organoselenium compounds attenuate Mn-induced toxicity in Caenorhabditis elegans by preventing oxidative stress. Free Radical Biology and Medicine, 2012, 52, 1903-1910.	2.9	63
165	Metal-induced neurodegeneration in C. elegans. Frontiers in Aging Neuroscience, 2013, 5, 18.	3.4	63
166	Deficiency in the manganese efflux transporter SLC30A10 induces severe hypothyroidism in mice. Journal of Biological Chemistry, 2017, 292, 9760-9773.	3.4	63
167	Glia and Methylmercury Neurotoxicity. Journal of Toxicology and Environmental Health - Part A: Current Issues, 2012, 75, 1091-1101.	2.3	62
168	Lead, Arsenic, and Manganese Metal Mixture Exposures: Focus on Biomarkers of Effect. Biological Trace Element Research, 2015, 166, 13-23.	3.5	62
169	Manganese: Brain Transport and Emerging Research Needs. Environmental Health Perspectives, 2000, 108, 429.	6.0	61
170	Neonatal Rat Primary Microglia: Isolation, Culturing, and Selected Applications. Current Protocols in Toxicology / Editorial Board, Mahin D Maines (editor-in-chief) [et Al], 2010, 43, Unit 12.17.	1.1	61
171	Manganese Neurotoxicity: a Focus on Glutamate Transporters. Annals of Occupational and Environmental Medicine, 2013, 25, 4.	1.0	61
172	Manganese in human parenteral nutrition: Considerations for toxicity and biomonitoring. NeuroToxicology, 2014, 43, 36-45.	3.0	61
173	Transforming growth factorâ€Î± mediates estrogenâ€induced upregulation of glutamate transporter GLTâ€1 in rat primary astrocytes. Glia, 2012, 60, 1024-1036.	4.9	60
174	Serum Zinc, Copper, and Other Biometals Are Associated with COVID-19 Severity Markers. Metabolites, 2021, 11, 244.	2.9	60
175	Metallobiology and therapeutic chelation of biometals (copper, zinc and iron) in Alzheimerâ€™s disease: Limitations, and current and future perspectives. Journal of Trace Elements in Medicine and Biology, 2021, 67, 126779.	3.0	60
176	The<i>Caenorhabiditis elegans</i>model as a reliable tool in neurotoxicology. Human and Experimental Toxicology, 2012, 31, 236-243.	2.2	59
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