Donald R Smith

List of Publications by Year
in descending order

97 papers	4,740 citations	66343 42 h-index	106344 65 g-index
98 all docs	98 docs citations	98 times ranked	3932 citing authors

#	Article	IF	Citations
1	Lead poisoning and the deceptive recovery of the critically endangered California condor. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 11449-11454.	7.1	236
2	Tremor, olfactory and motor changes in Italian adolescents exposed to historical ferro-manganese emission. NeuroToxicology, 2012, 33, 687-696.	3.0	216
3	A randomized, double-blind comparison of two dosage levels of recombinant factor VIIa in the treatment of joint, muscle and mucocutaneous haemorrhages in persons with haemophilia A and B, with and without inhibitors. Haemophilia, 1998, 4, 790-798.	2.1	201
4	Ammunition is the Principal Source of Lead Accumulated by California Condors Re-Introduced to the Wild. Environmental Science & Technology, 2006, 40, 6143-6150.	10.0	154
5	Biomarkers of Mn exposure in humans. American Journal of Industrial Medicine, 2007, 50, 801-811.	2.1	151
6	Impact of Bone Lead and Bone Resorption on Plasma and Whole Blood Lead Levels during Pregnancy. American Journal of Epidemiology, 2004, 160, 668-678.	3.4	135
7	Inverse association of intellectual function with very low blood lead but not with manganese exposure in Italian adolescents. Environmental Research, 2012, 118, 65-71.	7.5	118
8	Preweaning manganese exposure causes hyperactivity, disinhibition, and spatial learning and memory deficits associated with altered dopamine receptor and transporter levels. Synapse, 2010, 64, 363-378.	1.2	115
9	Low Cumulative Manganese Exposure Affects Striatal GABA but not Dopamine. NeuroToxicology, 2002, 23, 69-76.	3.0	111
10	PATTERNS OF MORTALITY IN FREE-RANGING CALIFORNIA CONDORS (GYMNOGYPS CALIFORNIANUS). Journal of Wildlife Diseases, 2012, 48, 95-112.	0.8	106
11	The relationship between lead in plasma and whole blood in women.. Environmental Health Perspectives, 2002, 110, 263-268.	6.0	98
12	Brain Accumulation and Toxicity of Mn(II) and Mn(III) Exposures. Toxicological Sciences, 2006, 93, 114-124.	3.1	88
13	Prenatal and postnatal manganese teeth levels and neurodevelopment at 7, 9, and 10.5years in the CHAMACOS cohort. Environment International, 2015, 84, 39-54.	10.0	87
14	Neurofunctional dopaminergic impairment in elderly after lifetime exposure to manganese. NeuroToxicology, 2014, 45, 309-317.	3.0	84
15	Hair as a Biomarker of Environmental Manganese Exposure. Environmental Science & Technology, 2013, 47, 130117145235002.	10.0	83
16	Manganese Oxidation State and Its Implications for Toxicity. Chemical Research in Toxicology, 2002, 15, 1119-1126.	3.3	80
17	Impact of ferromanganese alloy plants on household dust manganese levels: Implications for childhood exposure. Environmental Research, 2015, 138, 279-290.	7.5	79
18	Metal contamination of home garden soils and cultivated vegetables in the province of Brescia, Italy: Implications for human exposure. Science of the Total Environment, 2015, 518-519, 507-517.	8.0	74

#	ARTICLE	IF	CITATIONS
19	Spatial distribution of manganese in enamel and coronal dentine of human primary teeth. Science of the Total Environment, 2011, 409, 1315-1319.	8.0	73
20	Associations of a Metal Mixture Measured in Multiple Biomarkers with IQ: Evidence from Italian Adolescents Living near Ferroalloy Industry. Environmental Health Perspectives, 2020, 128, 97002.	6.0	73
21	Determining Fetal Manganese Exposure from Mantle Dentine of Deciduous Teeth. Environmental Science & Technology, 2012, 46, 5118-5125.	10.0	72
22	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
23	Manganese in teeth and neurobehavior: Sex-specific windows of susceptibility. Environment International, 2017, 108, 299-308.	10.0	67
24	Adequacy and Consistency of Animal Studies to Evaluate the Neurotoxicity of Chronic Low-Level Manganese Exposure in Humans. Journal of Toxicology and Environmental Health - Part A: Current Issues, 2007, 70, 594-605.	2.3	66
25	Manganese oxidation state mediates toxicity in PC12 cells. Toxicology and Applied Pharmacology, 2005, 205, 271-281.	2.8	63
26	Blood and Hair Manganese Concentrations in Pregnant Women from the Infantsâ€™ Environmental Health Study (ISA) in Costa Rica. Environmental Science & Technology, 2014, 48, 3467-3476.	10.0	63
27	Deficiency in the manganese efflux transporter SLC30A10 induces severe hypothyroidism in mice. Journal of Biological Chemistry, 2017, 292, 9760-9773.	3.4	63
28	Succimer Chelation Improves Learning, Attention, and Arousal Regulation in Lead-Exposed Rats but Produces Lasting Cognitive Impairment in the Absence of Lead Exposure. Environmental Health Perspectives, 2007, 115, 201-209.	6.0	61
29	Preweaning Mn exposure leads to prolonged astrocyte activation and lasting effects on the dopaminergic system in adult male rats. Synapse, 2011, 65, 532-544.	1.2	60
30	Manganese-induced Trafficking and Turnover of the<i>cis</i>-Golgi Glycoprotein GPP130. Molecular Biology of the Cell, 2010, 21, 1282-1292.	2.1	57
31	Chronic low-level exposure to the common seafood toxin domoic acid causes cognitive deficits in mice. Harmful Algae, 2017, 64, 20-29.	4.8	57
32	Maternal blood and hair manganese concentrations, fetal growth, and length of gestation in the ISA cohort in Costa Rica. Environmental Research, 2015, 136, 47-56.	7.5	54
33	Prenatal Mancozeb Exposure, Excess Manganese, and Neurodevelopment at 1 Year of Age in the Infantsâ€™ Environmental Health (ISA) Study. Environmental Health Perspectives, 2018, 126, 057007.	6.0	54
34	Biomarkers of Manganese Exposure in Pregnant Women and Children Living in an Agricultural Community in California. Environmental Science & Technology, 2014, 48, 14695-14702.	10.0	52
35	Early life versus lifelong oral manganese exposure differently impairs skilled forelimb performance in adult rats. Neurotoxicology and Teratology, 2013, 38, 36-45.	2.4	51
36	Manganese concentrations in soil and settled dust in an area with historic ferroalloy production. Journal of Exposure Science and Environmental Epidemiology, 2015, 25, 443-450.	3.9	50

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37	Temporal responses in the disruption of iron regulation by manganese. Journal of Neuroscience Research, 2006, 83, 1601-1610.	2.9	47
38	Determinants of Manganese in Prenatal Dentin of Shed Teeth from CHAMACOS Children Living in an Agricultural Community. Environmental Science & Technology, 2013, 47, 11249-11257.	10.0	47
39	Health Risks from Lead-Based Ammunition in the Environment. Environmental Health Perspectives, 2013, 121, A178-9.	6.0	47
40	Hypothyroidism induced by loss of the manganese efflux transporter SLC30A10 may be explained by reduced thyroxine production. Journal of Biological Chemistry, 2017, 292, 16605-16615.	3.4	46
41	Stable isotope labeling of lead compartments in rats with ultralow lead concentrations. Environmental Research, 1992, 57, 190-207.	7.5	45
42	Sex differences in sensitivity to prenatal and early childhood manganese exposure on neuromotor function in adolescents. Environmental Research, 2017, 159, 458-465.	7.5	44
43	Assessing the contributions of metals in environmental media to exposure biomarkers in a region of ferroalloy industry. Journal of Exposure Science and Environmental Epidemiology, 2019, 29, 674-687.	3.9	44
44	Early Postnatal Manganese Exposure Causes Lasting Impairment of Selective and Focused Attention and Arousal Regulation in Adult Rats. Environmental Health Perspectives, 2017, 125, 230-237.	6.0	43
45	Efficacy of Succimer Chelation for Reducing Brain Pb Levels in a Rodent Model. Environmental Research, 1998, 78, 168-176.	7.5	42
46	Alterations in cellular IRP-dependent iron regulation by in vitro manganese exposure in undifferentiated PC12 cells. Brain Research, 2003, 973, 1-15.	2.2	40
47	Efficacy of Succimer Chelation for Reducing Brain Lead in a Primate Model of Human Lead Exposure. Toxicology and Applied Pharmacology, 1999, 161, 283-293.	2.8	39
48	Common Polymorphisms in the Solute Carrier SLC30A10 are Associated With Blood Manganese and Neurological Function. Toxicological Sciences, 2016, 149, 473-483.	3.1	36
49	Chronic low-level domoic acid exposure alters gene transcription and impairs mitochondrial function in the CNS. Aquatic Toxicology, 2014, 155, 151-159.	4.0	35
50	Heavy Metals in Soil and Salad in the Proximity of Historical Ferroalloy Emission. Journal of Environmental Protection, 2012, 03, 374-385.	0.7	35
51	The Trigone: Anatomical and Physiological Considerations. 2. In Relation to the Bladder Neck. Journal of Urology, 1968, 100, 633-639.	0.4	32
52	Polymorphisms in Manganese Transporters SLC30A10 and SLC39A8 Are Associated With Children's Neurodevelopment by Influencing Manganese Homeostasis. Frontiers in Genetics, 2018, 9, 664.	2.3	32
53	Oral Methylphenidate Alleviates the Fine Motor Dysfunction Caused by Chronic Postnatal Manganese Exposure in Adult Rats. Toxicological Sciences, 2015, 144, 318-327.	3.1	30
54	Manganese transporter genetics and sex modify the association between environmental manganese exposure and neurobehavioral outcomes in children. Environment International, 2019, 130, 104908.	10.0	30

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55	Succimer and the Reduction of Tissue Lead in Juvenile Monkeys. Toxicology and Applied Pharmacology, 2000, 166, 230-240.	2.8	29
56	Determinants of Hair Manganese, Lead, Cadmium and Arsenic Levels in Environmentally Exposed Children. Toxics, 2018, 6, 19.	3.7	29
57	Integrated measures of lead and manganese exposure improve estimation of their joint effects on cognition in Italian school-age children. Environment International, 2021, 146, 106312.	10.0	29
58	Determinants of manganese levels in house dust samples from the CHAMACOS cohort. Science of the Total Environment, 2014, 497-498, 360-368.	8.0	28
59	Low-level manganese exposure alters glutamate metabolism in GABAergic AF5 cells. NeuroToxicology, 2007, 28, 548-554.	3.0	26
60	Discrimination Factors for Stable Isotopes of Carbon and Nitrogen in Blood and Feathers from Chicks and Juveniles of the California Condor. Condor, 2013, 115, 492-500.	1.6	26
61	Linking cases of illegal shootings of the endangered California condor using stable lead isotope analysis. Environmental Research, 2014, 134, 270-279.	7.5	26
62	Early postnatal manganese exposure causes arousal dysregulation and lasting hypofunctioning of the prefrontal cortex catecholaminergic systems. Journal of Neurochemistry, 2020, 153, 631-649.	3.9	26
63	Arsenic and birth outcomes in a predominately lower income Hispanic pregnancy cohort in Los Angeles. Environmental Research, 2020, 184, 109294.	7.5	26
64	Maintaining Translational Relevance in Animal Models of Manganese Neurotoxicity. Journal of Nutrition, 2020, 150, 1360-1369.	2.9	26
65	Reductions in blood lead overestimate reductions in brain lead following repeated succimer regimens in a rodent model of childhood lead exposure.. Environmental Health Perspectives, 2004, 112, 302-308.	6.0	25
66	Polymorphisms in manganese transporters show developmental stage and sex specific associations with manganese concentrations in primary teeth. NeuroToxicology, 2018, 64, 103-109.	3.0	25
67	Effects of Lead Exposure, Flock Behavior, and Management Actions on the Survival of California Condors (Gymnogyps californianus). EcoHealth, 2017, 14, 92-105.	2.0	24
68	Sex-specific associations between co-exposure to multiple metals and visuospatial learning in early adolescence. Translational Psychiatry, 2020, 10, 358.	4.8	24
69	Manganese targets m-aconitase and activates iron regulatory protein 2 in AF5 GABAergic cells. Journal of Neuroscience Research, 2007, 85, 1797-1809.	2.9	22
70	The Scientific Basis for Chelation: Animal Studies and Lead Chelation. Journal of Medical Toxicology, 2013, 9, 326-338.	1.5	22
71	Early Postnatal Manganese Exposure Reduces Rat Cortical and Striatal Biogenic Amine Activity in Adulthood. Toxicological Sciences, 2020, 173, 144-155.	3.1	21
72	Tooth manganese as a biomarker of exposure and body burden in rats. Environmental Research, 2017, 155, 373-379.	7.5	20

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73	Early-life dentine manganese concentrations and intrinsic functional brain connectivity in adolescents: A pilot study. PLoS ONE, 2019, 14, e0220790.	2.5	20
74	Succimer chelation normalizes reactivity to reward omission and errors in lead-exposed rats. Neurotoxicology and Teratology, 2007, 29, 188-202.	2.4	19
75	Role of excretion in manganese homeostasis and neurotoxicity: a historical perspective. American Journal of Physiology - Renal Physiology, 2022, 322, G79-G92.	3.4	19
76	Multi-media biomarkers: Integrating information to improve lead exposure assessment. Environmental Research, 2020, 183, 109148.	7.5	18
77	Critical windows of susceptibility in the association between manganese and neurocognition in Italian adolescents living near ferro-manganese industry. NeuroToxicology, 2021, 87, 51-61.	3.0	18
78	Golgi phosphoprotein 4 (<scp>GPP</scp>130) is a sensitive and selective cellular target of manganese exposure. Synapse, 2013, 67, 205-215.	1.2	17
79	Up-regulation of the manganese transporter SLC30A10 by hypoxia-inducible factors defines a homeostatic response to manganese toxicity. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	16
80	Exposure to common-use pesticides, manganese, lead, and thyroid function among pregnant women from the Infants' Environmental Health (ISA) study, Costa Rica. Science of the Total Environment, 2022, 810, 151288.	8.0	16
81	Methylphenidate alleviates manganese-induced impulsivity but not distractibility. Neurotoxicology and Teratology, 2017, 61, 17-28.	2.4	14
82	Lead Exposure Risk from Trash Ingestion by the Endangered California Condor (Gymnogyps) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 382 T	0.8	13
83	Domoic acid disrupts the activity and connectivity of neuronal networks in organotypic brain slice cultures. NeuroToxicology, 2016, 56, 215-224.	3.0	11
84	Co-exposure to manganese and lead and pediatric neurocognition in East Liverpool, Ohio. Environmental Research, 2021, 202, 111644.	7.5	11
85	Surgical Treatment of Hypospadias. Journal of Urology, 1955, 73, 329-334.	0.4	10
86	Bone manganese is a sensitive biomarker of ongoing elevated manganese exposure, but does not accumulate across the lifespan. Environmental Research, 2022, 204, 112355.	7.5	8
87	Foraging behavior, contaminant exposure risk, and the stress response in wild California condors (Gymnogyps californianus). Environmental Research, 2020, 189, 109905.	7.5	7
88	Glucocorticoid measurement in plasma, urates, and feathers from California condors (Gymnogyps) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	2.5	6
89	Repeated low level domoic acid exposure increases CA1 VGluT1 levels, but not bouton density, VGluT2 or VGAT levels in the hippocampus of adult mice. Harmful Algae, 2018, 79, 74-86.	4.8	6
90	Caregiving and infants' neurodevelopment in rural Costa Rica: Results from the Infantsâ€™ Environmental Health Study (ISA). NeuroToxicology, 2019, 74, 100-107.	3.0	6

#	Article	IF	Citations
91	Isolation of progenitor cells from the blubber of northern elephant seals (<i>Mirounga) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 74 Mammal Science, 2015, 31, 764-773.	1.8	5
92	Metabolic Outcomes in Southern Italian Preadolescents Residing Near an Industrial Complex: The Role of Residential Location and Socioeconomic Status. International Journal of Environmental Research and Public Health, 2019, 16, 2036.	2.6	4
93	The management of embedded metal fragment patients and the role of chelation Therapy: A workshop of the Department of Veterans Affairsâ€"Walter Reed National Medical Center. American Journal of Industrial Medicine, 2020, 63, 381-393.	2.1	4
94	In vitro Lipolysis and Leptin Production of Elephant Seal Blubber Using Precision-Cut Adipose Tissue Slices. Frontiers in Physiology, 2020, 11, 615784.	2.8	3
95	Associations between early life exposure to manganese and developmental trajectories of executive functions. ISEE Conference Abstracts, 2021, 2021, .	0.0	0
96	Critical windows of metal mixture exposure on functional connectivity in adolescents. ISEE Conference Abstracts, 2021, 2021, .	0.0	0
97	General chemistry of metals, sampling, analytical methods, and speciation. , 2022, , 15-54.		0