Roberto G Lucchini

List of Publications by Year
in descending order

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130	4,502	94415	123420
papers	citations	37 h-index	61 g-index

135	135	135	4570
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The role of metals in neurodegenerative processes: aluminum, manganese, and zinc. Brain Research Bulletin, 2003, 62, 15-28.	3.0	294
2	Tremor, olfactory and motor changes in Italian adolescents exposed to historical ferro-manganese emission. NeuroToxicology, 2012, 33, 687-696.	3.0	216
3	Neurological impacts from inhalation of pollutants and the noseâ€“brain connection. NeuroToxicology, 2012, 33, 838-841.	3.0	201
4	High prevalence of parkinsonian disorders associated to manganese exposure in the vicinities of ferroalloy industries. American Journal of Industrial Medicine, 2007, 50, 788-800.	2.1	153
5	Biomarkers of Mn exposure in humans. American Journal of Industrial Medicine, 2007, 50, 801-811.	2.1	151
6	From Manganism to Manganese-Induced Parkinsonism: A Conceptual Model Based on the Evolution of Exposure. NeuroMolecular Medicine, 2009, 11, 311-321.	3.4	150
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	Global Occupational Health: Current Challenges and the Need for Urgent Action. Annals of Global Health, 2018, 80, 251.	2.0	105
9	Manganese exposure. Current Opinion in Pediatrics, 2013, 25, 255-260.	2.0	102
10	Motor Function, Olfactory Threshold, and Hematological Indices in Manganese-Exposed Ferroalloy Workers. Environmental Research, 1997, 73, 175-180.	7.5	101
11	Neuropsychological testing for the assessment of manganese neurotoxicity: A review and a proposal. American Journal of Industrial Medicine, 2007, 50, 812-830.	2.1	100
12	Fate of manganese associated with the inhalation of welding fumes: Potential neurological effects. NeuroToxicology, 2006, 27, 304-310.	3.0	99
13	Cancer Incidence in World Trade Center Rescue and Recovery Workers, 2001â€“2008. Environmental Health Perspectives, 2013, 121, 699-704.	6.0	99
14	Sub-Clinical Neurobehavioral Abnormalities Associated with Low Level of Mercury Exposure through Fish Consumption. NeuroToxicology, 2003, 24, 617-623.	3.0	95
15	Cohort Profile: World Trade Center Health Program General Responder Cohort. International Journal of Epidemiology, 2017, 46, e9-e9.	1.9	89
16	Neurofunctional dopaminergic impairment in elderly after lifetime exposure to manganese. NeuroToxicology, 2014, 45, 309-317.	3.0	84
17	Hair as a Biomarker of Environmental Manganese Exposure. Environmental Science & Technology, 2013, 47, 130117145235002.	10.0	83
18	Are current biomarkers suitable for the assessment of manganese exposure in individual workers?. , 2000, 37, 283-290.		82

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19	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
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	COVID-19 incidence and mortality in Lombardy, Italy: An ecological study on the role of air pollution, meteorological factors, demographic and socioeconomic variables. Environmental Research, 2021, 195, 110777.	7.5	72
22	Manganese and Developmental Neurotoxicity. Advances in Neurobiology, 2017, 18, 13-34.	1.8	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	ATP13A2 (PARK9) polymorphisms influence the neurotoxic effects of manganese. NeuroToxicology, 2012, 33, 697-702.	3.0	54
26	The Declaration of Brescia on Prevention of the Neurotoxicity of Metals. American Journal of Industrial Medicine, 2007, 50, 709-711.	2.1	53
27	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
28	A comparative assessment of major international disasters: the need for exposure assessment, systematic emergency preparedness, and lifetime health care. BMC Public Health, 2017, 17, 46.	2.9	46
29	The neurobehavioral impact of manganese: Results and challenges obtained by a meta-analysis of individual participant data. NeuroToxicology, 2013, 36, 1-9.	3.0	45
30	Risk factors for operated carpal tunnel syndrome: a multicenter population-based case-control study. BMC Public Health, 2009, 9, 343.	2.9	44
31	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
32	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
33	A new non-destructive method for chemical analysis of particulate matter filters: The case of manganese air pollution in Vallecamonica (Italy). Talanta, 2011, 84, 192-198.	5.5	43
34	Cancer in World Trade Center responders: Findings from multiple cohorts and options for future study. American Journal of Industrial Medicine, 2016, 59, 96-105.	2.1	43
35	Lifetime cumulative exposure as a threat for neurodegeneration: Need for prevention strategies on a global scale. NeuroToxicology, 2009, 30, 1144-1148.	3.0	42
36	European Approaches to Work-Related Stress: A Critical Review on Risk Evaluation. Safety and Health at Work, 2012, 3, 43-49.	0.6	42

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37	Neurobehavioral testing in human risk assessment. NeuroToxicology, 2008, 29, 556-567.	3.0	41
38	From lead to manganese through mercury: Mythology, science, and lessons for prevention. American Journal of Industrial Medicine, 2007, 50, 779-787.	2.1	39
39	Olfactory functions at the intersection between environmental exposure to manganese and Parkinsonism. Journal of Trace Elements in Medicine and Biology, 2012, 26, 179-182.	3.0	38
40	Common Polymorphisms in the Solute Carrier SLC30A10 are Associated With Blood Manganese and Neurological Function. Toxicological Sciences, 2016, 149, 473-483.	3.1	36
41	Neurocognitive impact of metal exposure and social stressors among schoolchildren in Taranto, Italy. Environmental Health, 2019, 18, 67.	4.0	36
42	Cancer in General Responders Participating in World Trade Center Health Programs, 2003â€“2013. JNCI Cancer Spectrum, 2020, 4, pkz090.	2.9	36
43	Heavy Metals in Soil and Salad in the Proximity of Historical Ferroalloy Emission. Journal of Environmental Protection, 2012, 03, 374-385.	0.7	35
44	Destruction of the World Trade Center Towers. Lessons Learned from an Environmental Health Disaster. Annals of the American Thoracic Society, 2016, 13, 577-583.	3.2	33
45	Analysis of settled dust with X-ray Fluorescence for exposure assessment of metals in the province of Brescia, Italy. Journal of Environmental Monitoring, 2009, 11, 1579.	2.1	32
46	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
47	Access to properly fitting personal protective equipment for female construction workers. American Journal of Industrial Medicine, 2016, 59, 1032-1040.	2.1	31
48	Application of a Latent Variable Model for a Multicenter Study on Early Effects Due to Mercury Exposure. NeuroToxicology, 2003, 24, 605-616.	3.0	30
49	Neurotoxicity of manganese: Indications for future research and public health intervention from the Manganese 2016 conference. NeuroToxicology, 2018, 64, 1-4.	3.0	30
50	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
51	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
52	Effects of Manganese Exposure on Olfactory Functions in Teenagers: A Pilot Study. PLoS ONE, 2016, 11, e0144783.	2.5	28
53	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
54	Sex-specific associations between co-exposure to multiple metals and visuospatial learning in early adolescence. Translational Psychiatry, 2020, 10, 358.	4.8	24

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55	Association between personal exposure to ambient metals and respiratory disease in Italian adolescents: a cross-sectional study. BMC Pulmonary Medicine, 2016, 16, 6.	2.0	21
56	Comparison of multiple X-ray fluorescence techniques for elemental analysis of particulate matter collected on air filters. Journal of Aerosol Science, 2018, 122, 1-10.	3.8	20
57	Early-life dentine manganese concentrations and intrinsic functional brain connectivity in adolescents: A pilot study. PLoS ONE, 2019, 14, e0220790.	2.5	20
58	Peripheral markers of catecholamine metabolism among workers occupationally exposed to manganese (Mn). Toxicology Letters, 1995, 77, 329-333.	0.8	19
59	Neurobehavioral science in hazard identification and risk assessment of neurotoxic agentsâ€"what are the requirements for further development?. International Archives of Occupational and Environmental Health, 2005, 78, 427-437.	2.3	19
60	An Integrated Model for the Assessment of Stress-related Risk Factors in Health Care Professionals. Industrial Health, 2011, 49, 15-23.	1.0	19
61	Association between Work-Related Stress and QT Prolongation in Male Workers. International Journal of Environmental Research and Public Health, 2019, 16, 4781.	2.6	19
62	Reduced cortical thickness in World Trade Center responders with cognitive impairment. Alzheimer's and Dementia: Diagnosis, Assessment and Disease Monitoring, 2020, 12, e12059.	2.4	19
63	Torvis oculis: Occupational roots of behavioral neurotoxicology in the last two centuries and beyond. NeuroToxicology, 2012, 33, 652-659.	3.0	18
64	Multi-media biomarkers: Integrating information to improve lead exposure assessment. Environmental Research, 2020, 183, 109148.	7.5	18
65	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
66	Cognitive impairment and World Trade Centre-related exposures. Nature Reviews Neurology, 2022, 18, 103-116.	10.1	18
67	Mortality among World Trade Center rescue and recovery workers, 2002â€"2011. American Journal of Industrial Medicine, 2016, 59, 87-95.	2.1	17
68	Prostate cancer characteristics in the World Trade Center cohort, 2002â€"2013. European Journal of Cancer Prevention, 2018, 27, 347-354.	1.3	17
69	The effects of the exposure to neurotoxic elements on Italian schoolchildren behavior. Scientific Reports, 2021, 11, 9898.	3.3	17
70	Association between Organophosphate Pesticide Exposure and Insulin Resistance in Pesticide Sprayers and Nonfarmworkers. International Journal of Environmental Research and Public Health, 2020, 17, 8140.	2.6	14
71	Profiles and species of Mn, Fe and trace metals in soils near a ferromanganese plant in Bagnolo Mella (Brescia, IT). Science of the Total Environment, 2021, 755, 143123.	8.0	13
72	Predictors of virtual radial arm maze performance in adolescent Italian children. NeuroToxicology, 2012, 33, 1203-1211.	3.0	12

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73	Baseline Serum Î²-carotene Concentration and Mortality among Long-Term Asbestos-Exposed Insulators. Cancer Epidemiology Biomarkers and Prevention, 2015, 24, 555-560.	2.5	12
74	Determinants of serum manganese levels in an Italian population. Molecular Medicine Reports, 2017, 15, 3340-3349.	2.4	12
75	Mechanism of neurobehavioral alteration. Toxicology Letters, 2000, 112-113, 35-39.	0.8	11
76	The association between body mass index and gastroesophageal reflux disease in the World Trade Center Health Program General Responder Cohort. American Journal of Industrial Medicine, 2016, 59, 761-766.	2.1	11
77	Metal Exposure and SNCA rs356219 Polymorphism Associated With Parkinson Disease and Parkinsonism. Frontiers in Neurology, 2020, 11, 556337.	2.4	11
78	Selective hippocampal subfield volume reductions in World Trade Center responders with cognitive impairment. Alzheimer's and Dementia: Diagnosis, Assessment and Disease Monitoring, 2021, 13, e12165.	2.4	10
79	Education and Training: Key Factors in Global Occupational and Environmental Health. Annals of Global Health, 2018, 84, 436-441.	2.0	10
80	Association of low FVC spirometric pattern with WTC occupational exposures. Respiratory Medicine, 2020, 170, 106058.	2.9	9
81	Cancer survival among World Trade Center rescue and recovery workers: A collaborative cohort study. American Journal of Industrial Medicine, 2021, 64, 815-826.	2.1	9
82	Statistical means to enhance the comparability of data within a pooled analysis of individual data in neurobehavioral toxicology. Toxicology Letters, 2011, 206, 144-151.	0.8	8
83	Neurotoxicology and development: Human, environmental and social impacts. NeuroToxicology, 2014, 45, 217-219.	3.0	8
84	Development of a Physiological Frailty Index for the World Trade Center General Responder Cohort. Current Gerontology and Geriatrics Research, 2018, 2018, 1-12.	1.6	8
85	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
86	The Declaration of Brescia on Prevention of the Neurotoxicity of Metals Brescia, Italia 17-18 June 2006. Medicina Del Lavoro, 2006, 97, 811-4.	0.4	8
87	Reduced cerebellar cortical thickness in World Trade Center responders with cognitive impairment. Translational Psychiatry, 2022, 12, 107.	4.8	8
88	Relationship of Blood and Urinary Manganese Levels with Cognitive Function in Elderly Individuals in the United States by Race/Ethnicity, NHANES 2011â€“2014. Toxics, 2022, 10, 191.	3.7	8
89	Prolactin Changes as a Consequence of Chemical Exposure. Environmental Health Perspectives, 2006, 114, A573-4; author reply A574.	6.0	7
90	Tremor secondary to neurotoxic exposure. Handbook of Clinical Neurology / Edited By P J Vinken and G W Bruyn, 2015, 131, 241-249.	1.8	7

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91	Standardized cancer incidence disparities in Upper Manhattan New York City neighborhoods: the role of race/ethnicity, socioeconomic status, and known risk factors. European Journal of Cancer Prevention, 2016, 25, 349-356.	1.3	7
92	Cancer mortality disparities among New York Cityâ€™s Upper Manhattan neighborhoods. European Journal of Cancer Prevention, 2017, 26, 453-460.	1.3	7
93	Occupational Health and Safety in the Expanding Economies: Severe Challenges and the Need for Action Through Education and Training. Annals of Global Health, 2018, 81, 463.	2.0	7
94	Excess HPVâ€related head and neck cancer in the world trade center health program general responder cohort. International Journal of Cancer, 2019, 145, 1504-1509.	5.1	7
95	Cortical complexity in world trade center responders with chronic posttraumatic stress disorder. Translational Psychiatry, 2021, 11, 597.	4.8	7
96	COVID-19 Aftermath: Exploring the Mental Health Emergency among Students at a Northern Italian University. International Journal of Environmental Research and Public Health, 2022, 19, 8587.	2.6	7
97	Obesity and weight gain among former World Trade Center workers and volunteers. Archives of Environmental and Occupational Health, 2017, 72, 106-110.	1.4	6
98	Risk factors for head and neck cancer in the World Trade Center Health Program General Responder Cohort: results from a nested caseâ€“control study. Occupational and Environmental Medicine, 2019, 76, 854-860.	2.8	6
99	Reduced cortical thickness in World Trade Center responders with cognitive impairment. Alzheimer's and Dementia, 2020, 16, e039996.	0.8	6
100	Bernardino Ramazzini (1633â€“1714). Journal of Neurology, 2018, 265, 2164-2165.	3.6	5
101	A cortical thinning signature to identify World Trade Center responders with possible dementia. Intelligence-based Medicine, 2021, 5, 100032.	2.4	5
102	Diesel and Silica Monitoring at Two Sites Following Hurricane Sandy. Journal of Occupational and Environmental Hygiene, 2014, 11, D131-D143.	1.0	4
103	Assessment of cumulative health risk in the World Trade Center general responder cohort. American Journal of Industrial Medicine, 2018, 61, 63-76.	2.1	4
104	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
105	Relationships of Nutritional Factors and Agrochemical Exposure with Parkinsonâ€™s Disease in the Province of Brescia, Italy. International Journal of Environmental Research and Public Health, 2022, 19, 3309.	2.6	4
106	Proposal of a method for identifying exposure to hazardous chemicals in biomedical laboratories. Clinica Chimica Acta, 1996, 256, 75-86.	1.1	3
107	Neurotoxicology of Metals. , 2015, , 299-311.		3
108	Principles for Prevention of the Toxic Effects of Metals. , 2015, , 507-528.		3

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109	Sex differences in asthma and gastroesophageal reflux disease incidence among the World Trade Center Health Program General Responder Cohort. American Journal of Industrial Medicine, 2016, 59, 815-822.	2.1	3
110	Mental health mediators of subjective cognitive concerns among World Trade Center responders. Journal of Psychiatric Research, 2021, 140, 187-196.	3.1	3
111	Early-Life Critical Windows of Susceptibility to Manganese Exposure and Sex-Specific Changes in Brain Connectivity in Late Adolescence. Biological Psychiatry Global Open Science, 2023, 3, 460-469.	2.2	3
112	Development and Validation of a Clinical Frailty Index for the World Trade Center General Responder Cohort. Journal of Aging and Health, 2021, 33, 531-544.	1.7	2
113	Assessment of Integrated Aerosol Sampling Techniques in Indoor, Confined and Outdoor Environments Characterized by Specific Emission Sources. Applied Sciences (Switzerland), 2021, 11, 4360.	2.5	2
114	Principles for prevention of the toxic effects of metals. , 2022, , 685-703.		2
115	Local effects and global impact in neurotoxicity and neurodegeneration: The Xiâ€™an International Neurotoxicology Conference. NeuroToxicology, 2012, 33, 629-630.	3.0	1
116	Retrospective Assessment of Risk Factors for Head and Neck Cancer Among World Trade Center General Responders. Frontiers in Public Health, 2020, 8, 488057.	2.7	1
117	Respirator usage protects brain white matter from welding fume exposure: A pilot magnetic resonance imaging study of welders. NeuroToxicology, 2020, 78, 202-208.	3.0	1
118	Reply to Comment on Lecca, L.I.; Portoghese, I.; Mucci, N.; Galletta, M.; Meloni, F.; Pilia, I.; Marcias, G.; Fabbri, D.; Fostinelli, J.; Lucchini, R.G.; Cocco, P.; Campagna, M. Association between Work-Related Stress and QT Prolongation in Male Workers. International Journal of Environmental Research and Public Health, 2020, 17, 510.	2.6	1
119	The Luria-Nebraska Neuropsychological Battery Neuromotor Tasks: From Conventional to Image-Derived Measures. Brain Sciences, 2022, 12, 757.	2.3	1
120	Cognitive Effects of Manganese in Children and Adults. Issues in Toxicology, 2014, , 524-539.	0.1	0
121	Response to Soskolne [2017]. American Journal of Industrial Medicine, 2017, 60, 512-512.	2.1	0
122	Coming Together for Climate and Health. Journal of Occupational and Environmental Medicine, 2021, 63, e308-e313.	1.7	0
123	9/11 Health Update. International Journal of Environmental Research and Public Health, 2021, 18, 6383.	2.6	0
124	Associations between early life exposure to manganese and developmental trajectories of executive functions. ISEE Conference Abstracts, 2021, 2021, .	0.0	0
125	Case Report: A World Trade Center (WTC) responder presenting with moderate stage dementia by age 57, suggesting an extended severity of WTC-associated illness'. , 0, , .		0
126	Critical windows of metal mixture exposure on functional connectivity in adolescents. ISEE Conference Abstracts, 2021, 2021, .	0.0	0

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127	Neurological Disorders. , 2011, , 163-196.		0
128	Neurotoxicology of metals. , 2022, , 445-458.		0
129	Polychlorinated Biphenyls and Pulmonary Hypertension. International Journal of Environmental Research and Public Health, 2022, 19, 4705.	2.6	0
130	Traces of heavy metals in children toenails as a bio-indicator of environmental exposure in ForlÃ¬ (Northern Italy): an observational study. Epidemiologia E Prevenzione, 2020, 44, 210-217.	1.1	0