

# Lilian Caldern-Garcidueas

## List of Publications by Citations

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76  
papers

6,587  
citations

37  
h-index

81  
g-index

81  
ext. papers

7,763  
ext. citations

5.9  
avg. IF

5.68  
L-index

#	Paper	IF	Citations
76	Air pollution: mechanisms of neuroinflammation and CNS disease. <i>Trends in Neurosciences</i> , <b>2009</b> , 32, 506-16	13.3	796
75	Long-term air pollution exposure is associated with neuroinflammation, an altered innate immune response, disruption of the blood-brain barrier, ultrafine particulate deposition, and accumulation of amyloid beta-42 and alpha-synuclein in children and young adults. <i>Toxicologic Pathology</i> , <b>2008</b> , 36, 289-310	2.1	566
74	Magnetite pollution nanoparticles in the human brain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, 10797-801	11.5	516
73	Translocation and potential neurological effects of fine and ultrafine particles a critical update. <i>Particle and Fibre Toxicology</i> , <b>2006</b> , 3, 13	8.4	381
72	Brain inflammation and Alzheimer $\beta$ -like pathology in individuals exposed to severe air pollution. <i>Toxicologic Pathology</i> , <b>2004</b> , 32, 650-8	2.1	376
71	Air pollution, cognitive deficits and brain abnormalities: a pilot study with children and dogs. <i>Brain and Cognition</i> , <b>2008</b> , 68, 117-27	2.7	348
70	Air pollution and brain damage. <i>Toxicologic Pathology</i> , <b>2002</b> , 30, 373-89	2.1	327
69	DNA damage in nasal and brain tissues of canines exposed to air pollutants is associated with evidence of chronic brain inflammation and neurodegeneration. <i>Toxicologic Pathology</i> , <b>2003</b> , 31, 524-38	2.1	229
68	Urban air pollution: influences on olfactory function and pathology in exposed children and young adults. <i>Experimental and Toxicologic Pathology</i> , <b>2010</b> , 62, 91-102		216
67	Neuroinflammation, hyperphosphorylated tau, diffuse amyloid plaques, and down-regulation of the cellular prion protein in air pollution exposed children and young adults. <i>Journal of Alzheimer's Disease</i> , <b>2012</b> , 28, 93-107	4.3	193
66	Exposure to severe urban air pollution influences cognitive outcomes, brain volume and systemic inflammation in clinically healthy children. <i>Brain and Cognition</i> , <b>2011</b> , 77, 345-55	2.7	188
65	Pediatric respiratory and systemic effects of chronic air pollution exposure: nose, lung, heart, and brain pathology. <i>Toxicologic Pathology</i> , <b>2007</b> , 35, 154-62	2.1	126
64	Elevated plasma endothelin-1 and pulmonary arterial pressure in children exposed to air pollution. <i>Environmental Health Perspectives</i> , <b>2007</b> , 115, 1248-53	8.4	122
63	Prefrontal white matter pathology in air pollution exposed Mexico City young urbanites and their potential impact on neurovascular unit dysfunction and the development of Alzheimer $\beta$ disease. <i>Environmental Research</i> , <b>2016</b> , 146, 404-17	7.9	105
62	Air pollution and your brain: what do you need to know right now. <i>Primary Health Care Research and Development</i> , <b>2015</b> , 16, 329-45	1.6	98
61	The impact of environmental metals in young urbanites' brains. <i>Experimental and Toxicologic Pathology</i> , <b>2013</b> , 65, 503-11		92
60	Air pollution and children: neural and tight junction antibodies and combustion metals, the role of barrier breakdown and brain immunity in neurodegeneration. <i>Journal of Alzheimer's Disease</i> , <b>2015</b> , 43, 1039-58	4.3	86

59	Early Alzheimer $\beta$ and Parkinson $\beta$ disease pathology in urban children: Friend versus Foe responses--it is time to face the evidence. <i>BioMed Research International</i> , <b>2013</b> , 2013, 161687	3	79
58	Immunotoxicity and environment: immunodysregulation and systemic inflammation in children. <i>Toxicologic Pathology</i> , <b>2009</b> , 37, 161-9	2.1	78
57	White matter hyperintensities, systemic inflammation, brain growth, and cognitive functions in children exposed to air pollution. <i>Journal of Alzheimer's Disease</i> , <b>2012</b> , 31, 183-91	4.3	75
56	Megacities air pollution problems: Mexico City Metropolitan Area critical issues on the central nervous system pediatric impact. <i>Environmental Research</i> , <b>2015</b> , 137, 157-69	7.9	74
55	Ultrastructural nasal pathology in children chronically and sequentially exposed to air pollutants. <i>American Journal of Respiratory Cell and Molecular Biology</i> , <b>2001</b> , 24, 132-8	5.7	74
54	Respiratory damage in children exposed to urban pollution. <i>Pediatric Pulmonology</i> , <b>2003</b> , 36, 148-61	3.5	70
53	Combustion-Derived Nanoparticles in Key Brain Target Cells and Organelles in Young Urbanites: Culprit Hidden in Plain Sight in Alzheimer $\beta$ Disease Development. <i>Journal of Alzheimer's Disease</i> , <b>2017</b> , 59, 189-208	4.3	68
52	Combustion- and friction-derived magnetic air pollution nanoparticles in human hearts. <i>Environmental Research</i> , <b>2019</b> , 176, 108567	7.9	66
51	Hallmarks of Alzheimer disease are evolving relentlessly in Metropolitan Mexico City infants, children and young adults. APOE4 carriers have higher suicide risk and higher odds of reaching NFT stage V at 40 years of age. <i>Environmental Research</i> , <b>2018</b> , 164, 475-487	7.9	64
50	Decreases in Short Term Memory, IQ, and Altered Brain Metabolic Ratios in Urban Apolipoprotein E Children Exposed to Air Pollution. <i>Journal of Alzheimer's Disease</i> , <b>2015</b> , 45, 757-70	4.3	61
49	Air pollution is associated with brainstem auditory nuclei pathology and delayed brainstem auditory evoked potentials. <i>International Journal of Developmental Neuroscience</i> , <b>2011</b> , 29, 365-75	2.7	60
48	Mexico City normal weight children exposed to high concentrations of ambient PM2.5 show high blood leptin and endothelin-1, vitamin D deficiency, and food reward hormone dysregulation versus low pollution controls. Relevance for obesity and Alzheimer disease. <i>Environmental Research</i> , <b>2015</b> , 140, 570-80	7.9	58
47	Air pollution alters brain and pituitary endothelin-1 and inducible nitric oxide synthase gene expression. <i>Environmental Research</i> , <b>2007</b> , 105, 224-33	7.9	56
46	Cerebrospinal Fluid Biomarkers in Highly Exposed PM2.5 Urbanites: The Risk of Alzheimer $\beta$ and Parkinson $\beta$ Diseases in Young Mexico City Residents. <i>Journal of Alzheimer's Disease</i> , <b>2016</b> , 54, 597-613	4.3	53
45	Air pollution and detrimental effects on children's brain. The need for a multidisciplinary approach to the issue complexity and challenges. <i>Frontiers in Human Neuroscience</i> , <b>2014</b> , 8, 613	3.3	51
44	Brain immune interactions and air pollution: macrophage inhibitory factor (MIF), prion cellular protein (PrP(C)), Interleukin-6 (IL-6), interleukin 1 receptor antagonist (IL-1Ra), and interleukin-2 (IL-2) in cerebrospinal fluid and MIF in serum differentiate urban children exposed to severe vs. low pollution. <i>Frontiers in Human Neuroscience</i> , <b>2013</b> , 7, 188	5.1	48
43	Alzheimer $\beta$ disease and alpha-synuclein pathology in the olfactory bulbs of infants, children, teens and adults 40 years in Metropolitan Mexico City. APOE4 carriers at higher risk of suicide accelerate their olfactory bulb pathology. <i>Environmental Research</i> , <b>2018</b> , 166, 348-362	7.9	47
42	Interactive and additive influences of Gender, BMI and Apolipoprotein 4 on cognition in children chronically exposed to high concentrations of PM2.5 and ozone. APOE 4 females are at highest risk in Mexico City. <i>Environmental Research</i> , <b>2016</b> , 150, 411-422	7.9	46

41	Combustion and friction-derived nanoparticles and industrial-sourced nanoparticles: The culprit of Alzheimer and Parkinson diseases. <i>Environmental Research</i> , <b>2019</b> , 176, 108574	7.9	38
40	Reduced repressive epigenetic marks, increased DNA damage and Alzheimer disease hallmarks in the brain of humans and mice exposed to particulate urban air pollution. <i>Environmental Research</i> , <b>2020</b> , 183, 109226	7.9	37
39	Living close to heavy traffic roads, air pollution, and dementia. <i>Lancet, The</i> , <b>2017</b> , 389, 675-677	4.0	36
38	Urban air pollution targets the dorsal vagal complex and dark chocolate offers neuroprotection. <i>International Journal of Toxicology</i> , <b>2010</b> , 29, 604-15	2.4	35
37	Assessment of physical education time and after-school outdoor time in elementary and middle school students in south Mexico City: the dilemma between physical fitness and the adverse health effects of outdoor pollutant exposure. <i>Archives of Environmental Health</i> , <b>2002</b> , 57, 450-60		35
36	Lung radiology and pulmonary function of children chronically exposed to air pollution. <i>Environmental Health Perspectives</i> , <b>2006</b> , 114, 1432-7	8.4	34
35	A Critical Proton MR Spectroscopy Marker of Alzheimer Disease Early Neurodegenerative Change: Low Hippocampal NAA/Cr Ratio Impacts APOE e4 Mexico City Children and Their Parents. <i>Journal of Alzheimer's Disease</i> , <b>2015</b> , 48, 1065-75	4.3	31
34	Alzheimer disease starts in childhood in polluted Metropolitan Mexico City. A major health crisis in progress. <i>Environmental Research</i> , <b>2020</b> , 183, 109137	7.9	30
33	Urban air pollution, poverty, violence and health--Neurological and immunological aspects as mediating factors. <i>Environmental Research</i> , <b>2015</b> , 140, 511-3	7.9	29
32	Air Pollution, Socioeconomic Status, and Children's Cognition in Megacities: The Mexico City Scenario. <i>Frontiers in Psychology</i> , <b>2012</b> , 3, 217	3.4	29
31	Nasal biopsies of children exposed to air pollutants. <i>Toxicologic Pathology</i> , <b>2001</b> , 29, 558-64	2.1	29
30	Urban air pollution produces up-regulation of myocardial inflammatory genes and dark chocolate provides cardioprotection. <i>Experimental and Toxicologic Pathology</i> , <b>2012</b> , 64, 297-306		28
29	Exposure to urban air pollution and bone health in clinically healthy six-year-old children. <i>Arhiv Za Higijenu Rada I Toksikologiju</i> , <b>2013</b> , 64, 23-34	1.7	27
28	Combustion-derived nanoparticles, the neuroenteric system, cervical vagus, hyperphosphorylated alpha synuclein and tau in young Mexico City residents. <i>Environmental Research</i> , <b>2017</b> , 159, 186-201	7.9	23
27	Flavonol-rich dark cocoa significantly decreases plasma endothelin-1 and improves cognition in urban children. <i>Frontiers in Pharmacology</i> , <b>2013</b> , 4, 104	5.6	23
26	Apolipoprotein E4, Gender, Body Mass Index, Inflammation, Insulin Resistance, and Air Pollution Interactions: Recipe for Alzheimer Disease Development in Mexico City Young Females. <i>Journal of Alzheimer's Disease</i> , <b>2017</b> , 58, 613-630	4.3	22
25	Effects of a cyclooxygenase-2 preferential inhibitor in young healthy dogs exposed to air pollution: a pilot study. <i>Toxicologic Pathology</i> , <b>2009</b> , 37, 644-60	2.1	20
24	Quadruple abnormal protein aggregates in brainstem pathology and exogenous metal-rich magnetic nanoparticles (and engineered Ti-rich nanorods). The substantia nigrae is a very early target in young urbanites and the gastrointestinal tract a key brainstem portal. <i>Environmental Research</i> , <b>2020</b> , 181, 110139	7.9	20

23	Air Pollution, Combustion and Friction Derived Nanoparticles, and Alzheimer's Disease in Urban Children and Young Adults. <i>Journal of Alzheimer's Disease</i> , <b>2019</b> , 70, 343-360	4.3	16
22	Intra-city Differences in Cardiac Expression of Inflammatory Genes and Inflammasomes in Young Urbanites: A Pilot Study. <i>Journal of Toxicologic Pathology</i> , <b>2012</b> , 25, 163-73	1.4	16
21	Mild Cognitive Impairment and Dementia Involving Multiple Cognitive Domains in Mexican Urbanites. <i>Journal of Alzheimer's Disease</i> , <b>2019</b> , 68, 1113-1123	4.3	16
20	Environmental Nanoparticles, SARS-CoV-2 Brain Involvement, and Potential Acceleration of Alzheimer's and Parkinson's Diseases in Young Urbanites Exposed to Air Pollution. <i>Journal of Alzheimer's Disease</i> , <b>2020</b> , 78, 479-503	4.3	15
19	The impact of air pollutants on the brain. <i>JAMA Psychiatry</i> , <b>2015</b> , 72, 529-30	14.5	14
18	Up-regulation of mRNA ventricular PRNP prion protein gene expression in air pollution highly exposed young urbanites: endoplasmic reticulum stress, glucose regulated protein 78, and nanosized particles. <i>International Journal of Molecular Sciences</i> , <b>2013</b> , 14, 23471-91	6.3	11
17	Exposures to fine particulate matter (PM) and ozone above USA standards are associated with auditory brainstem dysmorphology and abnormal auditory brainstem evoked potentials in healthy young dogs. <i>Environmental Research</i> , <b>2017</b> , 158, 324-332	7.9	10
16	Gait and balance disturbances are common in young urbanites and associated with cognitive impairment. Air pollution and the historical development of Alzheimer's disease in the young. <i>Environmental Research</i> , <b>2020</b> , 191, 110087	7.9	10
15	Increased Gain in the Auditory Pathway, Alzheimer's Disease Continuum, and Air Pollution: Peripheral and Central Auditory System Dysfunction Evolves Across Pediatric and Adult Urbanites. <i>Journal of Alzheimer's Disease</i> , <b>2019</b> , 70, 1275-1286	4.3	9
14	Non-Phosphorylated Tau in Cerebrospinal Fluid is a Marker of Alzheimer's Disease Continuum in Young Urbanites Exposed to Air Pollution. <i>Journal of Alzheimer's Disease</i> , <b>2018</b> , 66, 1437-1451	4.3	9
13	Smoking and Cerebral Oxidative Stress and Air Pollution: A Dreadful Equation with Particulate Matter Involved and One More Powerful Reason Not to Smoke Anything!. <i>Journal of Alzheimer's Disease</i> , <b>2016</b> , 54, 109-12	4.3	8
12	Chocolate, Air Pollution and Children's Neuroprotection: What Cognition Tools should be at Hand to Evaluate Interventions?. <i>Frontiers in Pharmacology</i> , <b>2016</b> , 7, 232	5.6	7
11	Particulate Air Pollution and Risk of Neuropsychiatric Outcomes. What We Breathe, Swallow, and Put on Our Skin Matters. <i>International Journal of Environmental Research and Public Health</i> , <b>2021</b> , 18,	4.6	6
10	Auditory Brainstem Dysfunction, Non-Invasive Biomarkers for Early Diagnosis and Monitoring of Alzheimer's Disease in Young Urban Residents Exposed to Air Pollution. <i>Journal of Alzheimer's Disease</i> , <b>2019</b> , 67, 1147-1155	4.3	6
9	Air Pollution, Ultrafine Particles, and Your Brain: Are Combustion Nanoparticle Emissions and Engineered Nanoparticles Causing Preventable Fatal Neurodegenerative Diseases and Common Neuropsychiatric Outcomes?. <i>Environmental Science &amp; Technology</i> , <b>2022</b> ,	10.3	5
8	Environmental Nanoparticles Reach Human Fetal Brains.. <i>Biomedicines</i> , <b>2022</b> , 10,	4.8	2
7	Brainstem Quadruple Aberrant Hyperphosphorylated Tau, Beta-Amyloid, Alpha-Synuclein and TDP-43 Pathology, Stress and Sleep Behavior Disorders. <i>International Journal of Environmental Research and Public Health</i> , <b>2021</b> , 18,	4.6	2
6	Environmental Fe, Ti, Al, Cu, Hg, Bi, and Si Nanoparticles in the Atrioventricular Conduction Axis and the Associated Ultrastructural Damage in Young Urbanites: Cardiac Arrhythmias Caused by Anthropogenic, Industrial, E-Waste, and Indoor Nanoparticles. <i>Environmental Science &amp; Technology</i> , <b>2021</b> , 55, 8203-8214	10.3	1

- 5 Parkinson disease and air pollution: does what we breathe matter?. *Nature Reviews Neurology*, **2021**, 17, 467-468 15 1
- 4 A perspective on persistent toxicants in veterans and amyotrophic lateral sclerosis: identifying exposures determining higher ALS risk.. *Journal of Neurology*, **2022**, 1 5.5 0
- 3 Metals, Nanoparticles, Particulate Matter, and Cognitive Decline.. *Frontiers in Neurology*, **2021**, 12, 7940741 1 0
- 2 Identification of aberrant white matter bundles entering the inferior cerebellar peduncle. *Neurology*, **2017**, 88, 106-107 6.5
- 1 Influence of Toxins on Olfactory Function and their Potential Association with Neurodegenerative Disease **2015**, 485-510