Ricardo Torres-JardÃ³n

List of Publications by Year
in descending order

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59	6,199	117453	133063
papers	citations	34 h-index	59 g-index

59	59	59	6063
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Magnetite pollution nanoparticles in the human brain. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 10797-10801.	3.3	746
2	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 Î²-42 and Î±-Synuclein in Children and Young Adults. Toxicologic Pathology, 2008, 36, 289-310.	0.9	718
3	Brain Inflammation and Alzheimer's-Like Pathology in Individuals Exposed to Severe Air Pollution. Toxicologic Pathology, 2004, 32, 650-658.	0.9	456
4	Air pollution, cognitive deficits and brain abnormalities: A pilot study with children and dogs. Brain and Cognition, 2008, 68, 117-127.	0.8	450
5	Urban air pollution: Influences on olfactory function and pathology in exposed children and young adults. Experimental and Toxicologic Pathology, 2010, 62, 91-102.	2.1	287
6	DNA Damage in Nasal and Brain Tissues of Canines Exposed to Air Pollutants Is Associated with Evidence of Chronic Brain Inflammation and Neurodegeneration. Toxicologic Pathology, 2003, 31, 524-538.	0.9	281
7	Exposure to severe urban air pollution influences cognitive outcomes, brain volume and systemic inflammation in clinically healthy children. Brain and Cognition, 2011, 77, 345-355.	0.8	256
8	Neuroinflammation, Hyperphosphorylated Tau, Diffuse Amyloid Plaques, and Down-Regulation of the Cellular Prion Protein in Air Pollution Exposed Children and Young Adults. Journal of Alzheimer's Disease, 2012, 28, 93-107.	1.2	234
9	Air pollution and your brain: what do you need to know right now. Primary Health Care Research and Development, 2015, 16, 329-345.	0.5	153
10	Pediatric Respiratory and Systemic Effects of Chronic Air Pollution Exposure: Nose, Lung, Heart, and Brain Pathology. Toxicologic Pathology, 2007, 35, 154-162.	0.9	140
11	Elevated Plasma Endothelin-1 and Pulmonary Arterial Pressure in Children Exposed to Air Pollution. Environmental Health Perspectives, 2007, 115, 1248-1253.	2.8	139
12	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's disease. Environmental Research, 2016, 146, 404-417.	3.7	135
13	The impact of environmental metals in young urbanitesâ€™ brains. Experimental and Toxicologic Pathology, 2013, 65, 503-511.	2.1	117
14	Combustion- and friction-derived magnetic air pollution nanoparticles in human hearts. Environmental Research, 2019, 176, 108567.	3.7	117
15	Air Pollution and Children: Neural and Tight Junction Antibodies and Combustion Metals, the Role of Barrier Breakdown and Brain Immunity in Neurodegeneration. Journal of Alzheimer's Disease, 2014, 43, 1039-1058.	1.2	110
16	Megacities air pollution problems: Mexico City Metropolitan Area critical issues on the central nervous system pediatric impact. Environmental Research, 2015, 137, 157-169.	3.7	101
17	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 â‰¤40 years of age. Environmental Research, 2018, 164, 475-487.	3.7	99
18	Early Alzheimerâ€™s and Parkinsonâ€™s Disease Pathology in Urban Children: Friend versus Foe Responsesâ€”It Is Time to Face the Evidence. BioMed Research International, 2013, 2013, 1-16.	0.9	96

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19	White Matter Hyperintensities, Systemic Inflammation, Brain Growth, and Cognitive Functions in Children Exposed to Air Pollution. Journal of Alzheimer's Disease, 2012, 31, 183-191.	1.2	95
20	Combustion-Derived Nanoparticles in Key Brain Target Cells and Organelles in Young Urbanites: Culprit Hidden in Plain Sight in Alzheimerâ€™s Disease Development. Journal of Alzheimer's Disease, 2017, 59, 189-208.	1.2	91
21	Immunotoxicity and Environment: Immunodysregulation and Systemic Inflammation in Children. Toxicologic Pathology, 2009, 37, 161-169.	0.9	86
22	Decreases in Short Term Memory, IQ, and Altered Brain Metabolic Ratios in Urban Apolipoprotein Îµ4 Children Exposed to Air Pollution. Journal of Alzheimer's Disease, 2015, 45, 757-770.	1.2	78
23	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. Environmental Research, 2015, 140, 579-592.	3.7	77
24	Cerebrospinal Fluid Biomarkers in Highly Exposed PM2.5 Urbanites: The Risk ofÂAlzheimerâ€™s and Parkinsonâ€™s Diseases inÂYoung Mexico City Residents. Journal of Alzheimer's Disease, 2016, 54, 597-613.	1.2	76
25	Air pollution is associated with brainstem auditory nuclei pathology and delayed brainstem auditory evoked potentials. International Journal of Developmental Neuroscience, 2011, 29, 365-375.	0.7	72
26	Alzheimer's disease and alpha-synuclein pathology in the olfactory bulbs of infants, children, teens and adults â‰¤40 years in Metropolitan Mexico City. APOE4 carriers at higher risk of suicide accelerate their olfactory bulb pathology. Environmental Research, 2018, 166, 348-362.	3.7	71
27	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. Environmental Research, 2016, 150, 411-422.	3.7	68
28	Brain immune interactions and air pollution: macrophage inhibitory factor (MIF), prion cellular protein (PrPC), 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 air pollution. Frontiers in Neuroscience, 2013, 7, 183.	1.4	64
29	Air pollution and detrimental effects on childrenÃ¢â‚¬â„¢s brain. The need for a multidisciplinary approach to the issue complexity and challenges. Frontiers in Human Neuroscience, 2014, 8, 613.	1.0	63
30	Alzheimer disease starts in childhood in polluted Metropolitan Mexico City. A major health crisis in progress. Environmental Research, 2020, 183, 109137.	3.7	58
31	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. Environmental Research, 2020, 191, 110139.	3.7	50
32	Exposure to Urban Air Pollution and Bone Health in Clinically Healthy Six-year-old Children. Arhiv Za Higijenu Rada I Toksikologiju, 2013, 64, 23-34.	0.4	43
33	A Critical Proton MR Spectroscopy Marker of Alzheimerâ€™s Disease Early Neurodegenerative Change: Low Hippocampal NAA/Cr Ratio Impacts APOE É›4 Mexico City Children and Their Parents. Journal of Alzheimer's Disease, 2015, 48, 1065-1075.	1.2	40
34	Urban Air Pollution Targets the Dorsal Vagal Complex and Dark Chocolate Offers Neuroprotection. International Journal of Toxicology, 2010, 29, 604-615.	0.6	38
35	Air Pollution, Socioeconomic Status, and Children's Cognition in Megacities: The Mexico City Scenario. Frontiers in Psychology, 2012, 3, 217.	1.1	36
36	Ozone over Mexico City during the COVID-19 pandemic. Science of the Total Environment, 2021, 761, 143183.	3.9	36

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37	Urban air pollution produces up-regulation of myocardial inflammatory genes and dark chocolate provides cardioprotection. Experimental and Toxicologic Pathology, 2012, 64, 297-306.	2.1	34
38	Air Pollution Levels and Trends in the Mexico City Metropolitan Area. Ecological Studies, 2002, , 121-159.	0.4	30
39	Environmental Nanoparticles, SARS-CoV-2 Brain Involvement, and Potential Acceleration of Alzheimerâ€™s and Parkinsonâ€™s Diseases in Young Urbanites Exposed to Air Pollution. Journal of Alzheimer's Disease, 2020, 78, 479-503.	1.2	28
40	Flavonol-rich dark cocoa significantly decreases plasma endothelin-1 and improves cognition in urban children. Frontiers in Pharmacology, 2013, 4, 104.	1.6	27
41	DNA Damage in Nasal and Brain Tissues of Canines Exposed to Air Pollutants Is Associated with Evidence of Chronic Brain Inflammation and Neurodegeneration. Toxicologic Pathology, 2003, 31, 524-538.	0.9	26
42	Mild Cognitive Impairment and Dementia Involving Multiple Cognitive Domains in Mexican Urbanites. Journal of Alzheimer's Disease, 2019, 68, 1113-1123.	1.2	24
43	Effects of a Cyclooxygenase-2 Preferential Inhibitor in Young Healthy Dogs Exposed to Air Pollution: A Pilot Study. Toxicologic Pathology, 2009, 37, 644-660.	0.9	23
44	Assessment of the Ozone-Nitrogen Oxide-Volatile Organic Compound Sensitivity of Mexico City through an Indicator-Based Approach: Measurements and Numerical Simulations Comparison. Journal of the Air and Waste Management Association, 2009, 59, 1155-1172.	0.9	23
45	Air Pollution, Combustion and Friction Derived Nanoparticles, and Alzheimerâ€™s Disease in Urban Children and Young Adults. Journal of Alzheimer's Disease, 2019, 70, 343-360.	1.2	23
46	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. Environmental Research, 2020, 191, 110087.	3.7	23
47	Environmental Nanoparticles Reach Human Fetal Brains. Biomedicines, 2022, 10, 410.	1.4	23
48	Measurements of formaldehyde at the U.S.â€“Mexico border during the Cal-Mex 2010 air quality study. Atmospheric Environment, 2013, 70, 513-520.	1.9	22
49	Intra-city Differences in Cardiac Expression of Inflammatory Genes and Inflammasomes in Young Urbanites: A Pilot Study. Journal of Toxicologic Pathology, 2012, 25, 163-173.	0.3	17
50	The Impact of Air Pollutants on the Brain. JAMA Psychiatry, 2015, 72, 529.	6.0	17
51	Exposures to fine particulate matter (PM2.5) and ozone above USA standards are associated with auditory brainstem dysmorphology and abnormal auditory brainstem evoked potentials in healthy young dogs. Environmental Research, 2017, 158, 324-332.	3.7	15
52	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. International Journal of Molecular Sciences, 2013, 14, 23471-23491.	1.8	14
53	Environmentally Toxic Solid Nanoparticles in Noradrenergic and Dopaminergic Nuclei and Cerebellum of Metropolitan Mexico City Children and Young Adults with Neural Quadruple Misfolded Protein Pathologies and High Exposures to Nano Particulate Matter. Toxics, 2022, 10, 164.	1.6	14
54	Hemispheric Cortical, Cerebellar and Caudate Atrophy Associated to Cognitive Impairment in Metropolitan Mexico City Young Adults Exposed to Fine Particulate Matter Air Pollution. Toxics, 2022, 10, 156.	1.6	11

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55	Evaluation of Ozone-Nitrogen Oxides-Volatile Organic Compound Sensitivity of Cincinnati, Ohio. Journal of the Air and Waste Management Association, 2006, 56, 322-333.	0.9	9
56	Determination of emission factors for climate forcers and air pollutants from improved wood-burning cookstoves in Mexico. Energy for Sustainable Development, 2019, 50, 61-68.	2.0	7
57	Metals, Nanoparticles, Particulate Matter, and Cognitive Decline. Frontiers in Neurology, 2021, 12, 794071.	1.1	6
58	Estimation of the Impact of Ozone on Four Economically Important Crops in the City Belt of Central Mexico. Atmosphere, 2018, 9, 223.	1.0	5
59	A comparison between Calâ€“Mex in Tijuana and Cal-Nex in Pasadena on aerosol optical properties, ozone and reactive nitrogen. Urban Climate, 2014, 10, 782-800.	2.4	1