

Alvaro Osornio-Vargas

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

107 papers	3,449 citations	31 h-index	56 g-index
145 ext. papers	3,992 ext. citations	4.4 avg, IF	5.19 L-index

#	Paper	IF	Citations
107	An overview of the MILAGRO 2006 Campaign: Mexico City emissions and their transport and transformation. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 8697-8760	6.8	296
106	Proinflammatory and cytotoxic effects of Mexico City air pollution particulate matter in vitro are dependent on particle size and composition. <i>Environmental Health Perspectives</i> , 2003 , 111, 1289-93	8.4	212
105	Aeroparticles, Composition, and Lung Diseases. <i>Frontiers in Immunology</i> , 2016 , 7, 3	8.4	180
104	Biologic effects induced in vitro by PM10 from three different zones of Mexico City. <i>Environmental Health Perspectives</i> , 2002 , 110, 715-20	8.4	155
103	Air pollution: An environmental factor contributing to intestinal disease. <i>Journal of Crohn's and Colitis</i> , 2011 , 5, 279-86	1.5	119
102	Differential proliferation of rat lung fibroblasts induced by the platelet-derived growth factor-AA, -AB, and -BB isoforms secreted by rat alveolar macrophages. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 1991 , 5, 539-47	5.7	98
101	A systematic review of data mining and machine learning for air pollution epidemiology. <i>BMC Public Health</i> , 2017 , 17, 907	4.1	95
100	Induction of the lung myofibroblast PDGF receptor system by urban ambient particles from Mexico City. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 1998 , 19, 672-80	5.7	95
99	Air pollution, inflammation and preterm birth: a potential mechanistic link. <i>Medical Hypotheses</i> , 2014 , 82, 219-24	3.8	85
98	Extrapulmonary silicosis: a clinical, morphologic, and ultrastructural study. <i>Human Pathology</i> , 1985 , 16, 393-412	3.7	83
97	Exposure to inhaled particulate matter activates early markers of oxidative stress, inflammation and unfolded protein response in rat striatum. <i>Toxicology Letters</i> , 2013 , 222, 146-54	4.4	81
96	104 House Rules and Clean Kids: The down-low on Tobacco. <i>Paediatrics and Child Health</i> , 2020 , 25, e43-e47	4.3	78
95	Air pollution particulate matter alters antimycobacterial respiratory epithelium innate immunity. <i>Infection and Immunity</i> , 2015 , 83, 2507-17	3.7	77
94	Relations between PM10 composition and cell toxicity: a multivariate and graphical approach. <i>Chemosphere</i> , 2007 , 67, 1218-28	8.4	71
93	DNA damage response of A549 cells treated with particulate matter (PM10) of urban air pollutants. <i>Cancer Letters</i> , 2009 , 278, 192-200	9.9	70
92	Characterization and in vitro biological effects of concentrated particulate matter from Mexico City. <i>Atmospheric Environment</i> , 2006 , 40, 583-592	5.3	70
91	Particulate matter Air Pollution induces hypermethylation of the p16 promoter Via a mitochondrial ROS-JNK-DNMT1 pathway. <i>Scientific Reports</i> , 2012 , 2, 275	4.9	68

90	TNF- α and IL-6 Responses to Particulate Matter in Vitro: Variation According to PM Size, Season, and Polycyclic Aromatic Hydrocarbon and Soil Content. <i>Environmental Health Perspectives</i> , 2016 , 124, 406-12	8.4	68
89	Induction of IL-6 and inhibition of IL-8 secretion in the human airway cell line Calu-3 by urban particulate matter collected with a modified method of PM sampling. <i>Environmental Research</i> , 2009 , 109, 528-35	7.9	64
88	PDGF-stimulated fibroblast proliferation is enhanced synergistically by receptor-recognized alpha 2-macroglobulin. <i>Journal of Cellular Physiology</i> , 1990 , 145, 1-8	7	53
87	Social determinants of health and adverse maternal and birth outcomes in adolescent pregnancies: A systematic review and meta-analysis. <i>Paediatric and Perinatal Epidemiology</i> , 2019 , 33, 88-99	2.7	53
86	Air pollution and genomic instability: The role of particulate matter in lung carcinogenesis. <i>Environmental Pollution</i> , 2017 , 229, 412-422	9.3	52
85	PM(10) impairs the antioxidant defense system and exacerbates oxidative stress driven cell death. <i>Toxicology Letters</i> , 2010 , 193, 209-16	4.4	51
84	In vitro biological effects of airborne PM ₁₀ and PM _{2.5} from a semi-desert city on the Mexico-US border. <i>Chemosphere</i> , 2011 , 83, 618-26	8.4	50
83	The effect of composition, size, and solubility on acute pulmonary injury in rats following exposure to Mexico city ambient particulate matter samples. <i>Journal of Toxicology and Environmental Health - Part A: Current Issues</i> , 2014 , 77, 1164-82	3.2	42
82	Land use regression models to assess air pollution exposure in Mexico City using finer spatial and temporal input parameters. <i>Science of the Total Environment</i> , 2018 , 639, 40-48	10.2	42
81	An assessment of air pollutant exposure methods in Mexico City, Mexico. <i>Journal of the Air and Waste Management Association</i> , 2015 , 65, 581-91	2.4	40
80	Ambient particulate matter induces interleukin-8 expression through an alternative NF- κ B (nuclear factor-kappa B) mechanism in human airway epithelial cells. <i>Environmental Health Perspectives</i> , 2011 , 119, 1379-83	8.4	39
79	On discovering co-location patterns in datasets: a case study of pollutants and child cancers. <i>Geoinformatica</i> , 2016 , 20, 651-692	2.5	37
78	E-Selectin expression in human endothelial cells exposed to PM ₁₀ : the role of endotoxin and insoluble fraction. <i>Environmental Research</i> , 2007 , 103, 221-8	7.9	34
77	Trends in childhood cancer incidence: review of environmental linkages. <i>Pediatric Clinics of North America</i> , 2007 , 54, 177-203, x	3.6	32
76	Variation in the composition and in vitro proinflammatory effect of urban particulate matter from different sites. <i>Journal of Biochemical and Molecular Toxicology</i> , 2013 , 27, 87-97	3.4	30
75	Exposure to Beta-(1,3)-D-glucan in house dust at age 7-10 is associated with airway hyperresponsiveness and atopic asthma by age 11-14. <i>PLoS ONE</i> , 2014 , 9, e98878	3.7	30
74	Development of a Canadian socioeconomic status index for the study of health outcomes related to environmental pollution. <i>BMC Public Health</i> , 2015 , 15, 714	4.1	29
73	Atmospheric particulate matter (PM ₁₀) exposure-induced cell cycle arrest and apoptosis evasion through STAT3 activation via PKC δ and Src kinases in lung cells. <i>Environmental Pollution</i> , 2016 , 214, 646-656	9.3	29

72	Cytoplasmic p21(CIP1/WAF1), ERK1/2 activation, and cytoskeletal remodeling are associated with the senescence-like phenotype after airborne particulate matter (PM(10)) exposure in lung cells. <i>Toxicology Letters</i> , 2014 , 225, 12-9	4.4	27
71	Inhalation of concentrated PM from Mexico City acts as an adjuvant in a guinea pig model of allergic asthma. <i>Environmental Pollution</i> , 2017 , 228, 474-483	9.3	26
70	Differential binding and regulation of platelet-derived growth factor A and B chain isoforms by alpha 2-macroglobulin. <i>Journal of Biological Chemistry</i> , 1995 , 270, 16236-42	5.4	26
69	Rat alveolar macrophage-derived platelet-derived growth factor is chemotactic for rat lung fibroblasts. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 1990 , 3, 595-602	5.7	26
68	Ambient particulate matter affects cardiac recovery in a Langendorff ischemia model. <i>Inhalation Toxicology</i> , 2006 , 18, 633-43	2.7	25
67	Airborne particulate matter in vitro exposure induces cytoskeleton remodeling through activation of the ROCK-MYPT1-MLC pathway in A549 epithelial lung cells. <i>Toxicology Letters</i> , 2017 , 272, 29-37	4.4	23
66	Urban Air Pollution Particulates Suppress Human T-Cell Responses to. <i>International Journal of Environmental Research and Public Health</i> , 2019 , 16,	4.6	23
65	The effects of outdoor air pollution on the respiratory health of Canadian children: A systematic review of epidemiological studies. <i>Canadian Respiratory Journal</i> , 2015 , 22, 282-92	2.1	23
64	Induction of c-Jun by air particulate matter (PM ₁₀) of Mexico city: Participation of polycyclic aromatic hydrocarbons. <i>Environmental Pollution</i> , 2015 , 203, 175-182	9.3	22
63	Particulate matter (PM ₁₀) induces metalloprotease activity and invasion in airway epithelial cells. <i>Toxicology Letters</i> , 2015 , 237, 167-73	4.4	22
62	Urban airborne particle exposure impairs human lung and blood immunity. <i>Thorax</i> , 2019 , 74, 675-683	7.3	21
61	Air pollution, inflammation and preterm birth in Mexico City: study design and methods. <i>Science of the Total Environment</i> , 2013 , 448, 79-83	10.2	21
60	In utero exposure to ultrafine particles promotes placental stress-induced programming of renin-angiotensin system-related elements in the offspring results in altered blood pressure in adult mice. <i>Particle and Fibre Toxicology</i> , 2019 , 16, 7	8.4	21
59	The effects of air pollution on the health of children. <i>Paediatrics and Child Health</i> , 2006 , 11, 513-6	0.7	20
58	Season and size of urban particulate matter differentially affect cytotoxicity and human immune responses to Mycobacterium tuberculosis. <i>PLoS ONE</i> , 2019 , 14, e0219122	3.7	18
57	Mortality due to lung cancer in Mexico. <i>Lung Cancer</i> , 2007 , 58, 184-90	5.9	18
56	Lung cell toxicity experimentally induced by a mixed dust from Mexicali, Baja California, Mexico. <i>Environmental Research</i> , 1991 , 56, 31-47	7.9	18
55	The oxidative potential and biological effects induced by PM ₁₀ obtained in Mexico City and at a receptor site during the MILAGRO Campaign. <i>Environmental Pollution</i> , 2011 , 159, 3446-54	9.3	16

54	Potential toxic effects associated to metals and endotoxin present in PM10: an ancillary study using multivariate analysis. <i>Inhalation Toxicology</i> , 2007 , 19 Suppl 1, 49-53	2.7	16
53	Using pollutant release and transfer register data in human health research: a scoping review. <i>Environmental Reviews</i> , 2014 , 22, 51-65	4.5	15
52	Proinflammatory effects of dust storm and thermal inversion particulate matter (PM) on human peripheral blood mononuclear cells (PBMCs) in vitro: a comparative approach and analysis. <i>Journal of Environmental Health Science & Engineering</i> , 2019 , 17, 433-444	2.9	14
51	Natural environments in the urban context and gut microbiota in infants. <i>Environment International</i> , 2020 , 142, 105881	12.9	14
50	Inorganic particles induce secretion of a macrophage homologue of platelet-derived growth factor in a density-and time-dependent manner in vitro. <i>Experimental Lung Research</i> , 1991 , 17, 1011-24	2.3	14
49	Interdisciplinary-driven hypotheses on spatial associations of mixtures of industrial air pollutants with adverse birth outcomes. <i>Environment International</i> , 2019 , 131, 104972	12.9	13
48	Maternal Area of Residence, Socioeconomic Status, and Risk of Adverse Maternal and Birth Outcomes in Adolescent Mothers. <i>Journal of Obstetrics and Gynaecology Canada</i> , 2019 , 41, 1752-1759	1.3	13
47	Sampling and composition of airborne particulate matter (PM10) from two locations of Mexico City. <i>Data in Brief</i> , 2015 , 4, 353-6	1.2	12
46	The role of socioeconomic position as an effect-modifier of the association between outdoor air pollution and children's asthma exacerbations: an equity-focused systematic review. <i>Reviews on Environmental Health</i> , 2016 , 31, 297-309	3.8	12
45	Discovering Statistically Significant Co-location Rules in Datasets with Extended Spatial Objects. <i>Lecture Notes in Computer Science</i> , 2014 , 124-135	0.9	12
44	Using maps to communicate environmental exposures and health risks: Review and best-practice recommendations. <i>Environmental Research</i> , 2019 , 176, 108518	7.9	10
43	Human cervical cancer-associated nuclear matrix proteins. <i>Experimental Cell Research</i> , 1998 , 244, 14-25	4.2	10
42	Proximity to two main sources of industrial outdoor air pollution and emergency department visits for childhood asthma in Edmonton, Canada. <i>Canadian Journal of Public Health</i> , 2018 , 108, e523-e529	3.2	9
41	Early-passage rat lung fibroblasts do not migrate in vitro to transforming growth factor-beta. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 1993 , 8, 468-71	5.7	9
40	Ambient air pollution and children's health: A systematic review of Canadian epidemiological studies. <i>Paediatrics and Child Health</i> , 2007 , 12, 225-33	0.7	9
39	Exposure to ambient particulate matter induces oxidative stress in lung and aorta in a size- and time-dependent manner in rats. <i>Toxicology Research and Application</i> , 2018 , 2, 239784731879485	0.8	9
38	Mapping outdoor habitat and abnormally small newborns to develop an ambient health hazard index. <i>International Journal of Health Geographics</i> , 2017 , 16, 43	3.5	8
37	Priming of cytokine release and increased levels of bactericidal permeability-increasing protein in the blood of animal facility workers. <i>International Archives of Occupational and Environmental Health</i> , 1999 , 72, 323-9	3.2	8

36	Discovering Co-location Patterns in Datasets with Extended Spatial Objects. <i>Lecture Notes in Computer Science</i> , 2013 , 84-96	0.9	8
35	Chemical composition of PM and its effect on in vitro hemolysis of human red blood cells (RBCs): a comparison study during dust storm and inversion. <i>Journal of Environmental Health Science & Engineering</i> , 2019 , 17, 493-502	2.9	7
34	Air pollution and children's respiratory health: a scoping review of socioeconomic status as an effect modifier. <i>International Journal of Public Health</i> , 2020 , 65, 649-660	4	7
33	Socioeconomic gradients of adverse birth outcomes and related maternal factors in rural and urban Alberta, Canada: a concentration index approach. <i>BMJ Open</i> , 2020 , 10, e033296	3	7
32	Fish consumption by children in Canada: Review of evidence, challenges and future goals. <i>Paediatrics and Child Health</i> , 2012 , 17, 241-5	0.7	7
31	Ferruginous bodies as markers of environmental exposure to inorganic particles: experience with 270 autopsy cases in Mexico. <i>Environmental Research</i> , 1994 , 64, 10-7	7.9	7
30	Wildfire exposure during pregnancy and the risk of adverse birth outcomes: A systematic review. <i>Environment International</i> , 2021 , 156, 106644	12.9	7
29	Spatiotemporal Patterns of Small for Gestational Age and Low Birth Weight Births and Associations With Land Use and Socioeconomic Status. <i>Environmental Health Insights</i> , 2019 , 13, 1178630219869922	1.4	6
28	Particulate matter promotes in vitro receptor-recognizable low-density lipoprotein oxidation and dysfunction of lipid receptors. <i>Journal of Biochemical and Molecular Toxicology</i> , 2013 , 27, 69-76	3.4	6
27	Cellular Mechanisms behind Particulate Matter Air PollutionRelated Health Effects 2010 , 249-274		6
26	Animal and worker exposure to dust and biological particles in animal care houses. <i>Aerobiologia</i> , 2001 , 17, 49-59	2.4	6
25	Stated benefits from air quality improvement through urban afforestation in an arid city A contingent valuation in Mexicali, Baja California, Mexico. <i>Urban Forestry and Urban Greening</i> , 2020 , 55, 126854	5.4	6
24	Systematic review of the measurement properties of indices of prenatal care utilization. <i>BMC Pregnancy and Childbirth</i> , 2020 , 20, 171	3.2	5
23	Assessing the Influence of Socioeconomic Status and Air Pollution Levels on the Public Perception of Local Air Quality in a Mexico-US Border City. <i>International Journal of Environmental Research and Public Health</i> , 2020 , 17,	4.6	5
22	Industrial Developmental Toxicants and Congenital Heart Disease in Urban and Rural Alberta, Canada. <i>Challenges</i> , 2018 , 9, 26	3.4	5
21	Space-time hot spots of critically ill small for gestational age newborns and industrial air pollutants in major metropolitan areas of Canada. <i>Environmental Research</i> , 2020 , 186, 109472	7.9	4
20	Food additives, essential nutrients and neurodevelopmental behavioural disorders in children: A brief review. <i>Paediatrics and Child Health</i> , 2011 , 16, e54-6	0.7	4
19	Melamine food contamination: Relevance to Canadian children. <i>Paediatrics and Child Health</i> , 2009 , 14, 222-4	0.7	4

18	Geographic information assessment of maternal ambient health hazards and adverse birth outcomes in Canada. <i>Science of the Total Environment</i> , 2019 , 696, 134091	10.2	4
17	The index lift in data mining has a close relationship with the association measure relative risk in epidemiological studies. <i>BMC Medical Informatics and Decision Making</i> , 2019 , 19, 112	3.6	3
16	Discovering co-location patterns with aggregated spatial transactions and dependency rules. <i>International Journal of Data Science and Analytics</i> , 2018 , 5, 137-154	2	3
15	A Collaborative Research Exploration of Pollutant Mixtures and Adverse Birth Outcomes by Using Innovative Spatial Data Mining Methods: The DoMiNO Project. <i>Challenges</i> , 2019 , 10, 25	3.4	2
14	Building a children's health and environment research agenda in Alberta, Canada: A multi-stakeholder engagement process. <i>Gateways: International Journal of Community Research and Engagement</i> , 2019 , 12,	1	2
13	The role of socioeconomic status and the development of congenital heart disease: A scoping review. <i>Advances in Pediatric Research</i> ,	3.5	2
12	Geographical Analysis of the Distribution of Publications Describing Spatial Associations among Outdoor Environmental Variables and Really Small Newborns in the USA and Canada. <i>Challenges</i> , 2019 , 10, 11	3.4	1
11	The effects of air pollution on the health of children. <i>Paediatrics and Child Health</i> , 2006 ,	0.7	1
10	Discovering spatial contrast and common sets with statistically significant co-location patterns 2017 ,		1
9	Barriers and opportunities to incorporate scientific evidence into air quality management in Mexico: A stakeholders perspective. <i>Environmental Science and Policy</i> , 2022 , 129, 87-95	6.2	1
8	Long-term exposure to particulate matter from air pollution alters airway defensin-3 and -4 and cathelicidin host defense peptides production in a murine model. <i>Peptides</i> , 2021 , 142, 170581	3.8	1
7	Residential proximity to greenness and adverse birth outcomes in urban areas: Findings from a national Canadian population-based study. <i>Environmental Research</i> , 2022 , 204, 112344	7.9	0
6	PM induces airway hyperresponsiveness and inflammation via the AhR pathway in a sensitized Guinea pig asthma-like model. <i>Toxicology</i> , 2021 , 465, 153026	4.4	0
5	Patterns of respiratory health services utilization from birth to 5 years of children who experienced adverse birth outcomes. <i>PLoS ONE</i> , 2021 , 16, e0247527	3.7	0
4	Effect of titanium dioxide nanoparticles on DNA methylation of human peripheral blood mononuclear cells. <i>Toxicology Research</i> , 2021 , 10, 1045-1051	2.6	0
3	AI Applied to Air Pollution and Environmental Health: A Case Study on Hypothesis Generation 2022 , 195-222		
2	Tracking Trends in Emissions of Developmental Toxicants and Potential Associations with Congenital Heart Disease in Alberta, Canada. <i>Challenges</i> , 2018 , 9, 28	3.4	
1	A case study unpacking the collaborative research process: Eight essential components. <i>Environmental Science and Policy</i> , 2022 , 131, 209-220	6.2	

