Eric Lavigne

List of Publications by Year
in descending order

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117 papers	9,941 citations	53939 47 h-index	43601 95 g-index
121 all docs	121 docs citations	121 times ranked	9959 citing authors

#	Article	IF	Citations
1	Mortality risk attributable to high and low ambient temperature: a multicountry observational study. Lancet, The, 2015, 386, 369-375.	6.3	1,676
2	Ambient Particulate Air Pollution and Daily Mortality in 652 Cities. New England Journal of Medicine, 2019, 381, 705-715.	13.9	978
3	Projections of temperature-related excess mortality under climate change scenarios. Lancet Planetary Health, The, 2017, 1, e360-e367.	5.1	497
4	Global Variation in the Effects of Ambient Temperature on Mortality. Epidemiology, 2014, 25, 781-789.	1.2	451
5	The burden of heat-related mortality attributable to recent human-induced climate change. Nature Climate Change, 2021, 11, 492-500.	8.1	400
6	Temporal Variation in Heatâ€“Mortality Associations: A Multicountry Study. Environmental Health Perspectives, 2015, 123, 1200-1207.	2.8	326
7	Heat Wave and Mortality: A Multicountry, Multicommunity Study. Environmental Health Perspectives, 2017, 125, 087006.	2.8	320
8	Global, regional, and national burden of mortality associated with non-optimal ambient temperatures from 2000 to 2019: a three-stage modelling study. Lancet Planetary Health, The, 2021, 5, e415-e425.	5.1	284
9	Quantifying excess deaths related to heatwaves under climate change scenarios: A multicountry time series modelling study. PLoS Medicine, 2018, 15, e1002629.	3.9	232
10	Temperature Variability and Mortality: A Multi-Country Study. Environmental Health Perspectives, 2016, 124, 1554-1559.	2.8	213
11	How urban characteristics affect vulnerability to heat and cold: a multi-country analysis. International Journal of Epidemiology, 2019, 48, 1101-1112.	0.9	131
12	Ambient air pollution and adverse birth outcomes: Differences by maternal comorbidities. Environmental Research, 2016, 148, 457-466.	3.7	129
13	Exposure to wind turbine noise: Perceptual responses and reported health effects. Journal of the Acoustical Society of America, 2016, 139, 1443-1454.	0.5	128
14	Acute impacts of extreme temperature exposure on emergency room admissions related to mental and behavior disorders in Toronto, Canada. Journal of Affective Disorders, 2014, 155, 154-161.	2.0	127
15	A multi-country analysis on potential adaptive mechanisms to cold and heat in a changing climate. Environment International, 2018, 111, 239-246.	4.8	125
16	Ambient PM2.5 and risk of emergency room visits for myocardial infarction: impact of regional PM2.5 oxidative potential: a case-crossover study. Environmental Health, 2016, 15, 46.	1.7	119
17	Childhood autism spectrum disorders and exposure to nitrogen dioxide, and particulate matter air pollution: A review and meta-analysis. Environmental Research, 2016, 151, 763-776.	3.7	114
18	Short term association between ozone and mortality: global two stage time series study in 406 locations in 20 countries. BMJ, The, 2020, 368, m108.	3.0	109

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19	Mortality risk attributable to wildfire-related PM2Â·5 pollution: a global time series study in 749 locations. Lancet Planetary Health, The, 2021, 5, e579-e587.	5.1	109
20	Temperature-related mortality impacts under and beyond Paris Agreement climate change scenarios. Climatic Change, 2018, 150, 391-402.	1.7	107
21	Changes in Susceptibility to Heat During the Summer: A Multicountry Analysis. American Journal of Epidemiology, 2016, 183, 1027-1036.	1.6	106
22	Associations between long-term PM2.5 and ozone exposure and mortality in the Canadian Census Health and Environment Cohort (CANCHEC), by spatial synoptic classification zone. Environment International, 2018, 111, 200-211.	4.8	102
23	Exposure to ambient air pollution and the incidence of congestive heart failure and acute myocardial infarction: A population-based study of 5.1 million Canadian adults living in Ontario. Environment International, 2019, 132, 105004.	4.8	102
24	Suicide and Ambient Temperature: A Multi-Country Multi-City Study. Environmental Health Perspectives, 2019, 127, 117007.	2.8	102
25	Short term associations of ambient nitrogen dioxide with daily total, cardiovascular, and respiratory mortality: multilocation analysis in 398 cities. BMJ, The, 2021, 372, n534.	3.0	99
26	Fine Particulate Matter and Emergency Room Visits for Respiratory Illness. Effect Modification by Oxidative Potential. American Journal of Respiratory and Critical Care Medicine, 2016, 194, 577-586.	2.5	97
27	Oxidative burden of fine particulate air pollution and risk of cause-specific mortality in the Canadian Census Health and Environment Cohort (CanCHEC). Environmental Research, 2016, 146, 92-99.	3.7	89
28	Maternal exposure to ambient air pollution and risk of early childhood cancers: A population-based study in Ontario, Canada. Environment International, 2017, 100, 139-147.	4.8	84
29	The Role of Humidity in Associations of High Temperature with Mortality: A Multicountry, Multicity Study. Environmental Health Perspectives, 2019, 127, 97007.	2.8	84
30	Personal and situational variables associated with wind turbine noise annoyance. Journal of the Acoustical Society of America, 2016, 139, 1455-1466.	0.5	75
31	Increased coronary heart disease and stroke hospitalisations from ambient temperatures in Ontario. Heart, 2018, 104, 673-679.	1.2	75
32	Mortality burden of diurnal temperature range and its temporal changes: A multi-country study. Environment International, 2018, 110, 123-130.	4.8	72
33	Air Conditioning and Heat-related Mortality. Epidemiology, 2020, 31, 779-787.	1.2	72
34	Air Pollution as a Risk Factor for Incident Chronic Obstructive Pulmonary Disease and Asthma. A 15-Year Population-based Cohort Study. American Journal of Respiratory and Critical Care Medicine, 2021, 203, 1138-1148.	2.5	71
35	Fine Particulate Air Pollution and Adverse Birth Outcomes: Effect Modification by Regional Nonvolatile Oxidative Potential. Environmental Health Perspectives, 2018, 126, 077012.	2.8	66
36	A cross-sectional analysis of meteorological factors and SARS-CoV-2 transmission in 409 cities across 26 countries. Nature Communications, 2021, 12, 5968.	5.8	66

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37	Spatiotemporal Variations in Ambient Ultrafine Particles and the Incidence of Childhood Asthma. American Journal of Respiratory and Critical Care Medicine, 2019, 199, 1487-1495.	2.5	64
38	Extreme ambient temperatures and cardiorespiratory emergency room visits: assessing risk by comorbid health conditions in a time series study. Environmental Health, 2014, 13, 5.	1.7	60
39	Biomass Burning as a Source of Ambient Fine Particulate Air Pollution and Acute Myocardial Infarction. Epidemiology, 2017, 28, 329-337.	1.2	60
40	Effect modification of perinatal exposure to air pollution and childhood asthma incidence. European Respiratory Journal, 2018, 51, 1701884.	3.1	57
41	Residential Greenness and Cardiovascular Disease Incidence, Readmission, and Mortality. Environmental Health Perspectives, 2020, 128, 87005.	2.8	56
42	Projections of excess mortality related to diurnal temperature range under climate change scenarios: a multi-country modelling study. Lancet Planetary Health, The, 2020, 4, e512-e521.	5.1	56
43	Urban green space and the risks of dementia and stroke. Environmental Research, 2020, 186, 109520.	3.7	56
44	Air Pollution and Emergency Department Visits for Asthma in Windsor, Canada. Canadian Journal of Public Health, 2012, 103, 4-8.	1.1	55
45	The association between the incidence of postmenopausal breast cancer and concentrations at street-level of nitrogen dioxide and ultrafine particles. Environmental Research, 2017, 158, 7-15.	3.7	55
46	Exposure to ambient air pollution and the incidence of lung cancer and breast cancer in the Ontario Population Health and Environment Cohort. International Journal of Cancer, 2020, 146, 2450-2459.	2.3	53
47	Longer-Term Impact of High and Low Temperature on Mortality: An International Study to Clarify Length of Mortality Displacement. Environmental Health Perspectives, 2017, 125, 107009.	2.8	52
48	The impact of air pollution on the incidence of diabetes and survival among prevalent diabetes cases. Environment International, 2020, 134, 105333.	4.8	50
49	Within-city Spatial Variations in Ambient Ultrafine Particle Concentrations and Incident Brain Tumors in Adults. Epidemiology, 2020, 31, 177-183.	1.2	50
50	An assessment of quality of life using the WHOQOL-BREF among participants living in the vicinity of wind turbines. Environmental Research, 2015, 142, 227-238.	3.7	49
51	Air pollution in the week prior to delivery and preterm birth in 24 Canadian cities: a time to event analysis. Environmental Health, 2019, 18, 1.	1.7	49
52	Breast cancer detection and survival among women with cosmetic breast implants: systematic review and meta-analysis of observational studies. BMJ, The, 2013, 346, f2399-f2399.	3.0	44
53	Hospitalizations from Hypertensive Diseases, Diabetes, and Arrhythmia in Relation to Low and High Temperatures: Population-Based Study. Scientific Reports, 2016, 6, 30283.	1.6	44
54	Comparison of weather station and climate reanalysis data for modelling temperature-related mortality. Scientific Reports, 2022, 12, 5178.	1.6	42

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55	Air Pollution Exposure During Pregnancy and Fetal Markers of Metabolic Function. American Journal of Epidemiology, 2016, 183, 842-851.	1.6	39
56	Understanding the Joint Impacts of Fine Particulate Matter Concentration and Composition on the Incidence and Mortality of Cardiovascular Disease: A Component-Adjusted Approach. Environmental Science & Technology, 2020, 54, 4388-4399.	4.6	36
57	Assessment of the effect of cold and hot temperatures on mortality in Ontario, Canada: a population-based study. CMAJ Open, 2016, 4, E48-E58.	1.1	35
58	Systematic review and meta-analysis of cohort studies of long term outdoor nitrogen dioxide exposure and mortality. PLoS ONE, 2021, 16, e0246451.	1.1	35
59	Ambient carbon monoxide and daily mortality: a global time-series study in 337 cities. Lancet Planetary Health, The, 2021, 5, e191-e199.	5.1	35
60	Association of Sulfur, Transition Metals, and the Oxidative Potential of Outdoor PM2.5 with Acute Cardiovascular Events: A Case-Crossover Study of Canadian Adults. Environmental Health Perspectives, 2021, 129, 107005.	2.8	35
61	Predicted temperature-increase-induced global health burden and its regional variability. Environment International, 2019, 131, 105027.	4.8	34
62	Geospatial relationships of air pollution and acute asthma events across the Detroitâ€“Windsor international border: Study design and preliminary results. Journal of Exposure Science and Environmental Epidemiology, 2014, 24, 346-357.	1.8	33
63	Spatial variations in ambient ultrafine particle concentrations and the risk of incident prostate cancer: A case-control study. Environmental Research, 2017, 156, 374-380.	3.7	33
64	Ambient air pollution and the risk of pediatric-onset inflammatory bowel disease: A population-based cohort study. Environment International, 2020, 138, 105676.	4.8	32
65	Fine particulate matter concentration and composition and the incidence of childhood asthma. Environment International, 2021, 152, 106486.	4.8	30
66	Residential greenness and indicators of stress and mental well-being in a Canadian national-level survey. Environmental Research, 2021, 192, 110267.	3.7	29
67	Geographical Variations of the Minimum Mortality Temperature at a Global Scale. Environmental Epidemiology, 2021, 5, e169.	1.4	28
68	Residential Greenspace in Childhood Reduces Risk of Pediatric Inflammatory Bowel Disease: A Population-Based Cohort Study. American Journal of Gastroenterology, 2021, 116, 347-353.	0.2	28
69	Air Pollution During Pregnancy and Cord Blood Immune System Biomarkers. Journal of Occupational and Environmental Medicine, 2016, 58, 979-986.	0.9	27
70	Global, regional, and national burden of mortality associated with short-term temperature variability from 2000â€“19: a three-stage modelling study. Lancet Planetary Health, The, 2022, 6, e410-e421.	5.1	27
71	Psychosocial work environment, interpersonal violence at work and psychotropic drug use among correctional officers. International Journal of Law and Psychiatry, 2010, 33, 122-129.	0.5	26
72	Differential Mortality Risks Associated With PM2.5 Components. Epidemiology, 2022, 33, 167-175.	1.2	26

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73	Canadian breast implant cohort: Extended followâ€up of cancer incidence. International Journal of Cancer, 2012, 131, E1148-57.	2.3	25
74	Spatial variations in ambient ultrafine particle concentrations and risk of congenital heart defects. Environment International, 2019, 130, 104953.	4.8	25
75	Airborne Pollen Concentrations and Emergency Room Visits for Myocardial Infarction: A Multicity Case-Crossover Study in Ontario, Canada. American Journal of Epidemiology, 2016, 183, 613-621.	1.6	24
76	Ambient air pollution and incidence of early-onset paediatric type 1 diabetes: A retrospective population-based cohort study. Environmental Research, 2020, 184, 109291.	3.7	24
77	Association of short-term exposure to fine particulate air pollution and mortality: effect modification by oxidant gases. Scientific Reports, 2018, 8, 16097.	1.6	22
78	Ambient air pollution and the risk of acute myocardial infarction and stroke: A national cohort study. Environmental Research, 2022, 204, 111975.	3.7	21
79	Aeroallergens in Canada: Distribution, Public Health Impacts, and Opportunities for Prevention. International Journal of Environmental Research and Public Health, 2018, 15, 1577.	1.2	20
80	Seasonal variation in mortality and the role of temperature: a multi-country multi-city study. International Journal of Epidemiology, 2022, 51, 122-133.	0.9	20
81	Estimating annoyance to calculated wind turbine shadow flicker is improved when variables associated with wind turbine noise exposure are considered. Journal of the Acoustical Society of America, 2016, 139, 1480-1492.	0.5	18
82	Ambient Temperature and the Risk of Renal Colic: A Population-Based Study of the Impact of Demographics and Comorbidity. Journal of Endourology, 2016, 30, 1138-1143.	1.1	17
83	Exhaust ventilation in attached garages improves residential indoor air quality. Indoor Air, 2017, 27, 487-499.	2.0	17
84	Critical Time Windows for Air Pollution Exposure and Birth Weight in a Multicity Canadian Pregnancy Cohort. Epidemiology, 2022, 33, 7-16.	1.2	16
85	Short-term changes in meteorological conditions and suicide: A systematic review and meta-analysis. Environmental Research, 2022, 207, 112230.	3.7	16
86	Systematic review and meta-analysis of case-crossover and time-series studies of short term outdoor nitrogen dioxide exposure and ischemic heart disease morbidity. Environmental Health, 2020, 19, 47.	1.7	14
87	Tree characteristics and environmental noise in complex urban settings â€“ A case study from Montreal, Canada. Environmental Research, 2021, 202, 111887.	3.7	14
88	Global Health Impacts for Economic Models of Climate Change: A Systematic Review and Meta-Analysis. Annals of the American Thoracic Society, 2022, 19, 1203-1212.	1.5	14
89	Short-term exposure to ambient air pollution and individual emergency department visits for COVID-19: a case-crossover study in Canada. Thorax, 2023, 78, 459-466.	2.7	14
90	Toward an Improved Air Pollution Warning System in Quebec. International Journal of Environmental Research and Public Health, 2019, 16, 2095.	1.2	12

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91	Ambient ultrafine particle concentrations and incidence of childhood cancers. Environment International, 2020, 145, 106135.	4.8	12
92	Exploration of the spatial patterns and determinants of asthma prevalence and health services use in Ontario using a Bayesian approach. PLoS ONE, 2018, 13, e0208205.	1.1	11
93	A heat-health watch and warning system with extended season and evolving thresholds. BMC Public Health, 2021, 21, 1479.	1.2	11
94	Residential proximity to greenness and adverse birth outcomes in urban areas: Findings from a national Canadian population-based study. Environmental Research, 2022, 204, 112344.	3.7	11
95	A pilot study: research poster presentations as an educational tool for undergraduate epidemiology students. Advances in Medical Education and Practice, 2013, 4, 183.	0.7	10
96	Estimating risk of emergency room visits for asthma from personal versus fixed site measurements of NO2. Environmental Research, 2015, 137, 323-328.	3.7	10
97	Do Breast Implants Adversely Affect Prognosis among Those Subsequently Diagnosed with Breast Cancer? Findings from an Extended Follow-Up of a Canadian Cohort. Cancer Epidemiology Biomarkers and Prevention, 2012, 21, 1868-1876.	1.1	9
98	Self-reported and objectively measured health indicators among a sample of Canadians living within the vicinity of industrial wind turbines: Social survey and sound level modelling methodology. Noise Control Engineering Journal, 2013, 21, 122-131.	0.1	9
99	Extreme heat and paediatric emergency department visits in Southwestern Ontario. Paediatrics and Child Health, 2021, 26, 305-309.	0.3	9
100	Mortality and hospital admission rates for unintentional nonfire-related carbon monoxide poisoning across Canada: a trend analysis. CMAJ Open, 2015, 3, E223-E230.	1.1	7
101	A cold-health watch and warning system, applied to the province of Quebec (Canada). Science of the Total Environment, 2020, 741, 140188.	3.9	7
102	Maternal Exposure to Aeroallergens and the Risk of Early Delivery. Epidemiology, 2017, 28, 107-115.	1.2	7
103	Fluctuating temperature modifies heat-mortality association around the globe. Innovation(China), 2022, 3, 100225.	5.2	7
104	Clarifications on the Design and Interpretation of Conclusions from Health Canadaâ€™s Study on Wind Turbine Noise and Health. Acoustics Australia, 2018, 46, 99-110.	1.4	6
105	Number concentrations of ultrafine particles and the incidence of postmenopausal breast cancer. Environmental Epidemiology, 2018, 2, e006.	1.4	4
106	Within city spatiotemporal variation of pollen concentration in the city of Toronto, Canada. Environmental Research, 2022, 206, 112566.	3.7	4
107	Machine learning approaches to identify thresholds in a heatâ€health warning system context. Journal of the Royal Statistical Society Series A: Statistics in Society, 0, , .	0.6	3
108	TOC GENERATION TEST: Suicide and Ambient Temperature: A Multi-Country Multi-City Study. Environmental Health Perspectives, 2019, 127, 117007.	2.8	3

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109	Heat-related mortality prediction using low-frequency climate oscillation indices: Case studies of the cities of MontrÃ©al and QuÃ©bec, Canada. Environmental Epidemiology, 2022, 6, e206.	1.4	3
110	Can Breast Implants Hinder Breast Cancer Survival?. Women's Health, 2013, 9, 419-420.	0.7	1
111	Long-Term Exposure to Air Pollution and the Incidence of Chronic Obstructive Pulmonary Disease (COPD) and Asthma: A Population-Based Cohort Study in Ontario, Canada. ISEE Conference Abstracts, 2018, 2018, .	0.0	1
112	Predicting high-resolution spatial and temporal variations in summer air temperatures and its effect on asthma and myocardial-infarctions in Montreal, Canada. ISEE Conference Abstracts, 2021, 2021, .	0.0	0
113	The influence of the urban forest on the association between fine particulate air pollution and onset of childhood asthma. ISEE Conference Abstracts, 2021, 2021, .	0.0	0
114	A cold-health watch and warning system, application to the province of Quebec. ISEE Conference Abstracts, 2021, 2021, .	0.0	0
115	Dynamics thresholds for heat-health watch and warning system with extended season. ISEE Conference Abstracts, 2021, 2021, .	0.0	0
116	Projections of Excessive Mortality Related to Diurnal Temperature Range Under Climate Change Scenarios: A Multi-Country Study. SSRN Electronic Journal, 0, , .	0.4	0
117	Constrained groupwise additive index models. Biostatistics, 0, , .	0.9	0