

Scott Weichenthal

List of Publications by Year in descending order

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Version: 2024-02-01

98
papers

8,232
citations

61945

43
h-index

46771

89
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98
all docs

98
docs citations

98
times ranked

13043
citing authors

#	ARTICLE	IF	CITATIONS
1	The Global Burden of Cancer 2013. <i>JAMA Oncology</i> , 2015, 1, 505.	3.4	2,269
2	Global estimates of mortality associated with long-term exposure to outdoor fine particulate matter. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 9592-9597.	3.3	1,407
3	A Review of Pesticide Exposure and Cancer Incidence in the Agricultural Health Study Cohort. <i>Environmental Health Perspectives</i> , 2010, 118, 1117-1125.	2.8	194
4	Traffic-Related Air Pollution and Acute Changes in Heart Rate Variability and Respiratory Function in Urban Cyclists. <i>Environmental Health Perspectives</i> , 2011, 119, 1373-1378.	2.8	177
5	Risk estimates of mortality attributed to low concentrations of ambient fine particulate matter in the Canadian community health survey cohort. <i>Environmental Health</i> , 2016, 15, 18.	1.7	149
6	Associations between fine particulate matter and mortality in the 2001 Canadian Census Health and Environment Cohort. <i>Environmental Research</i> , 2017, 159, 406-415.	3.7	136
7	Exposure to traffic-related air pollution during physical activity and acute changes in blood pressure, autonomic and micro-vascular function in women: a cross-over study. <i>Particle and Fibre Toxicology</i> , 2014, 11, 70.	2.8	130
8	Long-Term Exposure to Fine Particulate Matter: Association with Nonaccidental and Cardiovascular Mortality in the Agricultural Health Study Cohort. <i>Environmental Health Perspectives</i> , 2014, 122, 609-615.	2.8	122
9	A land use regression model for ambient ultrafine particles in Montreal, Canada: A comparison of linear regression and a machine learning approach. <i>Environmental Research</i> , 2016, 146, 65-72.	3.7	119
10	Ambient PM2.5 and risk of emergency room visits for myocardial infarction: impact of regional PM2.5 oxidative potential: a case-crossover study. <i>Environmental Health</i> , 2016, 15, 46.	1.7	119
11	Selected physiological effects of ultrafine particles in acute cardiovascular morbidity. <i>Environmental Research</i> , 2012, 115, 26-36.	3.7	109
12	The impact of traffic volume, composition, and road geometry on personal air pollution exposures among cyclists in Montreal, Canada. <i>Journal of Exposure Science and Environmental Epidemiology</i> , 2013, 23, 46-51.	1.8	97
13	Long-term exposure to ambient ultrafine particles and respiratory disease incidence in Toronto, Canada: a cohort study. <i>Environmental Health</i> , 2017, 16, 64.	1.7	94
14	Characterizing the spatial distribution of ambient ultrafine particles in Toronto, Canada: A land use regression model. <i>Environmental Pollution</i> , 2016, 208, 241-248.	3.7	92
15	Ambient particulate matter oxidative potential: Chemical determinants, associated health effects, and strategies for risk management. <i>Free Radical Biology and Medicine</i> , 2020, 151, 7-25.	1.3	91
16	Exposure to Ambient Ultrafine Particles and Nitrogen Dioxide and Incident Hypertension and Diabetes. <i>Epidemiology</i> , 2018, 29, 323-332.	1.2	90
17	Oxidative burden of fine particulate air pollution and risk of cause-specific mortality in the Canadian Census Health and Environment Cohort (CanCHEC). <i>Environmental Research</i> , 2016, 146, 92-99.	3.7	89
18	Maternal exposure to ambient air pollution and risk of early childhood cancers: A population-based study in Ontario, Canada. <i>Environment International</i> , 2017, 100, 139-147.	4.8	84

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19	Impacts of exposure to black carbon, elemental carbon, and ultrafine particles from indoor and outdoor sources on blood pressure in adults: A review of epidemiological evidence. <i>Environmental Research</i> , 2018, 161, 345-353.	3.7	84
20	Chronic disease prevalence in women and air pollution – A 30-year longitudinal cohort study. <i>Environment International</i> , 2015, 80, 26-32.	4.8	83
21	In-Vehicle Exposures to Particulate Air Pollution in Canadian Metropolitan Areas: The Urban Transportation Exposure Study. <i>Environmental Science & Technology</i> , 2015, 49, 597-605.	4.6	82
22	Impact of Oxidant Gases on the Relationship between Outdoor Fine Particulate Air Pollution and Nonaccidental, Cardiovascular, and Respiratory Mortality. <i>Scientific Reports</i> , 2017, 7, 16401.	1.6	82
23	Complex relationships between greenness, air pollution, and mortality in a population-based Canadian cohort. <i>Environment International</i> , 2019, 128, 292-300.	4.8	79
24	Obesity and the cardiovascular health effects of fine particulate air pollution. <i>Obesity</i> , 2014, 22, 1580-1589.	1.5	72
25	A picture tells a thousand – exposures: Opportunities and challenges of deep learning image analyses in exposure science and environmental epidemiology. <i>Environment International</i> , 2019, 122, 3-10.	4.8	72
26	Association Between Road Traffic Noise and Incidence of Diabetes Mellitus and Hypertension in Toronto, Canada: A Population-Based Cohort Study. <i>Journal of the American Heart Association</i> , 2020, 9, e013021.	1.6	71
27	Air Pollution as a Risk Factor for Incident Chronic Obstructive Pulmonary Disease and Asthma. A 15-Year Population-based Cohort Study. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2021, 203, 1138-1148.	2.5	71
28	Fine Particulate Air Pollution and Adverse Birth Outcomes: Effect Modification by Regional Nonvolatile Oxidative Potential. <i>Environmental Health Perspectives</i> , 2018, 126, 077012.	2.8	66
29	Personal exposure to specific volatile organic compounds and acute changes in lung function and heart rate variability among urban cyclists. <i>Environmental Research</i> , 2012, 118, 118-123.	3.7	65
30	Investigating the Use Of Portable Air Pollution Sensors to Capture the Spatial Variability Of Traffic-Related Air Pollution. <i>Environmental Science & Technology</i> , 2016, 50, 313-320.	4.6	65
31	Characterizing and predicting ultrafine particle counts in Canadian classrooms during the winter months: Model development and evaluation. <i>Environmental Research</i> , 2008, 106, 349-360.	3.7	64
32	Examining the Shape of the Association between Low Levels of Fine Particulate Matter and Mortality across Three Cycles of the Canadian Census Health and Environment Cohort. <i>Environmental Health Perspectives</i> , 2019, 127, 107008.	2.8	64
33	Spatiotemporal Variations in Ambient Ultrafine Particles and the Incidence of Childhood Asthma. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2019, 199, 1487-1495.	2.5	64
34	Development and Comparison of Air Pollution Exposure Surfaces Derived from On-Road Mobile Monitoring and Short-Term Stationary Sidewalk Measurements. <i>Environmental Science & Technology</i> , 2018, 52, 3512-3519.	4.6	63
35	Characterizing the impact of traffic and the built environment on near-road ultrafine particle and black carbon concentrations. <i>Environmental Research</i> , 2014, 132, 305-310.	3.7	62
36	Biomass Burning as a Source of Ambient Fine Particulate Air Pollution and Acute Myocardial Infarction. <i>Epidemiology</i> , 2017, 28, 329-337.	1.2	60

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37	Associations of Long-Term Exposure to Ultrafine Particles and Nitrogen Dioxide With Increased Incidence of Congestive Heart Failure and Acute Myocardial Infarction. <i>American Journal of Epidemiology</i> , 2019, 188, 151-159.	1.6	58
38	Particulate Oxidative Burden as a Predictor of Exhaled Nitric Oxide in Children with Asthma. <i>Environmental Health Perspectives</i> , 2016, 124, 1616-1622.	2.8	57
39	The association between the incidence of postmenopausal breast cancer and concentrations at street-level of nitrogen dioxide and ultrafine particles. <i>Environmental Research</i> , 2017, 158, 7-15.	3.7	55
40	Exposure to ambient air pollution and the incidence of lung cancer and breast cancer in the Ontario Population Health and Environment Cohort. <i>International Journal of Cancer</i> , 2020, 146, 2450-2459.	2.3	53
41	Within-city Spatial Variations in Ambient Ultrafine Particle Concentrations and Incident Brain Tumors in Adults. <i>Epidemiology</i> , 2020, 31, 177-183.	1.2	50
42	Impact of traffic-related air pollution on acute changes in cardiac autonomic modulation during rest and physical activity: a cross-over study. <i>Journal of Exposure Science and Environmental Epidemiology</i> , 2016, 26, 133-140.	1.8	46
43	A web-based route planning tool to reduce cyclists' exposures to traffic pollution: A case study in Montreal, Canada. <i>Environmental Research</i> , 2013, 123, 58-61.	3.7	44
44	Near roadway air pollution across a spatially extensive road and cycling network. <i>Environmental Pollution</i> , 2016, 212, 498-507.	3.7	39
45	A Population-Based Cohort Study of Respiratory Disease and Long-Term Exposure to Iron and Copper in Fine Particulate Air Pollution and Their Combined Impact on Reactive Oxygen Species Generation in Human Lungs. <i>Environmental Science & Technology</i> , 2021, 55, 3807-3818.	4.6	39
46	The impact of a landfill fire on ambient air quality in the north: A case study in Iqaluit, Canada. <i>Environmental Research</i> , 2015, 142, 46-50.	3.7	38
47	Determinants of ultrafine particle exposures in transportation environments: findings of an 8-month survey conducted in Montréal, Canada. <i>Journal of Exposure Science and Environmental Epidemiology</i> , 2008, 18, 551-563.	1.8	37
48	Association of Sulfur, Transition Metals, and the Oxidative Potential of Outdoor PM _{2.5} with Acute Cardiovascular Events: A Case-Crossover Study of Canadian Adults. <i>Environmental Health Perspectives</i> , 2021, 129, 107005.	2.8	35
49	Diabetes Status and Susceptibility to the Effects of PM _{2.5} Exposure on Cardiovascular Mortality in a National Canadian Cohort. <i>Epidemiology</i> , 2018, 29, 784-794.	1.2	34
50	Spatial variations in ambient ultrafine particle concentrations and the risk of incident prostate cancer: A case-control study. <i>Environmental Research</i> , 2017, 156, 374-380.	3.7	33
51	Long-term exposure to wildfires and cancer incidence in Canada: a population-based observational cohort study. <i>Lancet Planetary Health</i> , The, 2022, 6, e400-e409.	5.1	33
52	Exposure to air pollution near a steel plant and effects on cardiovascular physiology: A randomized crossover study. <i>International Journal of Hygiene and Environmental Health</i> , 2014, 217, 279-286.	2.1	30
53	Capturing the urban canyon effect on particle number concentrations across a large road network using spatial analysis tools. <i>Building and Environment</i> , 2015, 92, 328-334.	3.0	30
54	Fine particulate matter concentration and composition and the incidence of childhood asthma. <i>Environment International</i> , 2021, 152, 106486.	4.8	30

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55	A review of pesticide exposure and cancer incidence in the agricultural health study cohort. <i>Ciencia E Saude Coletiva</i> , 2012, 17, 255-270.	0.1	29
56	Should traffic-related air pollution and noise be considered when designing urban bicycle networks?. <i>Transportation Research, Part D: Transport and Environment</i> , 2018, 65, 736-749.	3.2	28
57	Evaluating the Sensitivity of PM _{2.5} Mortality Associations to the Spatial and Temporal Scale of Exposure Assessment. <i>Epidemiology</i> , 2020, 31, 168-176.	1.2	28
58	Predicting Traffic-Related Air Pollution Using Feature Extraction from Built Environment Images. <i>Environmental Science & Technology</i> , 2020, 54, 10688-10699.	4.6	28
59	Exposure to air pollution near a steel plant is associated with reduced heart rate variability: a randomised crossover study. <i>Environmental Health</i> , 2017, 16, 4.	1.7	27
60	Spatial variations in ambient ultrafine particle concentrations and risk of congenital heart defects. <i>Environment International</i> , 2019, 130, 104953.	4.8	25
61	Within-City Spatial Variations in Multiple Measures of PM _{2.5} Oxidative Potential in Toronto, Canada. <i>Environmental Science & Technology</i> , 2019, 53, 2799-2810.	4.6	25
62	Long-term exposure to iron and copper in fine particulate air pollution and their combined impact on reactive oxygen species concentration in lung fluid: a population-based cohort study of cardiovascular disease incidence and mortality in Toronto, Canada. <i>International Journal of Epidemiology</i> , 2021, 50, 589-601.	0.9	25
63	Indoor ultrafine particle exposures and home heating systems: A cross-sectional survey of Canadian homes during the winter months. <i>Journal of Exposure Science and Environmental Epidemiology</i> , 2007, 17, 288-297.	1.8	24
64	Airborne Pollen Concentrations and Emergency Room Visits for Myocardial Infarction: A Multicity Case-Crossover Study in Ontario, Canada. <i>American Journal of Epidemiology</i> , 2016, 183, 613-621.	1.6	24
65	Cohort Profile: The ONTario Population Health and Environment Cohort (ONPHEC). <i>International Journal of Epidemiology</i> , 2016, 46, dyw030.	0.9	24
66	Ambient air pollution and incidence of early-onset paediatric type 1 diabetes: A retrospective population-based cohort study. <i>Environmental Research</i> , 2020, 184, 109291.	3.7	24
67	Spatial variations in the estimated production of reactive oxygen species in the epithelial lung lining fluid by iron and copper in fine particulate air pollution. <i>Environmental Epidemiology</i> , 2018, 2, e020.	1.4	22
68	Association of short-term exposure to fine particulate air pollution and mortality: effect modification by oxidant gases. <i>Scientific Reports</i> , 2018, 8, 16097.	1.6	22
69	Elemental composition of fine and coarse particles across the greater Los Angeles area: Spatial variation and contributing sources. <i>Environmental Pollution</i> , 2022, 292, 118356.	3.7	21
70	Exposure to Road Traffic Noise and Incidence of Acute Myocardial Infarction and Congestive Heart Failure: A Population-Based Cohort Study in Toronto, Canada. <i>Environmental Health Perspectives</i> , 2020, 128, 87001.	2.8	20
71	Extending the spatial scale of land use regression models for ambient ultrafine particles using satellite images and deep convolutional neural networks. <i>Environmental Research</i> , 2019, 176, 108513.	3.7	19
72	Acute cardiovascular health effects in a panel study of personal exposure to traffic-related air pollutants and noise in Toronto, Canada. <i>Scientific Reports</i> , 2020, 10, 16703.	1.6	19

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73	Evaluating the Impact of Neighborhood Characteristics on Differences between Residential and Mobility-Based Exposures to Outdoor Air Pollution. <i>Environmental Science & Technology</i> , 2018, 52, 10777-10786.	4.6	17
74	Predicting Within-City Spatial Variations in Outdoor Ultrafine Particle and Black Carbon Concentrations in Bucaramanga, Colombia: A Hybrid Approach Using Open-Source Geographic Data and Digital Images. <i>Environmental Science & Technology</i> , 2021, 55, 12483-12492.	4.6	16
75	Investigating the effects of multiple exposure measures to traffic-related air pollution on the risk of breast and prostate cancer. <i>Journal of Transport and Health</i> , 2018, 11, 34-46.	1.1	14
76	Predicting outdoor ultrafine particle number concentrations, particle size, and noise using street-level images and audio data. <i>Environment International</i> , 2020, 144, 106044.	4.8	13
77	Influence of travel behaviour and daily mobility on exposure to traffic-related air pollution. <i>Environmental Research</i> , 2020, 184, 109326.	3.7	13
78	Assessing the transferability of landuse regression models for ultrafine particles across two Canadian cities. <i>Science of the Total Environment</i> , 2019, 662, 722-734.	3.9	12
79	Ambient ultrafine particle concentrations and incidence of childhood cancers. <i>Environment International</i> , 2020, 145, 106135.	4.8	12
80	Sample Size Estimation for Random-effects Models. <i>Epidemiology</i> , 2017, 28, 817-826.	1.2	11
81	Evaluation of a method to indirectly adjust for unmeasured covariates in the association between fine particulate matter and mortality. <i>Environmental Research</i> , 2019, 175, 108-116.	3.7	11
82	Extremes in water availability and suicide: Evidence from a nationally representative sample of rural Indian adults. <i>Environmental Research</i> , 2020, 190, 109969.	3.7	11
83	Estimating risk of emergency room visits for asthma from personal versus fixed site measurements of NO ₂ . <i>Environmental Research</i> , 2015, 137, 323-328.	3.7	10
84	Disease assimilation: The mortality impacts of fine particulate matter on immigrants to Canada. <i>Health Reports</i> , 2020, 31, 14-26.	0.6	10
85	Capturing the spatial variability of noise levels based on a short-term monitoring campaign and comparing noise surfaces against personal exposures collected through a panel study. <i>Environmental Research</i> , 2018, 167, 662-672.	3.7	9
86	Systematic identification and prioritization of communities impacted by residential woodsmoke in British Columbia, Canada. <i>Environmental Pollution</i> , 2017, 220, 797-806.	3.7	8
87	Air pollution and retinal vessel diameter and blood pressure in school-aged children in a region impacted by residential biomass burning. <i>Scientific Reports</i> , 2021, 11, 12790.	1.6	8
88	Predicting Spatial Variations in Multiple Measures of Oxidative Burden for Outdoor Fine Particulate Air Pollution across Canada. <i>Environmental Science & Technology</i> , 2021, 55, 9750-9760.	4.6	8
89	Mortality and hospital admission rates for unintentional nonfire-related carbon monoxide poisoning across Canada: a trend analysis. <i>CMAJ Open</i> , 2015, 3, E223-E230.	1.1	7
90	Drivers of seasonal and annual air pollution exposure in a complex urban environment with multiple source contributions. <i>Environmental Monitoring and Assessment</i> , 2020, 192, 415.	1.3	7

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91	Combining citizen science and deep learning for large-scale estimation of outdoor nitrogen dioxide concentrations. <i>Environmental Research</i> , 2021, 196, 110389.	3.7	6
92	Bayesian Estimation of the Probability of Asbestos Exposure from Lung Fiber Counts. <i>Biometrics</i> , 2010, 66, 603-612.	0.8	5
93	Number concentrations of ultrafine particles and the incidence of postmenopausal breast cancer. <i>Environmental Epidemiology</i> , 2018, 2, e006.	1.4	4
94	Within city spatiotemporal variation of pollen concentration in the city of Toronto, Canada. <i>Environmental Research</i> , 2022, 206, 112566.	3.7	4
95	Predicting Spatial Variations in Multiple Measures of PM _{2.5} Oxidative Potential and Magnetite Nanoparticles in Toronto and Montreal, Canada. <i>Environmental Science & Technology</i> , 2022, 56, 7256-7265.	4.6	4
96	Predicting Within-City Variations in Ultrafine Particle and Black Carbon Concentrations in Bucaramanga, Columbia Using Open Source Data and Images. <i>ISEE Conference Abstracts</i> , 2021, 2021, .	0.0	0
97	Spatial variations in PM _{2.5} oxidative potential in Toronto and Montreal, Canada. <i>ISEE Conference Abstracts</i> , 2021, 2021, .	0.0	0
98	Associations Between Outdoor Air Pollution and the Retinal Microvasculature in School-aged Children in a Region Impacted by Residential Biomass Burning. <i>ISEE Conference Abstracts</i> , 2021, 2021, .	0.0	0