## Greg J Evans

## List of Publications by Year in descending order

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Version: 2024-02-01

128	4,339	87843	149623
papers	citations	h-index	g-index
150	150	150	5319
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Overview paper: New insights into aerosol and climate in the Arctic. Atmospheric Chemistry and Physics, 2019, 19, 2527-2560.	1.9	134
2	Temporal and spatial variability of traffic-related PM2.5 sources: Comparison of exhaust and non-exhaust emissions. Atmospheric Environment, 2019, 198, 55-69.	1.9	128
3	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
4	Inter-Comparison of a Fast Mobility Particle Sizer and a Scanning Mobility Particle Sizer Incorporating an Ultrafine Water-Based Condensation Particle Counter. Aerosol Science and Technology, 2009, 43, 364-373.	1.5	113
5	Cytotoxic and proinflammatory effects of ambient and source-related particulate matter (PM) in relation to the production of reactive oxygen species (ROS) and cytokine adsorption by particles. Inhalation Toxicology, 2010, 22, 37-47.	0.8	113
6	Ultrafine particles and PM2.5 in the air of cities around the world: Are they representative of each other?. Environment International, 2019, 129, 118-135.	4.8	110
7	Quantitative determination of carbonaceous particle mixing state in Paris using single-particle mass spectrometer and aerosol mass spectrometer measurements. Atmospheric Chemistry and Physics, 2013, 13, 9479-9496.	1.9	108
8	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
9	Cloud and Fog Processing Enhanced Gas-to-Particle Partitioning of Trimethylamine. Environmental Science & Environmental Scienc	4.6	93
10	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
11	Receptor model based identification of PM2.5 sources in Canadian cities. Atmospheric Pollution Research, 2011, 2, 158-171.	1.8	83
12	Sequential Extraction of Metal Contaminated Soils with Radiochemical Assessment of Readsorption Effects. Environmental Science & Environmental Science	4.6	76
13	The combined effects of physicochemical properties of size-fractionated ambient particulate matter on in vitro toxicity in human A549 lung epithelial cells. Toxicology Reports, 2014, 1, 145-156.	1.6	72
14	Development of a land-use regression model for ultrafine particles in Toronto, Canada. Atmospheric Environment, 2015, 110, 84-92.	1.9	71
15	Influence of biomass burning on wintertime fine particulate matter: Source contribution at a valley site in rural British Columbia. Atmospheric Environment, 2008, 42, 3684-3699.	1.9	68
16	Metro Commuter Exposures to Particulate Air Pollution and PM <sub>2.5</sub> -Associated Elements in Three Canadian Cities: The Urban Transportation Exposure Study. Environmental Science & Emp; Technology, 2017, 51, 5713-5720.	4.6	66
17	Fine Particulate Air Pollution and Adverse Birth Outcomes: Effect Modification by Regional Nonvolatile Oxidative Potential. Environmental Health Perspectives, 2018, 126, 077012.	2.8	66
18	An ecological analysis of long-term exposure to PM2.5 and incidence of COVID-19 in Canadian health regions. Environmental Research, 2020, 191, 110052.	3.7	64

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19	Operational Speciation of Cadmium, Copper, Lead and Zinc in the NIST Standard Reference Materials 2710 and 2711 (Montana Soil) by the BCR Sequential Extraction Procedure and Flame Atomic Absorption Spectrometry. Analytical Communications, 1997, 34, 363-364.	2.2	62
20	Five-year roadside measurements of ultrafine particles in a major Canadian city. Atmospheric Environment, 2012, 49, 245-256.	1.9	62
21	Field Measurements of Gasoline Direct Injection Emission Factors: Spatial and Seasonal Variability. Environmental Science & Emp; Technology, 2016, 50, 2035-2043.	4.6	59
22	Particulate Oxidative Burden as a Predictor of Exhaled Nitric Oxide in Children with Asthma. Environmental Health Perspectives, 2016, 124, 1616-1622.	2.8	57
23	Metals and oxidative potential in urban particulate matter influence systemic inflammatory and neural biomarkers: A controlled exposure study. Environment International, 2018, 121, 1331-1340.	4.8	56
24	Plume-based analysis of vehicle fleet air pollutant emissions and the contribution from high emitters. Atmospheric Measurement Techniques, 2015, 8, 3263-3275.	1.2	55
25	On-line Analysis of Urban Particulate Matter Focusing on Elevated Wintertime Aerosol Concentrations. Environmental Science & Eamp; Technology, 2002, 36, 3512-3518.	4.6	53
26	Comparison of three nanoparticle sizing instruments: The influence of particle morphology. Atmospheric Environment, 2014, 86, 140-147.	1.9	52
27	Flame retardants in urban air: A case study in Toronto targeting distinct source sectors. Environmental Pollution, 2019, 247, 89-97.	3.7	51
28	Sources of particulate matter components in the Athabasca oil sands region: investigation through a comparison of trace element measurement methodologies. Atmospheric Chemistry and Physics, 2017, 17, 9435-9449.	1,9	50
29	Single particle diversity and mixing state measurements. Atmospheric Chemistry and Physics, 2014, 14, 6289-6299.	1.9	49
30	Indoor measurements of air pollutants in residential houses in urban and suburban areas: Indoor versus ambient concentrations. Science of the Total Environment, 2019, 693, 133446.	3.9	48
31	Influence of Atmospheric Dispersion and New Particle Formation Events on Ambient Particle Number Concentration in Rochester, United States, and Toronto, Canada. Journal of the Air and Waste Management Association, 2006, 56, 431-443.	0.9	47
32	Single-particle speciation of alkylamines in ambient aerosol at five European sites. Analytical and Bioanalytical Chemistry, 2015, 407, 5899-5909.	1.9	47
33	Assessing the Climate Trade-Offs of Gasoline Direct Injection Engines. Environmental Science & Emp; Technology, 2016, 50, 8385-8392.	4.6	45
34	Comparative cardiopulmonary effects of size-fractionated airborne particulate matter. Inhalation Toxicology, 2012, 24, 161-171.	0.8	44
35	Comparative analysis of new particle formation events in less and severely polluted urban atmosphere. Atmospheric Environment, 2014, 98, 655-664.	1.9	43
36	Quantification of black carbon mixing state from traffic: implications for aerosol optical properties. Atmospheric Chemistry and Physics, 2016, 16, 4693-4706.	1.9	43

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37	Particle dose estimation from frying in residential settings. Indoor Air, 2008, 18, 499-510.	2.0	42
38	Near-Road Air Pollutant Measurements: Accounting for Inter-Site Variability Using Emission Factors. Environmental Science & En	4.6	42
39	Long-term analysis of PM2.5 from 2004 to 2017 in Toronto: Composition, sources, and oxidative potential. Environmental Pollution, 2020, 263, 114652.	3.7	42
40	Exploring Variation and Predictors of Residential Fine Particulate Matter Infiltration. International Journal of Environmental Research and Public Health, 2010, 7, 3211-3224.	1.2	41
41	Single-particle characterization of biomass burning organic aerosol (BBOA): evidence for non-uniform mixing of high molecular weight organics and potassium. Atmospheric Chemistry and Physics, 2016, 16, 5561-5572.	1.9	41
42	Polycyclic aromatic compounds in urban air and associated inhalation cancer risks: A case study targeting distinct source sectors. Environmental Pollution, 2019, 252, 1882-1891.	3.7	41
43	A source-independent empirical correction procedure for the fast mobility and engine exhaust particle sizers. Atmospheric Environment, 2015, 100, 178-184.	1.9	40
44	Variability of atmospheric ammonia related to potential emission sources in downtown Toronto, Canada. Atmospheric Environment, 2014, 99, 365-373.	1.9	38
45	Observations of atmospheric chemical deposition to high Arctic snow. Atmospheric Chemistry and Physics, 2017, 17, 5775-5788.	1.9	38
46	Quantifying metal emissions from vehicular traffic using real world emission factors. Environmental Pollution, 2021, 268, 115805.	3.7	38
47	Receptor Modeling of Toronto PM2.5Characterized by Aerosol Laser Ablation Mass Spectrometry. Environmental Science & Environmental Science & Environme	4.6	37
48	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
49	Rapid physical and chemical transformation of traffic-related atmospheric particles near a highway. Atmospheric Pollution Research, 2015, 6, 662-672.	1.8	34
50	Real-World Emission of Particles from Vehicles: Volatility and the Effects of Ambient Temperature. Environmental Science & Env	4.6	34
51	Real world vehicle fleet emission factors: Seasonal and diurnal variations in traffic related air pollutants. Atmospheric Environment, 2018, 184, 77-86.	1.9	34
52	Radiolytic Organic Iodide Formation under Nuclear Reactor Accident Conditions. Environmental Science &	4.6	33
53	Identification of long-range aerosol transport patterns to Toronto via classification of back trajectories by cluster analysis and neural network techniques. Chemometrics and Intelligent Laboratory Systems, 2006, 83, 26-33.	1.8	33
54	Use of advanced receptor modelling for analysis of an intensive 5-week aerosol sampling campaign. Atmospheric Environment, 2006, 40, 482-499.	1.9	33

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55	Is vehicular emission a significant contributor to ammonia in the urban atmosphere?. Atmospheric Environment, 2013, 80, 499-506.	1.9	33
56	The Kingston Allergy Birth Cohort. Annals of Allergy, Asthma and Immunology, 2017, 118, 465-473.	0.5	33
57	Characterizing the spatial variability of local and background concentration signals for air pollution at the neighbourhood scale. Atmospheric Environment, 2018, 183, 57-68.	1.9	32
58	Characteristics and sources of PM2.5 and reactive gases near roadways in two metropolitan areas in Canada. Atmospheric Environment, 2019, 218, 116980.	1.9	32
59	Night shift work exposure profile and obesity: Baseline results from a Chinese night shift worker cohort. PLoS ONE, 2018, 13, e0196989.	1.1	31
60	Night shift work and abnormal liver function: is non-alcohol fatty liver a necessary mediator?. Occupational and Environmental Medicine, 2019, 76, 83-89.	1.3	30
61	Radiolytic dechlorination of chlorinated organics. Radiation Physics and Chemistry, 1997, 49, 257-264.	1.4	29
62	Traffic-related air pollution near roadways: discerning local impacts from background. Atmospheric Measurement Techniques, 2019, 12, 5247-5261.	1.2	27
63	The state of science on severe air pollution episodes: Quantitative and qualitative analysis. Environment International, 2021, 156, 106732.	4.8	26
64	Within-City Spatial Variations in Multiple Measures of PM <sub>2.5</sub> Oxidative Potential in Toronto, Canada. Environmental Science & Environmental	4.6	25
65	A study on the extent of neutralization of sulphate aerosol through laboratory and field experiments using an ATOFMS and a GPIC. Atmospheric Environment, 2011, 45, 6251-6256.	1.9	24
66	Do Questions Reflecting Indoor Air Pollutant Exposure from a Questionnaire Predict Direct Measure of Exposure in Owner-Occupied Houses?. International Journal of Environmental Research and Public Health, 2010, 7, 3270-3297.	1.2	23
67	Murine precision-cut lung slices exhibit acute responses following exposure to gasoline direct injection engine emissions. Science of the Total Environment, 2016, 568, 1102-1109.	3.9	23
68	Radiochemical assessment of the readsorption and redistribution of lead in the SM&T sequential extraction procedure. Analytica Chimica Acta, 2001, 439, 139-151.	2.6	21
69	Chemically-assigned classification of aerosol mass spectra. Journal of the American Society for Mass Spectrometry, 2002, 13, 826-838.	1.2	21
70	Radiolytic Elimination of Organochlorine in Pulp Mill Effluent. Environmental Science & Emp; Technology, 1996, 30, 1558-1564.	4.6	20
71	Cluster analysis of roadside ultrafine particle size distributions. Atmospheric Environment, 2013, 70, 64-74.	1.9	20
72	A year-long comparison of particle formation events at paired urban and rural locations. Atmospheric Pollution Research, 2014, 5, 447-454.	1.8	20

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73	Rapid organic aerosol formation downwind of a highway: Measured and model results from the FEVER study. Journal of Geophysical Research D: Atmospheres, 2014, 119, 1663-1679.	1.2	19
74	Predicting Secondary Organic Aerosol Enhancement in the Presence of Atmospherically Relevant Organic Particles. ACS Earth and Space Chemistry, 2018, 2, 1035-1046.	1.2	19
75	Measurement and Modeling of Iodine Volatility Above Irradiated Csl Solutions. Nuclear Technology, 1996, 116, 293-305.	0.7	18
76	Boron subphthalocyanines as electron donors in outdoor lifetime monitored organic photovoltaic cells. Solar Energy Materials and Solar Cells, 2018, 176, 331-335.	3.0	18
77	Black carbon in the Lower Fraser Valley, British Columbia: Impact of 2017 wildfires on local air quality and aerosol optical properties. Atmospheric Environment, 2019, 217, 116976.	1.9	18
78	Underestimation of sulfate concentration in PM2.5 using a semi-continuous particle instrument based on ion chromatography. Journal of Environmental Monitoring, 2009, 11, 1292.	2.1	17
79	Personal exposures to traffic-related air pollution in three Canadian bus transit systems: the Urban Transportation Exposure Study. Journal of Exposure Science and Environmental Epidemiology, 2020, 31, 628-640.	1.8	17
80	Within-City Variation in Reactive Oxygen Species from Fine Particle Air Pollution and COVID-19. American Journal of Respiratory and Critical Care Medicine, 2021, 204, 168-177.	2.5	17
81	Long-range sources of Toronto particulate matter (PM2.5) identified by Aerosol Laser Ablation Mass Spectrometry (LAMS). Atmospheric Environment, 2004, 38, 5545-5553.	1.9	16
82	Predicting hygroscopic growth using single particle chemical composition estimates. Journal of Geophysical Research D: Atmospheres, 2014, 119, 9567-9577.	1.2	16
83	Enhancing non-refractory aerosol apportionment from an urban industrial site through receptor modeling of complete high time-resolution aerosol mass spectra. Atmospheric Chemistry and Physics, 2014, 14, 8017-8042.	1.9	16
84	Contrasting the direct use of data from traffic radars and video-cameras with traffic simulation in the estimation of road emissions and PM hotspot analysis. Transportation Research, Part D: Transport and Environment, 2018, 62, 90-101.	3.2	16
85	Outdoor Stability of Chloro–(Chloro) <sub><i>n</i></sub> –Boron Subnaphthalocyanine and Chloro–Boron Subphthalocyanine as Electron Acceptors in Bilayer and Trilayer Organic Photovoltaics. ACS Applied Energy Materials, 2019, 2, 979-986.	2.5	16
86	Imaging of aerosols using time of flight secondary ion mass spectrometry. Applied Surface Science, 2007, 253, 5951-5956.	3.1	15
87	Identification of the Sources and Geographic Origins of Black Carbon using Factor Analysis at Paired Rural and Urban sites. Environmental Science & En	4.6	15
88	The application of wavelet decomposition to quantify the local and regional sources of ultrafine particles in cities. Atmospheric Environment, 2014, 95, 249-257.	1.9	15
89	Polyurethane Foam (PUF) Disk Samplers for Measuring Trace Metals in Ambient Air. Environmental Science and Technology Letters, 2019, 6, 545-550.	3.9	14
90	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

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91	Aerosol Laser Ablation Mass Spectrometry of Suspended Powders from PM Sources and Its Implications to Receptor Modeling. Journal of the Air and Waste Management Association, 2002, 52, 27-40.	0.9	13
92	Modeling of iodine radiation chemistry in the presence of organic compounds. Radiation Physics and Chemistry, 2002, 64, 203-213.	1.4	13
93	An approach to investigate new particle formation in the vertical direction on the basis of high time-resolution measurements at ground level and sea level. Atmospheric Environment, 2015, 102, 366-375.	1.9	13
94	Temporally delineated sources of major chemical species in high Arctic snow. Atmospheric Chemistry and Physics, 2018, 18, 3485-3503.	1.9	13
95	lodine Behavior Under Conditions Relating to Nuclear Reactor Accidents. Nuclear Technology, 2002, 137, 181-193.	0.7	12
96	Physical Characterization of the University of Toronto Coarse, Fine, and Ultrafine High-Volume Particle Concentrator Systems. Aerosol Science and Technology, 2012, 46, 1015-1024.	1.5	12
97	Comparison of tropospheric NO <sub>2</sub> vertical columns in an urban environment using satellite, multi-axis differential optical absorption spectroscopy, and in situ measurements. Atmospheric Measurement Techniques, 2013, 6, 2907-2924.	1.2	12
98	A Prelaboratory Framework Toward Integrating Theory and Utility Value with Laboratories: Student Perceptions on Learning and Motivation. Journal of Chemical Education, 2019, 96, 1548-1557.	1.1	12
99	Urban land use regression models: can temporal deconvolution of traffic pollution measurements extend the urban LUR to suburban areas?. Atmospheric Environment, 2019, 196, 143-151.	1.9	12
100	The expanding scope of air pollution monitoring can facilitate sustainable development. Science of the Total Environment, 2013, 448, 189-196.	3.9	11
101	Impacts of Subway System Modifications on Air Quality in Subway Platforms and Trains. Environmental Science & Environmental Sc	4.6	11
102	Impact of the COVID-19 lockdown on the chemical composition and sources of urban PM2.5. Environmental Pollution, 2022, 292, 118417.	3.7	11
103	Enhancement of the interfacial transfer of iodine by chemical reaction. Canadian Journal of Chemical Engineering, 2000, 78, 221-225.	0.9	10
104	Strategies to Enhance the Interpretation of Single-Particle Ambient Aerosol Data. Aerosol Science and Technology, 2012, 46, 584-595.	1.5	10
105	Transboundary and traffic influences on air pollution across two Caribbean islands. Science of the Total Environment, 2019, 653, 1105-1110.	3.9	9
106	Evaluation of ambient SO2 measurement methods at roadside sites. Atmospheric Environment, 2011, 45, 2781-2788.	1.9	8
107	Characterization of the University of Toronto Concentrated Aerosol Particle Exposure Facility (CAPEF)—Effects on Fine and Ultrafine Nonrefractory Aerosol Composition. Aerosol Science and Technology, 2012, 46, 697-707.	1.5	8
108	Roles of SO2 oxidation in new particle formation events. Journal of Environmental Sciences, 2015, 30, 90-101.	3.2	8

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109	Predicting Spatial Variations in Multiple Measures of Oxidative Burden for Outdoor Fine Particulate Air Pollution across Canada. Environmental Science & Environmental Science & 2021, 55, 9750-9760.	4.6	8
110	Radioiodine Volatilization in the Presence of Organic Compounds. Nuclear Technology, 2001, 134, 208-220.	0.7	7
111	Extratropical waves transport boreal wildfire emissions and drive regional air quality dynamics. Journal of Geophysical Research, 2008, 113, .	3.3	7
112	Emissions from Compression Ignition Engines with Animal-Fat-Derived Biodiesel Fuels., 2014, , .		7
113	Application of a counting technique to determine certain and uncertain geographic regions of emission sources. Ecological Modelling, 2006, 192, 627-636.	1.2	5
114	Health risk assessment in atmosphere near a petrochemical industrial complex: Measuring oxidative potential and oxidative burden. Atmospheric Pollution Research, 2022, 13, 101457.	1.8	5
115	Carbonaceous aerosol sampling of gasoline direct injection engine exhaust with an integrated organic gas and particle sampler. Science of the Total Environment, 2019, 652, 1261-1269.	3.9	4
116	Measurement of real-world roadway emission rates through a fitted dispersion model. Atmospheric Pollution Research, 2021, 12, 75-88.	1.8	4
117	Characterizing long-term NO2 concentration surfaces across a large metropolitan area through spatiotemporal land use regression modelling of mobile measurements. Environmental Research, 2021, 196, 111010.	3.7	4
118	APPLICATION OF DISTRIBUTED URBAN SENSOR NETWORKS FOR ACTIONABLE AIR QUALITY DATA. ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences, 0, VI-4/W2-2020, 119-126.	0.0	4
119	Exposomics-based Analysis of Environmental Factors Associated with Forced Expiratory Volume in 1 Second at 6 Months Post Lung Transplantation. Annals of the American Thoracic Society, 2018, 15, S122-S122.	1.5	3
120	Medical air in healthcare institutions: A chemical and biological study. Atmospheric Environment, 2019, 219, 117031.	1.9	3
121	Cultivating Disciplinary Expectations for Engineering Education Research in Canada. Canadian Journal of Science, Mathematics and Technology Education, 2020, 20, 87-97.	0.6	3
122	Elucidating long-term trends, seasonal variability, and local impacts from thirteen years of near-road particle size data (2006–2019). Science of the Total Environment, 2021, 774, 145028.	3.9	3
123	Measurement of PM 10/2.5 fractionated respirable particles in Urban Toronto by INAA, PIXE, ICP-AES, and LAMS. Biological Trace Element Research, 1999, 71-72, 223-232.	1.9	2
124	Comparing emission rates derived from a model with those estimated using a plume-based approach and quantifying the contribution of vehicle classes to on-road emissions and air quality. Journal of the Air and Waste Management Association, 2018, 68, 1159-1174.	0.9	2
125	Learning Beyond the Laboratory: A Web Application Framework for Development of Interactive Postlaboratory Exercises. Journal of Chemical Education, 2020, 97, 1481-1486.	1.1	2
126	Response to Goldberg and Villeneuve re: An ecological analysis of long-term exposure to PM2.5 and incidence of COVID-19 in Canadian health regions. Environmental Research, 2021, 194, 110623.	3.7	1

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127	Investigation of Sulfate Nanoparticulate Formation from a Catalyzed Diesel Particulate Filter on an Engine Fueled with ULSD and a Biodiesel Blend., 0, , .		O
128	Assessment of the Oxidative Potential and Oxidative Burden from Occupational Exposures to Particulate Matter. Annals of Work Exposures and Health, 2021, , .	0.6	0