Greg J Evans

List of Publications by Year
in descending order

128 papers	4,339 citations	87843 38 h-index	149623 56 g-index
150 all docs	150 docs citations	150 times ranked	5319 citing authors

#	Article	IF	Citations
1	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
2	Impact of the COVID-19 lockdown on the chemical composition and sources of urban PM2.5. Environmental Pollution, 2022, 292, 118417.	3.7	11
3	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
4	Quantifying metal emissions from vehicular traffic using real world emission factors. Environmental Pollution, 2021, 268, 115805.	3.7	38
5	Measurement of real-world roadway emission rates through a fitted dispersion model. Atmospheric Pollution Research, 2021, 12, 75-88.	1.8	4
6	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
7	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
8	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
9	Elucidating long-term trends, seasonal variability, and local impacts from thirteen years of near-road particle size data (2006â€"2019). Science of the Total Environment, 2021, 774, 145028.	3.9	3
10	Impacts of Subway System Modifications on Air Quality in Subway Platforms and Trains. Environmental Science & Technology, 2021, 55, 11133-11143.	4.6	11
11	Predicting Spatial Variations in Multiple Measures of Oxidative Burden for Outdoor Fine Particulate Air Pollution across Canada. Environmental Science & Technology, 2021, 55, 9750-9760.	4.6	8
12	Assessment of the Oxidative Potential and Oxidative Burden from Occupational Exposures to Particulate Matter. Annals of Work Exposures and Health, 2021, , .	0.6	0
13	The state of science on severe air pollution episodes: Quantitative and qualitative analysis. Environment International, 2021, 156, 106732.	4.8	26
14	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
15	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
16	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
17	Cultivating Disciplinary Expectations for Engineering Education Research in Canada. Canadian Journal of Science, Mathematics and Technology Education, 2020, 20, 87-97.	0.6	3
18	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

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19	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
20	Polyurethane Foam (PUF) Disk Samplers for Measuring Trace Metals in Ambient Air. Environmental Science and Technology Letters, 2019, 6, 545-550.	3.9	14
21	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
22	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
23	Medical air in healthcare institutions: A chemical and biological study. Atmospheric Environment, 2019, 219, 117031.	1.9	3
24	Traffic-related air pollution near roadways: discerning local impacts from background. Atmospheric Measurement Techniques, 2019, 12, 5247-5261.	1.2	27
25	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
26	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
27	Outdoor Stability of Chloroâ€"(Chloro)$_n$â€"Boron Subnaphthalocyanine and Chloroâ€"Boron Subphthalocyanine as Electron Acceptors in Bilayer and Trilayer Organic Photovoltaics. ACS Applied Energy Materials, 2019, 2, 979-986.	2.5	16
28	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
29	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
30	Overview paper: New insights into aerosol and climate in the Arctic. Atmospheric Chemistry and Physics, 2019, 19, 2527-2560.	1.9	134
31	Within-City Spatial Variations in Multiple Measures of PM$_{2.5}$ Oxidative Potential in Toronto, Canada. Environmental Science & Technology, 2019, 53, 2799-2810.	4.6	25
32	Transboundary and traffic influences on air pollution across two Caribbean islands. Science of the Total Environment, 2019, 653, 1105-1110.	3.9	9
33	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
34	Flame retardants in urban air: A case study in Toronto targeting distinct source sectors. Environmental Pollution, 2019, 247, 89-97.	3.7	51
35	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
36	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

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37	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
38	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
39	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
40	Real world vehicle fleet emission factors: Seasonal and diurnal variations in traffic related air pollutants. Atmospheric Environment, 2018, 184, 77-86.	1.9	34
41	Temporally delineated sources of major chemical species in high Arctic snow. Atmospheric Chemistry and Physics, 2018, 18, 3485-3503.	1.9	13
42	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
43	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
44	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
45	Fine Particulate Air Pollution and Adverse Birth Outcomes: Effect Modification by Regional Nonvolatile Oxidative Potential. Environmental Health Perspectives, 2018, 126, 077012.	2.8	66
46	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
47	Night shift work exposure profile and obesity: Baseline results from a Chinese night shift worker cohort. PLoS ONE, 2018, 13, e0196989.	1.1	31
48	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
49	Near-Road Air Pollutant Measurements: Accounting for Inter-Site Variability Using Emission Factors. Environmental Science & Technology, 2018, 52, 9495-9504.	4.6	42
50	Real-World Emission of Particles from Vehicles: Volatility and the Effects of Ambient Temperature. Environmental Science & Technology, 2017, 51, 4081-4090.	4.6	34
51	Metro Commuter Exposures to Particulate Air Pollution and $PM_{2.5}$-Associated Elements in Three Canadian Cities: The Urban Transportation Exposure Study. Environmental Science & Technology, 2017, 51, 5713-5720.	4.6	66
52	The Kingston Allergy Birth Cohort. Annals of Allergy, Asthma and Immunology, 2017, 118, 465-473.	0.5	33
53	Observations of atmospheric chemical deposition to high Arctic snow. Atmospheric Chemistry and Physics, 2017, 17, 5775-5788.	1.9	38
54	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

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55	Particulate Oxidative Burden as a Predictor of Exhaled Nitric Oxide in Children with Asthma. Environmental Health Perspectives, 2016, 124, 1616-1622.	2.8	57
56	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
57	Assessing the Climate Trade-Offs of Gasoline Direct Injection Engines. Environmental Science & Technology, 2016, 50, 8385-8392.	4.6	45
58	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
59	Quantification of black carbon mixing state from traffic: implications for aerosol optical properties. Atmospheric Chemistry and Physics, 2016, 16, 4693-4706.	1.9	43
60	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
61	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
62	Field Measurements of Gasoline Direct Injection Emission Factors: Spatial and Seasonal Variability. Environmental Science & Technology, 2016, 50, 2035-2043.	4.6	59
63	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
64	Rapid physical and chemical transformation of traffic-related atmospheric particles near a highway. Atmospheric Pollution Research, 2015, 6, 662-672.	1.8	34
65	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
66	A source-independent empirical correction procedure for the fast mobility and engine exhaust particle sizers. Atmospheric Environment, 2015, 100, 178-184.	1.9	40
67	Single-particle speciation of alkylamines in ambient aerosol at five European sites. Analytical and Bioanalytical Chemistry, 2015, 407, 5899-5909.	1.9	47
68	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
69	Roles of SO2 oxidation in new particle formation events. Journal of Environmental Sciences, 2015, 30, 90-101.	3.2	8
70	Development of a land-use regression model for ultrafine particles in Toronto, Canada. Atmospheric Environment, 2015, 110, 84-92.	1.9	71
71	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
72	Emissions from Compression Ignition Engines with Animal-Fat-Derived Biodiesel Fuels. , 2014, , .		7

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73	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
74	Comparative analysis of new particle formation events in less and severely polluted urban atmosphere. Atmospheric Environment, 2014, 98, 655-664.	1.9	43
75	Comparison of three nanoparticle sizing instruments: The influence of particle morphology. Atmospheric Environment, 2014, 86, 140-147.	1.9	52
76	Variability of atmospheric ammonia related to potential emission sources in downtown Toronto, Canada. Atmospheric Environment, 2014, 99, 365-373.	1.9	38
77	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
78	A year-long comparison of particle formation events at paired urban and rural locations. Atmospheric Pollution Research, 2014, 5, 447-454.	1.8	20
79	Predicting hygroscopic growth using single particle chemical composition estimates. Journal of Geophysical Research D: Atmospheres, 2014, 119, 9567-9577.	1.2	16
80	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
81	Single particle diversity and mixing state measurements. Atmospheric Chemistry and Physics, 2014, 14, 6289-6299.	1.9	49
82	Is vehicular emission a significant contributor to ammonia in the urban atmosphere?. Atmospheric Environment, 2013, 80, 499-506.	1.9	33
83	Cluster analysis of roadside ultrafine particle size distributions. Atmospheric Environment, 2013, 70, 64-74.	1.9	20
84	The expanding scope of air pollution monitoring can facilitate sustainable development. Science of the Total Environment, 2013, 448, 189-196.	3.9	11
85	Identification of the Sources and Geographic Origins of Black Carbon using Factor Analysis at Paired Rural and Urban sites. Environmental Science & Technology, 2013, 47, 130711113128004.	4.6	15
86	Comparison of tropospheric NO&lt;sub&gt;2&lt;/sub&gt; 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
87	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
88	Characterization of the University of Toronto Concentrated Aerosol Particle Exposure Facility (CAPEF)â€"Effects on Fine and Ultrafine Nonrefractory Aerosol Composition. Aerosol Science and Technology, 2012, 46, 697-707.	1.5	8
89	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
90	Strategies to Enhance the Interpretation of Single-Particle Ambient Aerosol Data. Aerosol Science and Technology, 2012, 46, 584-595.	1.5	10

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91	Comparative cardiopulmonary effects of size-fractionated airborne particulate matter. Inhalation Toxicology, 2012, 24, 161-171.	0.8	44
92	Five-year roadside measurements of ultrafine particles in a major Canadian city. Atmospheric Environment, 2012, 49, 245-256.	1.9	62
93	Cloud and Fog Processing Enhanced Gas-to-Particle Partitioning of Trimethylamine. Environmental Science & Technology, 2011, 45, 4346-4352.	4.6	93
94	Receptor model based identification of PM2.5 sources in Canadian cities. Atmospheric Pollution Research, 2011, 2, 158-171.	1.8	83
95	Evaluation of ambient SO2 measurement methods at roadside sites. Atmospheric Environment, 2011, 45, 2781-2788.	1.9	8
96	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
97	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
98	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
99	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
100	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
101	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
102	Particle dose estimation from frying in residential settings. Indoor Air, 2008, 18, 499-510.	2.0	42
103	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
104	Extratropical waves transport boreal wildfire emissions and drive regional air quality dynamics. Journal of Geophysical Research, 2008, 113, .	3.3	7
105	Imaging of aerosols using time of flight secondary ion mass spectrometry. Applied Surface Science, 2007, 253, 5951-5956.	3.1	15
106	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
107	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
108	Application of a counting technique to determine certain and uncertain geographic regions of emission sources. Ecological Modelling, 2006, 192, 627-636.	1.2	5

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109	Use of advanced receptor modelling for analysis of an intensive 5-week aerosol sampling campaign. Atmospheric Environment, 2006, 40, 482-499.	1.9	33
110	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
111	Receptor Modeling of Toronto PM2.5Characterized by Aerosol Laser Ablation Mass Spectrometry. Environmental Science & Technology, 2004, 38, 5712-5720.	4.6	37
112	On-line Analysis of Urban Particulate Matter Focusing on Elevated Wintertime Aerosol Concentrations. Environmental Science & Technology, 2002, 36, 3512-3518.	4.6	53
113	Iodine Behavior Under Conditions Relating to Nuclear Reactor Accidents. Nuclear Technology, 2002, 137, 181-193.	0.7	12
114	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
115	Modeling of iodine radiation chemistry in the presence of organic compounds. Radiation Physics and Chemistry, 2002, 64, 203-213.	1.4	13
116	Chemically-assigned classification of aerosol mass spectra. Journal of the American Society for Mass Spectrometry, 2002, 13, 826-838.	1.2	21
117	Radioiodine Volatilization in the Presence of Organic Compounds. Nuclear Technology, 2001, 134, 208-220.	0.7	7
118	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
119	Enhancement of the interfacial transfer of iodine by chemical reaction. Canadian Journal of Chemical Engineering, 2000, 78, 221-225.	0.9	10
120	Radiolytic Organic Iodide Formation under Nuclear Reactor Accident Conditions. Environmental Science & Technology, 2000, 34, 3012-3017.	4.6	33
121	Sequential Extraction of Metal Contaminated Soils with Radiochemical Assessment of Readsorption Effects. Environmental Science & Technology, 2000, 34, 1030-1035.	4.6	76
122	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
123	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
124	Radiolytic dechlorination of chlorinated organics. Radiation Physics and Chemistry, 1997, 49, 257-264.	1.4	29
125	Radiolytic Elimination of Organochlorine in Pulp Mill Effluent. Environmental Science & Technology, 1996, 30, 1558-1564.	4.6	20
126	Measurement and Modeling of Iodine Volatility Above Irradiated Csl Solutions. Nuclear Technology, 1996, 116, 293-305.	0.7	18

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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, , .		0
128	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