

Randall V Martin

List of Publications by Year in descending order

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Version: 2024-02-01

349
papers

59,818
citations

¹⁶⁹⁷
104
h-index

¹¹³¹
230
g-index

398
all docs

398
docs citations

398
times ranked

50455
citing authors

#	ARTICLE	IF	CITATIONS
1	A comparative risk assessment of burden of disease and injury attributable to 67 risk factors and risk factor clusters in 21 regions, 1990–2010: a systematic analysis for the Global Burden of Disease Study 2010. <i>Lancet, The</i> , 2012, 380, 2224-2260.	6.3	9,397
2	Global, regional, and national comparative risk assessment of 79 behavioural, environmental and occupational, and metabolic risks or clusters of risks, 1990–2015: a systematic analysis for the Global Burden of Disease Study 2015. <i>Lancet, The</i> , 2016, 388, 1659-1724.	6.3	4,203
3	Estimates and 25-year trends of the global burden of disease attributable to ambient air pollution: an analysis of data from the Global Burden of Diseases Study 2015. <i>Lancet, The</i> , 2017, 389, 1907-1918.	6.3	4,187
4	Global, regional, and national comparative risk assessment of 79 behavioural, environmental and occupational, and metabolic risks or clusters of risks in 188 countries, 1990–2013: a systematic analysis for the Global Burden of Disease Study 2013. <i>Lancet, The</i> , 2015, 386, 2287-2323.	6.3	2,184
5	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
6	Global Estimates of Ambient Fine Particulate Matter Concentrations from Satellite-Based Aerosol Optical Depth: Development and Application. <i>Environmental Health Perspectives</i> , 2010, 118, 847-855.	2.8	1,396
7	Tropospheric Aerosol Optical Thickness from the GOCART Model and Comparisons with Satellite and Sun Photometer Measurements. <i>Journals of the Atmospheric Sciences</i> , 2002, 59, 461-483.	0.6	1,226
8	Ambient Air Pollution Exposure Estimation for the Global Burden of Disease 2013. <i>Environmental Science & Technology</i> , 2016, 50, 79-88.	4.6	886
9	Global Estimates of Fine Particulate Matter using a Combined Geophysical-Statistical Method with Information from Satellites, Models, and Monitors. <i>Environmental Science & Technology</i> , 2016, 50, 3762-3772.	4.6	871
10	Transboundary health impacts of transported global air pollution and international trade. <i>Nature</i> , 2017, 543, 705-709.	13.7	737
11	Use of Satellite Observations for Long-Term Exposure Assessment of Global Concentrations of Fine Particulate Matter. <i>Environmental Health Perspectives</i> , 2015, 123, 135-143.	2.8	703
12	Interannual and seasonal variability of biomass burning emissions constrained by satellite observations. <i>Journal of Geophysical Research</i> , 2003, 108, ACH 1-1.	3.3	609
13	Exposure Assessment for Estimation of the Global Burden of Disease Attributable to Outdoor Air Pollution. <i>Environmental Science & Technology</i> , 2012, 46, 652-660.	4.6	606
14	Living near major roads and the incidence of dementia, Parkinson's disease, and multiple sclerosis: a population-based cohort study. <i>Lancet, The</i> , 2017, 389, 718-726.	6.3	567
15	Risk of Nonaccidental and Cardiovascular Mortality in Relation to Long-term Exposure to Low Concentrations of Fine Particulate Matter: A Canadian National-Level Cohort Study. <i>Environmental Health Perspectives</i> , 2012, 120, 708-714.	2.8	484
16	Sources of carbonaceous aerosols over the United States and implications for natural visibility. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	468
17	Global and regional decreases in tropospheric oxidants from photochemical effects of aerosols. <i>Journal of Geophysical Research</i> , 2003, 108, n/a-n/a.	3.3	457
18	Regional Estimates of Chemical Composition of Fine Particulate Matter Using a Combined Geoscience-Statistical Method with Information from Satellites, Models, and Monitors. <i>Environmental Science & Technology</i> , 2019, 53, 2595-2611.	4.6	451

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19	Global inventory of nitrogen oxide emissions constrained by space-based observations of NO ₂ columns. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	442
20	Global Estimates and Long-Term Trends of Fine Particulate Matter Concentrations (1998–2018). <i>Environmental Science & Technology</i> , 2020, 54, 7879-7890.	4.6	431
21	Satellite remote sensing of surface air quality. <i>Atmospheric Environment</i> , 2008, 42, 7823-7843.	1.9	422
22	Ambient PM _{2.5} , O ₃ , and NO ₂ Exposures and Associations with Mortality over 16 Years of Follow-Up in the Canadian Census Health and Environment Cohort (CanCHEC). <i>Environmental Health Perspectives</i> , 2015, 123, 1180-1186.	2.8	419
23	Measuring the health-related Sustainable Development Goals in 188 countries: a baseline analysis from the Global Burden of Disease Study 2015. <i>Lancet, The</i> , 2016, 388, 1813-1850.	6.3	413
24	Estimating ground-level PM _{2.5} using aerosol optical depth determined from satellite remote sensing. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	396
25	Global partitioning of NO _x sources using satellite observations: Relative roles of fossil fuel combustion, biomass burning and soil emissions. <i>Faraday Discussions</i> , 2005, 130, 407.	1.6	392
26	An improved retrieval of tropospheric nitrogen dioxide from GOME. <i>Journal of Geophysical Research</i> , 2002, 107, ACH 9-1.	3.3	355
27	Mapping isoprene emissions over North America using formaldehyde column observations from space. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	346
28	Measuring progress from 1990 to 2017 and projecting attainment to 2030 of the health-related Sustainable Development Goals for 195 countries and territories: a systematic analysis for the Global Burden of Disease Study 2017. <i>Lancet, The</i> , 2018, 392, 2091-2138.	6.3	335
29	Steps towards a mechanistic model of global soil nitric oxide emissions: implementation and space based-constraints. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 7779-7795.	1.9	326
30	Emissions estimation from satellite retrievals: A review of current capability. <i>Atmospheric Environment</i> , 2013, 77, 1011-1042.	1.9	323
31	Air mass factor formulation for spectroscopic measurements from satellites: Application to formaldehyde retrievals from the Global Ozone Monitoring Experiment. <i>Journal of Geophysical Research</i> , 2001, 106, 14539-14550.	3.3	318
32	“What We Breathe Impacts Our Health: Improving Understanding of the Link between Air Pollution and Health” <i>Environmental Science & Technology</i> , 2016, 50, 4895-4904.	4.6	294
33	Application of OMI observations to a space-based indicator of NO _x and VOC controls on surface ozone formation. <i>Atmospheric Environment</i> , 2010, 44, 2213-2223.	1.9	292
34	Ground-level nitrogen dioxide concentrations inferred from the satellite-borne Ozone Monitoring Instrument. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	288
35	Spatial Analysis of Air Pollution and Mortality in California. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2013, 188, 593-599.	2.5	284
36	Measuring progress and projecting attainment on the basis of past trends of the health-related Sustainable Development Goals in 188 countries: an analysis from the Global Burden of Disease Study 2016. <i>Lancet, The</i> , 2017, 390, 1423-1459.	6.3	284

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37	Exposure to ambient air pollution and the incidence of dementia: A population-based cohort study. <i>Environment International</i> , 2017, 108, 271-277.	4.8	261
38	Analysis of aircraft and satellite measurements from the Intercontinental Chemical Transport Experiment (INTEX-B) to quantify long-range transport of East Asian sulfur to Canada. <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 2999-3014.	1.9	259
39	Transatlantic transport of pollution and its effects on surface ozone in Europe and North America. <i>Journal of Geophysical Research</i> , 2002, 107, ACH 4-1.	3.3	253
40	Outdoor Air Pollution, Preterm Birth, and Low Birth Weight: Analysis of the World Health Organization Global Survey on Maternal and Perinatal Health. <i>Environmental Health Perspectives</i> , 2014, 122, 425-430.	2.8	242
41	Atmospheric ammonia and particulate inorganic nitrogen over the United States. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 10295-10312.	1.9	240
42	Tropospheric emissions: Monitoring of pollution (TEMPO). <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2017, 186, 17-39.	1.1	239
43	Application of satellite observations for timely updates to global anthropogenic NO _x emission inventories. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	1.5	234
44	Fifteen-Year Global Time Series of Satellite-Derived Fine Particulate Matter. <i>Environmental Science & Technology</i> , 2014, 48, 11109-11118.	4.6	233
45	SO ₂ emissions and lifetimes: Estimates from inverse modeling using in situ and global, space-based (SCIAMACHY and OMI) observations. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	230
46	Estimates of global mortality attributable to particulate air pollution using satellite imagery. <i>Environmental Research</i> , 2013, 120, 33-42.	3.7	228
47	Urban greenness and mortality in Canada's largest cities: a national cohort study. <i>Lancet Planetary Health</i> , The, 2017, 1, e289-e297.	5.1	222
48	Risk of Incident Diabetes in Relation to Long-term Exposure to Fine Particulate Matter in Ontario, Canada. <i>Environmental Health Perspectives</i> , 2013, 121, 804-810.	2.8	221
49	Satellite observations of formaldehyde over North America from GOME. <i>Geophysical Research Letters</i> , 2000, 27, 3461-3464.	1.5	218
50	Indirect validation of tropospheric nitrogen dioxide retrieved from the OMI satellite instrument: Insight into the seasonal variation of nitrogen oxides at northern midlatitudes. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	218
51	Estimating long-term PM _{2.5} concentrations in China using satellite-based aerosol optical depth and a chemical transport model. <i>Remote Sensing of Environment</i> , 2015, 166, 262-270.	4.6	214
52	Monthly Global Estimates of Fine Particulate Matter and Their Uncertainty. <i>Environmental Science & Technology</i> , 2021, 55, 15287-15300.	4.6	211
53	Estimates of the Global Burden of Ambient PM _{2.5} , Ozone, and NO ₂ on Asthma Incidence and Emergency Room Visits. <i>Environmental Health Perspectives</i> , 2018, 126, 107004.	2.8	209
54	High-Resolution Mapping of Nitrogen Dioxide With TROPOMI: First Results and Validation Over the Canadian Oil Sands. <i>Geophysical Research Letters</i> , 2019, 46, 1049-1060.	1.5	209

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55	A global anthropogenic emission inventory of atmospheric pollutants from sector- and fuel-specific sources (1970â€“2017): an application of the Community Emissions Data System (CEDS). <i>Earth System Science Data</i> , 2020, 12, 3413-3442.	3.7	209
56	High-Resolution Satellite-Derived PM _{2.5} from Optimal Estimation and Geographically Weighted Regression over North America. <i>Environmental Science & Technology</i> , 2015, 49, 10482-10491.	4.6	205
57	Creating National Air Pollution Models for Population Exposure Assessment in Canada. <i>Environmental Health Perspectives</i> , 2011, 119, 1123-1129.	2.8	199
58	Source sector and fuel contributions to ambient PM _{2.5} and attributable mortality across multiple spatial scales. <i>Nature Communications</i> , 2021, 12, 3594.	5.8	199
59	Spatial PM _{2.5} , NO ₂ , O ₃ and BC models for Western Europe â€“ Evaluation of spatiotemporal stability. <i>Environment International</i> , 2018, 120, 81-92.	4.8	193
60	A Hybrid Approach to Estimating National Scale Spatiotemporal Variability of PM _{2.5} in the Contiguous United States. <i>Environmental Science & Technology</i> , 2013, 47, 7233-7241.	4.6	188
61	Evaluation of OMI operational standard NO ₂ column retrievals using in situ and surface-based NO ₂ observations. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 11587-11609.	1.9	182
62	Evaluation of space-based constraints on global nitrogen oxide emissions with regional aircraft measurements over and downwind of eastern North America. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	181
63	Space-based constraints on the production of nitric oxide by lightning. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	179
64	A comparison of linear regression, regularization, and machine learning algorithms to develop Europe-wide spatial models of fine particles and nitrogen dioxide. <i>Environment International</i> , 2019, 130, 104934.	4.8	177
65	Scaling Relationship for NO ₂ Pollution and Urban Population Size: A Satellite Perspective. <i>Environmental Science & Technology</i> , 2013, 47, 7855-7861.	4.6	176
66	Space-based diagnosis of surface ozone sensitivity to anthropogenic emissions. <i>Geophysical Research Letters</i> , 2004, 31, n/a-n/a.	1.5	175
67	Interpretation of TOMS observations of tropical tropospheric ozone with a global model and in situ observations. <i>Journal of Geophysical Research</i> , 2002, 107, ACH 4-1.	3.3	174
68	Global Land Use Regression Model for Nitrogen Dioxide Air Pollution. <i>Environmental Science & Technology</i> , 2017, 51, 6957-6964.	4.6	174
69	Ozone profile and tropospheric ozone retrievals from the Global Ozone Monitoring Experiment: Algorithm description and validation. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	171
70	Evolution of Asian aerosols during transpacific transport in INTEX-B. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 7257-7287.	1.9	170
71	Spatial Association Between Ambient Fine Particulate Matter and Incident Hypertension. <i>Circulation</i> , 2014, 129, 562-569.	1.6	168
72	Characterization of a large biogenic secondary organic aerosol event from eastern Canadian forests. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 2825-2845.	1.9	164

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73	Global Chemical Composition of Ambient Fine Particulate Matter for Exposure Assessment. <i>Environmental Science & Technology</i> , 2014, 48, 13060-13068.	4.6	164
74	Retrieving tropospheric nitrogen dioxide from the Ozone Monitoring Instrument: effects of aerosols, surface reflectance anisotropy, and vertical profile of nitrogen dioxide. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 1441-1461.	1.9	159
75	Global urban temporal trends in fine particulate matter (PM _{2.5}) and attributable health burdens: estimates from global datasets. <i>Lancet Planetary Health</i> , The, 2022, 6, e139-e146.	5.1	159
76	Growth in NO _x emissions from power plants in China: bottom-up estimates and satellite observations. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 4429-4447.	1.9	158
77	North American pollution outflow and the trapping of convectively lifted pollution by upper-level anticyclone. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	156
78	Remote sensed and in situ constraints on processes affecting tropical tropospheric ozone. <i>Atmospheric Chemistry and Physics</i> , 2007, 7, 815-838.	1.9	156
79	Long-Term Trends Worldwide in Ambient NO ₂ Concentrations Inferred from Satellite Observations. <i>Environmental Health Perspectives</i> , 2016, 124, 281-289.	2.8	156
80	Western European Land Use Regression Incorporating Satellite- and Ground-Based Measurements of NO ₂ and PM ₁₀ . <i>Environmental Science & Technology</i> , 2013, 47, 13555-13564.	4.6	155
81	Data Integration for the Assessment of Population Exposure to Ambient Air Pollution for Global Burden of Disease Assessment. <i>Environmental Science & Technology</i> , 2018, 52, 9069-9078.	4.6	154
82	Space-based detection of missing sulfur dioxide sources of global air pollution. <i>Nature Geoscience</i> , 2016, 9, 496-500.	5.4	149
83	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
84	Source influence on emission pathways and ambient PM _{2.5} pollution over India (2015–2050). <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 8017-8039.	1.9	148
85	Long-Term Fine Particulate Matter Exposure and Mortality From Diabetes in Canada. <i>Diabetes Care</i> , 2013, 36, 3313-3320.	4.3	145
86	Development of West-European PM 2.5 and NO ₂ land use regression models incorporating satellite-derived and chemical transport modelling data. <i>Environmental Research</i> , 2016, 151, 1-10.	3.7	145
87	Satellite-based estimates of ground-level fine particulate matter during extreme events: A case study of the Moscow fires in 2010. <i>Atmospheric Environment</i> , 2011, 45, 6225-6232.	1.9	143
88	Indonesian wildfires of 1997: Impact on tropospheric chemistry. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	140
89	Satellite mapping of rain-induced nitric oxide emissions from soils. <i>Journal of Geophysical Research</i> , 2004, 109, n/a-n/a.	3.3	137
90	Heterogeneous sulfate aerosol formation mechanisms during wintertime Chinese haze events: air quality model assessment using observations of sulfate oxygen isotopes in Beijing. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 6107-6123.	1.9	137

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91	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
92	Satellite-based estimates of decline and rebound in China's CO ₂ emissions during COVID-19 pandemic. <i>Science Advances</i> , 2020, 6, .	4.7	136
93	Worldwide biogenic soil NO _x emissions inferred from OMI NO ₂ observations. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 10363-10381.	1.9	134
94	Overview paper: New insights into aerosol and climate in the Arctic. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 2527-2560.	1.9	134
95	Improved satellite retrievals of NO ₂ and SO ₂ over the Canadian oil sands and comparisons with surface measurements. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 3637-3656.	1.9	132
96	Aerosol size-dependent below-cloud scavenging by rain and snow in the ECHAM5-HAM. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 4653-4675.	1.9	129
97	Ambient air pollution and adverse birth outcomes: Differences by maternal comorbidities. <i>Environmental Research</i> , 2016, 148, 457-466.	3.7	129
98	Multi-model ensemble simulations of tropospheric NO ₂ compared with GOME retrievals for the year 2000. <i>Atmospheric Chemistry and Physics</i> , 2006, 6, 2943-2979.	1.9	127
99	Seasonal and interannual variability of North American isoprene emissions as determined by formaldehyde column measurements from space. <i>Geophysical Research Letters</i> , 2003, 30, n/a-n/a.	1.5	125
100	Impacts of coal burning on ambient PM _{2.5} pollution in China. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 4477-4491.	1.9	124
101	Variation in global chemical composition of PM _{2.5} : emerging results from SPARTAN. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 9629-9653.	1.9	123
102	A tropospheric ozone maximum over the Middle East. <i>Geophysical Research Letters</i> , 2001, 28, 3235-3238.	1.5	122
103	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
104	Sources of tropospheric ozone along the Asian Pacific Rim: An analysis of ozonesonde observations. <i>Journal of Geophysical Research</i> , 2002, 107, ACH 3-1-ACH 3-19.	3.3	121
105	Associations of Pregnancy Outcomes and PM _{2.5} in a National Canadian Study. <i>Environmental Health Perspectives</i> , 2016, 124, 243-249.	2.8	120
106	Size-resolved aerosol chemistry on Whistler Mountain, Canada with a high-resolution aerosol mass spectrometer during INTEX-B. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 3095-3111.	1.9	119
107	Simulation of nitrate, sulfate, and ammonium aerosols over the United States. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 11213-11227.	1.9	118
108	Processes controlling the annual cycle of Arctic aerosol number and size distributions. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 3665-3682.	1.9	115

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109	Evaluation of GOME satellite measurements of tropospheric NO ₂ and HCHO using regional data from aircraft campaigns in the southeastern United States. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	113
110	Optimal estimation for global ground-level fine particulate matter concentrations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 5621-5636.	1.2	113
111	Quantification of the factors controlling tropical tropospheric ozone and the South Atlantic maximum. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	112
112	Data Integration Model for Air Quality: A Hierarchical Approach to the Global Estimation of Exposures to Ambient Air Pollution. <i>Journal of the Royal Statistical Society Series C: Applied Statistics</i> , 2018, 67, 231-253.	0.5	112
113	Influences of in-cloud aerosol scavenging parameterizations on aerosol concentrations and wet deposition in ECHAM5-HAM. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 1511-1543.	1.9	109
114	Remote Sensing of Tropospheric Pollution from Space. <i>Bulletin of the American Meteorological Society</i> , 2008, 89, 805-822.	1.7	108
115	A national study of the association between traffic-related air pollution and adverse pregnancy outcomes in Canada, 1999-2008. <i>Environmental Research</i> , 2016, 148, 513-526.	3.7	107
116	Transient climate and ambient health impacts due to national solid fuel cookstove emissions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 1269-1274.	3.3	107
117	Comparing the Health Effects of Ambient Particulate Matter Estimated Using Ground-Based versus Remote Sensing Exposure Estimates. <i>Environmental Health Perspectives</i> , 2017, 125, 552-559.	2.8	107
118	Retrieval of vertical columns of sulfur dioxide from SCIAMACHY and OMI: Air mass factor algorithm development, validation, and error analysis. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	105
119	The Vertical Structure of Tropical Convection and Its Impact on the Budgets of Water Vapor and Ozone. <i>Journals of the Atmospheric Sciences</i> , 2005, 62, 1560-1573.	0.6	104
120	Chemical data assimilation estimates of continental U.S. ozone and nitrogen budgets during the Intercontinental Chemical Transport Experiment-North America. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	102
121	Application of OMI, SCIAMACHY, and GOME-2 satellite SO ₂ retrievals for detection of large emission sources. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 11,399.	1.2	102
122	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. <i>Environment International</i> , 2019, 132, 105004.	4.8	102
123	Response of Global Particulate-Matter-Related Mortality to Changes in Local Precursor Emissions. <i>Environmental Science & Technology</i> , 2015, 49, 4335-4344.	4.6	100
124	Net ecosystem fluxes of isoprene over tropical South America inferred from Global Ozone Monitoring Experiment (GOME) observations of HCHO columns. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	99
125	Seasonal variability of NO _x emissions over east China constrained by satellite observations: Implications for combustion and microbial sources. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	97
126	Evidence of lightning NO _x and convective transport of pollutants in satellite observations over North America. <i>Geophysical Research Letters</i> , 2005, 32, .	1.5	95

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127	Nested-grid simulation of mercury over North America. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 6095-6111.	1.9	95
128	Synoptic meteorological modes of variability for fine particulate matter (PM _{2.5}) air quality in major metropolitan regions of China. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 6733-6748.	1.9	95
129	Fine particulate air pollution and systemic autoimmune rheumatic disease in two Canadian provinces. <i>Environmental Research</i> , 2016, 146, 85-91.	3.7	94
130	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
131	Interpreting the ultraviolet aerosol index observed with the OMI satellite instrument to understand absorption by organic aerosols: implications for atmospheric oxidation and direct radiative effects. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 2507-2523.	1.9	91
132	Anthropogenic fugitive, combustion and industrial dust is a significant, underrepresented fine particulate matter source in global atmospheric models. <i>Environmental Research Letters</i> , 2017, 12, 044018.	2.2	91
133	Exposure to Ambient Ultrafine Particles and Nitrogen Dioxide and Incident Hypertension and Diabetes. <i>Epidemiology</i> , 2018, 29, 323-332.	1.2	90
134	Global fine-scale changes in ambient NO ₂ during COVID-19 lockdowns. <i>Nature</i> , 2022, 601, 380-387.	13.7	90
135	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
136	Revealing the Hidden Health Costs Embodied in Chinese Exports. <i>Environmental Science & Technology</i> , 2015, 49, 4381-4388.	4.6	88
137	A method for evaluating spatially-resolved NO _x emissions using Kalman filter inversion, direct sensitivities, and space-based NO ₂ observations. <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 5603-5614.	1.9	86
138	Comparison of Geostatistical Interpolation and Remote Sensing Techniques for Estimating Long-Term Exposure to Ambient PM _{2.5} Concentrations across the Continental United States. <i>Environmental Health Perspectives</i> , 2012, 120, 1727-1732.	2.8	85
139	Early life exposure to air pollution and incidence of childhood asthma, allergic rhinitis and eczema. <i>European Respiratory Journal</i> , 2020, 55, 1900913.	3.1	85
140	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
141	Satellite measurements oversee China's sulfur dioxide emission reductions from coal-fired power plants. <i>Environmental Research Letters</i> , 2015, 10, 114015.	2.2	83
142	Long-term exposure to fine particulate matter air pollution and the risk of lung cancer among participants of the Canadian National Breast Screening Study. <i>International Journal of Cancer</i> , 2016, 139, 1958-1966.	2.3	83
143	Impact of air pollution control policies on future PM _{2.5} concentrations and their source contributions in China. <i>Journal of Environmental Management</i> , 2018, 227, 124-133.	3.8	82
144	Toward the next generation of air quality monitoring: Particulate Matter. <i>Atmospheric Environment</i> , 2013, 80, 584-590.	1.9	80

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145	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
146	Trends in Chemical Composition of Global and Regional Population-Weighted Fine Particulate Matter Estimated for 25 Years. <i>Environmental Science & Technology</i> , 2017, 51, 11185-11195.	4.6	78
147	Tropical tropospheric ozone: Implications for dynamics and biomass burning. <i>Journal of Geophysical Research</i> , 2002, 107, ACH 3-1.	3.3	77
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