

Randall V Martin

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

355
papers

43,463
citations

97
h-index

205
g-index

398
ext. papers

51,741
ext. citations

8.6
avg, IF

7.11
L-index

#	Paper	IF	Citations
355	Global fine-scale changes in ambient NO during COVID-19 lockdowns.. <i>Nature</i> , 2022 , 601, 380-387	50.4	8
354	Long-term effects of PM components on incident dementia in the northeastern United States.. <i>Innovation(China)</i> , 2022 , 3, 100208	17.8	2
353	Global urban temporal trends in fine particulate matter (PM) and attributable health burdens: estimates from global datasets.. <i>Lancet Planetary Health, The</i> , 2022 ,	9.8	10
352	Critical Time Windows for Air Pollution Exposure and Birth Weight in a Multicity Canadian Pregnancy Cohort. <i>Epidemiology</i> , 2022 , 33, 7-16	3.1	1
351	Ambient air pollution and the risk of acute myocardial infarction and stroke: A national cohort study. <i>Environmental Research</i> , 2022 , 204, 111975	7.9	6
350	PM composition and disease aggravation in amyotrophic lateral sclerosis: An analysis of long-term exposure to components of fine particulate matter in New York State.. <i>Environmental Epidemiology</i> , 2022 , 6, e204	0.2	1
349	Long-term effects of PM components on blood pressure and hypertension in Chinese children and adolescents.. <i>Environment International</i> , 2022 , 161, 107134	12.9	1
348	Associations of long-term exposure to fine particulate matter and its constituents with cardiovascular mortality: A prospective cohort study in China.. <i>Environment International</i> , 2022 , 162, 107158	12.9	1
347	Air Pollution in American Indian Versus Non-American Indian Communities, 2000-2018.. <i>American Journal of Public Health</i> , 2022 , 112, 615-623	5.1	0
346	Ambient air pollution and acute respiratory infection in children aged under 5 years living in 35 developing countries. <i>Environment International</i> , 2021 , 159, 107019	12.9	2
345	Fine particles matter components and interstitial lung disease in rheumatoid arthritis.. <i>European Respiratory Journal</i> , 2021 ,	13.6	3
344	Inequality in historical transboundary anthropogenic PM _{2.5} health impacts. <i>Science Bulletin</i> , 2021 , 67, 437-437	10.6	1
343	Relating geostationary satellite measurements of aerosol optical depth (AOD) over East Asia to fine particulate matter (PM _{2.5}): insights from the KORUS-AQ aircraft campaign and GEOS-Chem model simulations. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 16775-16791	6.8	4
342	Societal shifts due to COVID-19 reveal large-scale complexities and feedbacks between atmospheric chemistry and climate change. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	5
341	Maternal exposure to fine particulate matter and preterm birth and low birth weight in Africa.. <i>Environment International</i> , 2021 , 160, 107053	12.9	0
340	Estimating Intra-Urban Inequities in PM-Attributable Health Impacts: A Case Study for Washington, DC. <i>GeoHealth</i> , 2021 , 5, e2021GH000431	5	2
339	Grid-stretching capability for the GEOS-Chem 13.0.0 atmospheric chemistry model. <i>Geoscientific Model Development</i> , 2021 , 14, 5977-5997	6.3	0

338	Changes in exposure to ambient fine particulate matter after relocating and long term survival in Canada: quasi-experimental study. <i>BMJ, The</i> , 2021 , 375, n2368	5.9	2
337	Composition of fine particulate matter and risk of preterm birth: A nationwide birth cohort study in 336 Chinese cities.. <i>Journal of Hazardous Materials</i> , 2021 , 425, 127645	12.8	2
336	Monthly Global Estimates of Fine Particulate Matter and Their Uncertainty. <i>Environmental Science & Technology</i> , 2021 , 55, 15287-15300	10.3	16
335	Long-term exposure to PM major components and mortality in the southeastern United States. <i>Environment International</i> , 2021 , 158, 106969	12.9	5
334	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	7.8	9
333	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	10.3	12
332	Assessing the Distribution of Air Pollution Health Risks within Cities: A Neighborhood-Scale Analysis Leveraging High-Resolution Data Sets in the Bay Area, California. <i>Environmental Health Perspectives</i> , 2021 , 129, 37006	8.4	14
331	Ambient Fine Particulate Matter Air Pollution and Risk of Weight Gain and Obesity in United States Veterans: An Observational Cohort Study. <i>Environmental Health Perspectives</i> , 2021 , 129, 47003	8.4	9
330	Source sector and fuel contributions to ambient PM and attributable mortality across multiple spatial scales. <i>Nature Communications</i> , 2021 , 12, 3594	17.4	31
329	Effects of COVID-19 lockdowns on fine particulate matter concentrations. <i>Science Advances</i> , 2021 , 7,	14.3	17
328	Examining PM concentrations and exposure using multiple models. <i>Environmental Research</i> , 2021 , 196, 110432	7.9	7
327	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	10.2	20
326	Ambient PM exposure and rapid spread of COVID-19 in the United States. <i>Science of the Total Environment</i> , 2021 , 760, 143391	10.2	24
325	Ambient PM and its chemical constituents on lifetime-ever pneumonia in Chinese children: A multi-center study. <i>Environment International</i> , 2021 , 146, 106176	12.9	17
324	Fine particulate matter constituents and sub-clinical outcomes of cardiovascular diseases: A multi-center study in China. <i>Science of the Total Environment</i> , 2021 , 759, 143555	10.2	5
323	Fine Particle Exposure and Clinical Aggravation in Neurodegenerative Diseases in New York State. <i>Environmental Health Perspectives</i> , 2021 , 129, 27003	8.4	9
322	Factors controlling marine aerosol size distributions and their climate effects over the northwest Atlantic Ocean region. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 1889-1916	6.8	5
321	Fine particulate matter concentration and composition and the incidence of childhood asthma. <i>Environment International</i> , 2021 , 152, 106486	12.9	14

320	Grid-independent high-resolution dust emissions (v1.0) for chemical transport models: application to GEOS-Chem (12.5.0). <i>Geoscientific Model Development</i> , 2021 , 14, 4249-4260	6.3	3
319	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	10.3	0
318	Does exposure to air pollution increase the risk of acute care in young children with asthma? An Ontario, Canada study. <i>Environmental Research</i> , 2021 , 199, 111302	7.9	4
317	Long-term exposure to air pollution and mortality in a prospective cohort: The Ontario Health Study. <i>Environment International</i> , 2021 , 154, 106570	12.9	5
316	Prenatal exposure to residential PM and its chemical constituents and weight in preschool children: A longitudinal study from Shanghai, China. <i>Environment International</i> , 2021 , 154, 106580	12.9	2
315	Ambient fine particulate matter air pollution and the risk of hospitalization among COVID-19 positive individuals: Cohort study. <i>Environment International</i> , 2021 , 154, 106564	12.9	24
314	Parkinson's disease aggravation in association with fine particle components in New York State. <i>Environmental Research</i> , 2021 , 201, 111554	7.9	6
313	The prospective effects of long-term exposure to ambient PM and constituents on mortality in rural East China. <i>Chemosphere</i> , 2021 , 280, 130740	8.4	2
312	Association of fine particulate matter air pollution and its constituents with lung function: The China Pulmonary Health study. <i>Environment International</i> , 2021 , 156, 106707	12.9	4
311	Fine particulate matter constituents and infant mortality in Africa: A multicountry study. <i>Environment International</i> , 2021 , 156, 106739	12.9	3
310	Large global variations in measured airborne metal concentrations driven by anthropogenic sources. <i>Scientific Reports</i> , 2020 , 10, 21817	4.9	4
309	Prenatal Exposure to Specific PM Chemical Constituents and Preterm Birth in China: A Nationwide Cohort Study. <i>Environmental Science & Technology</i> , 2020 , 54, 14494-14501	10.3	15
308	Global Estimates and Long-Term Trends of Fine Particulate Matter Concentrations (1998-2018). <i>Environmental Science & Technology</i> , 2020 , 54, 7879-7890	10.3	143
307	Global high-resolution emissions of soil NO, sea salt aerosols, and biogenic volatile organic compounds. <i>Scientific Data</i> , 2020 , 7, 148	8.2	13
306	Fine particulate matter exposure and renal function: A population-based study among pregnant women in China. <i>Environment International</i> , 2020 , 141, 105805	12.9	14
305	Fine particular matter and its constituents in air pollution and gestational diabetes mellitus. <i>Environment International</i> , 2020 , 142, 105880	12.9	15
304	Understanding the Joint Impacts of Fine Particulate Matter Concentration and Composition on the Incidence and Mortality of Cardiovascular Disease: A Component-Adjusted Approach. <i>Environmental Science & Technology</i> , 2020 , 54, 4388-4399	10.3	16
303	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	7.9	15

302	Effects of a priori profile shape assumptions on comparisons between satellite NO ₂ columns and model simulations. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 7231-7241	6.8	3
301	A global anthropogenic emission inventory of atmospheric pollutants from sector- and fuel-specific sources (1970-2017): an application of the Community Emissions Data System (CEDS). <i>Earth System Science Data</i> , 2020 , 12, 3413-3442	10.5	50
300	Ambient ultrafine particle concentrations and incidence of childhood cancers. <i>Environment International</i> , 2020 , 145, 106135	12.9	3
299	Inferring ground-level nitrogen dioxide concentrations at fine spatial resolution applied to the TROPOMI satellite instrument. <i>Environmental Research Letters</i> , 2020 , 15, 104013	6.2	17
298	Beyond SO _x reductions from shipping: assessing the impact of NO _x and carbonaceous-particle controls on human health and climate. <i>Environmental Research Letters</i> , 2020 , 15, 124046	6.2	4
297	Early life exposure to air pollution and incidence of childhood asthma, allergic rhinitis and eczema. <i>European Respiratory Journal</i> , 2020 , 55,	13.6	44
296	The impact of air pollution on the incidence of diabetes and survival among prevalent diabetes cases. <i>Environment International</i> , 2020 , 134, 105333	12.9	24
295	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	3.1	17
294	Prenatal exposure to fine particles, premature rupture of membranes and gestational age: A prospective cohort study. <i>Environment International</i> , 2020 , 145, 106146	12.9	2
293	Development of Europe-Wide Models for Particle Elemental Composition Using Supervised Linear Regression and Random Forest. <i>Environmental Science & Technology</i> , 2020 , 54, 15698-15709	10.3	14
292	Satellite-based estimates of decline and rebound in China's CO emissions during COVID-19 pandemic. <i>Science Advances</i> , 2020 , 6,	14.3	58
291	Self-rated stress, distress, mental health, and health as modifiers of the association between long-term exposure to ambient pollutants and mortality. <i>Environmental Research</i> , 2020 , 191, 109973	7.9	5
290	Residential Greenness and Cardiovascular Disease Incidence, Readmission, and Mortality. <i>Environmental Health Perspectives</i> , 2020 , 128, 87005	8.4	20
289	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	7.5	23
288	The role of cardiovascular disease in the relationship between air pollution and incident dementia: a population-based cohort study. <i>International Journal of Epidemiology</i> , 2020 , 49, 36-44	7.8	19
287	Urban green space and the risks of dementia and stroke. <i>Environmental Research</i> , 2020 , 186, 109520	7.9	29
286	Disease assimilation: The mortality impacts of fine particulate matter on immigrants to Canada. <i>Health Reports</i> , 2020 , 31, 14-26	4.7	4
285	The association between ambient air pollution concentrations and psychological distress. <i>Health Reports</i> , 2020 , 31, 3-11	4.7	2

284	Ambient Air Pollution and the Risk of Atrial Fibrillation and Stroke: A Population-Based Cohort Study. <i>Environmental Health Perspectives</i> , 2019 , 127, 87009	8.4	37
283	Examination of monitoring approaches for ambient air pollution: A case study for India. <i>Atmospheric Environment</i> , 2019 , 216, 116940	5.3	29
282	Methods, availability, and applications of PM exposure estimates derived from ground measurements, satellite, and atmospheric models. <i>Journal of the Air and Waste Management Association</i> , 2019 , 69, 1391-1414	2.4	45
281	Twin growth discordance in association with maternal exposure to fine particulate matter and its chemical constituents during late pregnancy. <i>Environment International</i> , 2019 , 133, 105148	12.9	5
280	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	10.3	224
279	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	12.9	90
278	No one knows which city has the highest concentration of fine particulate matter. <i>Atmospheric Environment: X</i> , 2019 , 3, 100040	2.8	26
277	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	6.8	82
276	Complex relationships between greenness, air pollution, and mortality in a population-based Canadian cohort. <i>Environment International</i> , 2019 , 128, 292-300	12.9	43
275	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	7.9	11
274	Estimated Long-Term (1981-2016) Concentrations of Ambient Fine Particulate Matter across North America from Chemical Transport Modeling, Satellite Remote Sensing, and Ground-Based Measurements. <i>Environmental Science & Technology</i> , 2019 , 53, 5071-5079	10.3	26
273	Arctic marine secondary organic aerosol contributes significantly to summertime particle size distributions in the Canadian Arctic Archipelago. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 2787-2812	6.8	25
272	Interpretation of measured aerosol mass scattering efficiency over North America using a chemical transport model. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 2635-2653	6.8	19
271	Overview paper: New insights into aerosol and climate in the Arctic. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 2527-2560	6.8	85
270	Assessing the Iterative Finite Difference Mass Balance and 4D-Var Methods to Derive Ammonia Emissions Over North America Using Synthetic Observations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019 , 124, 4222-4236	4.4	8
269	Source Contributions to Ambient Fine Particulate Matter for Canada. <i>Environmental Science & Technology</i> , 2019 , 53, 10269-10278	10.3	21
268	Simulation of airborne trace metals in fine particulate matter over North America. <i>Atmospheric Environment</i> , 2019 , 214,	5.3	10
267	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	12.9	55

266	Evaluation of Maternal Exposure to PM and Its Components on Maternal and Neonatal Thyroid Function and Birth Weight: A Cohort Study. <i>Thyroid</i> , 2019 , 29, 1147-1157	6.2	22
265	An Observation-Based Correction for Aerosol Effects on Nitrogen Dioxide Column Retrievals Using the Absorbing Aerosol Index. <i>Geophysical Research Letters</i> , 2019 , 46, 8442-8452	4.9	5
264	Unprecedented Atmospheric Ammonia Concentrations Detected in the High Arctic From the 2017 Canadian Wildfires. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019 , 124, 8178-8202	4.4	17
263	Comparison of multiple PM 2.5 exposure products for estimating health benefits of emission controls over New York State, USA. <i>Environmental Research Letters</i> , 2019 , 14, 084023	6.2	22
262	Spatial variations in ambient ultrafine particle concentrations and risk of congenital heart defects. <i>Environment International</i> , 2019 , 130, 104953	12.9	16
261	Low concentrations of fine particle air pollution and mortality in the Canadian Community Health Survey cohort. <i>Environmental Health</i> , 2019 , 18, 84	6	34
260	Assessing uncertainties of a geophysical approach to estimate surface fine particulate matter distributions from satellite-observed aerosol optical depth. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 295-313	6.8	20
259	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	8.4	42
258	Heterogeneous sulfate aerosol formation mechanisms during wintertime Chinese haze events: Air quality model assessment using observations of sulfate oxygen isotopes in Beijing 2019 ,		2
257	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	10.2	42
256	The Atmospheric Imaging Mission for Northern Regions: AIM-North. <i>Canadian Journal of Remote Sensing</i> , 2019 , 45, 423-442	1.8	10
255	Carbon and health implications of trade restrictions. <i>Nature Communications</i> , 2019 , 10, 4947	17.4	22
254	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	3.8	33
253	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	4.9	117
252	Variability in ambient ozone and fine particle concentrations and population susceptibility among Canadian health regions. <i>Canadian Journal of Public Health</i> , 2019 , 110, 149-158	3.2	5
251	Effect modification of perinatal exposure to air pollution and childhood asthma incidence. <i>European Respiratory Journal</i> , 2018 ,	13.6	35
250	Exposure to Ambient Ultrafine Particles and Nitrogen Dioxide and Incident Hypertension and Diabetes. <i>Epidemiology</i> , 2018 , 29, 323-332	3.1	59
249	Comparison and evaluation of anthropogenic emissions of SO ₂ and NO _x over China. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 3433-3456	6.8	34

248	Refractory black carbon at the Whistler Peak High Elevation Research Site [Measurements and simulations. <i>Atmospheric Environment</i> , 2018 , 181, 34-46	5.3	2
247	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	1.5	87
246	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	10.3	102
245	Spatial PM, NO, O and BC models for Western Europe - Evaluation of spatiotemporal stability. <i>Environment International</i> , 2018 , 120, 81-92	12.9	106
244	Source influence on emission pathways and ambient PM pollution over India (2015-2050). <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 8017-8039	6.8	86
243	Effects of ambient air pollution on incident Parkinson's disease in Ontario, 2001 to 2013: a population-based cohort study. <i>International Journal of Epidemiology</i> , 2018 , 47, 2038-2048	7.8	36
242	Ambient air pollution and the prevalence of rhinoconjunctivitis in adolescents: a worldwide ecological analysis. <i>Air Quality, Atmosphere and Health</i> , 2018 , 11, 755-764	5.6	4
241	GEOS-Chem High Performance (GCHP v11-02c): a next-generation implementation of the GEOS-Chem chemical transport model for massively parallel applications. <i>Geoscientific Model Development</i> , 2018 , 11, 2941-2953	6.3	27
240	Stratosphere-Troposphere separation of nitrogen dioxide columns from the TEMPO geostationary satellite instrument. <i>Atmospheric Measurement Techniques</i> , 2018 , 11, 6271-6287	4	3
239	Assessing snow extent data sets over North America to inform and improve trace gas retrievals from solar backscatter. <i>Atmospheric Measurement Techniques</i> , 2018 , 11, 2983-2994	4	10
238	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	40	210
237	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	3.1	21
236	Insight into global trends in aerosol composition from 2005 to 2015 inferred from the OMI Ultraviolet Aerosol Index. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 8097-8112	6.8	20
235	New insights into aerosol and climate in the Arctic 2018 ,		3
234	Associations between Living Near Water and Risk of Mortality among Urban Canadians. <i>Environmental Health Perspectives</i> , 2018 , 126, 077008	8.4	16
233	Satellite-Based Land-Use Regression for Continental-Scale Long-Term Ambient PM Exposure Assessment in Australia. <i>Environmental Science & Technology</i> , 2018 , 52, 12445-12455	10.3	36
232	Diurnal Patterns in Global Fine Particulate Matter Concentration. <i>Environmental Science and Technology Letters</i> , 2018 , 5, 687-691	11	17
231	Arctic marine secondary organic aerosol contributes significantly to summertime particle size distributions in the Canadian Arctic Archipelago 2018 ,		1

230	Estimates of the Global Burden of Ambient [Formula: see text], Ozone, and [Formula: see text] on Asthma Incidence and Emergency Room Visits. <i>Environmental Health Perspectives</i> , 2018 , 126, 107004	8.4	132
229	Interpretation of Measured Aerosol Mass Scattering Efficiency Over North America Using a Chemical Transport Model 2018 ,		2
228	Global Sources of Fine Particulate Matter: Interpretation of PM Chemical Composition Observed by SPARTAN using a Global Chemical Transport Model. <i>Environmental Science & Technology</i> , 2018 , 52, 11670-11681	10.3	40
227	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	11.5	810
226	Impact of air pollution control policies on future PM concentrations and their source contributions in China. <i>Journal of Environmental Management</i> , 2018 , 227, 124-133	7.9	50
225	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	6.8	64
224	Long-term exposure to air pollution and the incidence of multiple sclerosis: A population-based cohort study. <i>Environmental Research</i> , 2018 , 166, 437-443	7.9	21
223	Decadal Changes in Seasonal Variation of Atmospheric Haze over the Eastern United States: Connections with Anthropogenic Emissions and Implications for Aerosol Composition. <i>Environmental Science and Technology Letters</i> , 2018 , 5, 413-418	11	5
222	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	12.9	60
221	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	11.5	74
220	Improving present day and future estimates of anthropogenic sectoral emissions and the resulting air quality impacts in Africa. <i>Faraday Discussions</i> , 2017 , 200, 397-412	3.6	11
219	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	40	2658
218	Comparing mass balance and adjoint methods for inverse modeling of nitrogen dioxide columns for global nitrogen oxide emissions. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017 , 122, 4718-4734	4.4	21
217	Global Land Use Regression Model for Nitrogen Dioxide Air Pollution. <i>Environmental Science & Technology</i> , 2017 , 51, 6957-6964	10.3	111
216	Transboundary health impacts of transported global air pollution and international trade. <i>Nature</i> , 2017 , 543, 705-709	50.4	501
215	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	6.2	54
214	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	40	401
213	Associations between fine particulate matter and mortality in the 2001 Canadian Census Health and Environment Cohort. <i>Environmental Research</i> , 2017 , 159, 406-415	7.9	97

212	Urban greenness and mortality in Canada's largest cities: a national cohort study. <i>Lancet Planetary Health, The</i> , 2017 , 1, e289-e297	9.8	129
211	Comparison and evaluation of anthropogenic emissions of SO ₂ and NO _x over China 2017 ,		1
210	Source influence on emission pathways and ambient PM _{2.5} pollution over India (2015-2050) 2017 ,		4
209	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	8.4	87
208	Exposure to ambient air pollution and the incidence of dementia: A population-based cohort study. <i>Environment International</i> , 2017 , 108, 271-277	12.9	185
207	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	10.3	53
206	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	40	224
205	Comparisons of a Chemical Transport Model with a Four-Year (April to September) Analysis of Fine- and Coarse-Mode Aerosol Optical Depth Retrievals Over the Canadian Arctic. <i>Atmosphere - Ocean</i> , 2017 , 55, 213-229	1.5	6
204	Long-term exposure to ambient ultrafine particles and respiratory disease incidence in in Toronto, Canada: a cohort study. <i>Environmental Health</i> , 2017 , 16, 64	6	66
203	Tropospheric Emissions: Monitoring of Pollution (TEMPO). <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2017 , 186, 17-39	2.1	163
202	Global deposition of total reactive nitrogen oxides from 1996 to 2014 constrained with satellite observations of NO ₂ columns. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 10071-10094	6.8	10094
201	Impacts of coal burning on ambient PM _{2.5} pollution in China. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 4477-4491	6.8	102
200	OMI satellite observations of decadal changes in ground-level sulfur dioxide over North America. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 5921-5929	6.8	24
199	Boundary layer and free-tropospheric dimethyl sulfide in the Arctic spring and summer. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 8757-8770	6.8	7
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9	Interpreting aerosol lifetimes using the GEOS-Chem model and constraints from radionuclide measurements		2
8	Evaluation of OMI operational standard NO ₂ column retrievals using in situ and surface-based NO ₂ observations		6
7	Influence of aerosols and surface reflectance on satellite NO ₂ retrieval: seasonal and spatial characteristics and implications for NO ₂ emission constraints		4
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1	Land cover change impacts on atmospheric chemistry: simulating projected large-scale tree mortality in the United States		1