

# Armistead G Russell

## 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.

294  
papers

14,090  
citations

62  
h-index

108  
g-index

326  
ext. papers

16,489  
ext. citations

7.6  
avg, IF

6.69  
L-index

#	Paper	IF	Citations
294	Emissions, chemistry or bidirectional surface transfer? Gas phase formic acid dynamics in the atmosphere. <i>Atmospheric Environment</i> , <b>2022</b> , 274, 118995	5.3	2
293	Using land use variable information and a random forest approach to correct spatial mean bias in fused CMAQ fields for particulate and gas species. <i>Atmospheric Environment</i> , <b>2022</b> , 274, 118982	5.3	1
292	Application of an improved gas-constrained source apportionment method using data fused fields: A case study in North Carolina, USA. <i>Atmospheric Environment</i> , <b>2022</b> , 276, 119031	5.3	1
291	Neighborhood characteristics as confounders and effect modifiers for the association between air pollution exposure and subjective cognitive functioning.. <i>Environmental Research</i> , <b>2022</b> , 113221	7.9	0
290	Novel Method for Ozone Isopleth Construction and Diagnosis for the Ozone Control Strategy of Chinese Cities. <i>Environmental Science &amp; Technology</i> , <b>2021</b> , 55, 15625-15636	10.3	4
289	Estimating US Background Ozone Using Data Fusion. <i>Environmental Science &amp; Technology</i> , <b>2021</b> , 55, 4504-4512	10.3	2
288	Aerosol acidity and liquid water content regulate the dry deposition of inorganic reactive nitrogen. <i>Atmospheric Chemistry and Physics</i> , <b>2021</b> , 21, 6023-6033	6.8	10
287	Low-Molecular-Weight Carboxylic Acids in the Southeastern U.S.: Formation, Partitioning, and Implications for Organic Aerosol Aging. <i>Environmental Science &amp; Technology</i> , <b>2021</b> , 55, 6688-6699	10.3	5
286	Determining the Role of Acidity, Fate and Formation of IEPOX-Derived SOA in CMAQ. <i>Atmosphere</i> , <b>2021</b> , 12, 707	2.7	2
285	Significant contrasts in aerosol acidity between China and the United States. <i>Atmospheric Chemistry and Physics</i> , <b>2021</b> , 21, 8341-8356	6.8	2
284	Application and evaluation of a low-cost PM sensor and data fusion with CMAQ simulations to quantify the impacts of prescribed burning on air quality in Southwestern Georgia, USA. <i>Journal of the Air and Waste Management Association</i> , <b>2021</b> , 71, 815-829	2.4	3
283	Evaluating oil and gas contributions to ambient nonmethane hydrocarbon mixing ratios and ozone-related metrics in the Colorado Front Range. <i>Atmospheric Environment</i> , <b>2021</b> , 246, 118113	5.3	1
282	Individual and population level protection from particulate matter exposure by wearing facemasks. <i>Environment International</i> , <b>2021</b> , 146, 106026	12.9	5
281	Increased air pollution exposure among the Chinese population during the national quarantine in 2020. <i>Nature Human Behaviour</i> , <b>2021</b> , 5, 239-246	12.8	16
280	Four Decades of United States Mobile Source Pollutants: Spatial-Temporal Trends Assessed by Ground-Based Monitors, Air Quality Models, and Satellites. <i>Environmental Science &amp; Technology</i> , <b>2021</b> , 55, 882-892	10.3	3
279	High-resolution hybrid inversion of IASI ammonia columns to constrain US ammonia emissions using the CMAQ adjoint model. <i>Atmospheric Chemistry and Physics</i> , <b>2021</b> , 21, 2067-2082	6.8	5
278	Orthogonalization and machine learning methods for residential energy estimation with social and economic indicators. <i>Applied Energy</i> , <b>2021</b> , 283, 116114	10.7	1

277	Satellite Monitoring for Air Quality and Health. <i>Annual Review of Biomedical Data Science</i> , <b>2021</b> , 4, 417-447	6
276	The state of science on severe air pollution episodes: Quantitative and qualitative analysis. <i>Environment International</i> , <b>2021</b> , 156, 106732	12.9 1
275	The response of streams in the Adirondack region of New York to projected changes in sulfur and nitrogen deposition under changing climate. <i>Science of the Total Environment</i> , <b>2021</b> , 800, 149626	10.2 2
274	Impact of Formation Pathways on Secondary Inorganic Aerosol During Haze Pollution in Beijing: Quantitative Evidence From High-Resolution Observation and Modeling. <i>Geophysical Research Letters</i> , <b>2021</b> , 48,	4.9 1
273	Fine Particle Iron in Soils and Road Dust Is Modulated by Coal-Fired Power Plant Sulfur. <i>Environmental Science &amp; Technology</i> , <b>2020</b> , 54, 7088-7096	10.3 6
272	Connecting Air Quality with Emotional Well-Being and Neighborhood Infrastructure in a US City. <i>Environmental Health Insights</i> , <b>2020</b> , 14, 1178630220915488	1.4 7
271	Assessment of the Near-Road (monitoring) Network including comparison with nearby monitors within U.S. cities. <i>Environmental Research Letters</i> , <b>2020</b> , 15, 114026	6.2 5
270	Characterization and comparison of PM <sub>2.5</sub> oxidative potential assessed by two acellular assays. <i>Atmospheric Chemistry and Physics</i> , <b>2020</b> , 20, 5197-5210	6.8 17
269	Aerosol pH and liquid water content determine when particulate matter is sensitive to ammonia and nitrate availability. <i>Atmospheric Chemistry and Physics</i> , <b>2020</b> , 20, 3249-3258	6.8 39
268	Characterization of water-insoluble oxidative potential of PM <sub>2.5</sub> using the dithiothreitol assay. <i>Atmospheric Environment</i> , <b>2020</b> , 224, 117327	5.3 29
267	Apportioning prescribed fire impacts on PM <sub>2.5</sub> among individual fires through dispersion modeling. <i>Atmospheric Environment</i> , <b>2020</b> , 223, 117260	5.3 4
266	Evaluating a multipollutant metric for use in characterizing traffic-related air pollution exposures within near-road environments. <i>Environmental Research</i> , <b>2020</b> , 184, 109389	7.9 3
265	Accelerated epigenetic age as a biomarker of cardiovascular sensitivity to traffic-related air pollution. <i>Aging</i> , <b>2020</b> , 12, 24141-24155	5.6 9
264	A multiphase CMAQ version 5.0 adjoint. <i>Geoscientific Model Development</i> , <b>2020</b> , 13, 2925-2944	6.3 7
263	Toward enhanced CO <sub>2</sub> adsorption on bimodal calcium-based materials with porous truncated architectures. <i>Applied Surface Science</i> , <b>2020</b> , 505, 144512	6.7 8
262	Electrochemical ammonia synthesis catalyzed with a CoFe layered double hydroxide [A new initiative in clean fuel synthesis. <i>Journal of Cleaner Production</i> , <b>2020</b> , 250, 119525	10.3 13
261	High-performance of nanostructured Ni/CeO <sub>2</sub> catalyst on CO <sub>2</sub> methanation. <i>Applied Catalysis B: Environmental</i> , <b>2020</b> , 268, 118474	21.8 104
260	Intense Warming Will Significantly Increase Cropland Ammonia Volatilization Threatening Food Security and Ecosystem Health. <i>One Earth</i> , <b>2020</b> , 3, 126-134	8.1 11

259	Unveiling the critical role of p-d hybridization interaction in M13Gan clusters on CO2 adsorption. <i>Fuel</i> , <b>2020</b> , 280, 118446	7.1	3
258	Near-road Vehicle Emissions Air Quality Monitoring for Exposure Modeling. <i>Atmospheric Environment</i> , <b>2020</b> , 224, 117318-117318	5.3	9
257	Greater Contribution From Agricultural Sources to Future Reactive Nitrogen Deposition in the United States. <i>Earth's Future</i> , <b>2020</b> , 8, e2019EF001453	7.9	1
256	Air Pollutant Correlations in China: Secondary Air Pollutant Responses to NOx and SO2 Control. <i>Environmental Science and Technology Letters</i> , <b>2020</b> , 7, 695-700	11	35
255	Using High-Temporal-Resolution Ambient Data to Investigate Gas-Particle Partitioning of Ammonium over Different Seasons. <i>Environmental Science &amp; Technology</i> , <b>2020</b> , 54, 9834-9843	10.3	2
254	Temporal changes in short-term associations between cardiorespiratory emergency department visits and PM in Los Angeles, 2005 to 2016. <i>Environmental Research</i> , <b>2020</b> , 190, 109967	7.9	11
253	Application of a Fusion Method for Gas and Particle Air Pollutants between Observational Data and Chemical Transport Model Simulations Over the Contiguous United States for 2005-2014. <i>International Journal of Environmental Research and Public Health</i> , <b>2019</b> , 16,	4.6	7
252	On the accuracy and potential of Google Maps location history data to characterize individual mobility for air pollution health studies. <i>Environmental Pollution</i> , <b>2019</b> , 252, 924-930	9.3	11
251	Detailed Analysis of Estimated pH, Activity Coefficients, and Ion Concentrations between the Three Aerosol Thermodynamic Models. <i>Environmental Science &amp; Technology</i> , <b>2019</b> , 53, 8903-8913	10.3	12
250	Fusion Method Combining Ground-Level Observations with Chemical Transport Model Predictions Using an Ensemble Deep Learning Framework: Application in China to Estimate Spatiotemporally-Resolved PM Exposure Fields in 2014-2017. <i>Environmental Science &amp; Technology</i> , <b>2019</b> , 53, 7306-7315	10.3	24
249	Characterization of Spatial Air Pollution Patterns Near a Large Railyard Area in Atlanta, Georgia. <i>International Journal of Environmental Research and Public Health</i> , <b>2019</b> , 16,	4.6	11
248	Review of Acellular Assays of Ambient Particulate Matter Oxidative Potential: Methods and Relationships with Composition, Sources, and Health Effects. <i>Environmental Science &amp; Technology</i> , <b>2019</b> , 53, 4003-4019	10.3	161
247	Impact of air pollution control policies on cardiorespiratory emergency department visits, Atlanta, GA, 1999-2013. <i>Environment International</i> , <b>2019</b> , 126, 627-634	12.9	10
246	Air quality accountability: Developing long-term daily time series of pollutant changes and uncertainties in Atlanta, Georgia resulting from the 1990 Clean Air Act Amendments. <i>Environment International</i> , <b>2019</b> , 123, 522-534	12.9	9
245	Perturbations of the arginine metabolome following exposures to traffic-related air pollution in a panel of commuters with and without asthma. <i>Environment International</i> , <b>2019</b> , 127, 503-513	12.9	48
244	Empirical Development of Ozone Isopleths: Applications to Los Angeles. <i>Environmental Science and Technology Letters</i> , <b>2019</b> , 6, 294-299	11	14
243	High-Resolution Data Sets Unravel the Effects of Sources and Meteorological Conditions on Nitrate and Its Gas-Particle Partitioning. <i>Environmental Science &amp; Technology</i> , <b>2019</b> , 53, 3048-3057	10.3	24
242	Aerosols in an arid environment: The role of aerosol water content, particulate acidity, precursors, and relative humidity on secondary inorganic aerosols. <i>Science of the Total Environment</i> , <b>2019</b> , 646, 564-572	10.2	28

241	Energy and air pollution benefits of household fuel policies in northern China. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2019</b> , 116, 16773-16780	11.5	85
240	CO <sub>2</sub> hydrogenation to light olefins with high-performance Fe <sub>0.30</sub> Co <sub>0.15</sub> Zr <sub>0.45</sub> K <sub>0.10</sub> O <sub>1.63</sub> . <i>Journal of Catalysis</i> , <b>2019</b> , 377, 224-232	7.3	18
239	Current and Future Responses of Aerosol pH and Composition in the U.S. to Declining SO Emissions and Increasing NH Emissions. <i>Environmental Science &amp; Technology</i> , <b>2019</b> , 53, 9646-9655	10.3	8
238	Low-energy-consumption and environmentally friendly CO <sub>2</sub> capture via blending alcohols into amine solution. <i>Applied Energy</i> , <b>2019</b> , 254, 113696	10.7	23
237	Global Fire Forecasts Using Both Large-Scale Climate Indices and Local Meteorological Parameters. <i>Global Biogeochemical Cycles</i> , <b>2019</b> , 33, 1129-1145	5.9	11
236	Aerosol pH Dynamics During Haze Periods in an Urban Environment in China: Use of Detailed, Hourly, Speciated Observations to Study the Role of Ammonia Availability and Secondary Aerosol Formation and Urban Environment. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2019</b> , 124, 9730-9742	4.4	19
235	The Impacts of Prescribed Fire on PM Air Quality and Human Health: Application to Asthma-Related Emergency Room Visits in Georgia, USA. <i>International Journal of Environmental Research and Public Health</i> , <b>2019</b> , 16,	4.6	15
234	Development of a WebGIS-Based Analysis Tool for Human Health Protection from the Impacts of Prescribed Fire Smoke in Southeastern USA. <i>International Journal of Environmental Research and Public Health</i> , <b>2019</b> , 16,	4.6	2
233	Relaxing Energy Policies Coupled with Climate Change Will Significantly Undermine Efforts to Attain US Ozone Standards. <i>One Earth</i> , <b>2019</b> , 1, 229-239	8.1	10
232	Elucidating emissions control strategies for ozone to protect human health and public welfare within the continental United States. <i>Environmental Research Letters</i> , <b>2019</b> , 14, 124093	6.2	3
231	Source-Apportioned PM <sub>2.5</sub> and Cardiorespiratory Emergency Department Visits: Accounting for Source Contribution Uncertainty. <i>Epidemiology</i> , <b>2019</b> , 30, 789-798	3.1	9
230	CO hydrogenation to high-value products via heterogeneous catalysis. <i>Nature Communications</i> , <b>2019</b> , 10, 5698	17.4	226
229	Demographic Inequities in Health Outcomes and Air Pollution Exposure in the Atlanta Area and its Relationship to Urban Infrastructure. <i>Journal of Urban Health</i> , <b>2019</b> , 96, 219-234	5.8	16
228	Monitoring particulate matter in India: recent trends and future outlook. <i>Air Quality, Atmosphere and Health</i> , <b>2019</b> , 12, 45-58	5.6	55
227	Drought Impacts on Secondary Organic Aerosol: A Case Study in the Southeast United States. <i>Environmental Science &amp; Technology</i> , <b>2019</b> , 53, 242-250	10.3	2
226	Spatial PM mobile source impacts using a calibrated indicator method. <i>Journal of the Air and Waste Management Association</i> , <b>2019</b> , 69, 402-414	2.4	1
225	Air pollutant exposure field modeling using air quality model-data fusion methods and comparison with satellite AOD-derived fields: application over North Carolina, USA. <i>Air Quality, Atmosphere and Health</i> , <b>2018</b> , 11, 11-22	5.6	19
224	Burned Area Comparisons Between Prescribed Burning Permits in Southeastern United States and Two Satellite-Derived Products. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2018</b> , 123, 4746-4757	4.4	16

223	Modeling biogenic secondary organic aerosol (BSOA) formation from monoterpene reactions with NO <sub>3</sub> : A case study of the SOAS campaign using CMAQ. <i>Atmospheric Environment</i> , <b>2018</b> , 184, 146-155	5.3	9
222	Cross-comparison and evaluation of air pollution field estimation methods. <i>Atmospheric Environment</i> , <b>2018</b> , 179, 49-60	5.3	34
221	Impacts of rural worker migration on ambient air quality and health in China: From the perspective of upgrading residential energy consumption. <i>Environment International</i> , <b>2018</b> , 113, 290-299	12.9	16
220	Source-specific pollution exposure and associations with pulmonary response in the Atlanta Commuters Exposure Studies. <i>Journal of Exposure Science and Environmental Epidemiology</i> , <b>2018</b> , 28, 337-347	6.7	13
219	Single-atom silver-manganese nanocatalysts based on atom-economy design for reaction temperature-controlled selective hydrogenation of bioresources-derivable diethyl oxalate to ethyl glycolate and acetaldehyde diethyl acetal. <i>Applied Catalysis B: Environmental</i> , <b>2018</b> , 232, 348-354	21.8	10
218	Associations of mobile source air pollution during the first year of life with childhood pneumonia, bronchiolitis, and otitis media. <i>Environmental Epidemiology</i> , <b>2018</b> , 2,	0.2	11
217	Source apportionment for fine particulate matter in a Chinese city using an improved gas-constrained method and comparison with multiple receptor models. <i>Environmental Pollution</i> , <b>2018</b> , 233, 1058-1067	9.3	20
216	Spatial, seasonal and diurnal patterns in physicochemical characteristics and sources of PM in both inland and coastal regions within a megacity in China. <i>Journal of Hazardous Materials</i> , <b>2018</b> , 342, 139-149 <sup>12.8</sup>	12.8	35
215	Understanding nitrate formation in a world with less sulfate <b>2018</b> ,		2
214	Linked Response of Aerosol Acidity and Ammonia to SO and NO Emissions Reductions in the United States. <i>Environmental Science &amp; Technology</i> , <b>2018</b> , 52, 9861-9873	10.3	28
213	Forecasting the Impacts of Prescribed Fires for Dynamic Air Quality Management. <i>Atmosphere</i> , <b>2018</b> , 9, 220	2.7	6
212	Catalyst-TiO(OH) could drastically reduce the energy consumption of CO capture. <i>Nature Communications</i> , <b>2018</b> , 9, 2672	17.4	71
211	Errors associated with the use of roadside monitoring in the estimation of acute traffic pollutant-related health effects. <i>Environmental Research</i> , <b>2018</b> , 165, 210-219	7.9	11
210	Use of high-resolution metabolomics for the identification of metabolic signals associated with traffic-related air pollution. <i>Environment International</i> , <b>2018</b> , 120, 145-154	12.9	67
209	First-principles and experimental studies of [ZrO(OH)] <sup>+</sup> or ZrO(OH) <sub>2</sub> for enhancing CO <sub>2</sub> desorption kinetics ¶perative for significant reduction of CO <sub>2</sub> capture energy consumption. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 17671-17681	13	9
208	Characterization of aerosol composition, aerosol acidity, and organic acid partitioning at an agriculturally intensive rural southeastern US site. <i>Atmospheric Chemistry and Physics</i> , <b>2018</b> , 18, 11471-11491 <sup>6.8</sup>	6.8	55
207	Application and evaluation of two model fusion approaches to obtain ambient air pollutant concentrations at a fine spatial resolution (250m) in Atlanta. <i>Environmental Modelling and Software</i> , <b>2018</b> , 109, 182-190	5.2	10
206	Scientific assessment of background ozone over the U.S.: Implications for air quality management. <i>Elementa</i> , <b>2018</b> , 6, 56	3.6	52

205	Field Test of Several Low-Cost Particulate Matter Sensors in High and Low Concentration Urban Environments. <i>Aerosol and Air Quality Research</i> , <b>2018</b> , 18, 565-578	4.6	62
204	Using cell phone location to assess misclassification errors in air pollution exposure estimation. <i>Environmental Pollution</i> , <b>2018</b> , 233, 261-266	9.3	41
203	Characterization of Aerosol Composition, Aerosol Acidity and Organic Acid Partitioning at an Agriculture-Intensive Rural Southeastern U.S. Site <b>2018</b> ,		1
202	Understanding nitrate formation in a world with less sulfate. <i>Atmospheric Chemistry and Physics</i> , <b>2018</b> , 18, 12765-12775	6.8	45
201	Estimating Acute Cardiovascular Effects of Ambient PM Metals. <i>Environmental Health Perspectives</i> , <b>2018</b> , 126, 027007	8.4	30
200	Simulating Biogenic Secondary Organic Aerosol During Summertime in China. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2018</b> , 123, 11,100	4.4	6
199	Source impact modeling of spatiotemporal trends in PM <sub>2.5</sub> oxidative potential across the eastern United States. <i>Atmospheric Environment</i> , <b>2018</b> , 193, 158-167	5.3	13
198	Local and regional contributions to fine particulate matter in Beijing during heavy haze episodes. <i>Science of the Total Environment</i> , <b>2017</b> , 580, 283-296	10.2	75
197	A New Combined Stepwise-Based High-Order Decoupled Direct and Reduced-Form Method To Improve Uncertainty Analysis in PM Simulations. <i>Environmental Science &amp; Technology</i> , <b>2017</b> , 51, 3852-3859	10.3	10
196	Spatial and temporal source apportionment of PM 2.5 in Georgia, 2002 to 2013. <i>Atmospheric Environment</i> , <b>2017</b> , 161, 112-121	5.3	14
195	TiO(OH) - highly effective catalysts for optimizing CO desorption kinetics reducing CO capture cost: A new pathway. <i>Scientific Reports</i> , <b>2017</b> , 7, 2943	4.9	9
194	Computation-predicted, stable, and inexpensive single-atom nanocatalyst Pt@Mo <sub>2</sub> C In important advanced material for H <sub>2</sub> production. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 14658-14672	13	28
193	Daily ambient air pollution metrics for five cities: Evaluation of data-fusion-based estimates and uncertainties. <i>Atmospheric Environment</i> , <b>2017</b> , 158, 36-50	5.3	20
192	pH of Aerosols in a Polluted Atmosphere: Source Contributions to Highly Acidic Aerosol. <i>Environmental Science &amp; Technology</i> , <b>2017</b> , 51, 4289-4296	10.3	102
191	Daily estimation of ground-level PM concentrations at 4km resolution over Beijing-Tianjin-Hebei by fusing MODIS AOD and ground observations. <i>Science of the Total Environment</i> , <b>2017</b> , 580, 235-244	10.2	61
190	Source apportionment and heavy metal health risk (HMHR) quantification from sources in a southern city in China, using an ME2-HMHR model. <i>Environmental Pollution</i> , <b>2017</b> , 221, 335-342	9.3	72
189	Measurement error in mobile source air pollution exposure estimates due to residential mobility during pregnancy. <i>Journal of Exposure Science and Environmental Epidemiology</i> , <b>2017</b> , 27, 513-520	6.7	35
188	Recommendations on statistics and benchmarks to assess photochemical model performance. <i>Journal of the Air and Waste Management Association</i> , <b>2017</b> , 67, 582-598	2.4	182

187	C2 Oxygenate Synthesis via Fischer-Tropsch Synthesis on Co <sub>2</sub> C and Co/Co <sub>2</sub> C Interface Catalysts: How To Control the Catalyst Crystal Facet for Optimal Selectivity. <i>ACS Catalysis</i> , <b>2017</b> , 7, 8285-8295	13.1	56
186	Associations between Source-Specific Fine Particulate Matter and Emergency Department Visits for Respiratory Disease in Four U.S. Cities. <i>Environmental Health Perspectives</i> , <b>2017</b> , 125, 97-103	8.4	82
185	Associations between Ambient Fine Particulate Oxidative Potential and Cardiorespiratory Emergency Department Visits. <i>Environmental Health Perspectives</i> , <b>2017</b> , 125, 107008	8.4	57
184	Urban cross-sector actions for carbon mitigation with local health co-benefits in China. <i>Nature Climate Change</i> , <b>2017</b> , 7, 736-742	21.4	65
183	Air quality modeling for accountability research: Operational, dynamic, and diagnostic evaluation. <i>Atmospheric Environment</i> , <b>2017</b> , 166, 551-565	5.3	21
182	Fine particulate matter and cardiovascular disease: Comparison of assessment methods for long-term exposure. <i>Environmental Research</i> , <b>2017</b> , 159, 16-23	7.9	53
181	Responses in Ozone and Its Production Efficiency Attributable to Recent and Future Emissions Changes in the Eastern United States. <i>Environmental Science &amp; Technology</i> , <b>2017</b> , 51, 13797-13805	10.3	9
180	Development of PM Source Profiles Using a Hybrid Chemical Transport-Receptor Modeling Approach. <i>Environmental Science &amp; Technology</i> , <b>2017</b> , 51, 13788-13796	10.3	15
179	Synthesis of methanol from CO hydrogenation promoted by dissociative adsorption of hydrogen on a GaNi(221) surface. <i>Physical Chemistry Chemical Physics</i> , <b>2017</b> , 19, 18539-18555	3.6	29
178	Oxidative potential of PM <sub>2.5</sub> during Atlanta rush hour: Measurements of in-vehicle dithiothreitol (DTT) activity. <i>Atmospheric Environment</i> , <b>2017</b> , 165, 169-178	5.3	31
177	Accountability assessment of regulatory impacts on ozone and PM <sub>2.5</sub> concentrations using statistical and deterministic pollutant sensitivities. <i>Air Quality, Atmosphere and Health</i> , <b>2017</b> , 10, 695-711	5.6	13
176	Size distribution, directional source contributions and pollution status of PM from Chengdu, China during a long-term sampling campaign. <i>Journal of Environmental Sciences</i> , <b>2017</b> , 56, 1-11	6.4	9
175	Evaluating the effectiveness of air quality regulations: A review of accountability studies and frameworks. <i>Journal of the Air and Waste Management Association</i> , <b>2017</b> , 67, 144-172	2.4	48
174	Quantification of long-term primary and secondary source contributions to carbonaceous aerosols. <i>Environmental Pollution</i> , <b>2016</b> , 219, 897-905	9.3	17
173	Chemical characterization and toxicity of particulate matter emissions from roadside trash combustion in urban India. <i>Atmospheric Environment</i> , <b>2016</b> , 147, 22-30	5.3	48
172	Calibrating R-LINE model results with observational data to develop annual mobile source air pollutant fields at fine spatial resolution: Application in Atlanta. <i>Atmospheric Environment</i> , <b>2016</b> , 147, 446-457	5.3	21
171	Air pollution complex: Understanding the sources, formation processes and health effects. <i>Frontiers of Environmental Science and Engineering</i> , <b>2016</b> , 10, 1	5.8	3
170	Composition and oxidation state of sulfur in atmospheric particulate matter. <i>Atmospheric Chemistry and Physics</i> , <b>2016</b> , 16, 13389-13398	6.8	12



169	Oxidative potential of ambient water-soluble PM <sub>2.5</sub> in the southeastern United States: contrasts in sources and health associations between ascorbic acid (AA) and dithiothreitol (DTT) assays. <i>Atmospheric Chemistry and Physics</i> , <b>2016</b> , 16, 3865-3879	6.8	151
168	Pediatric emergency department visits and ambient Air pollution in the U.S. State of Georgia: a case-crossover study. <i>Environmental Health</i> , <b>2016</b> , 15, 115	6	50
167	"What We Breathe Impacts Our Health: Improving Understanding of the Link between Air Pollution and Health". <i>Environmental Science &amp; Technology</i> , <b>2016</b> , 50, 4895-904	10.3	229
166	High aerosol acidity despite declining atmospheric sulfate concentrations over the past 15 years. <i>Nature Geoscience</i> , <b>2016</b> , 9, 282-285	18.3	250
165	Method for Fusing Observational Data and Chemical Transport Model Simulations To Estimate Spatiotemporally Resolved Ambient Air Pollution. <i>Environmental Science &amp; Technology</i> , <b>2016</b> , 50, 3695-705	10.3	74
164	Estimating the Impact of Air Pollution Controls on Ambient Concentrations. <i>Springer Proceedings in Complexity</i> , <b>2016</b> , 141-146	0.3	1
163	Municipal solid waste and dung cake burning: discoloring the Taj Mahal and human health impacts in Agra. <i>Environmental Research Letters</i> , <b>2016</b> , 11, 104009	6.2	16
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20	A nonlinear filtering algorithm for multi-dimensional finite element pollutant advection schemes. <i>Atmospheric Environment Part A General Topics</i> , <b>1993</b> , 27, 793-799		6
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16	A comparison of fast chemical kinetic solvers for air quality modeling. <i>Atmospheric Environment Part A General Topics</i> , <b>1992</b> , 26, 1783-1789		35
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6	Increased air pollution exposure among the Chinese population during the national quarantine in 2020		3
5	Aerosol pH and liquid water content determine when particulate matter is sensitive to ammonia and nitrate availability		2
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