Armistead G Russell

List of Publications by Year
in descending order

296 papers	19,132 citations	10373 72 h-index	16636 123 g-index
326 all docs	326 docs citations	326 times ranked	16401 citing authors

#	Article	IF	Citations
1	Amine-Based CO₂ Capture Technology Development from the Beginning of 2013â€"A Review. ACS Applied Materials & Interfaces, 2015, 7, 2137-2148.	4.0	686
2	PM and light extinction model performance metrics, goals, and criteria for three-dimensional air quality models. Atmospheric Environment, 2006, 40, 4946-4959.	1.9	634
3	Review of recent advances in carbon dioxide separation and capture. RSC Advances, 2013, 3, 22739.	1.7	632
4	CO2 hydrogenation to high-value products via heterogeneous catalysis. Nature Communications, 2019, 10, 5698.	5.8	571
5	A study of secondary organic aerosol formation in the anthropogenicâ€influenced southeastern United States. Journal of Geophysical Research, 2007, 112, .	3.3	517
6	NARSTO critical review of photochemical models and modeling. Atmospheric Environment, 2000, 34, 2283-2324.	1.9	402
7	High aerosol acidity despite declining atmospheric sulfate concentrations over the past 15 years. Nature Geoscience, 2016, 9, 282-285.	5.4	327
8	Recommendations on statistics and benchmarks to assess photochemical model performance. Journal of the Air and Waste Management Association, 2017, 67, 582-598.	0.9	326
9	Review of Acellular Assays of Ambient Particulate Matter Oxidative Potential: Methods and Relationships with Composition, Sources, and Health Effects. Environmental Science & Technology, 2019, 53, 4003-4019.	4.6	321
10	â€œWhat We Breathe Impacts Our Health: Improving Understanding of the Link between Air Pollution and Healthâ€. Environmental Science & Technology, 2016, 50, 4895-4904.	4.6	294
11	Meta-principles for developing smart, sustainable, and healthy cities. Science, 2016, 352, 940-943.	6.0	267
12	Nonlinear Response of Ozone to Emissions:Â Source Apportionment and Sensitivity Analysis. Environmental Science & Technology, 2005, 39, 6739-6748.	4.6	263
13	Organic Aerosols Associated with the Generation of Reactive Oxygen Species (ROS) by Water-Soluble PM_{2.5}. Environmental Science & Technology, 2015, 49, 4646-4656.	4.6	259
14	Reactive Oxygen Species Generation Linked to Sources of Atmospheric Particulate Matter and Cardiorespiratory Effects. Environmental Science & Technology, 2015, 49, 13605-13612.	4.6	258
15	Fine Particle Sources and Cardiorespiratory Morbidity: An Application of Chemical Mass Balance and Factor Analytical Source-Apportionment Methods. Environmental Health Perspectives, 2008, 116, 459-466.	2.8	236
16	Emission Factors of Particulate Matter and Elemental Carbon for Crop Residues and Coals Burned in Typical Household Stoves in China. Environmental Science & Technology, 2010, 44, 7157-7162.	4.6	229
17	High-performance of nanostructured Ni/CeO2 catalyst on CO2 methanation. Applied Catalysis B: Environmental, 2020, 268, 118474.	10.8	226
18	Reactive oxygen species associated with water-soluble PM_{2.5} in the southeastern United States: spatiotemporal trends and source apportionment. Atmospheric Chemistry and Physics, 2014, 14, 12915-12930.	1.9	224

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19	Oxidative potential of ambient water-soluble PM_{2.5} in the southeastern United States: contrasts in sources and health associations between ascorbic acid (AA) and dithiothreitol (DTT) assays. Atmospheric Chemistry and Physics, 2016, 16, 3865-3879.	1.9	223
20	Emissions of PAHs from Indoor Crop Residue Burning in a Typical Rural Stove: Emission Factors, Size Distributions, and Gasâ^'Particle Partitioning. Environmental Science & Technology, 2011, 45, 1206-1212.	4.6	215
21	Mesoporous amine-modified SiO2 aerogel: a potential CO2 sorbent. Energy and Environmental Science, 2011, 4, 2070.	15.6	214
22	Gaseous and Particulate Emissions from Prescribed Burning in Georgia. Environmental Science & Technology, 2005, 39, 9049-9056.	4.6	207
23	Photochemical modeling of the Southern California air quality study. Environmental Science & Technology, 1993, 27, 378-388.	4.6	204
24	A Focus on Particulate Matter and Health. Environmental Science & Technology, 2009, 43, 4620-4625.	4.6	203
25	Particulate matter components, sources, and health: Systematic approaches to testing effects. Journal of the Air and Waste Management Association, 2015, 65, 544-558.	0.9	185
26	Impacts of global climate change and emissions on regional ozone and fine particulate matter concentrations over the United States. Journal of Geophysical Research, 2007, 112, .	3.3	184
27	Airport related emissions and impacts on air quality: Application to the Atlanta International Airport. Atmospheric Environment, 2005, 39, 5787-5798.	1.9	178
28	High-Order, Direct Sensitivity Analysis of Multidimensional Air Quality Models. Environmental Science & Technology, 2003, 37, 2442-2452.	4.6	170
29	Potential Impact of Climate Change on Air Pollution-Related Human Health Effects. Environmental Science & Technology, 2009, 43, 4979-4988.	4.6	165
30	Speciation of ambient fine organic carbon particles and source apportionment of PM_{2.5} in Indian cities. Journal of Geophysical Research, 2007, 112, .	3.3	163
31	Fast, Direct Sensitivity Analysis of Multidimensional Photochemical Models. Environmental Science & Technology, 1997, 31, 2859-2868.	4.6	160
32	Source apportionment of PM2.5: Comparing PMF and CMB results for four ambient monitoring sites in the southeastern United States. Atmospheric Environment, 2008, 42, 4126-4137.	1.9	159
33	Impact of exposure measurement error in air pollution epidemiology: effect of error type in time-series studies. Environmental Health, 2011, 10, 61.	1.7	154
34	Energy and air pollution benefits of household fuel policies in northern China. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 16773-16780.	3.3	152
35	A new approach to photochemical pollution control: implications of spatial patterns in pollutant responses to reductions in nitrogen oxides and reactive organic gas emissions. Environmental Science & Technology, 1989, 23, 1290-1301.	4.6	147
36	pH of Aerosols in a Polluted Atmosphere: Source Contributions to Highly Acidic Aerosol. Environmental Science & Technology, 2017, 51, 4289-4296.	4.6	147

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37	Spatial and Seasonal Trends in Biogenic Secondary Organic Aerosol Tracers and Water-Soluble Organic Carbon in the Southeastern United States. Environmental Science & Technology, 2008, 42, 5171-5176.	4.6	139
38	Avoided Heat-Related Mortality through Climate Adaptation Strategies in Three US Cities. PLoS ONE, 2014, 9, e100852.	1.1	130
39	Catalyst-TiO(OH)2 could drastically reduce the energy consumption of CO2 capture. Nature Communications, 2018, 9, 2672.	5.8	122
40	Emission of Oxygenated Polycyclic Aromatic Hydrocarbons from Indoor Solid Fuel Combustion. Environmental Science & Technology, 2011, 45, 3459-3465.	4.6	120
41	Revising the use of potassium (K) in the source apportionment of PM2.5. Atmospheric Pollution Research, 2013, 4, 14-21.	1.8	120
42	Improving the Accuracy of Daily PM_{2.5} Distributions Derived from the Fusion of Ground-Level Measurements with Aerosol Optical Depth Observations, a Case Study in North China. Environmental Science & Technology, 2016, 50, 4752-4759.	4.6	118
43	Atmospheric aerosol over two urbanâ€“rural pairs in the southeastern United States: Chemical composition and possible sources. Atmospheric Environment, 2005, 39, 4453-4470.	1.9	116
44	Use of high-resolution metabolomics for the identification of metabolic signals associated with traffic-related air pollution. Environment International, 2018, 120, 145-154.	4.8	113
45	Air Pollutant Correlations in China: Secondary Air Pollutant Responses to NO_x and SO₂ Control. Environmental Science and Technology Letters, 2020, 7, 695-700.	3.9	113
46	An examination of exposure measurement error from air pollutant spatial variability in time-series studies. Journal of Exposure Science and Environmental Epidemiology, 2010, 20, 135-146.	1.8	111
47	Fractionating ambient humic-like substances (HULIS) for their reactive oxygen species activity â€“ Assessing the importance of quinones and atmospheric aging. Atmospheric Environment, 2015, 120, 351-359.	1.9	110
48	Associations between Source-Specific Fine Particulate Matter and Emergency Department Visits for Respiratory Disease in Four U.S. Cities. Environmental Health Perspectives, 2017, 125, 97-103.	2.8	110
49	Source apportionment of fine particulate matter during autumn haze episodes in Shanghai, China. Journal of Geophysical Research D: Atmospheres, 2014, 119, 1903-1914.	1.2	109
50	Urban cross-sector actions for carbon mitigation with local health co-benefits in China. Nature Climate Change, 2017, 7, 736-742.	8.1	102
51	Mathematical modeling of the formation of nitrogen-containing air pollutants. 1. Evaluation of an Eulerian photochemical model. Environmental Science & Technology, 1988, 22, 263-271.	4.6	99
52	Optimization-Based Source Apportionment of PM2.5Incorporating Gas-to-Particle Ratios. Environmental Science & Technology, 2005, 39, 3245-3254.	4.6	99
53	Source apportionment and heavy metal health risk (HMHR) quantification from sources in a southern city in China, using an ME2-HMHR model. Environmental Pollution, 2017, 221, 335-342.	3.7	99
54	Associations between Ambient Fine Particulate Oxidative Potential and Cardiorespiratory Emergency Department Visits. Environmental Health Perspectives, 2017, 125, 107008.	2.8	96

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55	Local and regional contributions to fine particulate matter in Beijing during heavy haze episodes. Science of the Total Environment, 2017, 580, 283-296.	3.9	93
56	Monitoring particulate matter in India: recent trends and future outlook. Air Quality, Atmosphere and Health, 2019, 12, 45-58.	1.5	93
57	Source Apportionment of Daily Fine Particulate Matter at Jefferson Street, Atlanta, GA, during Summer and Winter. Journal of the Air and Waste Management Association, 2007, 57, 228-242.	0.9	91
58	Field Test of Several Low-Cost Particulate Matter Sensors in High and Low Concentration Urban Environments. Aerosol and Air Quality Research, 2018, 18, 565-578.	0.9	91
59	Characterization of aerosol composition, aerosol acidity, and organic acid partitioning at an agriculturally intensive rural southeastern US site. Atmospheric Chemistry and Physics, 2018, 18, 11471-11491.	1.9	88
60	Method for Fusing Observational Data and Chemical Transport Model Simulations To Estimate Spatiotemporally Resolved Ambient Air Pollution. Environmental Science & Technology, 2016, 50, 3695-3705.	4.6	86
61	Impact of nitrogen and climate change interactions on ambient air pollution and human health. Biogeochemistry, 2013, 114, 121-134.	1.7	85
62	Source apportionment of PM2.5 in the southeastern United States using receptor and emissions-based models: Conceptual differences and implications for time-series health studies. Atmospheric Environment, 2006, 40, 2533-2551.	1.9	84
63	Modified nanosepiolite as an inexpensive support of tetraethylenepentamine for CO2 sorption. Nano Energy, 2015, 11, 235-246.	8.2	82
64	C₂ Oxygenate Synthesis via Fischerâ€“Tropsch Synthesis on Co₂C and Co/Co₂C Interface Catalysts: How To Control the Catalyst Crystal Facet for Optimal Selectivity. ACS Catalysis, 2017, 7, 8285-8295.	5.5	81
65	Characterizing the Spatial and Temporal Patterns of Open Burning of Municipal Solid Waste (MSW) in Indian Cities. Environmental Science & Technology, 2015, 49, 12904-12912.	4.6	80
66	Scientific assessment of background ozone over the U.S.: Implications for air quality management. Elementa, 2018, 6, 56.	1.1	80
67	Assessment of Biomass Burning Emissions and Their Impacts on Urban and Regional PM_{2.5}: A Georgia Case Study. Environmental Science & Technology, 2009, 43, 299-305.	4.6	79
68	Joint Effects of Ambient Air Pollutants on Pediatric Asthma Emergency Department Visits in Atlanta, 1998â€“2004. Epidemiology, 2014, 25, 666-673.	1.2	79
69	Daily estimation of ground-level PM2.5 concentrations at 4 km resolution over Beijing-Tianjin-Hebei by fusing MODIS AOD and ground observations. Science of the Total Environment, 2017, 580, 235-244.	3.9	79
70	Temporal and Spatial Distributions of Ozone in Atlanta: Regulatory and Epidemiologic Implications. Journal of the Air and Waste Management Association, 1998, 48, 418-426.	0.9	78
71	Nonlinearity in atmospheric response: A direct sensitivity analysis approach. Journal of Geophysical Research, 2004, 109, .	3.3	78
72	Perturbations of the arginine metabolome following exposures to traffic-related air pollution in a panel of commuters with and without asthma. Environment International, 2019, 127, 503-513.	4.8	78

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73	On some aspects of nighttime atmospheric chemistry. Environmental Science & Technology, 1986, 20, 1167-1172.	4.6	77
74	Mathematical modeling and control of the dry deposition flux of nitrogen-containing air pollutants. Environmental Science & Technology, 1993, 27, 2772-2782.	4.6	72
75	The social and spatial distribution of temperature-related health impacts from urban heat island reduction policies. Environmental Science and Policy, 2016, 66, 366-374.	2.4	72
76	Aerosol pH and liquid water content determine when particulate matter is sensitive to ammonia and nitrate availability. Atmospheric Chemistry and Physics, 2020, 20, 3249-3258.	1.9	72
77	REGIONAL ATMOSPHERIC POLLUTION AND TRANSBOUNDARY AIR QUALITY MANAGEMENT. Annual Review of Environment and Resources, 2005, 30, 1-37.	5.6	68
78	Diagnosis of Aged Prescribed Burning Plumes Impacting an Urban Area. Environmental Science & Technology, 2008, 42, 1438-1444.	4.6	68
79	Pediatric emergency department visits and ambient Air pollution in the U.S. State of Georgia: a case-crossover study. Environmental Health, 2016, 15, 115.	1.7	66
80	Controlled Wind Tunnel Experiments for Particle Bounceoff and Resuspension. Aerosol Science and Technology, 1992, 17, 245-262.	1.5	65
81	Spatial distribution of carbonaceous aerosol in the southeastern United States using molecular markers and carbon isotope data. Journal of Geophysical Research, 2006, 111, n/a-n/a.	3.3	65
82	Air Quality Measurements for the Aerosol Research and Inhalation Epidemiology Study. Journal of the Air and Waste Management Association, 2006, 56, 1445-1458.	0.9	64
83	Fine particulate matter and cardiovascular disease: Comparison of assessment methods for long-term exposure. Environmental Research, 2017, 159, 16-23.	3.7	63
84	Understanding nitrate formation in a world with less sulfate. Atmospheric Chemistry and Physics, 2018, 18, 12765-12775.	1.9	63
85	Characterization of water-insoluble oxidative potential of PM2.5 using the dithiothreitol assay. Atmospheric Environment, 2020, 224, 117327.	1.9	63
86	Evaluating the effectiveness of air quality regulations: A review of accountability studies and frameworks. Journal of the Air and Waste Management Association, 2017, 67, 144-172.	0.9	62
87	Daily sampling of PM2.5in Atlanta: Results of the first year of the Assessment of Spatial Aerosol Composition in Atlanta study. Journal of Geophysical Research, 2003, 108, SOS 3-1.	3.3	60
88	Chemical characterization and toxicity of particulate matter emissions from roadside trash combustion in urban India. Atmospheric Environment, 2016, 147, 22-30.	1.9	59
89	Roadside, Urban, and Rural Comparison of Primary and Secondary Organic Molecular Markers in Ambient PM_{2.5}. Environmental Science & Technology, 2009, 43, 4287-4293.	4.6	58
90	Meteorological detrending of primary and secondary pollutant concentrations: Method application and evaluation using long-term (2000â€“2012) data in Atlanta. Atmospheric Environment, 2015, 119, 201-210.	1.9	58

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91	Ambient Air Pollutant Measurement Error: Characterization and Impacts in a Time-Series Epidemiologic Study in Atlanta. Environmental Science & Technology, 2010, 44, 7692-7698.	4.6	56
92	Motorization of China implies changes in Pacific air chemistry and primary production. Geophysical Research Letters, 1997, 24, 2671-2674.	1.5	54
93	Air pollution and health: bridging the gap from sources to health outcomes: conference summary. Air Quality, Atmosphere and Health, 2012, 5, 9-62.	1.5	54
94	Using cell phone location to assess misclassification errors in air pollution exposure estimation. Environmental Pollution, 2018, 233, 261-266.	3.7	54
95	Simulation of Air Quality Impacts from Prescribed Fires on an Urban Area. Environmental Science & Technology, 2008, 42, 3676-3682.	4.6	53
96	Estimating Acute Cardiovascular Effects of Ambient PM2.5 Metals. Environmental Health Perspectives, 2018, 126, 027007.	2.8	53
97	Cross-comparison and evaluation of air pollution field estimation methods. Atmospheric Environment, 2018, 179, 49-60.	1.9	50
98	Comparison of PM2.5 source apportionment using positive matrix factorization and molecular marker-based chemical mass balance. Science of the Total Environment, 2008, 394, 290-302.	3.9	49
99	Estimating uncertainties and uncertainty contributors of CMB PM2.5 source apportionment results. Atmospheric Environment, 2007, 41, 9616-9624.	1.9	48
100	Factors affecting the direct mineralization of CO2 with olivine. Journal of Environmental Sciences, 2011, 23, 1233-1239.	3.2	48
101	Spatial, seasonal and diurnal patterns in physicochemical characteristics and sources of PM2.5 in both inland and coastal regions within a megacity in China. Journal of Hazardous Materials, 2018, 342, 139-149.	6.5	48
102	Bayesian-Based Ensemble Source Apportionment of PM_{2.5}. Environmental Science & Technology, 2013, 47, 13511-13518.	4.6	47
103	Measurement error in mobile source air pollution exposure estimates due to residential mobility during pregnancy. Journal of Exposure Science and Environmental Epidemiology, 2017, 27, 513-520.	1.8	47
104	Aerosols in an arid environment: The role of aerosol water content, particulate acidity, precursors, and relative humidity on secondary inorganic aerosols. Science of the Total Environment, 2019, 646, 564-572.	3.9	46
105	High-Resolution Data Sets Unravel the Effects of Sources and Meteorological Conditions on Nitrate and Its Gas-Particle Partitioning. Environmental Science & Technology, 2019, 53, 3048-3057.	4.6	46
106	Characterization and comparison of PM_{2.5} oxidative potential assessed by two acellular assays. Atmospheric Chemistry and Physics, 2020, 20, 5197-5210.	1.9	46
107	Long-term trends of primary and secondary pollutant concentrations in Switzerland and their response to emission controls and economic changes. Atmospheric Environment, 2001, 35, 1351-1363.	1.9	45
108	Ensemble-Trained PM_{2.5} Source Apportionment Approach for Health Studies. Environmental Science & Technology, 2009, 43, 7023-7031.	4.6	45

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109	Increased air pollution exposure among the Chinese population during the national quarantine in 2020. Nature Human Behaviour, 2021, 5, 239-246.	6.2	45
110	Environmental Particulate (PM2.5) Augments Stiffness-Induced Alveolar Epithelial Cell Mechanoactivation of Transforming Growth Factor Beta. PLoS ONE, 2014, 9, e106821.	1.1	44
111	Oxidative potential of PM 2.5 during Atlanta rush hour: Measurements of in-vehicle dithiothreitol (DTT) activity. Atmospheric Environment, 2017, 165, 169-178.	1.9	44
112	PM10 characterization and source apportionment at two residential areas in Bogota. Atmospheric Pollution Research, 2012, 3, 72-80.	1.8	43
113	Ensemble-trained source apportionment of fine particulate matter and method uncertainty analysis. Atmospheric Environment, 2012, 61, 387-394.	1.9	43
114	Synthesis of methanol from CO₂hydrogenation promoted by dissociative adsorption of hydrogen on a Ga₃Ni₅(221) surface. Physical Chemistry Chemical Physics, 2017, 19, 18539-18555.	1.3	43
115	Effects of Instrument Precision and Spatial Variability on the Assessment of the Temporal Variation of Ambient Air Pollution in Atlanta, Georgia. Journal of the Air and Waste Management Association, 2006, 56, 876-888.	0.9	42
116	Fine particulate matter source apportionment using a hybrid chemical transport and receptor model approach. Atmospheric Chemistry and Physics, 2014, 14, 5415-5431.	1.9	42
117	New approach for optimal electricity planning and dispatching with hourly time-scale air quality and health considerations. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 10884-10889.	3.3	42
118	Climate Change Adaptation Through Urban Heat Management in Atlanta, Georgia. Environmental Science & Technology, 2013, 47, 7780-7786.	4.6	41
119	A new mesoporous amine-TiO2 based pre-combustion CO2 capture technology. Applied Energy, 2015, 147, 214-223.	5.1	41
120	Estimation of emission adjustments from the application of four-dimensional data assimilation to photochemical air quality modeling. Atmospheric Environment, 2001, 35, 2879-2894.	1.9	40
121	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_{2.5} Exposure Fields in 2014â€“2017. Environmental Science & Technology, 2019, 53, 7306-7315.	4.6	40
122	A comparison of fast chemical kinetic solvers for air quality modeling. Atmospheric Environment Part A General Topics, 1992, 26, 1783-1789.	1.3	39
123	Comparison of SOC estimates and uncertainties from aerosol chemical composition and gas phase data in Atlanta. Atmospheric Environment, 2010, 44, 3907-3914.	1.9	39
124	Low-energy-consumption and environmentally friendly CO2 capture via blending alcohols into amine solution. Applied Energy, 2019, 254, 113696.	5.1	39
125	Novel Method for Ozone Isopleth Construction and Diagnosis for the Ozone Control Strategy of Chinese Cities. Environmental Science & Technology, 2021, 55, 15625-15636.	4.6	39
126	Mathematical modeling of the concentrations of volatile organic compounds: model performance using a lumped chemical mechanism. Environmental Science & Technology, 1993, 27, 1638-1649.	4.6	38

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127	Evaluation of Incremental Reactivity and Its Uncertainty in Southern California. Environmental Science & Technology, 2003, 37, 1598-1608.	4.6	38
128	Comparison of two thermal-optical methods for the determination of organic carbon and elemental carbon: Results from the southeastern United States. Atmospheric Environment, 2011, 45, 1913-1918.	1.9	38
129	Downscaling a global climate model to simulate climate change over the US and the implication on regional and urban air quality. Geoscientific Model Development, 2013, 6, 1429-1445.	1.3	38
130	Linked Response of Aerosol Acidity and Ammonia to SO₂ and NO_x Emissions Reductions in the United States. Environmental Science & Technology, 2018, 52, 9861-9873.	4.6	38
131	Sensitivities of Ozone and Fine Particulate Matter Formation to Emissions under the Impact of Potential Future Climate Change. Environmental Science & Technology, 2007, 41, 8355-8361.	4.6	37
132	CO2 hydrogenation to light olefins with high-performance Fe0.30Co0.15Zr0.45K0.10O1.63. Journal of Catalysis, 2019, 377, 224-232.	3.1	37
133	Use of Sensitivity Analysis to Compare Chemical Mechanisms for Air-Quality Modeling. Environmental Science & Technology, 1992, 26, 1179-1189.	4.6	36
134	Source Apportionment of Fine Particulate Matter in the Southeastern United States. Journal of the Air and Waste Management Association, 2007, 57, 1123-1135.	0.9	36
135	Development of PM_{2.5} source impact spatial fields using a hybrid source apportionment air quality model. Geoscientific Model Development, 2015, 8, 2153-2165.	1.3	36
136	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. Journal of Geophysical Research D: Atmospheres, 2019, 124, 9730-9742.	1.2	35
137	Air Quality Impacts from Prescribed Forest Fires under Different Management Practices. Environmental Science & Technology, 2008, 42, 2767-2772.	4.6	34
138	Computation-predicted, stable, and inexpensive single-atom nanocatalyst Pt@Mo₂C â€“ an important advanced material for H₂ production. Journal of Materials Chemistry A, 2017, 5, 14658-14672.	5.2	34
139	Mathematical modeling of the formation of nitrogen-containing pollutants. 2. Evaluation of the effect of emission controls. Environmental Science & Technology, 1988, 22, 1336-1347.	4.6	33
140	Iterative Inverse Modeling and Direct Sensitivity Analysis of a Photochemical Air Quality Model. Environmental Science & Technology, 2000, 34, 4974-4981.	4.6	33
141	Demographic Inequities in Health Outcomes and Air Pollution Exposure in the Atlanta Area and its Relationship to Urban Infrastructure. Journal of Urban Health, 2019, 96, 219-234.	1.8	33
142	Characterization of ambient air pollution measurement error in a time-series health study using a geostatistical simulation approach. Atmospheric Environment, 2012, 57, 101-108.	1.9	31
143	Ensemble-Based Source Apportionment of Fine Particulate Matter and Emergency Department Visits for Pediatric Asthma. American Journal of Epidemiology, 2015, 181, 504-512.	1.6	31
144	Calibrating R-LINE model results with observational data to develop annual mobile source air pollutant fields at fine spatial resolution: Application in Atlanta. Atmospheric Environment, 2016, 147, 446-457.	1.9	31

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145	Quantification of Individual VOC Reactivity Using a Chemically Detailed, Three-Dimensional Photochemical Model. Environmental Science & Technology, 1995, 29, 3029-3037.	4.6	30
146	Low-Molecular-Weight Carboxylic Acids in the Southeastern U.S.: Formation, Partitioning, and Implications for Organic Aerosol Aging. Environmental Science & Technology, 2021, 55, 6688-6699.	4.6	30
147	A multiscale finite element pollutant transport scheme for urban and regional modeling. Atmospheric Environment Part A General Topics, 1991, 25, 2385-2394.	1.3	29
148	An optimization model for photochemical air pollution control. European Journal of Operational Research, 1998, 106, 1-14.	3.5	29
149	Reaction Kinetics of CO₂ Carbonation with Mg-Rich Minerals. Journal of Physical Chemistry A, 2011, 115, 7638-7644.	1.1	28
150	New CO₂ Sorbent Synthesized with Nanoporous TiO(OH)₂ and K₂CO₃. Energy & Fuels, 2013, 27, 7628-7636.	2.5	28
151	Aerosol acidity and liquid water content regulate the dry deposition of inorganic reactive nitrogen. Atmospheric Chemistry and Physics, 2021, 21, 6023-6033.	1.9	28
152	Daily ambient air pollution metrics for five cities: Evaluation of data-fusion-based estimates and uncertainties. Atmospheric Environment, 2017, 158, 36-50.	1.9	27
153	Air quality modeling for accountability research: Operational, dynamic, and diagnostic evaluation. Atmospheric Environment, 2017, 166, 551-565.	1.9	27
154	Sensitivity of inverse estimation of 2004 elemental carbon emissions inventory in the United States to the choice of observational networks. Geophysical Research Letters, 2009, 36, .	1.5	26
155	Modeling secondary organic aerosol in CMAQ using multigenerational oxidation of semi-volatile organic compounds. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	26
156	Municipal solid waste and dung cake burning: discoloring the Taj Mahal and human health impacts in Agra. Environmental Research Letters, 2016, 11, 104009.	2.2	26
157	Intense Warming Will Significantly Increase Cropland Ammonia Volatilization Threatening Food Security and Ecosystem Health. One Earth, 2020, 3, 126-134.	3.6	26
158	The state of science on severe air pollution episodes: Quantitative and qualitative analysis. Environment International, 2021, 156, 106732.	4.8	26
159	Application of an Ensemble-Trained Source Apportionment Approach at a Site Impacted by Multiple Point Sources. Environmental Science & Technology, 2013, 47, 3743-3751.	4.6	25
160	Impacts of Potential CO₂-Reduction Policies on Air Quality in the United States. Environmental Science & Technology, 2015, 49, 5133-5141.	4.6	25
161	Burned Area Comparisons Between Prescribed Burning Permits in Southeastern United States and Two Satelliteâ€Derived Products. Journal of Geophysical Research D: Atmospheres, 2018, 123, 4746-4757.	1.2	25
162	Source apportionment for fine particulate matter in a Chinese city using an improved gas-constrained method and comparison with multiple receptor models. Environmental Pollution, 2018, 233, 1058-1067.	3.7	25

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163	The Impacts of Prescribed Fire on PM2.5 Air Quality and Human Health: Application to Asthma-Related Emergency Room Visits in Georgia, USA. International Journal of Environmental Research and Public Health, 2019, 16, 2312.	1.2	25
164	Detailed Analysis of Estimated pH, Activity Coefficients, and Ion Concentrations between the Three Aerosol Thermodynamic Models. Environmental Science & Technology, 2019, 53, 8903-8913.	4.6	25
165	Empirical Development of Ozone Isopleths: Applications to Los Angeles. Environmental Science and Technology Letters, 2019, 6, 294-299.	3.9	25
166	Satellite Monitoring for Air Quality and Health. Annual Review of Biomedical Data Science, 2021, 4, 417-447.	2.8	25
167	Control Strategy Optimization for Attainment and Exposure Mitigation: Case Study for Ozone in Macon, Georgia. Environmental Management, 2006, 38, 451-462.	1.2	24
168	Single-Source Impact Analysis Using Three-Dimensional Air Quality Models. Journal of the Air and Waste Management Association, 2008, 58, 1351-1359.	0.9	24
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