Armistead G Russell

List of Publications by Year
in descending order

296 papers	19,132 citations	11908 72 h-index	18944 123 g-index
326 all docs	326 docs citations	326 times ranked	18497 citing authors

#	Article	IF	Citations
1	A data framework for assessing social inequality and equity in multiâ€sector social, ecological, infrastructural urban systems: Focus on fineâ€spatial scales. Journal of Industrial Ecology, 2022, 26, 145-163.	2.8	10
2	The Oxidative Potential of Fine Particulate Matter and Biological Perturbations in Human Plasma and Saliva Metabolome. Environmental Science & Technology, 2022, 56, 7350-7361.	4.6	14
3	Emissions, chemistry or bidirectional surface transfer? Gas phase formic acid dynamics in the atmosphere. Atmospheric Environment, 2022, 274, 118995.	1.9	5
4	Using land use variable information and a random forest approach to correct spatial mean bias in fused CMAQ fields for particulate and gas species. Atmospheric Environment, 2022, 274, 118982.	1.9	5
5	Global Emissions of Hydrogen Chloride and Particulate Chloride from Continental Sources. Environmental Science & Technology, 2022, 56, 3894-3904.	4.6	15
6	Application of an improved gas-constrained source apportionment method using data fused fields: A case study in North Carolina, USA. Atmospheric Environment, 2022, 276, 119031.	1.9	2
7	Neighborhood characteristics as confounders and effect modifiers for the association between air pollution exposure and subjective cognitive functioning. Environmental Research, 2022, 212, 113221.	3.7	10
8	Assessment of Airport-Related Emissions and Their Impact on Air Quality in Atlanta, GA, Using CMAQ and TROPOMI. Environmental Science & Technology, 2022, 56, 98-108.	4.6	7
9	Evaluation of the Use of Saliva Metabolome as a Surrogate of Blood Metabolome in Assessing Internal Exposures to Traffic-Related Air Pollution. Environmental Science & Technology, 2022, 56, 6525-6536.	4.6	10
10	Implications for ozone control by understanding the survivor bias in observed ozone-volatile organic compounds system. Npj Climate and Atmospheric Science, 2022, 5, .	2.6	21
11	Impact of Circular, Waste-Heat Reuse Pathways on PM_{2.5}-Air Quality, CO₂ Emissions, and Human Health in India: Comparison with Material Exchange Potential. Environmental Science & Technology, 2022, 56, 9773-9783.	4.6	3
12	Source apportionment of ozone and fine particulate matter in the United States for 2016 and 2028. Atmospheric Environment, 2022, 285, 119226.	1.9	6
13	Targeting Atmospheric Oxidants Can Better Reduce Sulfate Aerosol in China: H₂O₂ Aqueous Oxidation Pathway Dominates Sulfate Formation in Haze. Environmental Science & Technology, 2022, 56, 10608-10618.	4.6	23
14	Evaluating oil and gas contributions to ambient nonmethane hydrocarbon mixing ratios and ozone-related metrics in the Colorado Front Range. Atmospheric Environment, 2021, 246, 118113.	1.9	6
15	Individual and population level protection from particulate matter exposure by wearing facemasks. Environment International, 2021, 146, 106026.	4.8	20
16	Increased air pollution exposure among the Chinese population during the national quarantine in 2020. Nature Human Behaviour, 2021, 5, 239-246.	6.2	45
17	Four Decades of United States Mobile Source Pollutants: Spatialâ€“Temporal Trends Assessed by Ground-Based Monitors, Air Quality Models, and Satellites. Environmental Science & Technology, 2021, 55, 882-892.	4.6	17
18	High-resolution hybrid inversion of IASI ammonia columns to constrain US ammonia emissions using the CMAQ adjoint model. Atmospheric Chemistry and Physics, 2021, 21, 2067-2082.	1.9	22

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19	Orthogonalization and machine learning methods for residential energy estimation with social and economic indicators. Applied Energy, 2021, 283, 116114.	5.1	5
20	Estimating US Background Ozone Using Data Fusion. Environmental Science & Technology, 2021, 55, 4504-4512.	4.6	5
21	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
22	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
23	Determining the Role of Acidity, Fate and Formation of IEPOX-Derived SOA in CMAQ. Atmosphere, 2021, 12, 707.	1.0	5
24	Significant contrasts in aerosol acidity between China and the United States. Atmospheric Chemistry and Physics, 2021, 21, 8341-8356.	1.9	13
25	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. Journal of the Air and Waste Management Association, 2021, 71, 815-829.	0.9	5
26	Satellite Monitoring for Air Quality and Health. Annual Review of Biomedical Data Science, 2021, 4, 417-447.	2.8	25
27	The Oxidative Potential of Fine Particulate Matter and Metabolic Perturbations in Plasma and Saliva. ISEE Conference Abstracts, 2021, 2021, .	0.0	0
28	The state of science on severe air pollution episodes: Quantitative and qualitative analysis. Environment International, 2021, 156, 106732.	4.8	26
29	The response of streams in the Adirondack region of New York to projected changes in sulfur and nitrogen deposition under changing climate. Science of the Total Environment, 2021, 800, 149626.	3.9	6
30	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
31	Impact of Formation Pathways on Secondary Inorganic Aerosol During Haze Pollution in Beijing: Quantitative Evidence From Highâ€Resolution Observation and Modeling. Geophysical Research Letters, 2021, 48, .	1.5	9
32	Toward enhanced CO2 adsorption on bimodal calcium-based materials with porous truncated architectures. Applied Surface Science, 2020, 505, 144512.	3.1	20
33	Electrochemical ammonia synthesis catalyzed with a CoFe layered double hydroxide â€“ A new initiative in clean fuel synthesis. Journal of Cleaner Production, 2020, 250, 119525.	4.6	20
34	High-performance of nanostructured Ni/CeO2 catalyst on CO2 methanation. Applied Catalysis B: Environmental, 2020, 268, 118474.	10.8	226
35	Intense Warming Will Significantly Increase Cropland Ammonia Volatilization Threatening Food Security and Ecosystem Health. One Earth, 2020, 3, 126-134.	3.6	26
36	Unveiling the critical role of p-d hybridization interaction in M13â^'nGan clusters on CO2 adsorption. Fuel, 2020, 280, 118446.	3.4	9

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37	Near-road vehicle emissions air quality monitoring for exposure modeling. Atmospheric Environment, 2020, 224, 117318.	1.9	20
38	Greater Contribution From Agricultural Sources to Future Reactive Nitrogen Deposition in the United States. Earth's Future, 2020, 8, e2019EF001453.	2.4	3
39	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
40	Using High-Temporal-Resolution Ambient Data to Investigate Gas-Particle Partitioning of Ammonium over Different Seasons. Environmental Science & Technology, 2020, 54, 9834-9843.	4.6	10
41	Temporal changes in short-term associations between cardiorespiratory emergency department visits and PM2.5 in Los Angeles, 2005 to 2016. Environmental Research, 2020, 190, 109967.	3.7	16
42	Fine Particle Iron in Soils and Road Dust Is Modulated by Coal-Fired Power Plant Sulfur. Environmental Science & Technology, 2020, 54, 7088-7096.	4.6	17
43	Connecting Air Quality with Emotional Well-Being and Neighborhood Infrastructure in a US City. Environmental Health Insights, 2020, 14, 117863022091548.	0.6	12
44	Assessment of the Near-Road (monitoring) Network including comparison with nearby monitors within U.S. cities. Environmental Research Letters, 2020, 15, 114026.	2.2	13
45	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
46	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
47	Characterization of water-insoluble oxidative potential of PM2.5 using the dithiothreitol assay. Atmospheric Environment, 2020, 224, 117327.	1.9	63
48	Apportioning prescribed fire impacts on PM2.5 among individual fires through dispersion modeling. Atmospheric Environment, 2020, 223, 117260.	1.9	7
49	Evaluating a multipollutant metric for use in characterizing traffic-related air pollution exposures within near-road environments. Environmental Research, 2020, 184, 109389.	3.7	10
50	Accelerated epigenetic age as a biomarker of cardiovascular sensitivity to traffic-related air pollution. Aging, 2020, 12, 24141-24155.	1.4	18
51	A multiphase CMAQ version 5.0 adjoint. Geoscientific Model Development, 2020, 13, 2925-2944.	1.3	15
52	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
53	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
54	CO2 hydrogenation to light olefins with high-performance Fe0.30Co0.15Zr0.45K0.10O1.63. Journal of Catalysis, 2019, 377, 224-232.	3.1	37

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55	Current and Future Responses of Aerosol pH and Composition in the U.S. to Declining SO₂ Emissions and Increasing NH₃ Emissions. Environmental Science & Technology, 2019, 53, 9646-9655.	4.6	16
56	Low-energy-consumption and environmentally friendly CO2 capture via blending alcohols into amine solution. Applied Energy, 2019, 254, 113696.	5.1	39
57	Global Fire Forecasts Using Both Largeâ€Scale Climate Indices and Local Meteorological Parameters. Global Biogeochemical Cycles, 2019, 33, 1129-1145.	1.9	17
58	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
59	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
60	Development of a WebGIS-Based Analysis Tool for Human Health Protection from the Impacts of Prescribed Fire Smoke in Southeastern USA. International Journal of Environmental Research and Public Health, 2019, 16, 1981.	1.2	8
61	Relaxing Energy Policies Coupled with Climate Change Will Significantly Undermine Efforts to Attain US Ozone Standards. One Earth, 2019, 1, 229-239.	3.6	13
62	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 2005â€“2014. International Journal of Environmental Research and Public Health, 2019, 16, 3314.	1.2	17
63	On the accuracy and potential of Google Maps location history data to characterize individual mobility for air pollution health studies. Environmental Pollution, 2019, 252, 924-930.	3.7	21
64	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
65	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
66	Characterization of Spatial Air Pollution Patterns Near a Large Railyard Area in Atlanta, Georgia. International Journal of Environmental Research and Public Health, 2019, 16, 535.	1.2	15
67	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
68	Impact of air pollution control policies on cardiorespiratory emergency department visits, Atlanta, GA, 1999â€“2013. Environment International, 2019, 126, 627-634.	4.8	13
69	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. Environment International, 2019, 123, 522-534.	4.8	12
70	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
71	Empirical Development of Ozone Isopleths: Applications to Los Angeles. Environmental Science and Technology Letters, 2019, 6, 294-299.	3.9	25
72	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

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73	Elucidating emissions control strategies for ozone to protect human health and public welfare within the continental United States. Environmental Research Letters, 2019, 14, 124093.	2.2	5
74	Source-Apportioned PM2.5 and Cardiorespiratory Emergency Department Visits. Epidemiology, 2019, 30, 789-798.	1.2	18
75	CO2 hydrogenation to high-value products via heterogeneous catalysis. Nature Communications, 2019, 10, 5698.	5.8	571
76	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
77	Monitoring particulate matter in India: recent trends and future outlook. Air Quality, Atmosphere and Health, 2019, 12, 45-58.	1.5	93
78	Drought Impacts on Secondary Organic Aerosol: A Case Study in the Southeast United States. Environmental Science & Technology, 2019, 53, 242-250.	4.6	3
79	Spatial PM_{2.5}mobile source impacts using a calibrated indicator method. Journal of the Air and Waste Management Association, 2019, 69, 402-414.	0.9	2
80	Air pollutant exposure field modeling using air quality model-data fusion methods and comparison with satellite AOD-derived fields: application over North Carolina, USA. Air Quality, Atmosphere and Health, 2018, 11, 11-22.	1.5	22
81	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
82	Modeling biogenic secondary organic aerosol (BSOA) formation from monoterpene reactions with NO3: A case study of the SOAS campaign using CMAQ. Atmospheric Environment, 2018, 184, 146-155.	1.9	21
83	Cross-comparison and evaluation of air pollution field estimation methods. Atmospheric Environment, 2018, 179, 49-60.	1.9	50
84	Impacts of rural worker migration on ambient air quality and health in China: From the perspective of upgrading residential energy consumption. Environment International, 2018, 113, 290-299.	4.8	19
85	Source-specific pollution exposure and associations with pulmonary response in the Atlanta Commuters Exposure Studies. Journal of Exposure Science and Environmental Epidemiology, 2018, 28, 337-347.	1.8	16
86	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. Applied Catalysis B: Environmental, 2018, 232, 348-354.	10.8	21
87	Associations of mobile source air pollution during the first year of life with childhood pneumonia, bronchiolitis, and otitis media. Environmental Epidemiology, 2018, 2, e007.	1.4	16
88	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
89	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
90	Using cell phone location to assess misclassification errors in air pollution exposure estimation. Environmental Pollution, 2018, 233, 261-266.	3.7	54

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91	Understanding nitrate formation in a world with less sulfate. Atmospheric Chemistry and Physics, 2018, 18, 12765-12775.	1.9	63
92	Estimating Acute Cardiovascular Effects of Ambient PM2.5 Metals. Environmental Health Perspectives, 2018, 126, 027007.	2.8	53
93	Simulating Biogenic Secondary Organic Aerosol During Summertime in China. Journal of Geophysical Research D: Atmospheres, 2018, 123, 11,100.	1.2	11
94	Source impact modeling of spatiotemporal trends in PM2.5 oxidative potential across the eastern United States. Atmospheric Environment, 2018, 193, 158-167.	1.9	21
95	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
96	Forecasting the Impacts of Prescribed Fires for Dynamic Air Quality Management. Atmosphere, 2018, 9, 220.	1.0	9
97	Catalyst-TiO(OH)2 could drastically reduce the energy consumption of CO2 capture. Nature Communications, 2018, 9, 2672.	5.8	122
98	Errors associated with the use of roadside monitoring in the estimation of acute traffic pollutant-related health effects. Environmental Research, 2018, 165, 210-219.	3.7	21
99	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
100	First-principles and experimental studies of [ZrO(OH)]⁺ or ZrO(OH)₂ for enhancing CO₂ desorption kinetics â€“ imperative for significant reduction of CO₂ capture energy consumption. Journal of Materials Chemistry A, 2018, 6, 17671-17681.	5.2	13
101	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
102	Application and evaluation of two model fusion approaches to obtain ambient air pollutant concentrations at a fine spatial resolution (250m) in Atlanta. Environmental Modelling and Software, 2018, 109, 182-190.	1.9	16
103	Scientific assessment of background ozone over the U.S.: Implications for air quality management. Elementa, 2018, 6, 56.	1.1	80
104	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
105	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
106	A New Combined Stepwise-Based High-Order Decoupled Direct and Reduced-Form Method To Improve Uncertainty Analysis in PM2.5 Simulations. Environmental Science & Technology, 2017, 51, 3852-3859.	4.6	12
107	Spatial and temporal source apportionment of PM 2.5 in Georgia, 2002 to 2013. Atmospheric Environment, 2017, 161, 112-121.	1.9	17
108	TiO(OH)2 â€“ highly effective catalysts for optimizing CO2 desorption kinetics reducing CO2 capture cost: A new pathway. Scientific Reports, 2017, 7, 2943.	1.6	21

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109	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
110	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
111	pH of Aerosols in a Polluted Atmosphere: Source Contributions to Highly Acidic Aerosol. Environmental Science & Technology, 2017, 51, 4289-4296.	4.6	147
112	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
113	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
114	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
115	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
116	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
117	Urban cross-sector actions for carbon mitigation with local health co-benefits in China. Nature Climate Change, 2017, 7, 736-742.	8.1	102
118	Air quality modeling for accountability research: Operational, dynamic, and diagnostic evaluation. Atmospheric Environment, 2017, 166, 551-565.	1.9	27
119	Fine particulate matter and cardiovascular disease: Comparison of assessment methods for long-term exposure. Environmental Research, 2017, 159, 16-23.	3.7	63
120	Responses in Ozone and Its Production Efficiency Attributable to Recent and Future Emissions Changes in the Eastern United States. Environmental Science & Technology, 2017, 51, 13797-13805.	4.6	16
121	Development of PM_{2.5} Source Profiles Using a Hybrid Chemical Transport-Receptor Modeling Approach. Environmental Science & Technology, 2017, 51, 13788-13796.	4.6	20
122	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
123	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
124	Accountability assessment of regulatory impacts on ozone and PM2.5 concentrations using statistical and deterministic pollutant sensitivities. Air Quality, Atmosphere and Health, 2017, 10, 695-711.	1.5	15
125	Size distribution, directional source contributions and pollution status of PM from Chengdu, China during a long-term sampling campaign. Journal of Environmental Sciences, 2017, 56, 1-11.	3.2	14
126	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

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127	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
128	Associations between Ambient Fine Particulate Oxidative Potential and Cardiorespiratory Emergency Department Visits. Environmental Health Perspectives, 2017, 125, 107008.	2.8	96
129	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
130	Meta-principles for developing smart, sustainable, and healthy cities. Science, 2016, 352, 940-943.	6.0	267
131	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
132	A method for quantifying bias in modeled concentrations and source impacts for secondary particulate matter. Frontiers of Environmental Science and Engineering, 2016, 10, 1.	3.3	12
133	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
134	Quantification of long-term primary and secondary source contributions to carbonaceous aerosols. Environmental Pollution, 2016, 219, 897-905.	3.7	23
135	Chemical characterization and toxicity of particulate matter emissions from roadside trash combustion in urban India. Atmospheric Environment, 2016, 147, 22-30.	1.9	59
136	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
137	Air pollution complex: Understanding the sources, formation processes and health effects. Frontiers of Environmental Science and Engineering, 2016, 10, 1.	3.3	3
138	Composition and oxidation state of sulfur in atmospheric particulate matter. Atmospheric Chemistry and Physics, 2016, 16, 13389-13398.	1.9	16
139	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
140	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
141	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
142	High aerosol acidity despite declining atmospheric sulfate concentrations over the past 15 years. Nature Geoscience, 2016, 9, 282-285.	5.4	327
143	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
144	Estimating the Impact of Air Pollution Controls on Ambient Concentrations. Springer Proceedings in Complexity, 2016, , 141-146.	0.2	1

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145	Chemical transport model consistency in simulating regulatory outcomes and the relationship to model performance. Atmospheric Environment, 2015, 116, 159-171.	1.9	13
146	Premature deaths attributed to source-specific BC emissions in six urban US regions. Environmental Research Letters, 2015, 10, 114014.	2.2	14
147	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
148	Operational forecasting of source impacts for dynamic air quality management. Atmospheric Environment, 2015, 116, 320-322.	1.9	7
149	Amine-Based CO₂ Capture Technology Development from the Beginning of 2013â€"A Review. ACS Applied Materials & Interfaces, 2015, 7, 2137-2148.	4.0	686
150	Air quality impacts and health-benefit valuation of a low-emission technology for rail yard locomotives in Atlanta Georgia. Science of the Total Environment, 2015, 533, 156-164.	3.9	14
151	A new mesoporous amine-TiO2 based pre-combustion CO2 capture technology. Applied Energy, 2015, 147, 214-223.	5.1	41
152	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
153	Fire emission uncertainties and their effect on smoke dispersion predictions: a case study at Eglin Air Force Base, Florida, USA. International Journal of Wildland Fire, 2015, 24, 276.	1.0	11
154	Differences Between Magnitudes and Health Impacts of BC Emissions Across the United States Using 12 km Scale Seasonal Source Apportionment. Environmental Science & Technology, 2015, 49, 4362-4371.	4.6	20
155	Regional Air Quality Management Aspects of Climate Change: Impact of Climate Mitigation Options on Regional Air Emissions. Environmental Science & Technology, 2015, 49, 5170-5177.	4.6	17
156	Abatement of SO2â€"NOx binary gas mixtures using a ferruginous active absorbent: Part I. Synergistic effects and mechanism. Journal of Environmental Sciences, 2015, 30, 55-64.	3.2	11
157	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
158	Impacts of Potential CO₂-Reduction Policies on Air Quality in the United States. Environmental Science & Technology, 2015, 49, 5133-5141.	4.6	25
159	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
160	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
161	Reactive Oxygen Species Generation Linked to Sources of Atmospheric Particulate Matter and Cardiorespiratory Effects. Environmental Science & Technology, 2015, 49, 13605-13612.	4.6	258
162	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

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163	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
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