

# Armistead G Russell

## List of Publications by Citations

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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	Review of recent advances in carbon dioxide separation and capture. <i>RSC Advances</i> , <b>2013</b> , 3, 22739	3.7	521
293	Amine-based CO <sub>2</sub> capture technology development from the beginning of 2013-a review. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 2137-48	9.5	501
292	PM and light extinction model performance metrics, goals, and criteria for three-dimensional air quality models. <i>Atmospheric Environment</i> , <b>2006</b> , 40, 4946-4959	5.3	485
291	A study of secondary organic aerosol formation in the anthropogenic-influenced southeastern United States. <i>Journal of Geophysical Research</i> , <b>2007</b> , 112,		446
290	NARSTO critical review of photochemical models and modeling. <i>Atmospheric Environment</i> , <b>2000</b> , 34, 2283-3324, 353		
289	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
288	"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
287	CO hydrogenation to high-value products via heterogeneous catalysis. <i>Nature Communications</i> , <b>2019</b> , 10, 5698	17.4	226
286	Nonlinear response of ozone to emissions: source apportionment and sensitivity analysis. <i>Environmental Science &amp; Technology</i> , <b>2005</b> , 39, 6739-48	10.3	225
285	Fine particle sources and cardiorespiratory morbidity: an application of chemical mass balance and factor analytical source-apportionment methods. <i>Environmental Health Perspectives</i> , <b>2008</b> , 116, 459-66	8.4	210
284	Emission factors of particulate matter and elemental carbon for crop residues and coals burned in typical household stoves in China. <i>Environmental Science &amp; Technology</i> , <b>2010</b> , 44, 7157-62	10.3	197
283	Photochemical modeling of the Southern California air quality study. <i>Environmental Science &amp; Technology</i> , <b>1993</b> , 27, 378-388	10.3	187
282	Meta-principles for developing smart, sustainable, and healthy cities. <i>Science</i> , <b>2016</b> , 352, 940-3	33.3	186
281	Reactive Oxygen Species Generation Linked to Sources of Atmospheric Particulate Matter and Cardiorespiratory Effects. <i>Environmental Science &amp; Technology</i> , <b>2015</b> , 49, 13605-12	10.3	185
280	Gaseous and particulate emissions from prescribed burning in Georgia. <i>Environmental Science &amp; Technology</i> , <b>2005</b> , 39, 9049-56	10.3	183
279	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
278	Organic aerosols associated with the generation of reactive oxygen species (ROS) by water-soluble PM <sub>2.5</sub> . <i>Environmental Science &amp; Technology</i> , <b>2015</b> , 49, 4646-56	10.3	177

277	Mesoporous amine-modified SiO <sub>2</sub> aerogel: a potential CO <sub>2</sub> sorbent. <i>Energy and Environmental Science</i> , <b>2011</b> , 4, 2070	35.4	176
276	Emissions of PAHs from indoor crop residue burning in a typical rural stove: emission factors, size distributions, and gas-particle partitioning. <i>Environmental Science &amp; Technology</i> , <b>2011</b> , 45, 1206-12	10.3	174
275	Reactive oxygen species associated with water-soluble PM <sub>2.5</sub> in the southeastern United States: spatiotemporal trends and source apportionment. <i>Atmospheric Chemistry and Physics</i> , <b>2014</b> , 14, 12915-12930	6.8	166
274	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
273	Impacts of global climate change and emissions on regional ozone and fine particulate matter concentrations over the United States. <i>Journal of Geophysical Research</i> , <b>2007</b> , 112,		159
272	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
271	A focus on particulate matter and health. <i>Environmental Science &amp; Technology</i> , <b>2009</b> , 43, 4620-5	10.3	149
270	Airport related emissions and impacts on air quality: Application to the Atlanta International Airport. <i>Atmospheric Environment</i> , <b>2005</b> , 39, 5787-5798	5.3	143
269	High-order, direct sensitivity analysis of multidimensional air quality models. <i>Environmental Science &amp; Technology</i> , <b>2003</b> , 37, 2442-52	10.3	142
268	Potential impact of climate change on air pollution-related human health effects. <i>Environmental Science &amp; Technology</i> , <b>2009</b> , 43, 4979-88	10.3	140
267	Fast, Direct Sensitivity Analysis of Multidimensional Photochemical Models. <i>Environmental Science &amp; Technology</i> , <b>1997</b> , 31, 2859-2868	10.3	140
266	Speciation of ambient fine organic carbon particles and source apportionment of PM <sub>2.5</sub> in Indian cities. <i>Journal of Geophysical Research</i> , <b>2007</b> , 112,		139
265	Source apportionment of PM <sub>2.5</sub> : Comparing PMF and CMB results for four ambient monitoring sites in the southeastern United States. <i>Atmospheric Environment</i> , <b>2008</b> , 42, 4126-4137	5.3	130
264	Spatial and seasonal trends in biogenic secondary organic aerosol tracers and water-soluble organic carbon in the southeastern United States. <i>Environmental Science &amp; Technology</i> , <b>2008</b> , 42, 5171-6	10.3	125
263	A new approach to photochemical pollution control: implications of spatial patterns in pollutant responses to reductions in nitrogen oxides and reactive organic gas emissions. <i>Environmental Science &amp; Technology</i> , <b>1989</b> , 23, 1290-1301	10.3	125
262	Impact of exposure measurement error in air pollution epidemiology: effect of error type in time-series studies. <i>Environmental Health</i> , <b>2011</b> , 10, 61	6	122
261	Particulate matter components, sources, and health: Systematic approaches to testing effects. <i>Journal of the Air and Waste Management Association</i> , <b>2015</b> , 65, 544-58	2.4	117
260	Avoided heat-related mortality through climate adaptation strategies in three US cities. <i>PLoS ONE</i> , <b>2014</b> , 9, e100852	3.7	111

259	Atmospheric aerosol over two urban/rural pairs in the southeastern United States: Chemical composition and possible sources. <i>Atmospheric Environment</i> , <b>2005</b> , 39, 4453-4470	5.3	104
258	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
257	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
256	An examination of exposure measurement error from air pollutant spatial variability in time-series studies. <i>Journal of Exposure Science and Environmental Epidemiology</i> , <b>2010</b> , 20, 135-46	6.7	101
255	Improving the Accuracy of Daily PM <sub>2.5</sub> Distributions Derived from the Fusion of Ground-Level Measurements with Aerosol Optical Depth Observations, a Case Study in North China. <i>Environmental Science &amp; Technology</i> , <b>2016</b> , 50, 4752-9	10.3	100
254	Emission of oxygenated polycyclic aromatic hydrocarbons from indoor solid fuel combustion. <i>Environmental Science &amp; Technology</i> , <b>2011</b> , 45, 3459-65	10.3	93
253	Source apportionment of fine particulate matter during autumn haze episodes in Shanghai, China. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2014</b> , 119, 1903-1914	4.4	90
252	Mathematical modeling of the formation of nitrogen-containing air pollutants. 1. Evaluation of an Eulerian photochemical model. <i>Environmental Science &amp; Technology</i> , <b>1988</b> , 22, 263-71	10.3	89
251	Optimization-based source apportionment of PM <sub>2.5</sub> incorporating gas-to-particle ratios. <i>Environmental Science &amp; Technology</i> , <b>2005</b> , 39, 3245-54	10.3	88
250	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
249	Revising the use of potassium (K) in the source apportionment of PM <sub>2.5</sub> . <i>Atmospheric Pollution Research</i> , <b>2013</b> , 4, 14-21	4.5	83
248	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
247	Source apportionment of daily fine particulate matter at Jefferson Street, Atlanta, GA, during summer and winter. <i>Journal of the Air and Waste Management Association</i> , <b>2007</b> , 57, 228-42	2.4	80
246	Fractionating ambient humic-like substances (HULIS) for their reactive oxygen species activity □ Assessing the importance of quinones and atmospheric aging. <i>Atmospheric Environment</i> , <b>2015</b> , 120, 351-359	5.3	77
245	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
244	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
243	Source apportionment of PM <sub>2.5</sub> in the southeastern United States using receptor and emissions-based models: Conceptual differences and implications for time-series health studies. <i>Atmospheric Environment</i> , <b>2006</b> , 40, 2533-2551	5.3	74
242	Source apportionment and heavy metal health risk (HMHR) quantification from sources in a southern city in China, using an ME <sub>2</sub> -HMHR model. <i>Environmental Pollution</i> , <b>2017</b> , 221, 335-342	9.3	72

241	Catalyst-TiO(OH) could drastically reduce the energy consumption of CO capture. <i>Nature Communications</i> , <b>2018</b> , 9, 2672	17.4	71
240	Temporal and spatial distributions of ozone in Atlanta: regulatory and epidemiologic implications. <i>Journal of the Air and Waste Management Association</i> , <b>1998</b> , 48, 418-26	2.4	70
239	Modified nanosepiolite as an inexpensive support of tetraethylenepentamine for CO2 sorption. <i>Nano Energy</i> , <b>2015</b> , 11, 235-246	17.1	69
238	On some aspects of nighttime atmospheric chemistry. <i>Environmental Science &amp; Technology</i> , <b>1986</b> , 20, 1167-1172	10.3	68
237	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
236	Assessment of biomass burning emissions and their impacts on urban and regional PM2.5: a Georgia case study. <i>Environmental Science &amp; Technology</i> , <b>2009</b> , 43, 299-305	10.3	66
235	Nonlinearity in atmospheric response: A direct sensitivity analysis approach. <i>Journal of Geophysical Research</i> , <b>2004</b> , 109,		66
234	Mathematical modeling and control of the dry deposition flux of nitrogen-containing air pollutants. <i>Environmental Science &amp; Technology</i> , <b>1993</b> , 27, 2772-2782	10.3	66
233	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
232	Spatial distribution of carbonaceous aerosol in the southeastern United States using molecular markers and carbon isotope data. <i>Journal of Geophysical Research</i> , <b>2006</b> , 111, n/a-n/a		62
231	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
230	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
229	Impact of nitrogen and climate change interactions on ambient air pollution and human health. <i>Biogeochemistry</i> , <b>2013</b> , 114, 121-134	3.8	61
228	Diagnosis of aged prescribed burning plumes impacting an urban area. <i>Environmental Science &amp; Technology</i> , <b>2008</b> , 42, 1438-44	10.3	61
227	Joint effects of ambient air pollutants on pediatric asthma emergency department visits in Atlanta, 1998-2004. <i>Epidemiology</i> , <b>2014</b> , 25, 666-73	3.1	60
226	Air quality measurements for the aerosol research and inhalation epidemiology study. <i>Journal of the Air and Waste Management Association</i> , <b>2006</b> , 56, 1445-58	2.4	59
225	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
224	C2 Oxygenate Synthesis via Fischer-Tropsch Synthesis on Co2C and Co/Co2C 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

223	Daily sampling of PM <sub>2.5</sub> in Atlanta: Results of the first year of the Assessment of Spatial Aerosol Composition in Atlanta study. <i>Journal of Geophysical Research</i> , <b>2003</b> , 108, SOS 3-1		56
222	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	6.8	55
221	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
220	REGIONAL ATMOSPHERIC POLLUTION AND TRANSBOUNDARY AIR QUALITY MANAGEMENT. <i>Annual Review of Environment and Resources</i> , <b>2005</b> , 30, 1-37	17.2	54
219	Controlled Wind Tunnel Experiments for Particle Bounceoff and Resuspension. <i>Aerosol Science and Technology</i> , <b>1992</b> , 17, 245-262	3.4	54
218	Characterizing the Spatial and Temporal Patterns of Open Burning of Municipal Solid Waste (MSW) in Indian Cities. <i>Environmental Science &amp; Technology</i> , <b>2015</b> , 49, 12904-12	10.3	53
217	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
216	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
215	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
214	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
213	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
212	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
211	Ambient air pollutant measurement error: characterization and impacts in a time-series epidemiologic study in Atlanta. <i>Environmental Science &amp; Technology</i> , <b>2010</b> , 44, 7692-8	10.3	48
210	Roadside, urban, and rural comparison of primary and secondary organic molecular markers in ambient PM <sub>2.5</sub> . <i>Environmental Science &amp; Technology</i> , <b>2009</b> , 43, 4287-93	10.3	48
209	The social and spatial distribution of temperature-related health impacts from urban heat island reduction policies. <i>Environmental Science and Policy</i> , <b>2016</b> , 66, 366-374	6.2	48
208	Simulation of air quality impacts from prescribed fires on an urban area. <i>Environmental Science &amp; Technology</i> , <b>2008</b> , 42, 3676-82	10.3	45
207	Understanding nitrate formation in a world with less sulfate. <i>Atmospheric Chemistry and Physics</i> , <b>2018</b> , 18, 12765-12775	6.8	45
206	Air pollution and health: bridging the gap from sources to health outcomes: conference summary. <i>Air Quality, Atmosphere and Health</i> , <b>2012</b> , 5, 9-62	5.6	44

205	Motorization of China implies changes in Pacific air chemistry and primary production. <i>Geophysical Research Letters</i> , <b>1997</b> , 24, 2671-2674	4.9	43
204	Estimating uncertainties and uncertainty contributors of CMB PM2.5 source apportionment results. <i>Atmospheric Environment</i> , <b>2007</b> , 41, 9616-9624	5.3	43
203	Bayesian-based ensemble source apportionment of PM2.5. <i>Environmental Science &amp; Technology</i> , <b>2013</b> , 47, 13511-8	10.3	42
202	Ensemble-trained source apportionment of fine particulate matter and method uncertainty analysis. <i>Atmospheric Environment</i> , <b>2012</b> , 61, 387-394	5.3	41
201	Ensemble-trained PM2.5 source apportionment approach for health studies. <i>Environmental Science &amp; Technology</i> , <b>2009</b> , 43, 7023-31	10.3	41
200	Comparison of PM2.5 source apportionment using positive matrix factorization and molecular marker-based chemical mass balance. <i>Science of the Total Environment</i> , <b>2008</b> , 394, 290-302	10.2	41
199	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
198	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
197	Long-term trends of primary and secondary pollutant concentrations in Switzerland and their response to emission controls and economic changes. <i>Atmospheric Environment</i> , <b>2001</b> , 35, 1351-1363	5.3	39
196	Fine particulate matter source apportionment using a hybrid chemical transport and receptor model approach. <i>Atmospheric Chemistry and Physics</i> , <b>2014</b> , 14, 5415-5431	6.8	38
195	Meteorological detrending of primary and secondary pollutant concentrations: Method application and evaluation using long-term (2000-2012) data in Atlanta. <i>Atmospheric Environment</i> , <b>2015</b> , 119, 201-210	5.3	37
194	Effects of instrument precision and spatial variability on the assessment of the temporal variation of ambient air pollution in Atlanta, Georgia. <i>Journal of the Air and Waste Management Association</i> , <b>2006</b> , 56, 876-88	2.4	37
193	Factors affecting the direct mineralization of CO2 with olivine. <i>Journal of Environmental Sciences</i> , <b>2011</b> , 23, 1233-9	6.4	36
192	PM10 characterization and source apportionment at two residential areas in Bogota. <i>Atmospheric Pollution Research</i> , <b>2012</b> , 3, 72-80	4.5	36
191	Estimation of emission adjustments from the application of four-dimensional data assimilation to photochemical air quality modeling. <i>Atmospheric Environment</i> , <b>2001</b> , 35, 2879-2894	5.3	36
190	Mathematical modeling of the concentrations of volatile organic compounds: model performance using a lumped chemical mechanism. <i>Environmental Science &amp; Technology</i> , <b>1993</b> , 27, 1638-1649	10.3	36
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	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	12.8	35

187	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
186	Air Pollutant Correlations in China: Secondary Air Pollutant Responses to NO <sub>x</sub> and SO <sub>2</sub> Control. <i>Environmental Science and Technology Letters</i> , <b>2020</b> , 7, 695-700	11	35
185	Cross-comparison and evaluation of air pollution field estimation methods. <i>Atmospheric Environment</i> , <b>2018</b> , 179, 49-60	5:3	34
184	Use of Sensitivity Analysis to Compare Chemical Mechanisms for Air-Quality Modeling. <i>Environmental Science &amp; Technology</i> , <b>1992</b> , 26, 1179-1189	10:3	34
183	Evaluation of incremental reactivity and its uncertainty in Southern California. <i>Environmental Science &amp; Technology</i> , <b>2003</b> , 37, 1598-608	10:3	33
182	Comparison of SOC estimates and uncertainties from aerosol chemical composition and gas phase data in Atlanta. <i>Atmospheric Environment</i> , <b>2010</b> , 44, 3907-3914	5:3	32
181	Source apportionment of fine particulate matter in the southeastern United States. <i>Journal of the Air and Waste Management Association</i> , <b>2007</b> , 57, 1123-35	2:4	32
180	Sensitivities of ozone and fine particulate matter formation to emissions under the impact of potential future climate change. <i>Environmental Science &amp; Technology</i> , <b>2007</b> , 41, 8355-61	10:3	32
179	A new mesoporous amine-TiO <sub>2</sub> based pre-combustion CO <sub>2</sub> capture technology. <i>Applied Energy</i> , <b>2015</b> , 147, 214-223	10:7	31
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	Development of PM <sub>2.5</sub> source impact spatial fields using a hybrid source apportionment air quality model. <i>Geoscientific Model Development</i> , <b>2015</b> , 8, 2153-2165	6:3	31
176	Environmental particulate (PM <sub>2.5</sub> ) augments stiffness-induced alveolar epithelial cell mechanoactivation of transforming growth factor beta. <i>PLoS ONE</i> , <b>2014</b> , 9, e106821	3:7	31
175	Comparison of two thermal-optical methods for the determination of organic carbon and elemental carbon: Results from the southeastern United States. <i>Atmospheric Environment</i> , <b>2011</b> , 45, 1913-1918	5:3	31
174	Downscaling a global climate model to simulate climate change over the US and the implication on regional and urban air quality. <i>Geoscientific Model Development</i> , <b>2013</b> , 6, 1429-1445	6:3	30
173	Iterative Inverse Modeling and Direct Sensitivity Analysis of a Photochemical Air Quality Model. <i>Environmental Science &amp; Technology</i> , <b>2000</b> , 34, 4974-4981	10:3	30
172	Quantification of Individual VOC Reactivity Using a Chemically Detailed, Three-Dimensional Photochemical Model. <i>Environmental Science &amp; Technology</i> , <b>1995</b> , 29, 3029-37	10:3	30
171	Estimating Acute Cardiovascular Effects of Ambient PM Metals. <i>Environmental Health Perspectives</i> , <b>2018</b> , 126, 027007	8:4	30
170	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



169	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
168	Air quality impacts from prescribed forest fires under different management practices. <i>Environmental Science &amp; Technology</i> , <b>2008</b> , 42, 2767-72	10.3	29
167	Mathematical modeling of the formation of nitrogen-containing pollutants. 2. Evaluation of the effect of emission controls. <i>Environmental Science &amp; Technology</i> , <b>1988</b> , 22, 1336-1347	10.3	29
166	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
165	New approach for optimal electricity planning and dispatching with hourly time-scale air quality and health considerations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, 10884-9	11.5	28
164	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
163	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
162	Reaction kinetics of CO <sub>2</sub> carbonation with Mg-rich minerals. <i>Journal of Physical Chemistry A</i> , <b>2011</b> , 115, 7638-44	2.8	27
161	An optimization model for photochemical air pollution control. <i>European Journal of Operational Research</i> , <b>1998</b> , 106, 1-14	5.6	27
160	New CO <sub>2</sub> Sorbent Synthesized with Nanoporous TiO(OH) <sub>2</sub> and K <sub>2</sub> CO <sub>3</sub> . <i>Energy &amp; Fuels</i> , <b>2013</b> , 27, 7628-7636	4.1	26
159	Ensemble-based source apportionment of fine particulate matter and emergency department visits for pediatric asthma. <i>American Journal of Epidemiology</i> , <b>2015</b> , 181, 504-12	3.8	25
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14	Downscaling a global climate model to simulate climate change impacts on US regional and urban air quality		1
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