

Jeffrey Pierce

List of Publications by Year in Descending Order

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Version: 2024-04-28

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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.

209
papers

9,133
citations

49
h-index

90
g-index

291
ext. papers

11,050
ext. citations

7.1
avg, IF

6.21
L-index

#	Paper	IF	Citations
209	Future PM _{2.5} emissions from metal production to meet renewable energy demand. <i>Environmental Research Letters</i> , 2022 , 17, 044043	6.2	
208	Observations of particle number size distributions and new particle formation in six Indian locations. <i>Atmospheric Chemistry and Physics</i> , 2022 , 22, 4491-4508	6.8	1
207	Heterogeneous Nucleation Drives Particle Size Segregation in Sequential Ozone and Nitrate Radical Oxidation of Catechol. <i>Environmental Science & Technology</i> , 2021 , 55, 15637-15645	10.3	2
206	New Particle Formation and Growth to Climate-Relevant Aerosols at a Background Remote Site in the Western Himalaya. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021 , 126, e2020JD033267	4.4	6
205	Associations Between Wildfire-Related PM and Intensive Care Unit Admissions in the United States, 2006-2015. <i>GeoHealth</i> , 2021 , 5, e2021GH000385	5	7
204	Dilution impacts on smoke aging: evidence in Biomass Burning Observation Project (BBOP) data. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 6839-6855	6.8	9
203	Chemical transport models often underestimate inorganic aerosol acidity in remote regions of the atmosphere. <i>Communications Earth & Environment</i> , 2021 , 2,	6.1	7
202	Improved estimates of preindustrial biomass burning reduce the magnitude of aerosol climate forcing in the Southern Hemisphere. <i>Science Advances</i> , 2021 , 7,	14.3	4
201	Empirical Insights Into the Fate of Ammonia in Western U.S. Wildfire Smoke Plumes. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021 , 126, e2020JD033730	4.4	4
200	Daytime Oxidized Reactive Nitrogen Partitioning in Western U.S. Wildfire Smoke Plumes. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021 , 126, e2020JD033484	4.4	18
199	Quantifying Proximity, Confinement, and Interventions in Disease Outbreaks: A Decision Support Framework for Air-Transported Pathogens. <i>Environmental Science & Technology</i> , 2021 , 55, 2890-2898	10.3	12
198	Evaluating Empirical Lightning Parameterizations in Global Atmospheric Models. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021 , 126, e2020JD033695	4.4	1
197	Differential Cardiopulmonary Health Impacts of Local and Long-Range Transport of Wildfire Smoke.. <i>GeoHealth</i> , 2021 , 5, e2020GH000330	5	11
196	Factors controlling marine aerosol size distributions and their climate effects over the northwest Atlantic Ocean region. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 1889-1916	6.8	5
195	Observation of sub-3nm particles and new particle formation at an urban location in India. <i>Atmospheric Environment</i> , 2021 , 256, 118460	5.3	3
194	A low-cost monitor for simultaneous measurement of fine particulate matter and aerosol optical depth [Part B]: Automation and design improvements. <i>Atmospheric Measurement Techniques</i> , 2021 , 14, 6023-6038	4	1
193	Quantifying the Health Benefits of Face Masks and Respirators to Mitigate Exposure to Severe Air Pollution. <i>GeoHealth</i> , 2021 , 5, e2021GH000482	5	2

192	Estimated Mortality and Morbidity Attributable to Smoke Plumes in the United States: Not Just a Western US Problem. <i>GeoHealth</i> , 2021 , 5, e2021GH000457	5	9
191	Particle Size Distribution Dynamics Can Help Constrain the Phase State of Secondary Organic Aerosol. <i>Environmental Science & Technology</i> , 2021 , 55, 1466-1476	10.3	9
190	A computationally efficient model to represent the chemistry, thermodynamics, and microphysics of secondary organic aerosols (simpleSOM): model development and application to Pinene SOA. <i>Environmental Science Atmospheres</i> , 2021 , 1, 372-394		0
189	Estimating the Spread in Future Fine Dust Concentrations in the Southwest United States. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020 , 125, e2019JD031735	4.4	2
188	Global Estimates and Long-Term Trends of Fine Particulate Matter Concentrations (1998-2018). <i>Environmental Science & Technology</i> , 2020 , 54, 7879-7890	10.3	143
187	Oxygenated Aromatic Compounds are Important Precursors of Secondary Organic Aerosol in Biomass-Burning Emissions. <i>Environmental Science & Technology</i> , 2020 , 54, 8568-8579	10.3	29
186	Secondary organic aerosol formation from evaporated biofuels: comparison to gasoline and correction for vapor wall losses. <i>Environmental Sciences: Processes and Impacts</i> , 2020 , 22, 1461-1474	4.3	8
185	Emissions and radiative impacts of sub-10 nm particles from biofuel and fossil fuel cookstoves. <i>Aerosol Science and Technology</i> , 2020 , 54, 1231-1243	3.4	1
184	Using Low-Cost Measurement Systems to Investigate Air Quality: A Case Study in Palapye, Botswana. <i>Atmosphere</i> , 2020 , 11, 583	2.7	2
183	Characterization of organic aerosol across the global remote troposphere: a comparison of ATom measurements and global chemistry models. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 4607-4635	6.8	38
182	The association between wildfire smoke exposure and asthma-specific medical care utilization in Oregon during the 2013 wildfire season. <i>Journal of Exposure Science and Environmental Epidemiology</i> , 2020 , 30, 618-628	6.7	17
181	Comparing regional stove-usage patterns and using those patterns to model indoor air quality impacts. <i>Indoor Air</i> , 2020 , 30, 521-533	5.4	4
180	Response of Hurricane Harvey's rainfall to anthropogenic aerosols: A sensitivity study based on spectral bin microphysics with simulated aerosols. <i>Atmospheric Research</i> , 2020 , 242, 104965	5.4	5
179	Estimated Aerosol Health and Radiative Effects of the Residential Coal Ban in the Beijing-Tianjin-Hebei Region of China. <i>Aerosol and Air Quality Research</i> , 2020 , 20, 2332-2346	4.6	2
178	Vertical profiles of light absorption and scattering associated with black carbon particle fractions in the springtime Arctic above 79°N. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 10545-10563	6.8	6
177	Rapid evolution of aerosol particles and their optical properties downwind of wildfires in the western US. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 13319-13341	6.8	16
176	The potential role of organics in new particle formation and initial growth in the remote tropical upper troposphere. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 15037-15060	6.8	4
175	An evaluation of global organic aerosol schemes using airborne observations. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 2637-2665	6.8	44

174	Simulating the forest fire plume dispersion, chemistry, and aerosol formation using SAM-ASP version 1.0. <i>Geoscientific Model Development</i> , 2020 , 13, 4579-4593	6.3	4
173	Exploring new methods of estimating deposition using atmospheric concentration measurements: A modeling case study of ammonia downwind of a feedlot. <i>Agricultural and Forest Meteorology</i> , 2020 , 290, 107989	5.8	2
172	Beyond SOx reductions from shipping: assessing the impact of NOx and carbonaceous-particle controls on human health and climate. <i>Environmental Research Letters</i> , 2020 , 15, 124046	6.2	4
171	Measuring and modeling the primary organic aerosol volatility from a modern non-road diesel engine. <i>Atmospheric Environment</i> , 2020 , 223, 117221	5.3	3
170	A Decadal Climatology of Chemical, Physical, and Optical Properties of Ambient Smoke in the Western and Southeastern United States. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020 , 125, e2019JD031372	4.4	13
169	Revisiting particle dry deposition and its role in radiative effect estimates. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 26076-26082	11.5	32
168	The Relationship Between MAIAC Smoke Plume Heights and Surface PM. <i>Geophysical Research Letters</i> , 2020 , 47, e2020GL088949	4.9	5
167	Outdoor air pollution in India is not only an urban problem. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 28640-28644	11.5	22
166	Hazardous Air Pollutants in Fresh and Aged Western US Wildfire Smoke and Implications for Long-Term Exposure. <i>Environmental Science & Technology</i> , 2020 , 54, 11838-11847	10.3	26
165	The contribution of black carbon to global ice nucleating particle concentrations relevant to mixed-phase clouds. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 22705-22711	11.5	25
164	The relationship between monthly air pollution and violent crime across the United States. <i>Journal of Environmental Economics and Policy</i> , 2020 , 9, 188-205	1.8	13
163	Past Variance and Future Projections of the Environmental Conditions Driving Western U.S. Summertime Wildfire Burn Area. <i>Earth & Future</i> , 2020 , 9, e2020EF001645	7.9	12
162	An evaluation of global organic aerosol schemes using airborne observations 2019 ,		4
161	Impact of Wildfire Smoke on Adverse Pregnancy Outcomes in Colorado, 2007-2015. <i>International Journal of Environmental Research and Public Health</i> , 2019 , 16,	4.6	51
160	Characterization of Organic Aerosol across the Global Remote Troposphere: A comparison of ATom measurements and global chemistry models 2019 ,		1
159	Contribution of Wildland-Fire Smoke to US PM and Its Influence on Recent Trends. <i>Environmental Science & Technology</i> , 2019 , 53, 1797-1804	10.3	70
158	Effects of near-source coagulation of biomass burning aerosols on global predictions of aerosol size distributions and implications for aerosol radiative effects. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 6561-6577	6.8	17
157	A Laboratory Assessment of 120 Air Pollutant Emissions from Biomass and Fossil Fuel Cookstoves. <i>Environmental Science & Technology</i> , 2019 , 53, 7114-7125	10.3	28

156	More Than Emissions and Chemistry: Fire Size, Dilution, and Background Aerosol Also Greatly Influence Near-Field Biomass Burning Aerosol Aging. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019 , 124, 5589-5611	4.4	29
155	The potential role of methanesulfonic acid (MSA) in aerosol formation and growth and the associated radiative forcings. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 3137-3160	6.8	51
154	The Associations Between Clinical Respiratory Outcomes and Ambient Wildfire Smoke Exposure Among Pediatric Asthma Patients at National Jewish Health, 2012-2015. <i>GeoHealth</i> , 2019 , 3, 146-159	5	14
153	Arctic marine secondary organic aerosol contributes significantly to summertime particle size distributions in the Canadian Arctic Archipelago. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 2787-2812	6.8	25
152	Overview paper: New insights into aerosol and climate in the Arctic. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 2527-2560	6.8	85
151	Aging Effects on Biomass Burning Aerosol Mass and Composition: A Critical Review of Field and Laboratory Studies. <i>Environmental Science & Technology</i> , 2019 , 53, 10007-10022	10.3	58
150	A national burden assessment of estimated pediatric asthma emergency department visits that may be attributed to elevated ozone levels associated with the presence of smoke. <i>Environmental Monitoring and Assessment</i> , 2019 , 191, 269	3.1	5
149	Unprecedented Atmospheric Ammonia Concentrations Detected in the High Arctic From the 2017 Canadian Wildfires. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019 , 124, 8178-8202	4.4	17
148	Evaluation of global simulations of aerosol particle and cloud condensation nuclei number, with implications for cloud droplet formation. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 8591-8617	6.8	31
147	A large source of cloud condensation nuclei from new particle formation in the tropics. <i>Nature</i> , 2019 , 574, 399-403	50.4	75
146	The effect of pollution on crime: Evidence from data on particulate matter and ozone. <i>Journal of Environmental Economics and Management</i> , 2019 , 98, 102267	5.3	35
145	Air Toxics and Other Volatile Organic Compound Emissions from Unconventional Oil and Gas Development. <i>Environmental Science and Technology Letters</i> , 2019 , 6, 720-726	11	14
144	A low-cost monitor for simultaneous measurement of fine particulate matter and aerosol optical depth [Part 1: Specifications and testing. <i>Atmospheric Measurement Techniques</i> , 2019 , 12, 5431-5441	4	9
143	A low-cost monitor for measurement of fine particulate matter and aerosol optical depth [Part 2: Citizen-science pilot campaign in northern Colorado. <i>Atmospheric Measurement Techniques</i> , 2019 , 12, 6385-6399	4	11
142	Investigation of levoglucosan decay in wood smoke smog-chamber experiments: The importance of aerosol loading, temperature, and vapor wall losses in interpreting results. <i>Atmospheric Environment</i> , 2019 , 199, 224-232	5.3	12
141	Premature Mortality Due to PM Over India: Effect of Atmospheric Transport and Anthropogenic Emissions. <i>GeoHealth</i> , 2019 , 3, 2-10	5	42
140	Vertically resolved concentration and liquid water content of atmospheric nanoparticles at the US DOE Southern Great Plains site. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 311-326	6.8	21
139	Aerosol Optical Depth Over India. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018 , 123, 3688-3703	4.4	44

138	Synthesis of the Southeast Atmosphere Studies: Investigating Fundamental Atmospheric Chemistry Questions. <i>Bulletin of the American Meteorological Society</i> , 2018 , 99, 547-567	6.1	50
137	Quantifying the Contribution to Uncertainty in Mortality Attributed to Household, Ambient, and Joint Exposure to PM From Residential Solid Fuel Use. <i>GeoHealth</i> , 2018 , 2, 25-39	5	28
136	The response of a simulated mesoscale convective system to increased aerosol pollution: Part I: Precipitation intensity, distribution, and efficiency. <i>Atmospheric Research</i> , 2018 , 199, 193-208	5.4	12
135	Machine Learning to Predict the Global Distribution of Aerosol Mixing State Metrics. <i>Atmosphere</i> , 2018 , 9, 15	2.7	14
134	Studying the impact of radioactive charging on the microphysical evolution and transport of radioactive aerosols with the TOMAS-RC v1 framework. <i>Journal of Environmental Radioactivity</i> , 2018 , 192, 150-159	2.4	0
133	The Firepower Sweep Test: A novel approach to cookstove laboratory testing. <i>Indoor Air</i> , 2018 , 28, 936-949	3.4	16
132	Improving the Quality of Heavy Precipitation Estimates from Satellite Passive Microwave Rainfall Retrievals. <i>Journal of Hydrometeorology</i> , 2018 , 19, 69-85	3.7	10
131	Future Fire Impacts on Smoke Concentrations, Visibility, and Health in the Contiguous United States. <i>GeoHealth</i> , 2018 , 2, 229-247	5	96
130	Effects of Near-Source Coagulation of Biomass Burning Aerosols on Global Predictions of Aerosol Size Distributions and Implications for Aerosol Radiative Effects 2018 ,		1
129	Ambient Particulate Matter Size Distributions Drive Regional and Global Variability in Particle Deposition in the Respiratory Tract. <i>GeoHealth</i> , 2018 , 2, 298-312	5	16
128	Environmental Conditions, Ignition Type, and Air Quality Impacts of Wildfires in the Southeastern and Western United States. <i>Earth's Future</i> , 2018 , 6, 1442-1456	7.9	19
127	The potential role of methanesulfonic acid (MSA) in aerosol formation and growth and the associated radiative forcings 2018 ,		1
126	Particle wall-loss correction methods in smog chamber experiments. <i>Atmospheric Measurement Techniques</i> , 2018 , 11, 6577-6588	4	29
125	New insights into aerosol and climate in the Arctic 2018 ,		3
124	Constraining nucleation, condensation, and chemistry in oxidation flow reactors using size-distribution measurements and aerosol microphysical modeling. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 12433-12460	6.8	10
123	Arctic marine secondary organic aerosol contributes significantly to summertime particle size distributions in the Canadian Arctic Archipelago 2018 ,		1
122	Size-resolved mixing state of black carbon in the Canadian high Arctic and implications for simulated direct radiative effect. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 11345-11361	6.8	22
121	Field measurements of solid-fuel cookstove emissions from uncontrolled cooking in China, Honduras, Uganda, and India. <i>Atmospheric Environment</i> , 2018 , 190, 116-125	5.3	34

120	Interactions between the MJO, Aerosols, and Convection over the Central Indian Ocean. <i>Journals of the Atmospheric Sciences</i> , 2017 , 74, 353-374	2.1	3
119	Important global and regional differences in aerosol cloud-albedo effect estimates between simulations with and without prognostic aerosol microphysics. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017 , 122, 4003-4018	4.4	24
118	Spatial and temporal estimates of population exposure to wildfire smoke during the Washington state 2012 wildfire season using blended model, satellite, and in situ data. <i>GeoHealth</i> , 2017 , 1, 106-121	5	54
117	Comparison of wildfire smoke estimation methods and associations with cardiopulmonary-related hospital admissions. <i>GeoHealth</i> , 2017 , 1, 122-136	5	67
116	Studying the Impact of Radioactive Charging on the Microphysical Evolution and Transport of Radioactive Aerosols with the TOMAS-RC v1 framework 2017 ,		1
115	A global lightning parameterization based on statistical relationships among environmental factors, aerosols, and convective clouds in the TRMM climatology. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017 , 122, 7461-7492	4.4	24
114	Cosmic rays, aerosols, clouds, and climate: Recent findings from the CLOUD experiment. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017 , 122, 8051-8055	4.4	17
113	Boundary layer and free-tropospheric dimethyl sulfide in the Arctic spring and summer. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 8757-8770	6.8	7
112	Organic Condensation and Particle Growth to CCN Sizes in the Summertime Marine Arctic Is Driven by Materials More Semivolatile Than at Continental Sites. <i>Geophysical Research Letters</i> , 2017 , 44, 10,725-10,734 ²³	4.0	23
111	Constraining uncertainties in particle-wall deposition correction during SOA formation in chamber experiments. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 2297-2310	6.8	41
110	Secondary organic aerosol formation in biomass-burning plumes: theoretical analysis of lab studies and ambient plumes. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 5459-5475	6.8	50
109	Status update: is smoke on your mind? Using social media to assess smoke exposure. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 7541-7554	6.8	17
108	Recent advances in understanding secondary organic aerosol: Implications for global climate forcing. <i>Reviews of Geophysics</i> , 2017 , 55, 509-559	23.1	359
107	Constraining uncertainties in particle wall-deposition correction during SOA formation in chamber experiments 2016 ,		1
106	Software to analyze the relationship between aerosol, clouds, and precipitation: SAMAC. <i>Atmospheric Measurement Techniques</i> , 2016 , 9, 619-630	4	2
105	Contribution of Arctic seabird-colony ammonia to atmospheric particles and cloud-albedo radiative effect. <i>Nature Communications</i> , 2016 , 7, 13444	17.4	65
104	Ammonia in the summertime Arctic marine boundary layer: sources, sinks, and implications. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 1937-1953	6.8	48
103	Evaluation of observed and modelled aerosol lifetimes using radioactive tracers of opportunity and an ensemble of 19 global models. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 3525-3561	6.8	58

102	The aerosol radiative effects of uncontrolled combustion of domestic waste. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 6771-6784	6.8	21
101	Multiple new-particle growth pathways observed at the US DOE Southern Great Plains field site. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 9321-9348	6.8	24
100	Processes controlling the annual cycle of Arctic aerosol number and size distributions. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 3665-3682	6.8	84
99	Source attribution of aerosol size distributions and model evaluation using Whistler Mountain measurements and GEOS-Chem-TOMAS simulations. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 383-396	6.8	8
98	The evolution of biomass-burning aerosol size distributions due to coagulation: dependence on fire and meteorological details and parameterization. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 7709-7724	6.8	42
97	Global burden of mortalities due to chronic exposure to ambient PM 2.5 from open combustion of domestic waste. <i>Environmental Research Letters</i> , 2016 , 11, 124022	6.2	30
96	Ice-nucleating particle emissions from photochemically aged diesel and biodiesel exhaust. <i>Geophysical Research Letters</i> , 2016 , 43, 5524-5531	4.9	37
95	The evolution of biomass-burning aerosol size distributions due to coagulation: dependence on fire and meteorological details and parameterization 2016 ,		1
94	Secondary organic aerosol formation in biomass-burning plumes: Theoretical analysis of lab studies and ambient plumes 2016 ,		1
93	Environmental controls on storm intensity and charge structure in multiple regions of the continental United States. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015 , 120, 6575-6596	4.4	60
92	Simultaneous influences of thermodynamics and aerosols on deep convection and lightning in the tropics. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015 , 120, 6207-6231	4.4	50
91	Investigation of particle and vapor wall-loss effects on controlled wood-smoke smog-chamber experiments. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 11027-11045	6.8	33
90	Aged boreal biomass-burning aerosol size distributions from BORTAS 2011. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 1633-1646	6.8	34
89	The importance of interstitial particle scavenging by cloud droplets in shaping the remote aerosol size distribution and global aerosol-climate effects. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 6147-6158	6.8	27
88	A comparison of four receptor models used to quantify the boreal wildfire smoke contribution to surface PM _{2.5} in Halifax, Nova Scotia during the BORTAS-B experiment. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 815-827	6.8	16
87	Uncertainties in global aerosols and climate effects due to biofuel emissions. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 8577-8596	6.8	50
86	Impact of gas-to-particle partitioning approaches on the simulated radiative effects of biogenic secondary organic aerosol. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 12989-13001	6.8	28
85	Boundary layer new particle formation over East Antarctic sea ice [possible Hg-driven nucleation?]. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 13339-13364	6.8	19

84	Aerosol size distribution and radiative forcing response to anthropogenically driven historical changes in biogenic secondary organic aerosol formation. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 2247-2268	6.8	11
83	Assessing the influence of secondary organic versus primary carbonaceous aerosols on long-range atmospheric polycyclic aromatic hydrocarbon transport. <i>Environmental Science & Technology</i> , 2014 , 48, 3293-302	10.3	32
82	Spatially and seasonally resolved estimate of the ratio of organic mass to organic carbon. <i>Atmospheric Environment</i> , 2014 , 87, 34-40	5.3	53
81	A simple way to improve the diurnal cycle in convective rainfall over land in climate models. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 2113-2130	4.4	19
80	The contribution of plume-scale nucleation to global and regional aerosol and CCN concentrations: evaluation and sensitivity to emissions changes. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 13661-13679	6.8	11
79	Analysis of feedbacks between nucleation rate, survival probability and cloud condensation nuclei formation. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 5577-5597	6.8	55
78	Interpreting aerosol lifetimes using the GEOS-Chem model and constraints from radionuclide measurements. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 4313-4325	6.8	25
77	New-particle formation, growth and climate-relevant particle production in Egbert, Canada: analysis from 1 year of size-distribution observations. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 8647-8663	6.8	40
76	A case study of aerosol scavenging in a biomass burning plume over eastern Canada during the 2011 BORTAS field experiment. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 8449-8460	6.8	15
75	Diesel particulate matter emission factors and air quality implications from in-service rail in Washington State, USA. <i>Atmospheric Pollution Research</i> , 2014 , 5, 344-351	4.5	15
74	Role of atmospheric ammonia in particulate matter formation in Houston during summertime. <i>Atmospheric Environment</i> , 2013 , 77, 893-900	5.3	53
73	Large contribution of natural aerosols to uncertainty in indirect forcing. <i>Nature</i> , 2013 , 503, 67-71	50.4	614
72	A simple model of global aerosol indirect effects. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 6688-6707	4.4	47
71	Toward resolution-independent dust emissions in global models: Impacts on the seasonal and spatial distribution of dust. <i>Geophysical Research Letters</i> , 2013 , 40, 2873-2877	4.9	50
70	Reduced efficacy of marine cloud brightening geoengineering due to in-plume aerosol coagulation: parameterization and global implications. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 10385-10396	6.8	16
69	Understanding global secondary organic aerosol amount and size-resolved condensational behavior. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 11519-11534	6.8	60
68	Weak global sensitivity of cloud condensation nuclei and the aerosol indirect effect to Criegee + SO ₂ chemistry. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 3163-3176	6.8	58
67	Quantifying the impact of Boreal forest fires on Tropospheric oxidants over the Atlantic using Aircraft and Satellites (BORTAS) experiment: design, execution and science overview. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 6239-6261	6.8	45

66	Identifying the sources driving observed PM _{2.5} ; temporal variability over Halifax, Nova Scotia, during BORTAS-B. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 7199-7213	6.8	37
65	Semi-empirical parameterization of size-dependent atmospheric nanoparticle growth in continental environments. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 7665-7682	6.8	21
64	Corrigendum to "The magnitude and causes of uncertainty in global model simulations of cloud condensation nuclei" published in <i>Atmos. Chem. Phys.</i> , 13, 8879-8914, 2013. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 9375-9377	6.8	2
63	A parameterization of sub-grid particle formation in sulfur-rich plumes for global- and regional-scale models. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 12117-12133	6.8	14
62	Formation and growth of nucleated particles into cloud condensation nuclei: model-measurement comparison. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 7645-7663	6.8	67
61	The magnitude and causes of uncertainty in global model simulations of cloud condensation nuclei. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 8879-8914	6.8	172
60	Representation of nucleation mode microphysics in a global aerosol model with sectional microphysics. <i>Geoscientific Model Development</i> , 2013 , 6, 1221-1232	6.3	31
59	Dimethyl sulfide control of the clean summertime Arctic aerosol and cloud. <i>Elementa</i> , 2013 , 1,	3.6	83
58	Cloud condensation nuclei droplet growth kinetics of ultrafine particles during anthropogenic nucleation events. <i>Atmospheric Environment</i> , 2012 , 47, 389-398	5.3	10
57	The contribution of organics to atmospheric nanoparticle growth. <i>Nature Geoscience</i> , 2012 , 5, 453-458	18.3	282
56	Uncertainty associated with convective wet removal of entrained aerosols in a global climate model. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 10725-10748	6.8	37
55	The effect of model spatial resolution on Secondary Organic Aerosol predictions: a case study at Whistler, BC, Canada. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 10911-10923	6.8	15
54	The effect of coal-fired power-plant SO ₂ and NO _x control technologies on aerosol nucleation in the source plumes. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 11519-11531	6.8	49
53	Nucleation and condensational growth to CCN sizes during a sustained pristine biogenic SOA event in a forested mountain valley. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 3147-3163	6.8	106
52	Nucleation and growth of sulfate aerosol in coal-fired power plant plumes: sensitivity to background aerosol and meteorology. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 189-206	6.8	59
51	Theoretical constraints on pure vapor-pressure driven condensation of organics to ultrafine particles. <i>Geophysical Research Letters</i> , 2011 , 38, n/a-n/a	4.9	88
50	Relating atmospheric and oceanic DMS levels to particle nucleation events in the Canadian Arctic. <i>Journal of Geophysical Research</i> , 2011 , 116,		70
49	Organic condensation: a vital link connecting aerosol formation to cloud condensation nuclei (CCN) concentrations. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 3865-3878	6.8	319

48	Cosmic rays, aerosol formation and cloud-condensation nuclei: sensitivities to model uncertainties. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 4001-4013	6.8	41
47	Quantification of the volatility of secondary organic compounds in ultrafine particles during nucleation events. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 9019-9036	6.8	132
46	Volatility of secondary organic aerosol from the ozonolysis of monoterpenes. <i>Atmospheric Environment</i> , 2011 , 45, 2443-2452	5.3	53
45	Detecting thin cirrus in Multiangle Imaging Spectroradiometer aerosol retrievals. <i>Journal of Geophysical Research</i> , 2010 , 115,		28
44	Efficient formation of stratospheric aerosol for climate engineering by emission of condensable vapor from aircraft. <i>Geophysical Research Letters</i> , 2010 , 37, n/a-n/a	4.9	93
43	Equilibration time scales of organic aerosol inside thermodenuders: Evaporation kinetics versus thermodynamics. <i>Atmospheric Environment</i> , 2010 , 44, 597-607	5.3	122
42	A Computationally Efficient Aerosol Nucleation/ Condensation Method: Pseudo-Steady-State Sulfuric Acid. <i>Aerosol Science and Technology</i> , 2009 , 43, 216-226	3.4	46
41	Mass spectra deconvolution of low, medium, and high volatility biogenic secondary organic aerosol. <i>Environmental Science & Technology</i> , 2009 , 43, 4884-9	10.3	67
40	Parameterization of the effect of sub-grid scale aerosol dynamics on aerosol number emission rates. <i>Journal of Aerosol Science</i> , 2009 , 40, 385-393	4.3	33
39	Can cosmic rays affect cloud condensation nuclei by altering new particle formation rates?. <i>Geophysical Research Letters</i> , 2009 , 36,	4.9	108
38	Uncertainty in global CCN concentrations from uncertain aerosol nucleation and primary emission rates. <i>Atmospheric Chemistry and Physics</i> , 2009 , 9, 1339-1356	6.8	265
37	Constraining Particle Evolution from Wall Losses, Coagulation, and Condensation-Evaporation in Smog-Chamber Experiments: Optimal Estimation Based on Size Distribution Measurements. <i>Aerosol Science and Technology</i> , 2008 , 42, 1001-1015	3.4	77
36	Laboratory studies of H ₂ O/SO ₂ /H ₂ O binary homogeneous nucleation from the SO ₂ +OH reaction: evaluation of the experimental setup and preliminary results. <i>Atmospheric Chemistry and Physics</i> , 2008 , 8, 4997-5016	6.8	87
35	Organic aerosol formation from photochemical oxidation of diesel exhaust in a smog chamber. <i>Environmental Science & Technology</i> , 2007 , 41, 6969-75	10.3	181
34	Rethinking organic aerosols: semivolatile emissions and photochemical aging. <i>Science</i> , 2007 , 315, 1259-63	3.3	1452
33	Contribution of primary carbonaceous aerosol to cloud condensation nuclei: processes and uncertainties evaluated with a global aerosol microphysics model. <i>Atmospheric Chemistry and Physics</i> , 2007 , 7, 5447-5466	6.8	102
32	Efficiency of cloud condensation nuclei formation from ultrafine particles. <i>Atmospheric Chemistry and Physics</i> , 2007 , 7, 1367-1379	6.8	155
31	Global evaluation of CCN formation by direct emission of sea salt and growth of ultrafine sea salt. <i>Journal of Geophysical Research</i> , 2006 , 111,		173

30	Quantifying proximity, confinement, and interventions in disease outbreaks: a decision support framework for air-transported pathogens	1
29	Dilution impacts on smoke aging: Evidence in BBOP data	2
28	Quantification of the volatility of secondary organic compounds in ultrafine particles during nucleation events	3
27	Cosmic rays, aerosol formation and cloud-condensation nuclei: sensitivities to model uncertainties	1
26	Organic condensation – a vital link connecting aerosol formation to climate forcing	2
25	Formation and growth of nucleated particles: observational constraints on cloud condensation nuclei budgets	3
24	The effect of model spatial resolution on Secondary Organic Aerosol predictions: a case study at Whistler, BC, Canada	1
23	Weak sensitivity of cloud condensation nuclei and the aerosol indirect effect to Criegee + SO ₂ chemistry	2
22	Reduced efficacy of marine cloud brightening geoengineering due to in-plume aerosol coagulation: parameterization and global implications	1
21	Understanding and constraining global secondary organic aerosol amount and size-resolved condensational behavior	3
20	A parameterization of sub-grid particle formation in sulphur-rich plumes for global and regional-scale models	2
19	Analysis of feedbacks between nucleation rate, survival probability and cloud condensation nuclei formation	1
18	Interpreting aerosol lifetimes using the GEOS-Chem model and constraints from radionuclide measurements	2
17	Quantifying the impact of BOREal forest fires on Tropospheric oxidants over the Atlantic using Aircraft and Satellites (BORTAS) experiment: design, execution and science overview	8
16	Identifying the sources driving observed PM _{2.5} variability over Halifax, Nova Scotia, during BORTAS-B	3
15	The magnitude and causes of uncertainty in global model simulations of cloud condensation nuclei	10
14	Formation and growth of nucleated particles into cloud condensation nuclei: model-measurement comparison	4
13	The contribution of plume-scale nucleation to global and regional aerosol and CCN concentrations: evaluation and sensitivity to emissions changes	2

12	Aged boreal biomass burning aerosol size distributions from BORTAS 2011	2
11	A case study of aerosol depletion in a biomass burning plume over Eastern Canada during the 2011 BORTAS field experiment	3
10	New-particle formation, growth and climate-relevant particle production in Egbert, Canada: analysis from one year of size-distribution observations	2
9	Uncertainties in global aerosols and climate effects due to biofuel emissions	4
8	Boundary layer new particle formation over East Antarctic sea ice [possible Hg driven nucleation?]	2
7	Evaluation of observed and modelled aerosol lifetimes using radioactive tracers of opportunity and an ensemble of 19 global models	3
6	Source attribution of aerosol size distributions and model evaluation using Whistler Mountain measurements and GEOS-Chem-TOMAS simulations	1
5	Processes controlling the seasonal cycle of Arctic aerosol number and size distributions	4
4	Ammonia in the summertime Arctic marine boundary layer: sources, sinks and implications	5
3	Uncertainty in global CCN concentrations from uncertain aerosol nucleation and primary emission rates	3
2	The importance of interstitial particle scavenging by cloud droplets in shaping the remote aerosol size distribution and global aerosol-climate effects	1
1	Semi-empirical parameterization of size-dependent atmospheric nanoparticle growth in continental environments	1