

Jeffrey Pierce

List of Publications by Citations

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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	Rethinking organic aerosols: semivolatile emissions and photochemical aging. <i>Science</i> , 2007 , 315, 1259-633	33.3	1452
208	Large contribution of natural aerosols to uncertainty in indirect forcing. <i>Nature</i> , 2013 , 503, 67-71	50.4	614
207	Recent advances in understanding secondary organic aerosol: Implications for global climate forcing. <i>Reviews of Geophysics</i> , 2017 , 55, 509-559	23.1	359
206	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
205	The contribution of organics to atmospheric nanoparticle growth. <i>Nature Geoscience</i> , 2012 , 5, 453-458	18.3	282
204	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
203	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
202	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
201	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
200	Efficiency of cloud condensation nuclei formation from ultrafine particles. <i>Atmospheric Chemistry and Physics</i> , 2007 , 7, 1367-1379	6.8	155
199	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
198	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
197	Equilibration time scales of organic aerosol inside thermodenuders: Evaporation kinetics versus thermodynamics. <i>Atmospheric Environment</i> , 2010 , 44, 597-607	5.3	122
196	Can cosmic rays affect cloud condensation nuclei by altering new particle formation rates?. <i>Geophysical Research Letters</i> , 2009 , 36,	4.9	108
195	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
194	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
193	Future Fire Impacts on Smoke Concentrations, Visibility, and Health in the Contiguous United States. <i>GeoHealth</i> , 2018 , 2, 229-247	5	96

192	Efficient formation of stratospheric aerosol for climate engineering by emission of condensible vapor from aircraft. <i>Geophysical Research Letters</i> , 2010 , 37, n/a-n/a	4.9	93
191	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
190	Laboratory studies of H ₂ SO ₄ /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
189	Overview paper: New insights into aerosol and climate in the Arctic. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 2527-2560	6.8	85
188	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
187	Dimethyl sulfide control of the clean summertime Arctic aerosol and cloud. <i>Elementa</i> , 2013 , 1,	3.6	83
186	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
185	A large source of cloud condensation nuclei from new particle formation in the tropics. <i>Nature</i> , 2019 , 574, 399-403	5.4	75
184	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
183	Relating atmospheric and oceanic DMS levels to particle nucleation events in the Canadian Arctic. <i>Journal of Geophysical Research</i> , 2011 , 116,		70
182	Comparison of wildfire smoke estimation methods and associations with cardiopulmonary-related hospital admissions. <i>GeoHealth</i> , 2017 , 1, 122-136	5	67
181	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
180	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
179	Contribution of Arctic seabird-colony ammonia to atmospheric particles and cloud-albedo radiative effect. <i>Nature Communications</i> , 2016 , 7, 13444	17.4	65
178	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
177	Understanding global secondary organic aerosol amount and size-resolved condensational behavior. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 11519-11534	6.8	60
176	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
175	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

174	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
173	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
172	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
171	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
170	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
169	Role of atmospheric ammonia in particulate matter formation in Houston during summertime. <i>Atmospheric Environment</i> , 2013 , 77, 893-900	5.3	53
168	Volatility of secondary organic aerosol from the ozonolysis of monoterpenes. <i>Atmospheric Environment</i> , 2011 , 45, 2443-2452	5.3	53
167	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
166	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
165	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
164	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
163	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
162	Uncertainties in global aerosols and climate effects due to biofuel emissions. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 8577-8596	6.8	50
161	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
160	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
159	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
158	A simple model of global aerosol indirect effects. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 6688-6707	4.4	47
157	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

156	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
155	Aerosol Optical Depth Over India. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018 , 123, 3688-3703	4.4	44
154	An evaluation of global organic aerosol schemes using airborne observations. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 2637-2665	6.8	44
153	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
152	Premature Mortality Due to PM Over India: Effect of Atmospheric Transport and Anthropogenic Emissions. <i>GeoHealth</i> , 2019 , 3, 2-10	5	42
151	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
150	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
149	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
148	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
147	Ice-nucleating particle emissions from photochemically aged diesel and biodiesel exhaust. <i>Geophysical Research Letters</i> , 2016 , 43, 5524-5531	4.9	37
146	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
145	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
144	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
143	Aged boreal biomass-burning aerosol size distributions from BORTAS 2011. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 1633-1646	6.8	34
142	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
141	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	4.9	33
140	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
139	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

138	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
137	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
136	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
135	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
134	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
133	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
132	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
131	Particle wall-loss correction methods in smog chamber experiments. <i>Atmospheric Measurement Techniques</i> , 2018 , 11, 6577-6588	4	29
130	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
129	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
128	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
127	Detecting thin cirrus in Multiangle Imaging Spectroradiometer aerosol retrievals. <i>Journal of Geophysical Research</i> , 2010 , 115,		28
126	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
125	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
124	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
123	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
122	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
121	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

120	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
119	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
118	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
117	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
116	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
115	The aerosol radiative effects of uncontrolled combustion of domestic waste. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 6771-6784	6.8	21
114	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
113	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
112	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
111	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
110	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
109	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
108	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
107	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
106	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
105	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
104	The Firepower Sweep Test: A novel approach to cookstove laboratory testing. <i>Indoor Air</i> , 2018 , 28, 936-949	9.4	16
103	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

102	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
101	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
100	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
99	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
98	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
97	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
96	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
95	Machine Learning to Predict the Global Distribution of Aerosol Mixing State Metrics. <i>Atmosphere</i> , 2018 , 9, 15	2.7	14
94	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
93	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
92	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
91	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
90	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
89	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
88	Past Variance and Future Projections of the Environmental Conditions Driving Western U.S. Summertime Wildfire Burn Area. <i>Earth's Future</i> , 2020 , 9, e2020EF001645	7.9	12
87	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
86	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
85	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

84	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
83	Differential Cardiopulmonary Health Impacts of Local and Long-Range Transport of Wildfire Smoke.. <i>GeoHealth</i> , 2021 , 5, e2020GH000330	5	11
82	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
81	Cloud condensation nuclei droplet growth kinetics of ultrafine particles during anthropogenic nucleation events. <i>Atmospheric Environment</i> , 2012 , 47, 389-398	5.3	10
80	The magnitude and causes of uncertainty in global model simulations of cloud condensation nuclei		10
79	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
78	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
77	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
76	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
75	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
74	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
73	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
72	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
71	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
70	Associations Between Wildfire-Related PM and Intensive Care Unit Admissions in the United States, 2006-2015. <i>GeoHealth</i> , 2021 , 5, e2021GH000385	5	7
69	Chemical transport models often underestimate inorganic aerosol acidity in remote regions of the atmosphere. <i>Communications Earth & Environment</i> , 2021 , 2,	6.1	7
68	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
67	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

66	Response of Hurricane Harvey 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
65	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
64	Ammonia in the summertime Arctic marine boundary layer: sources, sinks and implications		5
63	The Relationship Between MAIAC Smoke Plume Heights and Surface PM. <i>Geophysical Research Letters</i> , 2020 , 47, e2020GL088949	4.9	5
62	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
61	An evaluation of global organic aerosol schemes using airborne observations 2019 ,		4
60	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
59	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
58	Formation and growth of nucleated particles into cloud condensation nuclei: model-measurement comparison		4
57	Uncertainties in global aerosols and climate effects due to biofuel emissions		4
56	Processes controlling the seasonal cycle of Arctic aerosol number and size distributions		4
55	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
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47	Identifying the sources driving observed PM _{2.5} variability over Halifax, Nova Scotia, during BORTAS-B		3
46	A case study of aerosol depletion in a biomass burning plume over Eastern Canada during the 2011 BORTAS field experiment		3
45	Evaluation of observed and modelled aerosol lifetimes using radioactive tracers of opportunity and an ensemble of 19 global models		3
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31	A parameterization of sub-grid particle formation in sulphur-rich plumes for global and regional-scale models		2

30	Interpreting aerosol lifetimes using the GEOS-Chem model and constraints from radionuclide measurements	2	
29	The contribution of plume-scale nucleation to global and regional aerosol and CCN concentrations: evaluation and sensitivity to emissions changes	2	
28	Aged boreal biomass burning aerosol size distributions from BORTAS 2011	2	
27	New-particle formation, growth and climate-relevant particle production in Egbert, Canada: analysis from one year of size-distribution observations	2	
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14	Source attribution of aerosol size distributions and model evaluation using Whistler Mountain measurements and GEOS-Chem-TOMAS simulations		1
13	The importance of interstitial particle scavenging by cloud droplets in shaping the remote aerosol size distribution and global aerosol-climate effects		1

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10	Secondary organic aerosol formation in biomass-burning plumes: Theoretical analysis of lab studies and ambient plumes 2016 ,		1
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