

# Anne E Perring

## List of Publications by Year in Descending Order

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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.

95  
papers

5,342  
citations

46  
h-index

72  
g-index

107  
ext. papers

6,161  
ext. citations

7.4  
avg, IF

4.91  
L-index

#	Paper	IF	Citations
95	Airborne Emission Rate Measurements Validate Remote Sensing Observations and Emission Inventories of Western U.S. Wildfires.. <i>Environmental Science &amp; Technology</i> , <b>2022</b> ,	10.3	2
94	Drivers of the fungal spore bioaerosol budget: observational analysis and global modeling. <i>Atmospheric Chemistry and Physics</i> , <b>2021</b> , 21, 4381-4401	6.8	2
93	Temporal and spatial variations of aerosol optical properties over the Korean peninsula during KORUS-AQ. <i>Atmospheric Environment</i> , <b>2021</b> , 254, 118301	5.3	2
92	Light-absorption enhancement of black carbon in the Asian outflow inferred from airborne SP2 and in-situ measurements during KORUS-AQ. <i>Science of the Total Environment</i> , <b>2021</b> , 773, 145531	10.2	2
91	Global-scale constraints on light-absorbing anthropogenic iron oxide aerosols. <i>Npj Climate and Atmospheric Science</i> , <b>2021</b> , 4,	8	3
90	Understanding and improving model representation of aerosol optical properties for a Chinese haze event measured during KORUS-AQ. <i>Atmospheric Chemistry and Physics</i> , <b>2020</b> , 20, 6455-6478	6.8	10
89	High Temporal Resolution Satellite Observations of Fire Radiative Power Reveal Link Between Fire Behavior and Aerosol and Gas Emissions. <i>Geophysical Research Letters</i> , <b>2020</b> , 47, e2020GL090707	4.9	11
88	Real-time sensing of bioaerosols: Review and current perspectives. <i>Aerosol Science and Technology</i> , <b>2020</b> , 54, 465-495	3.4	68
87	Model-Measurement Consistency and Limits of Bioaerosol Abundance Over the Continental United States <b>2019</b> ,		1
86	Comparison of Modeled and Measured Ice Nucleating Particle Composition in a Cirrus Cloud. <i>Journals of the Atmospheric Sciences</i> , <b>2019</b> , 76, 1015-1029	2.1	3
85	Global aerosol modeling with MADE3 (v3.0) in EMAC (based on v2.53): model description and evaluation. <i>Geoscientific Model Development</i> , <b>2019</b> , 12, 541-579	6.3	9
84	Preliminary results from the FARCE 2015 campaign: multidisciplinary study of the forest gas-aerosol-cloud system on the tropical island of La Reunion. <i>Atmospheric Chemistry and Physics</i> , <b>2019</b> , 19, 10591-10618	6.8	11
83	Understanding and improving model representation of aerosol optical properties for a Chinese haze event measured during KORUS-AQ <b>2019</b> ,		1
82	Model-measurement consistency and limits of bioaerosol abundance over the continental United States. <i>Atmospheric Chemistry and Physics</i> , <b>2019</b> , 19, 13859-13870	6.8	7
81	Exploring the observational constraints on the simulation of brown carbon. <i>Atmospheric Chemistry and Physics</i> , <b>2018</b> , 18, 635-653	6.8	80
80	An intercomparison of aerosol absorption measurements conducted during the SEAC4RS campaign. <i>Aerosol Science and Technology</i> , <b>2018</b> , 52, 1012-1027	3.4	14
79	Limited impact of sulfate-driven chemistry on black carbon aerosol aging in power plant plumes. <i>AIMS Environmental Science</i> , <b>2018</b> , 5, 195-215	1.9	1

78	Estimating Source Region Influences on Black Carbon Abundance, Microphysics, and Radiative Effect Observed Over South Korea. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2018</b> , 123, 13,527	4.4	20
77	Aircraft measurements of black carbon vertical profiles show upper tropospheric variability and stability. <i>Geophysical Research Letters</i> , <b>2017</b> , 44, 1132-1140	4.9	29
76	Optimized detection of particulates from liquid samples in the aerosol phase: Focus on black carbon. <i>Aerosol Science and Technology</i> , <b>2017</b> , 51, 543-553	3.4	16
75	Top-of-atmosphere radiative forcing affected by brown carbon in the upper troposphere. <i>Nature Geoscience</i> , <b>2017</b> , 10, 486-489	18.3	114
74	In situ measurements of water uptake by black carbon-containing aerosol in wildfire plumes. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2017</b> , 122, 1086-1097	4.4	15
73	Fluorescence calibration method for single-particle aerosol fluorescence instruments. <i>Atmospheric Measurement Techniques</i> , <b>2017</b> , 10, 1755-1768	4	12
72	Airborne characterization of subsaturated aerosol hygroscopicity and dry refractive index from the surface to 6.5 km during the SEAC4RS campaign. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2016</b> , 121, 4188-4210	4.4	52
71	Ambient observations of sub-1.0 hygroscopic growth factor and (RH) values: Case studies from surface and airborne measurements. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2016</b> , 121, 661-677	4.4	18
70	Aerosol optical properties in the southeastern United States in summer [Part 1: Hygroscopic growth. <i>Atmospheric Chemistry and Physics</i> , <b>2016</b> , 16, 4987-5007	6.8	71
69	Aerosol optical properties in the southeastern United States in summer [Part 2: Sensitivity of aerosol optical depth to relative humidity and aerosol parameters. <i>Atmospheric Chemistry and Physics</i> , <b>2016</b> , 16, 5009-5019	6.8	33
68	Surface dimming by the 2013 Rim Fire simulated by a sectional aerosol model. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2016</b> , 121, 7079-7087	4.4	13
67	Agricultural fires in the southeastern U.S. during SEAC4RS: Emissions of trace gases and particles and evolution of ozone, reactive nitrogen, and organic aerosol. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2016</b> , 121, 7383-7414	4.4	71
66	A light-weight, high-sensitivity particle spectrometer for PM2.5 aerosol measurements. <i>Aerosol Science and Technology</i> , <b>2016</b> , 50, 88-99	3.4	42
65	Chamber catalogues of optical and fluorescent signatures distinguish bioaerosol classes. <i>Atmospheric Measurement Techniques</i> , <b>2016</b> , 9, 3283-3292	4	60
64	Airborne observations of regional variation in fluorescent aerosol across the United States. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2015</b> , 120, 1153-1170	4.4	68
63	Technique and theoretical approach for quantifying the hygroscopicity of black-carbon-containing aerosol using a single particle soot photometer. <i>Journal of Aerosol Science</i> , <b>2015</b> , 81, 110-126	4.3	34
62	Revealing important nocturnal and day-to-day variations in fire smoke emissions through a multiplatform inversion. <i>Geophysical Research Letters</i> , <b>2015</b> , 42, 3609-3618	4.9	54
61	Evolution of brown carbon in wildfire plumes. <i>Geophysical Research Letters</i> , <b>2015</b> , 42, 4623-4630	4.9	206

60	Brown carbon aerosol in the North American continental troposphere: sources, abundance, and radiative forcing. <i>Atmospheric Chemistry and Physics</i> , <b>2015</b> , 15, 7841-7858	6.8	74
59	Sources, seasonality, and trends of southeast US aerosol: an integrated analysis of surface, aircraft, and satellite observations with the GEOS-Chem chemical transport model. <i>Atmospheric Chemistry and Physics</i> , <b>2015</b> , 15, 10411-10433	6.8	168
58	In situ vertical profiles of aerosol extinction, mass, and composition over the southeast United States during SENEX and SEAC&sup&gt;4&lt;/sup&RS: observations of a modest aerosol enhancement aloft. <i>Atmospheric Chemistry and Physics</i> , <b>2015</b> , 15, 7085-7102	6.8	46
57	Global budget and radiative forcing of black carbon aerosol: Constraints from pole-to-pole (HIPPO) observations across the Pacific. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2014</b> , 119, 195-206	4.4	153
56	Modeling regional aerosol and aerosol precursor variability over California and its sensitivity to emissions and long-range transport during the 2010 CalNex and CARES campaigns. <i>Atmospheric Chemistry and Physics</i> , <b>2014</b> , 14, 10013-10060	6.8	49
55	Exploiting simultaneous observational constraints on mass and absorption to estimate the global direct radiative forcing of black carbon and brown carbon. <i>Atmospheric Chemistry and Physics</i> , <b>2014</b> , 14, 10989-11010	6.8	158
54	An observational perspective on the atmospheric impacts of alkyl and multifunctional nitrates on ozone and secondary organic aerosol. <i>Chemical Reviews</i> , <b>2013</b> , 113, 5848-70	68.1	147
53	Evaluation of a Perpendicular Inlet for Airborne Sampling of Interstitial Submicron Black-Carbon Aerosol. <i>Aerosol Science and Technology</i> , <b>2013</b> , 47, 1066-1072	3.4	10
52	Global-scale seasonally resolved black carbon vertical profiles over the Pacific. <i>Geophysical Research Letters</i> , <b>2013</b> , 40, 5542-5547	4.9	108
51	A High-Sensitivity Low-Cost Optical Particle Counter Design. <i>Aerosol Science and Technology</i> , <b>2013</b> , 47, 137-145	3.4	17
50	Black carbon aerosol size in snow. <i>Scientific Reports</i> , <b>2013</b> , 3, 1356	4.9	91
49	On the export of reactive nitrogen from Asia: NO&sub&gt;x&lt;/sub&gt; partitioning and effects on ozone. <i>Atmospheric Chemistry and Physics</i> , <b>2013</b> , 13, 4617-4630	6.8	13
48	Constraints on aerosol processes in climate models from vertically-resolved aircraft observations of black carbon. <i>Atmospheric Chemistry and Physics</i> , <b>2013</b> , 13, 5969-5986	6.8	64
47	Air quality implications of the Deepwater Horizon oil spill. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2012</b> , 109, 20280-5	11.5	59
46	CCN spectra, hygroscopicity, and droplet activation kinetics of secondary organic aerosol resulting from the 2010 Deepwater Horizon oil spill. <i>Environmental Science &amp; Technology</i> , <b>2012</b> , 46, 3093-100	10.3	30
45	Gasoline emissions dominate over diesel in formation of secondary organic aerosol mass. <i>Geophysical Research Letters</i> , <b>2012</b> , 39, n/a-n/a	4.9	163
44	Airborne and ground-based observations of a weekend effect in ozone, precursors, and oxidation products in the California South Coast Air Basin. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a		84
43	Evolution of aerosol properties impacting visibility and direct climate forcing in an ammonia-rich urban environment. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a		43

42	Ozone and alkyl nitrate formation from the Deepwater Horizon oil spill atmospheric emissions. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a		13
41	Airborne observations of methane emissions from rice cultivation in the Sacramento Valley of California. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a		48
40	Assessing recent measurement techniques for quantifying black carbon concentration in snow <b>2012</b> ,		6
39	Assessing Single Particle Soot Photometer and Integrating Sphere/Integrating Sandwich Spectrophotometer measurement techniques for quantifying black carbon concentration in snow. <i>Atmospheric Measurement Techniques</i> , <b>2012</b> , 5, 2581-2592	4	80
38	Atmospheric emissions from the Deepwater Horizon spill constrain air-water partitioning, hydrocarbon fate, and leak rate. <i>Geophysical Research Letters</i> , <b>2011</b> , 38, n/a-n/a	4.9	91
37	Characteristics of black carbon aerosol from a surface oil burn during the Deepwater Horizon oil spill. <i>Geophysical Research Letters</i> , <b>2011</b> , 38, n/a-n/a	4.9	25
36	Organic aerosol formation downwind from the Deepwater Horizon oil spill. <i>Science</i> , <b>2011</b> , 331, 1295-9	33.3	138
35	Global and regional effects of the photochemistry of CH <sub>3</sub> O <sub>2</sub> /NO <sub>2</sub> : evidence from ARCTAS. <i>Atmospheric Chemistry and Physics</i> , <b>2011</b> , 11, 4209-4219	6.8	41
34	Detailed comparisons of airborne formaldehyde measurements with box models during the 2006 INTEX-B and MILAGRO campaigns: potential evidence for significant impacts of unmeasured and multi-generation volatile organic carbon compounds. <i>Atmospheric Chemistry and Physics</i> , <b>2011</b> , 11, 11867-11894	6.8	32
33	Impact of organic nitrates on urban ozone production. <i>Atmospheric Chemistry and Physics</i> , <b>2011</b> , 11, 4085-4094	6.6	66
32	A high spatial resolution retrieval of NO <sub>2</sub> column densities from OMI: method and evaluation. <i>Atmospheric Chemistry and Physics</i> , <b>2011</b> , 11, 8543-8554	6.8	113
31	Impact of fuel quality regulation and speed reductions on shipping emissions: implications for climate and air quality. <i>Environmental Science &amp; Technology</i> , <b>2011</b> , 45, 9052-60	10.3	95
30	Total Peroxy Nitrates (PNs) in the atmosphere: the Thermal Dissociation-Laser Induced Fluorescence (TD-LIF) technique and comparisons to speciated PAN measurements. <i>Atmospheric Measurement Techniques</i> , <b>2010</b> , 3, 593-607	4	72
29	The Detection Efficiency of the Single Particle Soot Photometer. <i>Aerosol Science and Technology</i> , <b>2010</b> , 44, 612-628	3.4	136
28	Testing and improving OMI DOMINO tropospheric NO <sub>2</sub> using observations from the DANDELIONS and INTEX-B validation campaigns. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115,		90
27	Lightning-generated NO <sub>x</sub> seen by the Ozone Monitoring Instrument during NASA Tropical Composition, Cloud and Climate Coupling Experiment (TC4). <i>Journal of Geophysical Research</i> , <b>2010</b> , 115,		57
26	Nitrogen oxides and PAN in plumes from boreal fires during ARCTAS-B and their impact on ozone: an integrated analysis of aircraft and satellite observations. <i>Atmospheric Chemistry and Physics</i> , <b>2010</b> , 10, 9739-9760	6.8	188
25	The production and persistence of BONO <sub>2</sub> in the Mexico City plume. <i>Atmospheric Chemistry and Physics</i> , <b>2010</b> , 10, 7215-7229	6.8	51

24	Summertime buildup and decay of lightning NO <sub>x</sub> and aged thunderstorm outflow above North America. <i>Journal of Geophysical Research</i> , <b>2009</b> , 114,		29
23	A product study of the isoprene+NO <sub>3</sub> reaction. <i>Atmospheric Chemistry and Physics</i> , <b>2009</b> , 9, 4945-4956	6.8	74
22	Airborne observations of total RONO <sub>2</sub> : new constraints on the yield and lifetime of isoprene nitrates. <i>Atmospheric Chemistry and Physics</i> , <b>2009</b> , 9, 1451-1463	6.8	80
21	Observations of heterogeneous reactions between Asian pollution and mineral dust over the Eastern North Pacific during INTEX-B. <i>Atmospheric Chemistry and Physics</i> , <b>2009</b> , 9, 8283-8308	6.8	89
20	Validation of OMI tropospheric NO <sub>2</sub> observations during INTEX-B and application to constrain NO <sub>x</sub> emissions over the eastern United States and Mexico. <i>Atmospheric Environment</i> , <b>2008</b> , 42, 4480-4497	5.2	158
19	Comparison of tropospheric NO <sub>2</sub> from in situ aircraft measurements with near-real-time and standard product data from OMI. <i>Journal of Geophysical Research</i> , <b>2008</b> , 113,		108
18	Reactive nitrogen distribution and partitioning in the North American troposphere and lowermost stratosphere. <i>Journal of Geophysical Research</i> , <b>2007</b> , 112,		89
17	Measurement of HO <sub>2</sub> NO <sub>2</sub> in the free troposphere during the Intercontinental Chemical Transport Experiment North America 2004. <i>Journal of Geophysical Research</i> , <b>2007</b> , 112,		60
16	Observational constraints on the chemistry of isoprene nitrates over the eastern United States. <i>Journal of Geophysical Research</i> , <b>2007</b> , 112,		174
15	Surface and lightning sources of nitrogen oxides over the United States: Magnitudes, chemical evolution, and outflow. <i>Journal of Geophysical Research</i> , <b>2007</b> , 112,		257
14	Direct measurements of the convective recycling of the upper troposphere. <i>Science</i> , <b>2007</b> , 315, 816-20	33.3	101
13	Large upper tropospheric ozone enhancements above midlatitude North America during summer: In situ evidence from the IONS and MOZAIC ozone measurement network. <i>Journal of Geophysical Research</i> , <b>2006</b> , 111,		102
12	Solute dynamics in storm flow of the Ipswich River basin: effects of land use. <i>Biological Bulletin</i> , <b>2000</b> , 199, 219-21	1.5	2
11	High Temporal Resolution Satellite Observations of Fire Radiative Power Reveal Link Between Fire Behavior and Aerosol and Gas Emissions		3
10	A high spatial resolution retrieval of NO <sub>2</sub> column densities from OMI: method and evaluation		2
9	Exploiting simultaneous observational constraints on mass and absorption to estimate the global direct radiative forcing of black carbon and brown carbon		7
8	Aerosol optical properties in the southeastern United States in summer [Part 1: Hygroscopic growth		5
7	In situ vertical profiles of aerosol extinction, mass, and composition over the southeast United States during SENEX and SEAC <sup>4</sup> RS: observations of a modest aerosol enhancement aloft		1

6	Aerosol optical properties in the southeastern United States in summer [Part 2: Sensitivity of aerosol optical depth to relative humidity and aerosol parameters]	6
5	Brown carbon aerosol in the North American continental troposphere: sources, abundance, and radiative forcing	5
4	Airborne observations of total RONO <sub>2</sub> : new constraints on the yield and lifetime of isoprene nitrates	2
3	A product study of the isoprene+NO <sub>3</sub> reaction	4
2	Alkyl nitrate production and persistence in the Mexico City Plume	1
1	Total peroxy nitrates (PNs) in the atmosphere: the thermal dissociation-laser induced fluorescence (TD-LIF) technique and comparisons to speciated PAN measurements	1