

Anne E Perring

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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	Surface and lightning sources of nitrogen oxides over the United States: Magnitudes, chemical evolution, and outflow. <i>Journal of Geophysical Research</i> , 2007 , 112,		257
94	Evolution of brown carbon in wildfire plumes. <i>Geophysical Research Letters</i> , 2015 , 42, 4623-4630	4.9	206
93	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> , 2010 , 10, 9739-9760	6.8	188
92	Observational constraints on the chemistry of isoprene nitrates over the eastern United States. <i>Journal of Geophysical Research</i> , 2007 , 112,		174
91	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> , 2015 , 15, 10411-10433	6.8	168
90	Gasoline emissions dominate over diesel in formation of secondary organic aerosol mass. <i>Geophysical Research Letters</i> , 2012 , 39, n/a-n/a	4.9	163
89	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> , 2014 , 14, 10989-11010	6.8	158
88	Validation of OMI tropospheric NO ₂ observations during INTEX-B and application to constrain NO _x emissions over the eastern United States and Mexico. <i>Atmospheric Environment</i> , 2008 , 42, 4480-4497	5.2	158
87	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> , 2014 , 119, 195-206	4.4	153
86	An observational perspective on the atmospheric impacts of alkyl and multifunctional nitrates on ozone and secondary organic aerosol. <i>Chemical Reviews</i> , 2013 , 113, 5848-70	68.1	147
85	Organic aerosol formation downwind from the Deepwater Horizon oil spill. <i>Science</i> , 2011 , 331, 1295-9	33.3	138
84	The Detection Efficiency of the Single Particle Soot Photometer. <i>Aerosol Science and Technology</i> , 2010 , 44, 612-628	3.4	136
83	Top-of-atmosphere radiative forcing affected by brown carbon in the upper troposphere. <i>Nature Geoscience</i> , 2017 , 10, 486-489	18.3	114
82	A high spatial resolution retrieval of NO ₂ column densities from OMI: method and evaluation. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 8543-8554	6.8	113
81	Global-scale seasonally resolved black carbon vertical profiles over the Pacific. <i>Geophysical Research Letters</i> , 2013 , 40, 5542-5547	4.9	108
80	Comparison of tropospheric NO ₂ from in situ aircraft measurements with near-real-time and standard product data from OMI. <i>Journal of Geophysical Research</i> , 2008 , 113,		108
79	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> , 2006 , 111,		102

78	Direct measurements of the convective recycling of the upper troposphere. <i>Science</i> , 2007 , 315, 816-20	33.3	101
77	Impact of fuel quality regulation and speed reductions on shipping emissions: implications for climate and air quality. <i>Environmental Science & Technology</i> , 2011 , 45, 9052-60	10.3	95
76	Black carbon aerosol size in snow. <i>Scientific Reports</i> , 2013 , 3, 1356	4.9	91
75	Atmospheric emissions from the Deepwater Horizon spill constrain air-water partitioning, hydrocarbon fate, and leak rate. <i>Geophysical Research Letters</i> , 2011 , 38, n/a-n/a	4.9	91
74	Testing and improving OMI DOMINO tropospheric NO ₂ using observations from the DANDELIONS and INTEX-B validation campaigns. <i>Journal of Geophysical Research</i> , 2010 , 115,		90
73	Observations of heterogeneous reactions between Asian pollution and mineral dust over the Eastern North Pacific during INTEX-B. <i>Atmospheric Chemistry and Physics</i> , 2009 , 9, 8283-8308	6.8	89
72	Reactive nitrogen distribution and partitioning in the North American troposphere and lowermost stratosphere. <i>Journal of Geophysical Research</i> , 2007 , 112,		89
71	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> , 2012 , 117, n/a-n/a		84
70	Exploring the observational constraints on the simulation of brown carbon. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 635-653	6.8	80
69	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> , 2012 , 5, 2581-2592	4	80
68	Airborne observations of total RONO ₂ : new constraints on the yield and lifetime of isoprene nitrates. <i>Atmospheric Chemistry and Physics</i> , 2009 , 9, 1451-1463	6.8	80
67	Brown carbon aerosol in the North American continental troposphere: sources, abundance, and radiative forcing. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 7841-7858	6.8	74
66	A product study of the isoprene+NO ₃ reaction. <i>Atmospheric Chemistry and Physics</i> , 2009 , 9, 4945-4956	6.8	74
65	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> , 2010 , 3, 593-607	4	72
64	Aerosol optical properties in the southeastern United States in summer [Part 1: Hygroscopic growth. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 4987-5007	6.8	71
63	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> , 2016 , 121, 7383-7414	4.4	71
62	Airborne observations of regional variation in fluorescent aerosol across the United States. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015 , 120, 1153-1170	4.4	68
61	Real-time sensing of bioaerosols: Review and current perspectives. <i>Aerosol Science and Technology</i> , 2020 , 54, 465-495	3.4	68

60	Impact of organic nitrates on urban ozone production. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 4085-4094	6.8	66
59	Constraints on aerosol processes in climate models from vertically-resolved aircraft observations of black carbon. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 5969-5986	6.8	64
58	Measurement of HO ₂ NO ₂ in the free troposphere during the Intercontinental Chemical Transport Experiment North America 2004. <i>Journal of Geophysical Research</i> , 2007 , 112,		60
57	Chamber catalogues of optical and fluorescent signatures distinguish bioaerosol classes. <i>Atmospheric Measurement Techniques</i> , 2016 , 9, 3283-3292	4	60
56	Air quality implications of the Deepwater Horizon oil spill. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 20280-5	11.5	59
55	Lightning-generated NO _x seen by the Ozone Monitoring Instrument during NASA's Tropical Composition, Cloud and Climate Coupling Experiment (TC4). <i>Journal of Geophysical Research</i> , 2010 , 115,		57
54	Revealing important nocturnal and day-to-day variations in fire smoke emissions through a multiplatform inversion. <i>Geophysical Research Letters</i> , 2015 , 42, 3609-3618	4.9	54
53	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> , 2016 , 121, 4188-4210	4.4	52
52	The production and persistence of HONO in the Mexico City plume. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 7215-7229	6.8	51
51	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> , 2014 , 14, 10013-10060	6.8	49
50	Airborne observations of methane emissions from rice cultivation in the Sacramento Valley of California. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		48
49	In situ vertical profiles of aerosol extinction, mass, and composition over the southeast United States during SENEX and SEAC4RS: observations of a modest aerosol enhancement aloft. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 7085-7102	6.8	46
48	Evolution of aerosol properties impacting visibility and direct climate forcing in an ammonia-rich urban environment. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		43
47	A light-weight, high-sensitivity particle spectrometer for PM _{2.5} aerosol measurements. <i>Aerosol Science and Technology</i> , 2016 , 50, 88-99	3.4	42
46	Global and regional effects of the photochemistry of CH ₃ O ₂ NO ₂ : evidence from ARCTAS. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 4209-4219	6.8	41
45	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> , 2015 , 81, 110-126	4.3	34
44	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> , 2016 , 16, 5009-5019	6.8	33
43	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> , 2011 , 11, 11867-11894	6.8	32

42	CCN spectra, hygroscopicity, and droplet activation kinetics of secondary organic aerosol resulting from the 2010 Deepwater Horizon oil spill. <i>Environmental Science & Technology</i> , 2012 , 46, 3093-100	10.3	30
41	Aircraft measurements of black carbon vertical profiles show upper tropospheric variability and stability. <i>Geophysical Research Letters</i> , 2017 , 44, 1132-1140	4.9	29
40	Summertime buildup and decay of lightning NOx and aged thunderstorm outflow above North America. <i>Journal of Geophysical Research</i> , 2009 , 114,		29
39	Characteristics of black carbon aerosol from a surface oil burn during the Deepwater Horizon oil spill. <i>Geophysical Research Letters</i> , 2011 , 38, n/a-n/a	4.9	25
38	Estimating Source Region Influences on Black Carbon Abundance, Microphysics, and Radiative Effect Observed Over South Korea. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018 , 123, 13,527	4.4	20
37	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> , 2016 , 121, 661-677	4.4	18
36	A High-Sensitivity Low-Cost Optical Particle Counter Design. <i>Aerosol Science and Technology</i> , 2013 , 47, 137-145	3.4	17
35	Optimized detection of particulates from liquid samples in the aerosol phase: Focus on black carbon. <i>Aerosol Science and Technology</i> , 2017 , 51, 543-553	3.4	16
34	In situ measurements of water uptake by black carbon-containing aerosol in wildfire plumes. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017 , 122, 1086-1097	4.4	15
33	An intercomparison of aerosol absorption measurements conducted during the SEAC4RS campaign. <i>Aerosol Science and Technology</i> , 2018 , 52, 1012-1027	3.4	14
32	Surface dimming by the 2013 Rim Fire simulated by a sectional aerosol model. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016 , 121, 7079-7087	4.4	13
31	Ozone and alkyl nitrate formation from the Deepwater Horizon oil spill atmospheric emissions. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		13
30	On the export of reactive nitrogen from Asia: NO _x partitioning and effects on ozone. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 4617-4630	6.8	13
29	Fluorescence calibration method for single-particle aerosol fluorescence instruments. <i>Atmospheric Measurement Techniques</i> , 2017 , 10, 1755-1768	4	12
28	High Temporal Resolution Satellite Observations of Fire Radiative Power Reveal Link Between Fire Behavior and Aerosol and Gas Emissions. <i>Geophysical Research Letters</i> , 2020 , 47, e2020GL090707	4.9	11
27	Preliminary results from the FARCE 2015 campaign: multidisciplinary study of the forest-gas-aerosol-cloud system on the tropical island of La Réunion. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 10591-10618	6.8	11
26	Understanding and improving model representation of aerosol optical properties for a Chinese haze event measured during KORUS-AQ. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 6455-6478	6.8	10
25	Evaluation of a Perpendicular Inlet for Airborne Sampling of Interstitial Submicron Black-Carbon Aerosol. <i>Aerosol Science and Technology</i> , 2013 , 47, 1066-1072	3.4	10

24	Global aerosol modeling with MADE3 (v3.0) in EMAC (based on v2.53): model description and evaluation. <i>Geoscientific Model Development</i> , 2019 , 12, 541-579	6.3	9
23	Exploiting simultaneous observational constraints on mass and absorption to estimate the global direct radiative forcing of black carbon and brown carbon		7
22	Model-measurement consistency and limits of bioaerosol abundance over the continental United States. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 13859-13870	6.8	7
21	Assessing recent measurement techniques for quantifying black carbon concentration in snow 2012 ,		6
20	Aerosol optical properties in the southeastern United States in summer [Part 2: Sensitivity of aerosol optical depth to relative humidity and aerosol parameters		6
19	Aerosol optical properties in the southeastern United States in summer [Part 1: Hygroscopic growth		5
18	Brown carbon aerosol in the North American continental troposphere: sources, abundance, and radiative forcing		5
17	A product study of the isoprene+NO ₃ reaction		4
16	Comparison of Modeled and Measured Ice Nucleating Particle Composition in a Cirrus Cloud. <i>Journals of the Atmospheric Sciences</i> , 2019 , 76, 1015-1029	2.1	3
15	High Temporal Resolution Satellite Observations of Fire Radiative Power Reveal Link Between Fire Behavior and Aerosol and Gas Emissions		3
14	Global-scale constraints on light-absorbing anthropogenic iron oxide aerosols. <i>Npj Climate and Atmospheric Science</i> , 2021 , 4,	8	3
13	Solute dynamics in storm flow of the Ipswich River basin: effects of land use. <i>Biological Bulletin</i> , 2000 , 199, 219-21	1.5	2
12	A high spatial resolution retrieval of NO ₂ column densities from OMI: method and evaluation		2
11	Airborne observations of total RONO ₂ : new constraints on the yield and lifetime of isoprene nitrates		2
10	Drivers of the fungal spore bioaerosol budget: observational analysis and global modeling. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 4381-4401	6.8	2
9	Temporal and spatial variations of aerosol optical properties over the Korean peninsula during KORUS-AQ. <i>Atmospheric Environment</i> , 2021 , 254, 118301	5.3	2
8	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> , 2021 , 773, 145531	10.2	2
7	Airborne Emission Rate Measurements Validate Remote Sensing Observations and Emission Inventories of Western U.S. Wildfires.. <i>Environmental Science & Technology</i> , 2022 ,	10.3	2

6	Model-Measurement Consistency and Limits of Bioaerosol Abundance Over the Continental United States 2019 ,		1
5	Limited impact of sulfate-driven chemistry on black carbon aerosol aging in power plant plumes. <i>AIMS Environmental Science</i> , 2018 , 5, 195-215	1.9	1
4	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
3	Alkyl nitrate production and persistence in the Mexico City Plume		1
2	Total peroxy nitrates (PNs) in the atmosphere: the thermal dissociation-laser induced fluorescence (TD-LIF) technique and comparisons to speciated PAN measurements		1
1	Understanding and improving model representation of aerosol optical properties for a Chinese haze event measured during KORUS-AQ 2019 ,		1