Nicola Blake

List of Publications by Year in Descending Order

59 papers	2,458 citations	30 h-index	48 g-index
59 ext. papers	2,727 ext. citations	6.7 avg, IF	3.93 L-index

#	Paper	IF	Citations
59	Observations of atmospheric oxidation and ozone production in South Korea. *Atmospheric Environment*, **2022**, 269, 118854	5.3	1
58	Observation-based modeling of ozone chemistry in the Seoul metropolitan area during the Korea-United States Air Quality Study (KORUS-AQ). *Elementa*, **2020**, 8,	3.6	19
57	Characterization, sources and reactivity of volatile organic compounds (VOCs) in Seoul and surrounding regions during KORUS-AQ. *Elementa*, **2020**, 8,	3.6	22
56	Hazardous Air Pollutants in Fresh and Aged Western US Wildfire Smoke and Implications for Long-Term Exposure. *Environmental Science & Technology*, **2020**, 54, 11838-11847	10.3	26
55	Source Contributions to Carbon Monoxide Concentrations During KORUS-AQ Based on CAM-chem Model Applications. *Journal of Geophysical Research D: Atmospheres*, **2019**, 124, 2796-2822	4.4	12
54	Biomass Burning Unlikely to Account for Missing Source of Carbonyl Sulfide. *Geophysical Research Letters*, **2019**, 46, 14912-14920	4.9	16
53	Wintertime Overnight NOx Removal in a Southeastern United States Coal-fired Power Plant Plume: A Model for Understanding Winter NOx Processing and its Implications. *Journal of Geophysical Research D: Atmospheres*, **2018**, 123, 1412-1425	4.4	13
52	Ambient Nonmethane Hydrocarbon Levels Along Colorado's Northern Front Range: Acute and Chronic Health Risks. *Environmental Science & Technology*, **2018**, 52, 4514-4525	10.3	34
51	Sources and Secondary Production of Organic Aerosols in the Northeastern United States during WINTER. *Journal of Geophysical Research D: Atmospheres*, **2018**, 123, 7771-7796	4.4	57
50	Using an Inverse Model to Reconcile Differences in Simulated and Observed Global Ethane Concentrations and Trends Between 2008 and 2014. *Journal of Geophysical Research D: Atmospheres*, **2018**, 123, 11,262	4.4	11
49	Formaldehyde in the Tropical Western Pacific: Chemical sources and sinks, convective transport, and representation in CAM-Chem and the CCMI models. *Journal of Geophysical Research D: Atmospheres*, **2017**, 122, 11201-11226	4.4	21
48	Characterization of carbon monoxide, methane and nonmethane hydrocarbons in emerging cities of Saudi Arabia and Pakistan and in Singapore. *Journal of Atmospheric Chemistry*, **2017**, 74, 87-113	3.2	15
47	BrO and inferred Br_{<i>y</i>} profiles over the western Pacific: relevance of inorganic bromine sources and a Br_{<i>y</i>} minimum in the aged tropical tropopause layer. *Atmospheric Chemistry and Physics*, **2017**, 17, 15245-15270	6.8	22
46	Airborne measurements of BrO and the sum of HOBr and Br2 over the Tropical West Pacific from 1 to 15 km during the CONvective TRansport of Active Species in the Tropics (CONTRAST) experiment. *Journal of Geophysical Research D: Atmospheres*, **2016**, 121, 12,560-12,578	4.4	15
45	Convective transport and scavenging of peroxides by thunderstorms observed over the central U.S. during DC3. *Journal of Geophysical Research D: Atmospheres*, **2016**, 121, 4272-4295	4.4	20
44	Origin of oxidized mercury in the summertime free troposphere over the southeastern US. *Atmospheric Chemistry and Physics*, **2016**, 16, 1511-1530	6.8	56
43	Using stable isotopes of hydrogen to quantify biogenic and thermogenic atmospheric methane sources: A case study from the Colorado Front Range. *Geophysical Research Letters*, **2016**, 43, 11,462	4.9	23

42	Wet scavenging of soluble gases in DC3 deep convective storms using WRF-Chem simulations and aircraft observations. *Journal of Geophysical Research D: Atmospheres*, **2016**, 121, 4233-4257	4.4	24
41	A pervasive role for biomass burning in tropical high ozone/low water structures. *Nature Communications*, **2016**, 7, 10267	17.4	27
40	Constraints from observations and modeling on atmosphere–surface exchange of mercury in eastern North America. *Elementa*, **2016**, 4,	3.6	4
39	Representation of the Community Earth System Model (CESM1) CAM4-chem within the Chemistry-Climate Model Initiative (CCMI). *Geoscientific Model Development*, **2016**, 9, 1853-1890	6.3	94
38	An observationally constrained evaluation of the oxidative capacity in the tropical western Pacific troposphere. *Journal of Geophysical Research D: Atmospheres*, **2016**, 121, 7461-7488	4.4	17
37	Airborne observations of mercury emissions from the Chicago/Gary urban/industrial area during the 2013 NOMADSS campaign. *Atmospheric Environment*, **2016**, 145, 415-423	5.3	6
36	Upper tropospheric ozone production from lightning NOx-impacted convection: Smoke ingestion case study from the DC3 campaign. *Journal of Geophysical Research D: Atmospheres*, **2015**, 120, 2505-2523	4.4	68
35	Oxidation of mercury by bromine in the subtropical Pacific free troposphere. *Geophysical Research Letters*, **2015**, 42, 10,494	4.9	51
34	Air quality in Mecca and surrounding holy places in Saudi Arabia during Hajj: initial survey. *Environmental Science & Technology*, **2014**, 48, 8529-37	10.3	30
33	Evidence of mixing between polluted convective outflow and stratospheric air in the upper troposphere during DC3. *Journal of Geophysical Research D: Atmospheres*, **2014**, 119, 11,477-11,491	4.4	14
32	A coupled model of the global cycles of carbonyl sulfide and CO2: A possible new window on the carbon cycle. *Journal of Geophysical Research G: Biogeosciences*, **2013**, 118, 842-852	3.7	113
31	Long-term decline of global atmospheric ethane concentrations and implications for methane. *Nature*, **2012**, 488, 490-4	50.4	138
30	Characterization of trace gases measured over Alberta oil sands mining operations: 76 speciated C₂– C₁₀ volatile organic compounds (VOCs), CO₂, CH₄, CO, NO, NO₂, NO_y, O₃ and SO₂ *Atmospheric Chemistry and Physics*, **2010**, 10, 11931-11954	6.8	172
29	Characterization of volatile organic compounds (VOCs) in Asian and north American pollution plumes during INTEX-B: identification of specific Chinese air mass tracers. *Atmospheric Chemistry and Physics*, **2009**, 9, 5371-5388	6.8	51
28	Characteristics of the atmospheric CO2 signal as observed over the conterminous United States during INTEX-NA. *Journal of Geophysical Research*, **2008**, 113,		24
27	Carbonyl sulfide (OCS): Large-scale distributions over North America during INTEX-NA and relationship to CO2. *Journal of Geophysical Research*, **2008**, 113,		28
26	Role of convection in redistributing formaldehyde to the upper troposphere over North America and the North Atlantic during the summer 2004 INTEX campaign. *Journal of Geophysical Research*, **2008**, 113,		31
25	Strong evidence for negligible methyl chloroform (CH3CCl3) emissions from biomass burning. *Geophysical Research Letters*, **2007**, 34,	4.9	5

24	Late-spring increase of trans-Pacific pollution transport in the upper troposphere. *Geophysical Research Letters*, **2006**, 33, n/a-n/a	4.9	32
23	Halogen-driven low-altitude O3 and hydrocarbon losses in spring at northern high latitudes. *Journal of Geophysical Research*, **2006**, 111,		35
22	Atomic chlorine concentrations derived from ethane and hydroxyl measurements over the equatorial Pacific Ocean: Implication for dimethyl sulfide and bromine monoxide. *Journal of Geophysical Research*, **2005**, 110,		59
21	Long-term decrease in the global atmospheric burden of tetrachloroethene (C2Cl4). *Geophysical Research Letters*, **2004**, 31,	4.9	34
20	Carbonyl sulfide and carbon disulfide: Large-scale distributions over the western Pacific and emissions from Asia during TRACE-P. *Journal of Geophysical Research*, **2004**, 109,		48
19	Airborne sampling of aerosol particles: Comparison between surface sampling at Christmas Island and P-3 sampling during PEM-Tropics B. *Journal of Geophysical Research*, **2003**, 108, PEM 2-1		15
18	BIBLE A whole-air sampling as a window on Asian biogeochemistry. *Journal of Geophysical Research*, **2003**, 108, n/a-n/a		4
17	Latitudinal, vertical, and seasonal variations of C1-C4 alkyl nitrates in the troposphere over the Pacific Ocean during PEM-Tropics A and B: Oceanic and continental sources. *Journal of Geophysical Research*, **2003**, 108,		71
16	Seasonal variations of C2□4 nonmethane hydrocarbons and C1□4 alkyl nitrates at the Summit research station in Greenland. *Journal of Geophysical Research*, **2003**, 108,		57
15	The seasonal evolution of NMHCs and light alkyl nitrates at middle to high northern latitudes during TOPSE. *Journal of Geophysical Research*, **2003**, 108,		46
14	Ozone depletion events observed in the high latitude surface layer during the TOPSE aircraft program. *Journal of Geophysical Research*, **2003**, 108, TOP 4-1		67
13	Tunable diode laser measurements of formaldehyde during the TOPSE 2000 study: Distributions, trends, and model comparisons. *Journal of Geophysical Research*, **2003**, 108,		53
12	Springtime photochemistry at northern mid and high latitudes. *Journal of Geophysical Research*, **2003**, 108,		40
11	Photochemical production and evolution of selected C2□5 alkyl nitrates in tropospheric air influenced by Asian outflow. *Journal of Geophysical Research*, **2003**, 108,		47
10	NMHCs and halocarbons in Asian continental outflow during the Transport and Chemical Evolution over the Pacific (TRACE-P) Field Campaign: Comparison With PEM-West B. *Journal of Geophysical Research*, **2003**, 108,		154
9	Dimethyl disulfide (DMDS) and dimethyl sulfide (DMS) emissions from biomass burning in Australia. *Geophysical Research Letters*, **2003**, 30,	4.9	50
8	Airborne tunable diode laser measurements of formaldehyde during TRACE-P: Distributions and box model comparisons. *Journal of Geophysical Research*, **2003**, 108,		61
7	Intercontinental transport of pollution manifested in the variability and seasonal trend of springtime O3 at northern middle and high latitudes. *Journal of Geophysical Research*, **2003**, 108,		19

6	A biomass burning source of C1–C4 alkyl nitrates. *Geophysical Research Letters*, **2002**, 29, 21-1-21-4	4.9	31
5	Formaldehyde over the central Pacific during PEM-Tropics B. *Journal of Geophysical Research*, **2001**, 106, 32717-32731		25
4	Large-scale latitudinal and vertical distributions of NMHCs and selected halocarbons in the troposphere over the Pacific Ocean during the March-April 1999 Pacific Exploratory Mission (PEM-Tropics B). *Journal of Geophysical Research*, **2001**, 106, 32627-32644		58
3	Reactive nitrogen budget during the NASA SONEX Mission. *Geophysical Research Letters*, **1999**, 26, 3057-3060	4.9	50
2	Three-dimensional distribution of nonmenthane hydrocarbons and halocarbons over the northwestern Pacific during the 1991 Pacific Exploratory Mission (PEM-West A). *Journal of Geophysical Research*, **1996**, 101, 1763-1778		121
1	Origin of oxidized mercury in the summertime free troposphere over the southeastern US		1