

# Nicola Blake

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/6176107/nicola-blake-publications-by-citations.pdf>

**Version:** 2024-04-29

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Characterization of trace gases measured over Alberta oil sands mining operations: 76 speciated C <sub>1</sub> -C <sub>10</sub> volatile organic compounds (VOCs), CO <sub>2</sub> , CH <sub>4</sub> , CO, NO, NO <sub>2</sub> , 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. <i>Journal of Geophysical Research</i> , <b>2003</b> , 108,	6.8	172
58	Long-term decline of global atmospheric ethane concentrations and implications for methane. <i>Nature</i> , <b>2012</b> , 488, 490-4	50.4	138
56	Three-dimensional distribution of nonmethane hydrocarbons and halocarbons over the northwestern Pacific during the 1991 Pacific Exploratory Mission (PEM-West A). <i>Journal of Geophysical Research</i> , <b>1996</b> , 101, 1763-1778		121
55	A coupled model of the global cycles of carbonyl sulfide and CO <sub>2</sub> : A possible new window on the carbon cycle. <i>Journal of Geophysical Research G: Biogeosciences</i> , <b>2013</b> , 118, 842-852	3.7	113
54	Representation of the Community Earth System Model (CESM1) CAM4-chem within the Chemistry-Climate Model Initiative (CCMI). <i>Geoscientific Model Development</i> , <b>2016</b> , 9, 1853-1890	6.3	94
53	Latitudinal, vertical, and seasonal variations of C <sub>1</sub> -C <sub>4</sub> alkyl nitrates in the troposphere over the Pacific Ocean during PEM-Tropics A and B: Oceanic and continental sources. <i>Journal of Geophysical Research</i> , <b>2003</b> , 108,		71
52	Upper tropospheric ozone production from lightning NO <sub>x</sub> -impacted convection: Smoke ingestion case study from the DC3 campaign. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2015</b> , 120, 2505-2523	4.4	68
51	Ozone depletion events observed in the high latitude surface layer during the TOPSE aircraft program. <i>Journal of Geophysical Research</i> , <b>2003</b> , 108, TOP 4-1		67
50	Airborne tunable diode laser measurements of formaldehyde during TRACE-P: Distributions and box model comparisons. <i>Journal of Geophysical Research</i> , <b>2003</b> , 108,		61
49	Atomic chlorine concentrations derived from ethane and hydroxyl measurements over the equatorial Pacific Ocean: Implication for dimethyl sulfide and bromine monoxide. <i>Journal of Geophysical Research</i> , <b>2005</b> , 110,		59
48	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). <i>Journal of Geophysical Research</i> , <b>2001</b> , 106, 32627-32644		58
47	Sources and Secondary Production of Organic Aerosols in the Northeastern United States during WINTER. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2018</b> , 123, 7771-7796	4.4	57
46	Seasonal variations of C <sub>2</sub> -C <sub>4</sub> nonmethane hydrocarbons and C <sub>1</sub> -C <sub>4</sub> alkyl nitrates at the Summit research station in Greenland. <i>Journal of Geophysical Research</i> , <b>2003</b> , 108,		57
45	Origin of oxidized mercury in the summertime free troposphere over the southeastern US. <i>Atmospheric Chemistry and Physics</i> , <b>2016</b> , 16, 1511-1530	6.8	56
44	Tunable diode laser measurements of formaldehyde during the TOPSE 2000 study: Distributions, trends, and model comparisons. <i>Journal of Geophysical Research</i> , <b>2003</b> , 108,		53
43	Oxidation of mercury by bromine in the subtropical Pacific free troposphere. <i>Geophysical Research Letters</i> , <b>2015</b> , 42, 10,494	4.9	51

42	Characterization of volatile organic compounds (VOCs) in Asian and north American pollution plumes during INTEX-B: identification of specific Chinese air mass tracers. <i>Atmospheric Chemistry and Physics</i> , <b>2009</b> , 9, 5371-5388	6.8	51
41	Dimethyl disulfide (DMDS) and dimethyl sulfide (DMS) emissions from biomass burning in Australia. <i>Geophysical Research Letters</i> , <b>2003</b> , 30,	4.9	50
40	Reactive nitrogen budget during the NASA SONEX Mission. <i>Geophysical Research Letters</i> , <b>1999</b> , 26, 3057-3060	4.0	50
39	Carbonyl sulfide and carbon disulfide: Large-scale distributions over the western Pacific and emissions from Asia during TRACE-P. <i>Journal of Geophysical Research</i> , <b>2004</b> , 109,		48
38	Photochemical production and evolution of selected C <sub>2</sub> -C <sub>5</sub> alkyl nitrates in tropospheric air influenced by Asian outflow. <i>Journal of Geophysical Research</i> , <b>2003</b> , 108,		47
37	The seasonal evolution of NMHCs and light alkyl nitrates at middle to high northern latitudes during TOPSE. <i>Journal of Geophysical Research</i> , <b>2003</b> , 108,		46
36	Springtime photochemistry at northern mid and high latitudes. <i>Journal of Geophysical Research</i> , <b>2003</b> , 108,		40
35	Halogen-driven low-altitude O <sub>3</sub> and hydrocarbon losses in spring at northern high latitudes. <i>Journal of Geophysical Research</i> , <b>2006</b> , 111,		35
34	Ambient Nonmethane Hydrocarbon Levels Along Colorado's Northern Front Range: Acute and Chronic Health Risks. <i>Environmental Science &amp; Technology</i> , <b>2018</b> , 52, 4514-4525	10.3	34
33	Long-term decrease in the global atmospheric burden of tetrachloroethene (C <sub>2</sub> Cl <sub>4</sub> ). <i>Geophysical Research Letters</i> , <b>2004</b> , 31,	4.9	34
32	Late-spring increase of trans-Pacific pollution transport in the upper troposphere. <i>Geophysical Research Letters</i> , <b>2006</b> , 33, n/a-n/a	4.9	32
31	Role of convection in redistributing formaldehyde to the upper troposphere over North America and the North Atlantic during the summer 2004 INTEX campaign. <i>Journal of Geophysical Research</i> , <b>2008</b> , 113,		31
30	A biomass burning source of C <sub>1</sub> -C <sub>4</sub> alkyl nitrates. <i>Geophysical Research Letters</i> , <b>2002</b> , 29, 21-1-21-4	4.9	31
29	Air quality in Mecca and surrounding holy places in Saudi Arabia during Hajj: initial survey. <i>Environmental Science &amp; Technology</i> , <b>2014</b> , 48, 8529-37	10.3	30
28	Carbonyl sulfide (OCS): Large-scale distributions over North America during INTEX-NA and relationship to CO <sub>2</sub> . <i>Journal of Geophysical Research</i> , <b>2008</b> , 113,		28
27	A pervasive role for biomass burning in tropical high ozone/low water structures. <i>Nature Communications</i> , <b>2016</b> , 7, 10267	17.4	27
26	Hazardous Air Pollutants in Fresh and Aged Western US Wildfire Smoke and Implications for Long-Term Exposure. <i>Environmental Science &amp; Technology</i> , <b>2020</b> , 54, 11838-11847	10.3	26
25	Formaldehyde over the central Pacific during PEM-Tropics B. <i>Journal of Geophysical Research</i> , <b>2001</b> , 106, 32717-32731		25

24	Wet scavenging of soluble gases in DC3 deep convective storms using WRF-Chem simulations and aircraft observations. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2016</b> , 121, 4233-4257	4.4	24
23	Characteristics of the atmospheric CO <sub>2</sub> signal as observed over the conterminous United States during INTEX-NA. <i>Journal of Geophysical Research</i> , <b>2008</b> , 113,		24
22	Using stable isotopes of hydrogen to quantify biogenic and thermogenic atmospheric methane sources: A case study from the Colorado Front Range. <i>Geophysical Research Letters</i> , <b>2016</b> , 43, 11,462	4.9	23
21	BrO and inferred Br profiles over the western Pacific: relevance of inorganic bromine sources and a Br minimum in the aged tropical tropopause layer. <i>Atmospheric Chemistry and Physics</i> , <b>2017</b> , 17, 15245-15270	6.8	22
20	Characterization, sources and reactivity of volatile organic compounds (VOCs) in Seoul and surrounding regions during KORUS-AQ. <i>Elementa</i> , <b>2020</b> , 8,	3.6	22
19	Formaldehyde in the Tropical Western Pacific: Chemical sources and sinks, convective transport, and representation in CAM-Chem and the CCM1 models. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2017</b> , 122, 11201-11226	4.4	21
18	Convective transport and scavenging of peroxides by thunderstorms observed over the central U.S. during DC3. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2016</b> , 121, 4272-4295	4.4	20
17	Intercontinental transport of pollution manifested in the variability and seasonal trend of springtime O <sub>3</sub> at northern middle and high latitudes. <i>Journal of Geophysical Research</i> , <b>2003</b> , 108,		19
16	Observation-based modeling of ozone chemistry in the Seoul metropolitan area during the Korea-United States Air Quality Study (KORUS-AQ). <i>Elementa</i> , <b>2020</b> , 8,	3.6	19
15	An observationally constrained evaluation of the oxidative capacity in the tropical western Pacific troposphere. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2016</b> , 121, 7461-7488	4.4	17
14	Biomass Burning Unlikely to Account for Missing Source of Carbonyl Sulfide. <i>Geophysical Research Letters</i> , <b>2019</b> , 46, 14912-14920	4.9	16
13	Airborne measurements of BrO and the sum of HOBr and Br <sub>2</sub> over the Tropical West Pacific from 1 to 15 km during the CONvective TRANsport of Active Species in the Tropics (CONTRAST) experiment. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2016</b> , 121, 12,560-12,578	4.4	15
12	Characterization of carbon monoxide, methane and nonmethane hydrocarbons in emerging cities of Saudi Arabia and Pakistan and in Singapore. <i>Journal of Atmospheric Chemistry</i> , <b>2017</b> , 74, 87-113	3.2	15
11	Airborne sampling of aerosol particles: Comparison between surface sampling at Christmas Island and P-3 sampling during PEM-Tropics B. <i>Journal of Geophysical Research</i> , <b>2003</b> , 108, PEM 2-1		15
10	Evidence of mixing between polluted convective outflow and stratospheric air in the upper troposphere during DC3. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2014</b> , 119, 11,477-11,491	4.4	14
9	Wintertime Overnight NO <sub>x</sub> Removal in a Southeastern United States Coal-fired Power Plant Plume: A Model for Understanding Winter NO <sub>x</sub> Processing and its Implications. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2018</b> , 123, 1412-1425	4.4	13
8	Source Contributions to Carbon Monoxide Concentrations During KORUS-AQ Based on CAM-chem Model Applications. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2019</b> , 124, 2796-2822	4.4	12
7	Using an Inverse Model to Reconcile Differences in Simulated and Observed Global Ethane Concentrations and Trends Between 2008 and 2014. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2018</b> , 123, 11,262	4.4	11

6	Airborne observations of mercury emissions from the Chicago/Gary urban/industrial area during the 2013 NOMADSS campaign. <i>Atmospheric Environment</i> , <b>2016</b> , 145, 415-423	5.3	6
5	Strong evidence for negligible methyl chloroform (CH <sub>3</sub> CCl <sub>3</sub> ) emissions from biomass burning. <i>Geophysical Research Letters</i> , <b>2007</b> , 34,	4.9	5
4	BIBLE A whole-air sampling as a window on Asian biogeochemistry. <i>Journal of Geophysical Research</i> , <b>2003</b> , 108, n/a-n/a		4
3	Constraints from observations and modeling on atmosphere-surface exchange of mercury in eastern North America. <i>Elementa</i> , <b>2016</b> , 4,	3.6	4
2	Observations of atmospheric oxidation and ozone production in South Korea. <i>Atmospheric Environment</i> , <b>2022</b> , 269, 118854	5.3	1
1	Origin of oxidized mercury in the summertime free troposphere over the southeastern US		1