J H Crawford

List of Publications by Year
in descending order

158 papers	11,137 citations	28242 55 h-index	43868 91 g-index
178 all docs	178 docs citations	178 times ranked	6949 citing authors

#	Article	IF	Citations
1	An overview of snow photochemistry: evidence, mechanisms and impacts. Atmospheric Chemistry and Physics, 2007, 7, 4329-4373.	1.9	554
2	Transport and Chemical Evolution over the Pacific (TRACE-P) aircraft mission: Design, execution, and first results. Journal of Geophysical Research, 2003, 108, .	3.3	510
3	The Arctic Research of the Composition of the Troposphere from Aircraft and Satellites (ARCTAS) mission: design, execution, and first results. Atmospheric Chemistry and Physics, 2010, 10, 5191-5212.	1.9	419
4	Airborne measurement of OH reactivity during INTEX-B. Atmospheric Chemistry and Physics, 2009, 9, 163-173.	1.9	293
5	Application of OMI observations to a space-based indicator of NOx and VOC controls on surface ozone formation. Atmospheric Environment, 2010, 44, 2213-2223.	1.9	292
6	Potential impact of iodine on tropospheric levels of ozone and other critical oxidants. Journal of Geophysical Research, 1996, 101, 2135-2147.	3.3	256
7	Chemistry and transport of pollution over the Gulf of Mexico and the Pacific: spring 2006 INTEX-B campaign overview and first results. Atmospheric Chemistry and Physics, 2009, 9, 2301-2318.	1.9	237
8	Overview of the summer 2004 Intercontinental Chemical Transport Experimentâ€"North America (INTEX-A). Journal of Geophysical Research, 2006, 111, .	3.3	233
9	Analysis of the atmospheric distribution, sources, and sinks of oxygenated volatile organic chemicals based on measurements over the Pacific during TRACE-P. Journal of Geophysical Research, 2004, 109, .	3.3	228
10	Chemistry of hydrogen oxide radicals (HO_x) in the Arctic troposphere in spring. Atmospheric Chemistry and Physics, 2010, 10, 5823-5838.	1.9	220
11	Asian outflow and trans-Pacific transport of carbon monoxide and ozone pollution: An integrated satellite, aircraft, and model perspective. Journal of Geophysical Research, 2003, 108, n/a-n/a.	3.3	196
12	Reactive nitrogen and ozone over the western Pacific: Distribution, partitioning, and sources. Journal of Geophysical Research, 1996, 101, 1793-1808.	3.3	171
13	The Deep Convective Clouds and Chemistry (DC3) Field Campaign. Bulletin of the American Meteorological Society, 2015, 96, 1281-1309.	1.7	165
14	New Era of Air Quality Monitoring from Space: Geostationary Environment Monitoring Spectrometer (GEMS). Bulletin of the American Meteorological Society, 2020, 101, E1-E22.	1.7	165
15	HO_{<i>x</i>} chemistry during INTEXâ€A 2004: Observation, model calculation, and comparison with previous studies. Journal of Geophysical Research, 2008, 113, .	3.3	163
16	Low ozone in the marine boundary layer of the tropical Pacific Ocean: Photochemical loss, chlorine atoms, and entrainment. Journal of Geophysical Research, 1996, 101, 1907-1917.	3.3	156
17	Assessment of ozone photochemistry in the western North Pacific as inferred from PEM-West A observations during the fall 1991. Journal of Geophysical Research, 1996, 101, 2111-2134.	3.3	147
18	OH photochemistry and methane sulfonic acid formation in the coastal Antarctic boundary layer. Journal of Geophysical Research, 1998, 103, 1647-1656.	3.3	131

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19	Pollution influences on atmospheric composition and chemistry at high northern latitudes: Boreal and California forest fire emissions. Atmospheric Environment, 2010, 44, 4553-4564.	1.9	131
20	South Pole <mml:math altimg="si26.gif" overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevier.com/xml/common/struct-bib/dtd"	1.9	128
21	Assessment of upper tropospheric HOxsources over the tropical Pacific based on NASA GTE/PEM data: Net effect on HOxand other photochemical parameters. Journal of Geophysical Research, 1999, 104, 16255-16273.	3.3	123
22	A new interpretation of total column BrO during Arctic spring. Geophysical Research Letters, 2010, 37, .	1.5	116
23	Direct Measurements of the Convective Recycling of the Upper Troposphere. Science, 2007, 315, 816-820.	6.0	114
24	Large upper tropospheric ozone enhancements above midlatitude North America during summer: In situ evidence from the IONS and MOZAIC ozone measurement network. Journal of Geophysical Research, 2006, 111, .	3.3	113
25	Evidence for photochemical production of ozone at the South Pole surface. Geophysical Research Letters, 2001, 28, 3641-3644.	1.5	103
26	An investigation of the chemistry of ship emission plumes during ITCT 2002. Journal of Geophysical Research, 2005, 110, .	3.3	103
27	Reactive nitrogen distribution and partitioning in the North American troposphere and lowermost stratosphere. Journal of Geophysical Research, 2007, 112, .	3.3	102
28	Chemical data assimilation estimates of continental U.S. ozone and nitrogen budgets during the Intercontinental Chemical Transport Experimentâ€"North America. Journal of Geophysical Research, 2007, 112, .	3.3	102
29	A compact PTR-ToF-MS instrument for airborne measurements of volatile organic compounds at high spatiotemporal resolution. Atmospheric Measurement Techniques, 2014, 7, 3763-3772.	1.2	95
30	Photostationary state analysis of the NO2-NO system based on airborne observations from the western and central North Pacific. Journal of Geophysical Research, 1996, 101, 2053-2072.	3.3	91
31	A reassessment of HOx South Pole chemistry based on observations recorded during ISCAT 2000. Atmospheric Environment, 2004, 38, 5451-5461.	1.9	91
32	Oxygenated volatile organic chemicals in the oceans: Inferences and implications based on atmospheric observations and air-sea exchange models. Geophysical Research Letters, 2003, 30, .	1.5	89
33	Upper tropospheric ozone production from lightning NO<i>_x</i>â€impacted convection: Smoke ingestion case study from the DC3 campaign. Journal of Geophysical Research D: Atmospheres, 2015, 120, 2505-2523.	1.2	88
34	A reassessment of Antarctic plateau reactive nitrogen based on ANTCI 2003 airborne and ground based measurements. Atmospheric Environment, 2008, 42, 2831-2848.	1.9	87
35	New insights into the column CH₂O/NO₂ ratio as an indicator of nearâ€surface ozone sensitivity. Journal of Geophysical Research D: Atmospheres, 2017, 122, 8885-8907.	1.2	87
36	Ozone production and its sensitivity to NO_{<i>x</i>} and VOCs: results from the DISCOVER-AQ field experiment, Houston 2013. Atmospheric Chemistry and Physics, 2016, 16, 14463-14474.	1.9	85

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37	An assessment of ozone photochemistry in the extratropical western North Pacific: Impact of continental outflow during the late winter/early spring. Journal of Geophysical Research, 1997, 102, 28469-28487.	3.3	83
38	Impact of Mexico City emissions on regional air quality from MOZART-4 simulations. Atmospheric Chemistry and Physics, 2010, 10, 6195-6212.	1.9	82
39	The Koreaâ€"United States Air Quality (KORUS-AQ) field study. Elementa, 2021, 9, 1-27.	1.1	82
40	In situ measurements and modeling of reactive trace gases in a small biomass burning plume. Atmospheric Chemistry and Physics, 2016, 16, 3813-3824.	1.9	81
41	Impacts of biomass burning in Southeast Asia on ozone and reactive nitrogen over the western Pacific in spring. Journal of Geophysical Research, 2004, 109, .	3.3	80
42	OH and HO2in the tropical Pacific: Results from PEM-Tropics B. Journal of Geophysical Research, 2001, 106, 32667-32681.	3.3	75
43	Hydrogen peroxide and methylhydroperoxide distributions related to ozone and odd hydrogen over the North Pacific in the fall of 1991. Journal of Geophysical Research, 1996, 101, 1891-1905.	3.3	74
44	BATAL: The Balloon Measurement Campaigns of the Asian Tropopause Aerosol Layer. Bulletin of the American Meteorological Society, 2018, 99, 955-973.	1.7	74
45	A reevaluation of airborne HOxobservations from NASA field campaigns. Journal of Geophysical Research, 2006, 111, n/a-n/a.	3.3	72
46	Nucleation and growth of sulfate aerosol in coal-fired power plant plumes: sensitivity to background aerosol and meteorology. Atmospheric Chemistry and Physics, 2012, 12, 189-206.	1.9	72
47	An overview of mesoscale aerosol processes, comparisons, and validation studies from DRAGON networks. Atmospheric Chemistry and Physics, 2018, 18, 655-671.	1.9	72
48	Impact of ship emissions on marine boundary layer NOxand SO2Distributions over the Pacific Basin. Geophysical Research Letters, 2001, 28, 235-238.	1.5	71
49	Dispersion and chemical evolution of ship plumes in the marine boundary layer: Investigation of O3/NOy/HOxchemistry. Journal of Geophysical Research, 2003, 108, .	3.3	71
50	Testing fast photochemical theory during TRACE-P based on measurements of OH, HO2, and CH2O. Journal of Geophysical Research, 2004, 109, .	3.3	71
51	Impact of Bay-Breeze Circulations on Surface Air Quality and Boundary Layer Export. Journal of Applied Meteorology and Climatology, 2014, 53, 1697-1713.	0.6	70
52	Airborne tunable diode laser measurements of formaldehyde during TRACE-P: Distributions and box model comparisons. Journal of Geophysical Research, 2003, 108, .	3.3	68
53	Measurement of HO2NO2in the free troposphere during the Intercontinental Chemical Transport Experimentâ€"North America 2004. Journal of Geophysical Research, 2007, 112, .	3.3	68
54	OH and HO2chemistry in the North Atlantic free troposphere. Geophysical Research Letters, 1999, 26, 3077-3080.	1.5	67

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55	Regional Air Quality Modeling System (RAQMS) predictions of the tropospheric ozone budget over east Asia. Journal of Geophysical Research, 2003, 108, .	3.3	67
56	A comparison of chemical mechanisms based on TRAMP-2006 field data. Atmospheric Environment, 2010, 44, 4116-4125.	1.9	67
57	Antarctic Tropospheric Chemistry Investigation (ANTCI) 2003 overview. Atmospheric Environment, 2008, 42, 2749-2761.	1.9	65
58	Seasonal differences in the photochemistry of the South Pacific: A comparison of observations and model results from PEM-Tropics A and B. Journal of Geophysical Research, 2001, 106, 32749-32766.	3.3	64
59	Thunderstorms enhance tropospheric ozone by wrapping and shedding stratospheric air. Geophysical Research Letters, 2014, 41, 7785-7790.	1.5	62
60	Meteorology influencing springtime air quality, pollution transport, and visibility in Korea. Elementa, 2019, 7, .	1.1	62
61	Photofragmentation two-photon laser-induced fluorescence detection of NO2and NO: Comparison of measurements with model results based on airborne observations during PEM-Tropics A. Geophysical Research Letters, 1999, 26, 471-474.	1.5	61
62	An investigation of South Pole HOxchemistry: Comparison of model results with ISCAT observations. Geophysical Research Letters, 2001, 28, 3633-3636.	1.5	61
63	Characterising terrestrial influences on Antarctic air masses using Radon-222 measurements at King George Island. Atmospheric Chemistry and Physics, 2014, 14, 9903-9916.	1.9	59
64	Implications of large scale shifts in tropospheric NOxlevels in the remote tropical Pacific. Journal of Geophysical Research, 1997, 102, 28447-28468.	3.3	58
65	Impact of clouds and aerosols on photolysis frequencies and photochemistry during TRACE-P: 1. Analysis using radiative transfer and photochemical box models. Journal of Geophysical Research, 2003, 108, .	3.3	58
66	An overview of ISCAT 2000. Atmospheric Environment, 2004, 38, 5363-5373.	1.9	54
67	Measurements of tropospheric HO₂ and RO₂ by oxygen dilution modulation and chemical ionization mass spectrometry. Atmospheric Measurement Techniques, 2011, 4, 735-756.	1.2	54
68	Atmospheric sampling of Supertyphoon Mireille with NASA DC-8 aircraft on September 27,1991, during PEM-West A. Journal of Geophysical Research, 1996, 101, 1853-1871.	3.3	53
69	Cloud impacts on UV spectral actinic flux observed during the International Photolysis Frequency Measurement and Model Intercomparison (IPMMI). Journal of Geophysical Research, 2003, 108, .	3.3	53
70	Photochemical production and evolution of selected C2â€“C5alkyl nitrates in tropospheric air influenced by Asian outflow. Journal of Geophysical Research, 2003, 108, .	3.3	53
71	On the effectiveness of nitrogen oxide reductions as a control over ammonium nitrate aerosol. Atmospheric Chemistry and Physics, 2016, 16, 2575-2596.	1.9	53
72	Photolysis frequency of NO2: Measurement and modeling during the International Photolysis Frequency Measurement and Modeling Intercomparison (IPMMI). Journal of Geophysical Research, 2003, 108, .	3.3	52

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73	Atmospheric chemistry of an Antarctic volcanic plume. Journal of Geophysical Research, 2010, 115, .	3.3	51
74	On the flux of oxygenated volatile organic compounds from organic aerosol oxidation. Geophysical Research Letters, 2006, 33, .	1.5	50
75	Radiative effect of clouds on tropospheric chemistry in a global three-dimensional chemical transport model. Journal of Geophysical Research, 2006, 111, .	3.3	49
76	Observations of the Interaction and Transport of Fine Mode Aerosols With Cloud and/or Fog in Northeast Asia From Aerosol Robotic Network and Satellite Remote Sensing. Journal of Geophysical Research D: Atmospheres, 2018, 123, 5560-5587.	1.2	49
77	International Photolysis Frequency Measurement and Model Intercomparison (IPMMI): Spectral actinic solar flux measurements and modeling. Journal of Geophysical Research, 2003, 108, .	3.3	47
78	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. Atmospheric Chemistry and Physics, 2011, 11, 11867-11894.	1.9	46
79	Relationship between column-density and surface mixing ratio: Statistical analysis of O3 and NO2 data from the July 2011 Maryland DISCOVER-AQ mission. Atmospheric Environment, 2014, 92, 429-441.	1.9	46
80	Impact of clouds and aerosols on ozone production in Southeast Texas. Atmospheric Environment, 2010, 44, 4126-4133.	1.9	45
81	Ozone chemistry in western U.S. wildfire plumes. Science Advances, 2021, 7, eabl3648.	4.7	45
82	Peroxy radical behavior during the Transport and Chemical Evolution over the Pacific (TRACE-P) campaign as measured aboard the NASA P-3B aircraft. Journal of Geophysical Research, 2003, 108, .	3.3	44
83	Investigation of factors controlling PM2.5 variability across the South Korean Peninsula during KORUS-AQ. Elementa, 2020, 8, .	1.1	44
84	Trace gas transport and scavenging in PEM-Tropics B South Pacific Convergence Zone convection. Journal of Geophysical Research, 2001, 106, 32591-32607.	3.3	41
85	Formaldehyde over North America and the North Atlantic during the summer 2004 INTEX campaign: Methods, observed distributions, and measurementâ€model comparisons. Journal of Geophysical Research, 2008, 113, .	3.3	41
86	Multi-model intercomparisons of air quality simulations for the KORUS-AQ campaign. Elementa, 2021, 9, .	1.1	41
87	Estimating surface NO2 and SO2 mixing ratios from fast-response total column observations and potential application to geostationary missions. Journal of Atmospheric Chemistry, 2015, 72, 261-286.	1.4	39
88	The impacts of aerosol loading, composition, and water uptake on aerosol extinction variability in the Baltimoreâ€"Washington, D.C. region. Atmospheric Chemistry and Physics, 2016, 16, 1003-1015.	1.9	39
89	An analysis of fast photochemistry over high northern latitudes during spring and summer using in-situ observations from ARCTAS and TOPSE. Atmospheric Chemistry and Physics, 2012, 12, 6799-6825.	1.9	38
90	Large vertical gradient of reactive nitrogen oxides in the boundary layer: Modeling analysis of DISCOVERâ€AQ 2011 observations. Journal of Geophysical Research D: Atmospheres, 2016, 121, 1922-1934.	1.2	38

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91	Highâ€resolution NO₂ observations from the Airborne Compact Atmospheric Mapper: Retrieval and validation. Journal of Geophysical Research D: Atmospheres, 2017, 122, 1953-1970.	1.2	38
92	Evaluation of simulated O3 production efficiency during the KORUS-AQ campaign: Implications for anthropogenic NOx emissions in Korea. Elementa, 2019, 7, .	1.1	38
93	Role of wave cyclones in transporting boundary layer air to the free troposphere during the spring 2001 NASA/TRACE-P experiment. Journal of Geophysical Research, 2003, 108, .	3.3	37
94	Photochemistry of ozone over the western Pacific from winter to spring. Journal of Geophysical Research, 2004, 109, .	3.3	37
95	An assessment of the polar HOx photochemical budget based on 2003 Summit Greenland field observations. Atmospheric Environment, 2007, 41, 7806-7820.	1.9	37
96	An assessment of cloud effects on photolysis rate coefficients: Comparison of experimental and theoretical values. Journal of Geophysical Research, 1999, 104, 5725-5734.	3.3	36
97	Highlights of OH, H2SO4, and methane sulfonic acid measurements made aboard the NASA P-3B during Transport and Chemical Evolution over the Pacific. Journal of Geophysical Research, 2003, 108, .	3.3	36
98	An assessment of western North Pacific ozone photochemistry based on springtime observations from NASA's PEM-West B (1994) and TRACE-P (2001) field studies. Journal of Geophysical Research, 2003, 108, .	3.3	35
99	Heterogeneous chemistry involving methanol in tropospheric clouds. Geophysical Research Letters, 2004, 31, n/a-n/a.	1.5	35
100	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, .	3.3	35
101	Atmospheric chemistry results from the ANTCI 2005 Antarctic plateau airborne study. Journal of Geophysical Research, 2010, 115, .	3.3	35
102	Reactive nitrogen, ozone and ozone production in the Arctic troposphere and the impact of stratosphere-troposphere exchange. Atmospheric Chemistry and Physics, 2011, 11, 13181-13199.	1.9	35
103	Long-range transport of Asian outflow to the equatorial Pacific. Journal of Geophysical Research, 2003, 108, PEM 5-1.	3.3	34
104	Summertime buildup and decay of lightning NO_x and aged thunderstorm outflow above North America. Journal of Geophysical Research, 2009, 114, .	3.3	34
105	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.	1.5	34
106	The first evaluation of formaldehyde column observations by improved Pandora spectrometers during the KORUS-AQ field study. Atmospheric Measurement Techniques, 2018, 11, 4943-4961.	1.2	34
107	Formaldehyde over the central Pacific during PEM-Tropics B. Journal of Geophysical Research, 2001, 106, 32717-32731.	3.3	33
108	South Pole Antarctica observations and modeling results: New insights on HOx radical and sulfur chemistry. Atmospheric Environment, 2010, 44, 572-581.	1.9	33

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109	Impact of the deep convection of isoprene and other reactive trace species on radicals and ozone in the upper troposphere. Atmospheric Chemistry and Physics, 2012, 12, 1135-1150.	1.9	33
110	Performance evaluation of a 16-Âµm methane DIAL system from ground, aircraft and UAV platforms. Optics Express, 2013, 21, 30415.	1.7	33
111	An elevated reservoir of air pollutants over the Mid-Atlantic States during the 2011 DISCOVER-AQ campaign: Airborne measurements and numerical simulations. Atmospheric Environment, 2014, 85, 18-30.	1.9	33
112	Frequency and distribution of forest, savanna, and crop fires over tropical regions during PEM-Tropics A. Journal of Geophysical Research, 1999, 104, 5865-5876.	3.3	32
113	Observation-based modeling of ozone chemistry in the Seoul metropolitan area during the Korea-United States Air Quality Study (KORUS-AQ). Elementa, 2020, 8, .	1.1	32
114	Marine latitude/altitude OH distributions: Comparison of Pacific Ocean observations with models. Journal of Geophysical Research, 2001, 106, 32691-32707.	3.3	30
115	Chemical transport model ozone simulations for spring 2001 over the western Pacific: Regional ozone production and its global impacts. Journal of Geophysical Research, 2004, 109, .	3.3	29
116	Airborne intercomparison of HO_x measurements using laser-induced fluorescence and chemical ionization mass spectrometry during ARCTAS. Atmospheric Measurement Techniques, 2012, 5, 2025-2037.	1.2	28
117	Convective transport of formaldehyde to the upper troposphere and lower stratosphere and associated scavenging in thunderstorms over the central United States during the 2012â€‰DC3 study. Journal of Geophysical Research D: Atmospheres, 2016, 121, 7430-7460.	1.2	28
118	Air Quality in the Northern Colorado Front Range Metro Area: The Front Range Air Pollution and Photochemistry Ã‰xperiment (FRAPPÃ‰). Journal of Geophysical Research D: Atmospheres, 2020, 125, e2019JD031197.	1.2	28
119	Validation of IASI Satellite Ammonia Observations at the Pixel Scale Using In Situ Vertical Profiles. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD033475.	1.2	28
120	Evolution and chemical consequences of lightning-produced NOxobserved in the North Atlantic upper troposphere. Journal of Geophysical Research, 2000, 105, 19795-19809.	3.3	27
121	Clouds and trace gas distributions during TRACE-P. Journal of Geophysical Research, 2003, 108, .	3.3	27
122	Characterization of soluble bromide measurements and a case study of BrO observations during ARCTAS. Atmospheric Chemistry and Physics, 2012, 12, 1327-1338.	1.9	27
123	An assessment of aircraft as a source of particles to the upper troposphere. Geophysical Research Letters, 1999, 26, 3069-3072.	1.5	26
124	Origin of springtime ozone enhancements in the lower troposphere over Beijing: in situ measurements and model analysis. Atmospheric Chemistry and Physics, 2015, 15, 5161-5179.	1.9	25
125	Title is missing!. Journal of Atmospheric Chemistry, 2001, 38, 317-344.	1.4	24
126	Distribution, variability and sources of tropospheric ozone over south China in spring: Intensive ozonesonde measurements at five locations and modeling analysis. Journal of Geophysical Research, 2012, 117, .	3.3	21

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127	Airborne formaldehyde and volatile organic compound measurements over the Daesan petrochemical complex on Koreaâ€™s northwest coast during the Korea-United States Air Quality study. Elementa, 2020, 8, .	1.1	21
128	Chemical characteristics of air from different source regions during the second Pacific Exploratory Mission in the Tropics (PEM-Tropics B). Journal of Geophysical Research, 2001, 106, 32609-32625.	3.3	20
129	Formaldehyde column density measurements as a suitable pathway to estimate nearâ€surface ozone tendencies from space. Journal of Geophysical Research D: Atmospheres, 2016, 121, 13088-13112.	1.2	19
130	Inferring ozone production in an urban atmosphere using measurements of peroxynitric acid. Atmospheric Chemistry and Physics, 2009, 9, 3697-3707.	1.9	18
131	Modeling NH 4 NO 3 Over the San Joaquin Valley During the 2013 DISCOVERâ€AQ Campaign. Journal of Geophysical Research D: Atmospheres, 2018, 123, 4727-4745.	1.2	18
132	Relationship between Measurements of Pollution in the Troposphere (MOPITT) and in situ observations of CO based on a large-scale feature sampled during TRACE-P. Journal of Geophysical Research, 2004, 109, .	3.3	17
133	Limitations in representation of physical processes prevent successful simulation of PM_{2.5} during KORUS-AQ. Atmospheric Chemistry and Physics, 2022, 22, 7933-7958.	1.9	17
134	Comparison of airborne NO2photolysis frequency measurements during PEM-Tropics B. Journal of Geophysical Research, 2001, 106, 32645-32656.	3.3	14
135	An overview of measurement comparisons from the INTEX-B/MILAGRO airborne field campaign. Atmospheric Measurement Techniques, 2011, 4, 9-27.	1.2	14
136	Large biogenic contribution to boundary layer O₃â€CO regression slope in summer. Geophysical Research Letters, 2017, 44, 7061-7068.	1.5	14
137	Characterizing CO and NO_{<i>y</i>} Sources and Relative Ambient Ratios in the Baltimore Area Using Ambient Measurements and Source Attribution Modeling. Journal of Geophysical Research D: Atmospheres, 2018, 123, 3304-3320.	1.2	14
138	Measurement of NO2by the photolysis conversion technique during the Transport and Chemical Evolution Over the Pacific (TRACE-P) campaign. Journal of Geophysical Research, 2003, 108, n/a-n/a.	3.3	13
139	Fine Ashâ€Bearing Particles as a Major Aerosol Component in Biomass Burning Smoke. Journal of Geophysical Research D: Atmospheres, 2022, 127, .	1.2	13
140	Spatial and temporal variability of trace gas columns derived from WRF/Chem regional model output: Planning for geostationary observations of atmospheric composition. Atmospheric Environment, 2015, 118, 28-44.	1.9	11
141	Estimator of Surface Ozone Using Formaldehyde and Carbon Monoxide Concentrations Over the Eastern United States in Summer. Journal of Geophysical Research D: Atmospheres, 2018, 123, 7642-7655.	1.2	11
142	Modeling Regional Pollution Transport Events During KORUSâ€AQ: Progress and Challenges in Improving Representation of Landâ€Atmosphere Feedbacks. Journal of Geophysical Research D: Atmospheres, 2018, 123, 10732-10756.	1.2	10
143	Reconciling Assumptions in Bottomâ€Up and Topâ€Down Approaches for Estimating Aerosol Emission Rates From Wildland Fires Using Observations From FIREXâ€AQ. Journal of Geophysical Research D: Atmospheres, 2021, 126, .	1.2	10
144	Sensitivity of photolysis frequencies and key tropospheric oxidants in a global model to cloud vertical distributions and optical properties. Journal of Geophysical Research, 2009, 114, .	3.3	9

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145	Variability of O3 and NO2 profile shapes during DISCOVER-AQ: Implications for satellite observations and comparisons to model-simulated profiles. Atmospheric Environment, 2016, 147, 133-156.	1.9	9
146	Improve observation-based ground-level ozone spatial distribution by compositing satellite and surface observations: A simulation experiment. Atmospheric Environment, 2018, 180, 226-233.	1.9	8
147	A three-dimensional regional modeling study of the impact of clouds on sulfate distributions during TRACE-P. Journal of Geophysical Research, 2004, 109, .	3.3	7
148	A study of regional-scale variability of in situ and model-generated tropospheric trace gases: Insights into observational requirements for a satellite in geostationary orbit. Atmospheric Environment, 2011, 45, 4682-4694.	1.9	7
149	Biogenic isoprene emissions driven by regional weather predictions using different initialization methods: case studies during the SEAC⁴RS and DISCOVER-AQ airborne campaigns. Geoscientific Model Development, 2017, 10, 3085-3104.	1.3	6
150	Assessing sub-grid variability within satellite pixels over urban regions using airborne mapping spectrometer measurements. Atmospheric Measurement Techniques, 2021, 14, 4639-4655.	1.2	6
151	Observations of atmospheric oxidation and ozone production in South Korea. Atmospheric Environment, 2022, 269, 118854.	1.9	6
152	An assessment of ozone photochemistry in the central/eastern North Pacific as determined from multiyear airborne field studies. Journal of Geophysical Research, 2003, 108, PEM 9-1.	3.3	5
153	Investigating Local and Remote Terrestrial Influence on Air Masses at Contrasting Antarctic Sites Using Radonâ€222 and Back Trajectories. Journal of Geophysical Research D: Atmospheres, 2017, 122, 13,525.	1.2	5
154	Satellite soil moisture data assimilation impacts on modeling weather variables and ozone in the southeastern US â€" PartÂ1: An overview. Atmospheric Chemistry and Physics, 2021, 21, 11013-11040.	1.9	5
155	Can Column Formaldehyde Observations Inform Air Quality Monitoring Strategies for Ozone and Related Photochemical Oxidants?. Journal of Geophysical Research D: Atmospheres, 2022, 127, .	1.2	5
156	Countries of the Indo-Gangetic Plain must unite against air pollution. Nature, 2021, 598, 415-415.	13.7	4
157	Airborne measurements of cirrusâ€activated C 2 Cl 4 depletion in the upper troposphere with evidence against Cl reactions. Geophysical Research Letters, 2003, 30, .	1.5	3
158	Impact of Aerosols From Urban and Shipping Emission Sources on Terrestrial Carbon Uptake and Evapotranspiration: A Case Study in East Asia. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2019JD030818.	1.2	3