

J H Crawford

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171
papers

8,965
citations

53
h-index

88
g-index

178
ext. papers

9,975
ext. citations

5.9
avg, IF

5
L-index

#	Paper	IF	Citations
171	Transport and Chemical Evolution over the Pacific (TRACE-P) aircraft mission: Design, execution, and first results. <i>Journal of Geophysical Research</i> , 2003 , 108,		456
170	An overview of snow photochemistry: evidence, mechanisms and impacts. <i>Atmospheric Chemistry and Physics</i> , 2007 , 7, 4329-4373	6.8	451
169	The Arctic Research of the Composition of the Troposphere from Aircraft and Satellites (ARCTAS) mission: design, execution, and first results. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 5191-5212	6.8	361
168	Potential impact of iodine on tropospheric levels of ozone and other critical oxidants. <i>Journal of Geophysical Research</i> , 1996 , 101, 2135-2147		226
167	Airborne measurement of OH reactivity during INTEX-B. <i>Atmospheric Chemistry and Physics</i> , 2009 , 9, 1636-1653	6.8	222
166	Overview of the summer 2004 Intercontinental Chemical Transport Experiment North America (INTEX-A). <i>Journal of Geophysical Research</i> , 2006 , 111,		208
165	Chemistry and transport of pollution over the Gulf of Mexico and the Pacific: spring 2006 INTEX-B campaign overview and first results. <i>Atmospheric Chemistry and Physics</i> , 2009 , 9, 2301-2318	6.8	205
164	Analysis of the atmospheric distribution, sources, and sinks of oxygenated volatile organic chemicals based on measurements over the Pacific during TRACE-P. <i>Journal of Geophysical Research</i> , 2004 , 109,		191
163	Chemistry of hydrogen oxide radicals (HO _x) in the Arctic troposphere in spring. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 5823-5838	6.8	183
162	Application of OMI observations to a space-based indicator of NO _x and VOC controls on surface ozone formation. <i>Atmospheric Environment</i> , 2010 , 44, 2213-2223	5.3	172
161	Asian outflow and trans-Pacific transport of carbon monoxide and ozone pollution: An integrated satellite, aircraft, and model perspective. <i>Journal of Geophysical Research</i> , 2003 , 108, n/a-n/a		166
160	Reactive nitrogen and ozone over the western Pacific: Distribution, partitioning, and sources. <i>Journal of Geophysical Research</i> , 1996 , 101, 1793-1808		151
159	HO _x chemistry during INTEX-A 2004: Observation, model calculation, and comparison with previous studies. <i>Journal of Geophysical Research</i> , 2008 , 113, n/a-n/a		142
158	Low ozone in the marine boundary layer of the tropical Pacific Ocean: Photochemical loss, chlorine atoms, and entrainment. <i>Journal of Geophysical Research</i> , 1996 , 101, 1907-1917		141
157	The Deep Convective Clouds and Chemistry (DC3) Field Campaign. <i>Bulletin of the American Meteorological Society</i> , 2015 , 96, 1281-1309	5.2	137
156	Assessment of ozone photochemistry in the western North Pacific as inferred from PEM-West A observations during the fall 1991. <i>Journal of Geophysical Research</i> , 1996 , 101, 2111-2134		131
155	Pollution influences on atmospheric composition and chemistry at high northern latitudes: Boreal and California forest fire emissions. <i>Atmospheric Environment</i> , 2010 , 44, 4553-4564	5.3	115

154	OH photochemistry and methane sulfonic acid formation in the coastal Antarctic boundary layer. <i>Journal of Geophysical Research</i> , 1998 , 103, 1647-1656		115
153	South Pole . <i>Atmospheric Environment</i> , 2004 , 38, 5375-5388	5.3	106
152	Assessment of upper tropospheric HOx sources over the tropical Pacific based on NASA GTE/PEM data: Net effect on HOx and other photochemical parameters. <i>Journal of Geophysical Research</i> , 1999 , 104, 16255-16273		108
151	A new interpretation of total column BrO during Arctic spring. <i>Geophysical Research Letters</i> , 2010 , 37, n/a-n/a	4.8	101
150	Direct measurements of the convective recycling of the upper troposphere. <i>Science</i> , 2007 , 315, 816-20	32.2	101
149	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,		101
148	Evidence for photochemical production of ozone at the South Pole surface. <i>Geophysical Research Letters</i> , 2001 , 28, 3641-3644	4.8	92
147	Chemical data assimilation estimates of continental U.S. ozone and nitrogen budgets during the Intercontinental Chemical Transport Experiment North America. <i>Journal of Geophysical Research</i> , 2007 , 112,		91
146	Reactive nitrogen distribution and partitioning in the North American troposphere and lowermost stratosphere. <i>Journal of Geophysical Research</i> , 2007 , 112,		87
145	A reassessment of HOx South Pole chemistry based on observations recorded during ISCAT 2000. <i>Atmospheric Environment</i> , 2004 , 38, 5451-5461	5.3	79
144	An assessment of ozone photochemistry in the extratropical western North Pacific: Impact of continental outflow during the late winter/early spring. <i>Journal of Geophysical Research</i> , 1997 , 102, 28469-28487		78
143	New Era of Air Quality Monitoring from Space: Geostationary Environment Monitoring Spectrometer (GEMS). <i>Bulletin of the American Meteorological Society</i> , 2020 , 101, E1-E22	5.2	76
142	An investigation of the chemistry of ship emission plumes during ITCT 2002. <i>Journal of Geophysical Research</i> , 2005 , 110,		78
141	Photostationary state analysis of the NO ₂ -NO system based on airborne observations from the western and central North Pacific. <i>Journal of Geophysical Research</i> , 1996 , 101, 2053-2072		78
140	Oxygenated volatile organic chemicals in the oceans: Inferences and implications based on atmospheric observations and air-sea exchange models. <i>Geophysical Research Letters</i> , 2003 , 30,	4.8	76
139	Impacts of biomass burning in Southeast Asia on ozone and reactive nitrogen over the western Pacific in spring. <i>Journal of Geophysical Research</i> , 2004 , 109,		72
138	A reassessment of Antarctic plateau reactive nitrogen based on ANTCI 2003 airborne and ground based measurements. <i>Atmospheric Environment</i> , 2008 , 42, 2831-2848	5.3	70
137	Impact of Mexico City emissions on regional air quality from MOZART-4 simulations. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 6195-6212	6.8	70

136	Upper tropospheric ozone production from lightning NO _x -impacted convection: Smoke ingestion case study from the DC3 campaign. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015 , 120, 2505-2523	4.3	67
135	OH and HO ₂ in the tropical Pacific: Results from PEM-Tropics B. <i>Journal of Geophysical Research</i> , 2001 , 106, 32667-32681		65
134	A compact PTR-ToF-MS instrument for airborne measurements of volatile organic compounds at high spatiotemporal resolution. <i>Atmospheric Measurement Techniques</i> , 2014 , 7, 3763-3772	4	63
133	A reevaluation of airborne HO _x observations from NASA field campaigns. <i>Journal of Geophysical Research</i> , 2006 , 111, n/a-n/a		64
132	OH and HO ₂ chemistry in the North Atlantic free troposphere. <i>Geophysical Research Letters</i> , 1999 , 26, 3077-3080	4.8	63
131	Regional Air Quality Modeling System (RAQMS) predictions of the tropospheric ozone budget over east Asia. <i>Journal of Geophysical Research</i> , 2003 , 108,		62
130	Airborne tunable diode laser measurements of formaldehyde during TRACE-P: Distributions and box model comparisons. <i>Journal of Geophysical Research</i> , 2003 , 108,		61
129	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,		59
128	Hydrogen peroxide and methylhydroperoxide distributions related to ozone and odd hydrogen over the North Pacific in the fall of 1991. <i>Journal of Geophysical Research</i> , 1996 , 101, 1891-1905		60
127	Impact of ship emissions on marine boundary layer NO _x and SO ₂ Distributions over the Pacific Basin. <i>Geophysical Research Letters</i> , 2001 , 28, 235-238	4.8	59
126	Seasonal differences in the photochemistry of the South Pacific: A comparison of observations and model results from PEM-Tropics A and B. <i>Journal of Geophysical Research</i> , 2001 , 106, 32749-32766		59
125	Nucleation and growth of sulfate aerosol in coal-fired power plant plumes: sensitivity to background aerosol and meteorology. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 189-206	6.8	57
124	Dispersion and chemical evolution of ship plumes in the marine boundary layer: Investigation of O ₃ /NO _y /HO _x chemistry. <i>Journal of Geophysical Research</i> , 2003 , 108,		57
123	Ozone production and its sensitivity to NO _x and VOCs: results from the DISCOVER-AQ field experiment, Houston 2013. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 14463-14474	6.8	56
122	Antarctic Tropospheric Chemistry Investigation (ANTCI) 2003 overview. <i>Atmospheric Environment</i> , 2008 , 42, 2749-2761	5.3	53
121	An investigation of South Pole HO _x chemistry: Comparison of model results with ISCAT observations. <i>Geophysical Research Letters</i> , 2001 , 28, 3633-3636	4.8	53
120	Impact of Bay-Breeze Circulations on Surface Air Quality and Boundary Layer Export. <i>Journal of Applied Meteorology and Climatology</i> , 2014 , 53, 1697-1713	2.6	52
119	A comparison of chemical mechanisms based on TRAMP-2006 field data. <i>Atmospheric Environment</i> , 2010 , 44, 4116-4125	5.3	52

118	BATAL: The Balloon Measurement Campaigns of the Asian Tropopause Aerosol Layer. <i>Bulletin of the American Meteorological Society</i> , 2018 , 99, 955-973	5.2	52
117	Photofragmentation two-photon laser-induced fluorescence detection of NO ₂ and NO: Comparison of measurements with model results based on airborne observations during PEM-Tropics A. <i>Geophysical Research Letters</i> , 1999 , 26, 471-474	4.8	52
116	Implications of large scale shifts in tropospheric NO _x levels in the remote tropical Pacific. <i>Journal of Geophysical Research</i> , 1997 , 102, 28447-28468		52
115	Testing fast photochemical theory during TRACE-P based on measurements of OH, HO ₂ , and CH ₂ O. <i>Journal of Geophysical Research</i> , 2004 , 109,		50
114	In situ measurements and modeling of reactive trace gases in a small biomass burning plume. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 3813-3824	6.8	49
113	Thunderstorms enhance tropospheric ozone by wrapping and shedding stratospheric air. <i>Geophysical Research Letters</i> , 2014 , 41, 7785-7790	4.8	49
112	An overview of mesoscale aerosol processes, comparisons, and validation studies from DRAGON networks. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 655-671	6.8	48
111	An overview of ISCAT 2000. <i>Atmospheric Environment</i> , 2004 , 38, 5363-5373	5.3	48
110	Characterising terrestrial influences on Antarctic air masses using Radon-222 measurements at King George Island. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 9903-9916	6.8	47
109	On the flux of oxygenated volatile organic compounds from organic aerosol oxidation. <i>Geophysical Research Letters</i> , 2006 , 33,	4.8	47
108	Photochemical production and evolution of selected C ₂₋₅ alkyl nitrates in tropospheric air influenced by Asian outflow. <i>Journal of Geophysical Research</i> , 2003 , 108,		47
107	Impact of clouds and aerosols on photolysis frequencies and photochemistry during TRACE-P: 1. Analysis using radiative transfer and photochemical box models. <i>Journal of Geophysical Research</i> , 2003 , 108,		47
106	Atmospheric sampling of Super typhoon Mireille with NASA DC-8 aircraft on September 27, 1991, during PEM-West A. <i>Journal of Geophysical Research</i> , 1996 , 101, 1853-1871		47
105	New insights into the column CH ₂ O/NO ₂ ratio as an indicator of near-surface ozone sensitivity. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017 , 122, 8885-8907	4.3	46
104	Measurements of tropospheric HO ₂ and RO ₂ by oxygen dilution modulation and chemical ionization mass spectrometry. <i>Atmospheric Measurement Techniques</i> , 2011 , 4, 735-756	4	46
103	Radiative effect of clouds on tropospheric chemistry in a global three-dimensional chemical transport model. <i>Journal of Geophysical Research</i> , 2006 , 111,		44
102	Atmospheric chemistry of an Antarctic volcanic plume. <i>Journal of Geophysical Research</i> , 2010 , 115,		42
101	On the effectiveness of nitrogen oxide reductions as a control over ammonium nitrate aerosol. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 2575-2596	6.8	41

100	Cloud impacts on UV spectral actinic flux observed during the International Photolysis Frequency Measurement and Model Intercomparison (IPMMI). <i>Journal of Geophysical Research</i> , 2003 , 108,		39
99	Photolysis frequency of NO ₂ : Measurement and modeling during the International Photolysis Frequency Measurement and Modeling Intercomparison (IPMMI). <i>Journal of Geophysical Research</i> , 2003 , 108,		40
98	Peroxy radical behavior during the Transport and Chemical Evolution over the Pacific (TRACE-P) campaign as measured aboard the NASA P-3B aircraft. <i>Journal of Geophysical Research</i> , 2003 , 108,		39
97	Formaldehyde over North America and the North Atlantic during the summer 2004 INTEX campaign: Methods, observed distributions, and measurement-model comparisons. <i>Journal of Geophysical Research</i> , 2008 , 113,		38
96	Trace gas transport and scavenging in PEM-Tropics B South Pacific Convergence Zone convection. <i>Journal of Geophysical Research</i> , 2001 , 106, 32591-32607		37
95	International Photolysis Frequency Measurement and Model Intercomparison (IPMMI): Spectral actinic solar flux measurements and modeling. <i>Journal of Geophysical Research</i> , 2003 , 108,		36
94	Relationship between column-density and surface mixing ratio: Statistical analysis of O ₃ and NO ₂ data from the July 2011 Maryland DISCOVER-AQ mission. <i>Atmospheric Environment</i> , 2014 , 92, 429-441	5-3	34
93	Highlights of OH, H ₂ SO ₄ , and methane sulfonic acid measurements made aboard the NASA P-3B during Transport and Chemical Evolution over the Pacific. <i>Journal of Geophysical Research</i> , 2003 , 108,		34
92	Impact of clouds and aerosols on ozone production in Southeast Texas. <i>Atmospheric Environment</i> , 2010 , 44, 4126-4133	5-3	33
91	Meteorology influencing springtime air quality, pollution transport, and visibility in Korea. <i>Elementa</i> , 2019 , 7,	3-5	32
90	Role of wave cyclones in transporting boundary layer air to the free troposphere during the spring 2001 NASA/TRACE-P experiment. <i>Journal of Geophysical Research</i> , 2003 , 108,		33
89	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. <i>Journal of Geophysical Research</i> , 2003 , 108,		33
88	Photochemistry of ozone over the western Pacific from winter to spring. <i>Journal of Geophysical Research</i> , 2004 , 109,		31
87	Observations of the Interaction and Transport of Fine Mode Aerosols with Cloud and/or Fog in Northeast Asia from Aerosol Robotic Network (AERONET) and Satellite Remote Sensing. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018 , 123, 5560-5587	4-3	32
86	Large vertical gradient of reactive nitrogen oxides in the boundary layer: Modeling analysis of DISCOVER-AQ 2011 observations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016 , 121, 1922-1934	4-3	32
85	Estimating surface NO and SO mixing ratios from fast-response total column observations and potential application to geostationary missions. <i>Journal of Atmospheric Chemistry</i> , 2015 , 72, 261-286	3-2	32
84	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	31
83	An assessment of the polar HO _x photochemical budget based on 2003 Summit Greenland field observations. <i>Atmospheric Environment</i> , 2007 , 41, 7806-7820	5-3	32

82	Long-range transport of Asian outflow to the equatorial Pacific. <i>Journal of Geophysical Research</i> , 2003 , 108, PEM 5-1		32
81	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> , 2008 , 113,		31
80	Heterogeneous chemistry involving methanol in tropospheric clouds. <i>Geophysical Research Letters</i> , 2004 , 31, n/a-n/a	4.8	31
79	An elevated reservoir of air pollutants over the Mid-Atlantic States during the 2011 DISCOVER-AQ campaign: Airborne measurements and numerical simulations. <i>Atmospheric Environment</i> , 2014 , 85, 18-30 ^{5.3}		30
78	Impact of the deep convection of isoprene and other reactive trace species on radicals and ozone in the upper troposphere. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 1135-1150	6.8	30
77	Atmospheric chemistry results from the ANTCI 2005 Antarctic plateau airborne study. <i>Journal of Geophysical Research</i> , 2010 , 115,		30
76	Summertime buildup and decay of lightning NO _x and aged thunderstorm outflow above North America. <i>Journal of Geophysical Research</i> , 2009 , 114,		29
75	An assessment of cloud effects on photolysis rate coefficients: Comparison of experimental and theoretical values. <i>Journal of Geophysical Research</i> , 1999 , 104, 5725-5734		31
74	An analysis of fast photochemistry over high northern latitudes during spring and summer using in-situ observations from ARCTAS and TOPSE. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 6799-6825	6.8	28
73	Reactive nitrogen, ozone and ozone production in the Arctic troposphere and the impact of stratosphere-troposphere exchange. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 13181-13199	6.8	28
72	South Pole Antarctica observations and modeling results: New insights on HO _x radical and sulfur chemistry. <i>Atmospheric Environment</i> , 2010 , 44, 572-581	5.3	28
71	Chemical transport model ozone simulations for spring 2001 over the western Pacific: Regional ozone production and its global impacts. <i>Journal of Geophysical Research</i> , 2004 , 109,		27
70	Frequency and distribution of forest, savanna, and crop fires over tropical regions during PEM-Tropics A. <i>Journal of Geophysical Research</i> , 1999 , 104, 5865-5876		28
69	High-resolution NO ₂ observations from the Airborne Compact Atmospheric Mapper: Retrieval and validation. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017 , 122, 1953-1970	4.3	27
68	Performance evaluation of a 1.6- μ m methane DIAL system from ground, aircraft and UAV platforms. <i>Optics Express</i> , 2013 , 21, 30415-32	3.2	24
67	Formaldehyde over the central Pacific during PEM-Tropics B. <i>Journal of Geophysical Research</i> , 2001 , 106, 32717-32731		25
66	Investigation of factors controlling PM variability across the South Korean Peninsula during KORUS-AQ. <i>Elementa</i> , 2020 , 8,	3.5	22
65	Clouds and trace gas distributions during TRACE-P. <i>Journal of Geophysical Research</i> , 2003 , 108,		24

64	Evolution and chemical consequences of lightning-produced NO _x observed in the North Atlantic upper troposphere. <i>Journal of Geophysical Research</i> , 2000 , 105, 19795-19809		24
63	Marine latitude/altitude OH distributions: Comparison of Pacific Ocean observations with models. <i>Journal of Geophysical Research</i> , 2001 , 106, 32691-32707		24
62	The ARCTAS aircraft mission: design and execution		24
61	The impacts of aerosol loading, composition, and water uptake on aerosol extinction variability in the Baltimore-Washington, D.C. region. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 1003-1015	6.8	23
60	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> , 2016 , 43, 11,462	4.8	22
59	Airborne intercomparison of HO _x measurements using laser-induced fluorescence and chemical ionization mass spectrometry during ARCTAS. <i>Atmospheric Measurement Techniques</i> , 2012 , 5, 2025-2037	4	23
58	An assessment of aircraft as a source of particles to the upper troposphere. <i>Geophysical Research Letters</i> , 1999 , 26, 3069-3072	4.8	23
57	Convective transport of formaldehyde to the upper troposphere and lower stratosphere and associated scavenging in thunderstorms over the central United States during the 2012 DC3 study. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016 , 121, 7430-7460	4.3	22
56	Characterization of soluble bromide measurements and a case study of BrO observations during ARCTAS. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 1327-1338	6.8	22
55	An Assessment of HO _x Chemistry in the Tropical Pacific Boundary Layer: Comparison of Model Simulations with Observations Recorded during PEM Tropics A. <i>Journal of Atmospheric Chemistry</i> , 2001 , 38, 317-344	3.2	22
54	The Korea-United States Air Quality (KORUS-AQ) field study.. <i>Elementa</i> , 2021 , 9, 1-27	3.5	18
53	Evaluation of simulated O ₃ production efficiency during the KORUS-AQ campaign: Implications for anthropogenic NO _x emissions in Korea. <i>Elementa</i> , 2019 , 7,	3.5	21
52	Origin of springtime ozone enhancements in the lower troposphere over Beijing: in situ measurements and model analysis. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 5161-5179	6.8	18
51	The first evaluation of formaldehyde column observations by improved Pandora spectrometers during the KORUS-AQ field study. <i>Atmospheric Measurement Techniques</i> , 2018 , 11, 4943-4961	4	17
50	Distribution, variability and sources of tropospheric ozone over south China in spring: Intensive ozonesonde measurements at five locations and modeling analysis. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		18
49	Chemical characteristics of air from different source regions during the second Pacific Exploratory Mission in the Tropics (PEM-Tropics B). <i>Journal of Geophysical Research</i> , 2001 , 106, 32609-32625		18
48	Observation-based modeling of ozone chemistry in the Seoul metropolitan area during the Korea-United States Air Quality Study (KORUS-AQ). <i>Elementa</i> , 2020 , 8,	3.5	17
47	Modeling NHNO Over the San Joaquin Valley During the 2013 DISCOVER-AQ Campaign. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018 , 123, 4727-4745	4.3	16

46	Inferring ozone production in an urban atmosphere using measurements of peroxyacetic acid. <i>Atmospheric Chemistry and Physics</i> , 2009 , 9, 3697-3707	6.8	15
45	Formaldehyde column density measurements as a suitable pathway to estimate near-surface ozone tendencies from space. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016 , 121, 13088-13112	4.3	14
44	An overview of measurement comparisons from the INTEX-B/MILAGRO airborne field campaign. <i>Atmospheric Measurement Techniques</i> , 2011 , 4, 9-27	4	14
43	Air Quality in the Northern Colorado Front Range Metro Area: The Front Range Air Pollution and Photochemistry Experiment (FRAPPE). <i>Journal of Geophysical Research D: Atmospheres</i> , 2020 , 125, e2019JD031197	4.3	14
42	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. <i>Journal of Geophysical Research</i> , 2004 , 109,		14
41	Measurement of NO ₂ by the photolysis conversion technique during the Transport and Chemical Evolution Over the Pacific (TRACE-P) campaign. <i>Journal of Geophysical Research</i> , 2003 , 108, n/a-n/a		13
40	Comparison of airborne NO ₂ photolysis frequency measurements during PEM-Tropics B. <i>Journal of Geophysical Research</i> , 2001 , 106, 32645-32656		13
39	An overview of snow photochemistry: evidence, mechanisms and impacts		13
38	Large biogenic contribution to boundary layer O ₃ -CO regression slope in summer. <i>Geophysical Research Letters</i> , 2017 , 44, 7061-7068	4.8	12
37	Multi-model intercomparisons of air quality simulations for the KORUS-AQ campaign. <i>Elementa</i> , 2021 , 9,	3.5	10
36	Chemistry and transport of pollution over the Gulf of Mexico and the Pacific: Spring 2006 INTEX-B Campaign overview and first results		11
35	Characterizing CO and NO _y Sources and Relative Ambient Ratios in the Baltimore Area Using Ambient Measurements and Source Attribution Modeling. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018 , 123, 3304-3320	4.3	10
34	Spatial and temporal variability of trace gas columns derived from WRF/Chem regional model output: Planning for geostationary observations of atmospheric composition. <i>Atmospheric Environment</i> , 2015 , 118, 28-44	5.3	10
33	Estimator of Surface Ozone Using Formaldehyde and Carbon Monoxide Concentrations Over the Eastern United States in Summer. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018 , 123, 7642	4.3	8
32	Modeling regional pollution transport events during KORUS-AQ: Progress and challenges in improving representation of land-atmosphere feedbacks. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018 , 123, 10732-10756	4.3	7
31	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. <i>Atmospheric Environment</i> , 2011 , 45, 4682-4694	5.3	7
30	Sensitivity of photolysis frequencies and key tropospheric oxidants in a global model to cloud vertical distributions and optical properties. <i>Journal of Geophysical Research</i> , 2009 , 114,		7
29	A three-dimensional regional modeling study of the impact of clouds on sulfate distributions during TRACE-P. <i>Journal of Geophysical Research</i> , 2004 , 109,		7

28	Variability of O ₃ and NO ₂ profile shapes during DISCOVER-AQ: Implications for satellite observations and comparisons to model-simulated profiles. <i>Atmospheric Environment</i> , 2016 , 147, 133-158	5.3	6
27	Biogenic isoprene emissions driven by regional weather predictions using different initialization methods: case studies during the SEAC ⁴ RS and DISCOVER-AQ airborne campaigns. <i>Geoscientific Model Development</i> , 2017 , 10, 3085-3104	6.2	5
26	Measurements of tropospheric HO ₂ and RO ₂ by oxygen dilution modulation and chemical ionization mass spectrometry 2011 ,		4
25	Validation of IASI Satellite Ammonia Observations at the Pixel Scale Using In Situ Vertical Profiles. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021 , 126, e2020JD033475	4.3	4
24	Airborne formaldehyde and volatile organic compound measurements over the Daesan petrochemical complex on Korea's northwest coast during the Korea-United States Air Quality study. <i>Elementa</i> , 2020 , 8,	3.5	4
23	An assessment of ozone photochemistry in the central/eastern North Pacific as determined from multiyear airborne field studies. <i>Journal of Geophysical Research</i> , 2003 , 108, PEM 9-1		4
22	Impact of Aerosols From Urban and Shipping Emission Sources on Terrestrial Carbon Uptake and Evapotranspiration: A Case Study in East Asia. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020 , 125, e2019JD030818	4.3	3
21	Airborne measurements of cirrus-activated C ₂ Cl ₄ depletion in the upper troposphere with evidence against Cl reactions. <i>Geophysical Research Letters</i> , 2003 , 30,	4.8	3
20	Impact of Mexico City emissions on regional air quality from MOZART-4 simulations		3
19	Improve observation-based ground-level ozone spatial distribution by compositing satellite and surface observations: A simulation experiment. <i>Atmospheric Environment</i> , 2018 , 180, 226-233	5.3	2
18	Ozone Production and Its Sensitivity to NO _x and VOCs: Results from the DISCOVER-AQ Field Experiment, Houston 2013 2016 ,		2
17	Investigating Local and Remote Terrestrial Influence on Air Masses at Contrasting Antarctic Sites Using Radon-222 and Back Trajectories. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017 , 122, 13,525-13,544	4.3	2
16	Airborne intercomparison of HO _x measurements using laser-induced fluorescence and chemical ionization mass spectrometry during ARCTAS 2012 ,		2
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10	An overview of measurement comparisons from the INTEX-B/MILAGRO airborne field campaign 2010 ,			1
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6	Detailed comparisons of airborne formaldehyde measurements with box models during the 2006 INTEX-B campaign: potential evidence for unmeasured and multi-generation volatile organic carbon oxidation processing			1
5	An analysis of fast photochemistry over high northern latitudes during spring and summer using in-situ observations from ARCTAS and TOPSE			1
4	Inferring ozone production in an urban atmosphere using measurements of peroxyxynitric acid			1
3	Chemistry of hydrogen oxide radicals (HO _x) in the Arctic troposphere in spring			1
2	Observations of atmospheric oxidation and ozone production in South Korea. <i>Atmospheric Environment</i> , 2022 , 269, 118854	5.3		0
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