

G S Diskin

List of Publications by Citations

Source: <https://exaly.com/author-pdf/4127543/g-s-diskin-publications-by-citations.pdf>

Version: 2024-04-25

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.

225
papers

7,174
citations

48
h-index

75
g-index

296
ext. papers

8,582
ext. citations

5.8
avg, IF

5.07
L-index

#	Paper	IF	Citations
225	Effects of aging on organic aerosol from open biomass burning smoke in aircraft and laboratory studies. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 12049-12064	6.8	418
224	Airborne measurement of OH reactivity during INTEX-B. <i>Atmospheric Chemistry and Physics</i> , 2009 , 9, 1631-1633	6.8	225
223	Evolution of brown carbon in wildfire plumes. <i>Geophysical Research Letters</i> , 2015 , 42, 4623-4630	4.9	206
222	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
221	Boreal forest fire emissions in fresh Canadian smoke plumes: C ₁₀ , C ₁₀ , volatile organic compounds (VOCs), CO ₂ , CO, NO ₂ , NO, HCN and	6.8	178
220	Characterization of trace gases measured over Alberta oil sands mining operations: 76 speciated C ₂ , C ₁₀ , volatile organic compounds (VOCs), CO ₂ , CH ₄ , CO, NO, NO ₂ , NO _x , O ₃ , and SO ₂ .	6.8	172
219	Source attribution and interannual variability of Arctic pollution in spring constrained by aircraft (ARCTAS, ARCPAC) and satellite (AIRS) observations of carbon monoxide. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 977-996	6.8	168
218	Emissions of black carbon, organic, and inorganic aerosols from biomass burning in North America and Asia in 2008. <i>Journal of Geophysical Research</i> , 2011 , 116,		166
217	HOx 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
216	The Deep Convective Clouds and Chemistry (DC3) Field Campaign. <i>Bulletin of the American Meteorological Society</i> , 2015 , 96, 1281-1309	6.1	140
215	Airborne measurements of western U.S. wildfire emissions: Comparison with prescribed burning and air quality implications. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017 , 122, 6108-6129	4.4	116
214	On the sources of methane to the Los Angeles atmosphere. <i>Environmental Science & Technology</i> , 2012 , 46, 9282-9	10.3	104
213	Open-path airborne tunable diode laser hygrometer 2002 ,		95
212	Measured and modeled CO and NO _y in DISCOVER-AQ: An evaluation of emissions and chemistry over the eastern US. <i>Atmospheric Environment</i> , 2014 , 96, 78-87	5.3	92
211	Ice nucleation and dehydration in the Tropical Tropopause Layer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 2041-6	11.5	91
210	Magnitude and seasonality of wetland methane emissions from the Hudson Bay Lowlands (Canada). <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 3773-3779	6.8	90
209	Seasonal variation of the transport of black carbon aerosol from the Asian continent to the Arctic during the ARCTAS aircraft campaign. <i>Journal of Geophysical Research</i> , 2011 , 116,		88

208	Comparison of chemical characteristics of 495 biomass burning plumes intercepted by the NASA DC-8 aircraft during the ARCTAS/CARB-2008 field campaign. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 13325-13337	6.8	86
207	TES carbon monoxide validation with DACOM aircraft measurements during INTEX-B 2006. <i>Journal of Geophysical Research</i> , 2007 , 112,		83
206	Airborne measurements of organosulfates over the continental U.S. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015 , 120, 2990-3005	4.4	77
205	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
204	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
203	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
202	Racoro Extended-Term Aircraft Observations of Boundary Layer Clouds. <i>Bulletin of the American Meteorological Society</i> , 2012 , 93, 861-878	6.1	71
201	Secondary organic aerosol production from local emissions dominates the organic aerosol budget over Seoul, South Korea, during KORUS-AQ. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 17769-17800	6.8	71
200	Observations of nonmethane organic compounds during ARCTAS [Part 1: Biomass burning emissions and plume enhancements. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 11103-11130	6.8	70
199	Characterizing summertime chemical boundary conditions for airmasses entering the US West Coast. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 1769-1790	6.8	69
198	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	4.4	68
197	Multi-model study of chemical and physical controls on transport of anthropogenic and biomass burning pollution to the Arctic. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 3575-3603	6.8	67
196	Observations of Saharan dust microphysical and optical properties from the Eastern Atlantic during NAMMA airborne field campaign. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 723-740	6.8	67
195	The RELIEF flow tagging technique and its application in engine testing facilities and for helium-air mixing studies. <i>Measurement Science and Technology</i> , 2000 , 11, 1272-1281	2	63
194	Emission characteristics of black carbon in anthropogenic and biomass burning plumes over California during ARCTAS-CARB 2008. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		60
193	Absorbing aerosol in the troposphere of the Western Arctic during the 2008 ARCTAS/ARCPAC airborne field campaigns. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 7561-7582	6.8	60
192	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
191	THE NASA AIRBORNE TROPICAL TROPOPAUSE EXPERIMENT: High-Altitude Aircraft Measurements in the Tropical Western Pacific. <i>Bulletin of the American Meteorological Society</i> , 2017 , 98, 129-143	6.1	59

190	Observations of total RONO ₂ over the boreal forest: NO _x sinks and HNO ₃ sources. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 4543-4562	6.8	57
189	Source attributions of pollution to the Western Arctic during the NASA ARCTAS field campaign. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 4707-4721	6.8	56
188	Analysis of satellite-derived Arctic tropospheric BrO columns in conjunction with aircraft measurements during ARCTAS and ARCPAC. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 1255-1285	6.8	55
187	Convective transport of water vapor into the lower stratosphere observed during double-tropopause events. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 10,941-10,958	4.4	54
186	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
185	IASI carbon monoxide validation over the Arctic during POLARCAT spring and summer campaigns. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 10655-10678	6.8	54
184	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	2.7	53
183	Improved agreement of AIRS tropospheric carbon monoxide products with other EOS sensors using optimal estimation retrievals. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 9521-9533	6.8	53
182	The POLARCAT Model Intercomparison Project (POLMIP): overview and evaluation with observations. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 6721-6744	6.8	52
181	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	51
180	Relationships between Ice Water Content and Volume Extinction Coefficient from In Situ Observations for Temperatures from 0° to 86°C: Implications for Spaceborne Lidar Retrievals. <i>Journal of Applied Meteorology and Climatology</i> , 2014 , 53, 479-505	2.7	51
179	The production and persistence of RONO ₂ in the Mexico City plume. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 7215-7229	6.8	51
178	Thunderstorms enhance tropospheric ozone by wrapping and shedding stratospheric air. <i>Geophysical Research Letters</i> , 2014 , 41, 7785-7790	4.9	49
177	Patterns of CO ₂ and radiocarbon across high northern latitudes during International Polar Year 2008. <i>Journal of Geophysical Research</i> , 2011 , 116,		48
176	Characterization of Upper-Troposphere Water Vapor Measurements during AFWEX Using LASE. <i>Journal of Atmospheric and Oceanic Technology</i> , 2004 , 21, 1790-1808	2	48
175	In situ vertical profiles of aerosol extinction, mass, and composition over the southeast United States during SENEX and SEAC ⁴ RS: observations of a modest aerosol enhancement aloft. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 7085-7102	6.8	46
174	Summary of measurement intercomparisons during TRACE-P. <i>Journal of Geophysical Research</i> , 2003 , 108,		46
173	Aerosol transport and wet scavenging in deep convective clouds: A case study and model evaluation using a multiple passive tracer analysis approach. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015 , 120, 8448-8468	4.4	44

172	Calibration and data retrieval algorithms for the NASA Langley/Ames Diode Laser Hygrometer for the NASA Transport and Chemical Evolution Over the Pacific (TRACE-P) mission. <i>Journal of Geophysical Research</i> , 2003 , 108,		44
171	The distribution of sea-salt aerosol in the global troposphere. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 4093-4104	6.8	43
170	Validating the AIRS Version 5 CO Retrieval With DACOM In Situ Measurements During INTEX-A and -B. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2011 , 49, 2802-2813	8.1	43
169	Evaluation of UT/LS hygrometer accuracy by intercomparison during the NASA MACPEX mission. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 1915-1935	4.4	42
168	Halocarbon emissions from the United States and Mexico and their global warming potential. <i>Environmental Science & Technology</i> , 2009 , 43, 1055-60	10.3	41
167	Frequency and Impact of Summertime Stratospheric Intrusions over Maryland during DISCOVER-AQ (2011): New Evidence from NASA's GEOS-5 Simulations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016 , Volume 121, 3687-3706	4.4	40
166	Impact of large-scale dynamics on the microphysical properties of midlatitude cirrus. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 3976-3996	4.4	39
165	Mapping hydroxyl variability throughout the global remote troposphere via synthesis of airborne and satellite formaldehyde observations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 11171-11180	11.5	38
164	An aircraft-based upper troposphere lower stratosphere O ₃ , CO, and H ₂ O climatology for the Northern Hemisphere. <i>Journal of Geophysical Research</i> , 2010 , 115,		38
163	Tunable infrared laser instruments for airborne atmospheric studies. <i>Applied Physics B: Lasers and Optics</i> , 2008 , 92, 409-417	1.9	37
162	Lightning NO _x Emissions: Reconciling Measured and Modeled Estimates With Updated NO _x Chemistry. <i>Geophysical Research Letters</i> , 2017 , 44, 9479-9488	4.9	36
161	Revisiting the effectiveness of HCHO/NO ₂ ratios for inferring ozone sensitivity to its precursors using high resolution airborne remote sensing observations in a high ozone episode during the KORUS-AQ campaign. <i>Atmospheric Environment</i> , 2020 , 224, 117341	5.3	35
160	Episodes of cross-polar transport in the Arctic troposphere during July 2008 as seen from models, satellite, and aircraft observations. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 3631-3651	6.8	35
159	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	4.4	33
158	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
157	In situ measurements of tropospheric volcanic plumes in Ecuador and Colombia during TC4. <i>Journal of Geophysical Research</i> , 2011 , 116,		33
156	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
155	Supersonic Mass-Flux Measurements via Tunable Diode Laser Absorption and Nonuniform Flow Modeling. <i>AIAA Journal</i> , 2011 , 49, 2783-2791	2.1	31

154	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
153	Airborne observations of bioaerosol over the Southeast United States using a Wideband Integrated Bioaerosol Sensor. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016 , 121, 8506-8524	4.4	30
152	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
151	Pollution transport from North America to Greenland during summer 2008. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 3825-3848	6.8	30
150	Convective distribution of tropospheric ozone and tracers in the Central American ITCZ region: Evidence from observations during TC4. <i>Journal of Geophysical Research</i> , 2010 , 115,		30
149	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
148	Convective and wave signatures in ozone profiles over the equatorial Americas: Views from TC4 2007 and SHADOZ. <i>Journal of Geophysical Research</i> , 2010 , 115,		29
147	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	29
146	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
145	Investigation of factors controlling PM variability across the South Korean Peninsula during KORUS-AQ. <i>Elementa</i> , 2020 , 8,	3.6	28
144	Steady-state aerosol distributions in the extra-tropical, lower stratosphere and the processes that maintain them. <i>Atmospheric Chemistry and Physics</i> , 2008 , 8, 6617-6626	6.8	27
143	AEROSOL-CLOUD-METEOROLOGY INTERACTION AIRBORNE FIELD INVESTIGATIONS: Using Lessons Learned from the U.S. West Coast in the Design of ACTIVATE off the U.S. East Coast. <i>Bulletin of the American Meteorological Society</i> , 2019 , 100, 1511-1528	6.1	26
142	Evaluating high-resolution forecasts of atmospheric CO and CO ₂ from a global prediction system during KORUS-AQ field campaign. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 11007-11030	6.8	26
141	Dehydration in the tropical tropopause layer: A case study for model evaluation using aircraft observations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 5299-5316	4.4	25
140	Airborne quantification of upper tropospheric NO _x production from lightning in deep convective storms over the United States Great Plains. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016 , 121, 2002-2028	4.4	24
139	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> , 2016 , 121, 4233-4257	4.4	24
138	Characteristics of the atmospheric CO ₂ signal as observed over the conterminous United States during INTEX-NA. <i>Journal of Geophysical Research</i> , 2008 , 113,		24
137	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

136	Supersonic Coaxial Jet Experiment for Computational Fluid Dynamics Code Validation. <i>AIAA Journal</i> , 2006 , 44, 585-592	2.1	23
135	Aircraft-measured indirect cloud effects from biomass burning smoke in the Arctic and subarctic. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 715-738	6.8	22
134	Ammonia and methane dairy emission plumes in the San Joaquin Valley of California from individual feedlot to regional scales. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015 , 120, 9718-9738	4.4	22
133	Characterization, sources and reactivity of volatile organic compounds (VOCs) in Seoul and surrounding regions during KORUS-AQ. <i>Elementa</i> , 2020 , 8,	3.6	22
132	Using Short-Term CO/CO ₂ Ratios to Assess Air Mass Differences Over the Korean Peninsula During KORUS-AQ. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019 , 124, 10951-10972	4.4	21
131	Impacts of transported background pollutants on summertime western US air quality: model evaluation, sensitivity analysis and data assimilation. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 359-391	6.8	21
130	Sources and transport of ¹⁴ C in CO ₂ within the Mexico City Basin and vicinity. <i>Atmospheric Chemistry and Physics</i> , 2009 , 9, 4973-4985	6.8	21
129	Influence of cloud, fog, and high relative humidity during pollution transport events in South Korea: Aerosol properties and PM _{2.5} variability. <i>Atmospheric Environment</i> , 2020 , 232, 117530	5.3	20
128	Assimilation of IASI satellite CO fields into a global chemistry transport model for validation against aircraft measurements. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 4493-4512	6.8	20
127	Effects of aging on organic aerosol from open biomass burning smoke in aircraft and lab studies		20
126	On the Susceptibility of Cold Tropical Cirrus to Ice Nuclei Abundance. <i>Journals of the Atmospheric Sciences</i> , 2016 , 73, 2445-2464	2.1	20
125	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
124	Ozone profiles in the Baltimore-Washington region (2006-2011): satellite comparisons and DISCOVER-AQ observations. <i>Journal of Atmospheric Chemistry</i> , 2015 , 72, 393-422	3.2	19
123	Impacts of the Denver Cyclone on regional air quality and aerosol formation in the Colorado Front Range during FRAPP2014. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 12039-12058	6.8	19
122	Simulating reactive nitrogen, carbon monoxide, and ozone in California during ARCTAS-CARB 2008 with high wildfire activity. <i>Atmospheric Environment</i> , 2016 , 128, 28-44	5.3	19
121	High Frequency Pulsed Injection into a Supersonic Duct Flow. <i>AIAA Journal</i> , 2013 , 51, 809-818	2.1	19
120	Anthropogenic emissions during Arctas-A: mean transport characteristics and regional case studies. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 8677-8701	6.8	19
119	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,	3.6	19

118	Source contributions to Northern Hemisphere CO and black carbon during spring and summer 2008 from POLARCAT and START08/preHIPPO observations and MOZART-4		19
117	Airborne measurements of HCl from the marine boundary layer to the lower stratosphere over the North Pacific Ocean during INTEX-B		19
116	Accumulation-mode aerosol number concentrations in the Arctic during the ARCTAS aircraft campaign: Long-range transport of polluted and clean air from the Asian continent. <i>Journal of Geophysical Research</i> , 2011 , 116,		18
115	Constraining remote oxidation capacity with ATom observations. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 7753-7781	6.8	18
114	HFC-152a and HFC-134a emission estimates and characterization of CFCs, CFC replacements, and other halogenated solvents measured during the 2008 ARCTAS campaign (CARB phase) over the South Coast Air Basin of California. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 2655-2669	6.8	17
113	Satellite observations of Mexico City pollution outflow from the Tropospheric Emissions Spectrometer (TES). <i>Atmospheric Environment</i> , 2009 , 43, 1540-1547	5.3	17
112	Cleaner burning aviation fuels can reduce contrail cloudiness. <i>Communications Earth & Environment</i> , 2021 , 2,	6.1	17
111	The NASA Carbon Airborne Flux Experiment (CARAFE): instrumentation and methodology. <i>Atmospheric Measurement Techniques</i> , 2018 , 11, 1757-1776	4	17
110	Attribution and evolution of ozone from Asian wild fires using satellite and aircraft measurements during the ARCTAS campaign. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 169-188	6.8	16
109	Scramjet Combustion Efficiency Measurement via Tomographic Absorption Spectroscopy and Particle Image Velocimetry. <i>AIAA Journal</i> , 2016 , 54, 2463-2471	2.1	16
108	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
107	Physical Processes Controlling the Vertical and Longitudinal Distributions of Relative Humidity in the Tropical Tropopause Layer Over the Pacific. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017 , 122, 6094-6107	4.4	15
106	Efficient vibrational Raman conversion in O ₂ and N ₂ cells by use of superfluorescence seeding. <i>Optics Letters</i> , 1993 , 18, 1132	3	15
105	Evidence of mixing between polluted convective outflow and stratospheric air in the upper troposphere during DC3. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 11,477-11,491	4.4	14
104	Observing Nitrogen Dioxide Air Pollution Inequality Using High-Spatial-Resolution Remote Sensing Measurements in Houston, Texas. <i>Environmental Science & Technology</i> , 2020 , 54, 9882-9895	10.3	14
103	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	4.4	14
102	Missing OH reactivity in the global marine boundary layer. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 4013-4029	6.8	13
101	Correcting model biases of CO in East Asia: impact on oxidant distributions during KORUS-AQ. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 14617-14647	6.8	13

100	Source Contributions to Carbon Monoxide Concentrations During KORUS-AQ Based on CAM-chem Model Applications. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019 , 124, 2796-2822	4.4	12
99	Assessment of Observational Evidence for Direct Convective Hydration of the Lower Stratosphere. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020 , 125, e2020JD032793	4.4	12
98	Intercomparison and evaluation of satellite peroxyacetyl nitrate observations in the upper troposphere/lower stratosphere. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 13541-13559	6.8	12
97	Large biogenic contribution to boundary layer O3-CO regression slope in summer. <i>Geophysical Research Letters</i> , 2017 , 44, 7061-7068	4.9	12
96	Meteorological and air quality forecasting using the WRF/STEM model during the 2008 ARCTAS field campaign. <i>Atmospheric Environment</i> , 2011 , 45, 6901-6910	5.3	12
95	Secondary organic aerosols from anthropogenic volatile organic compounds contribute substantially to air pollution mortality. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 11201-11224	6.8	12
94	Saharan dust, convective lofting, aerosol enhancement zones, and potential impacts on ice nucleation in the tropical upper troposphere. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017 , 122, 8833-8851	4.4	11
93	Exploring Oxidation in the Remote Free Troposphere: Insights From Atmospheric Tomography (ATom). <i>Journal of Geophysical Research D: Atmospheres</i> , 2020 , 125, e2019JD031685	4.4	11
92	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
91	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
90	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	4.4	10
89	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
88	Fundamental Mixing and Combustion Experiments for Propelled Hypersonic Flight 2002 ,		10
87	Two-dimensional imaging of molecular hydrogen in H ₂ -air diffusion flames using two-photon laser-induced fluorescence. <i>Optics Letters</i> , 1991 , 16, 660-2	3	10
86	The POLARCAT Model Intercomparison Project (POLMIP): overview and evaluation with observations		10
85	The Global Budget of Atmospheric Methanol: New Constraints on Secondary, Oceanic, and Terrestrial Sources. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021 , 126, e2020JD033439	4.4	10
84	Sea spray aerosol concentration modulated by sea surface temperature. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	10
83	Heterogeneous Ice Nucleation in the Tropical Tropopause Layer. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018 , 123, 12,210-12,227	4.4	10

82	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	4.4	9
81	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	4.4	9
80	Assessing Measurements of Pollution in the Troposphere (MOPITT) carbon monoxide retrievals over urban versus non-urban regions. <i>Atmospheric Measurement Techniques</i> , 2020 , 13, 1337-1356	4	8
79	Direct Measurement of Combustion Efficiency of a Dual-Mode Scramjet via TDLAT and SPIV (Invited) 2015 ,		8
78	Measurements on NASA Langley Durable Combustor Rig by TDLAT: Preliminary Results 2013 ,		8
77	Conventional/laser diagnostics to assess flow quality in a combustion-heated facility 1999 ,		8
76	Nighttime and daytime dark oxidation chemistry in wildfire plumes: an observation and model analysis of FIREX-AQ aircraft data. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 16293-16317	6.8	8
75	Global Atmospheric Budget of Acetone: Air-Sea Exchange and the Contribution to Hydroxyl Radicals. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020 , 125, e2020JD032553	4.4	8
74	Atmospheric oxidation in the presence of clouds during the Deep Convective Clouds and Chemistry (DC3) study. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 14493-14510	6.8	8
73	Evaluation of deep convective transport in storms from different convective regimes during the DC3 field campaign using WRF-Chem with lightning data assimilation. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017 , 122, 7140-7163	4.4	7
72	Rapid cloud removal of dimethyl sulfide oxidation products limits SO and cloud condensation nuclei production in the marine atmosphere. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	7
71	Chemical transport models often underestimate inorganic aerosol acidity in remote regions of the atmosphere. <i>Communications Earth & Environment</i> , 2021 , 2,	6.1	7
70	Spatial heterogeneity in CO ₂ , CH ₄ , and energy fluxes: insights from airborne eddy covariance measurements over the Mid-Atlantic region. <i>Environmental Research Letters</i> , 2020 , 15, 035008	6.2	6
69	Effect of local and regional sources on the isotopic composition of nitrous oxide in the tropical free troposphere and tropopause layer. <i>Journal of Geophysical Research</i> , 2010 , 115,		6
68	High frequency supersonic pulsed injection 2001 ,		6
67	Observation of vibrational relaxation dynamics in X ³ Sigma(-)g oxygen following stimulated Raman excitation to the v=1 level - Implications for the RELIEF flow tagging technique 1996 ,		6
66	Ozone chemistry in western U.S. wildfire plumes. <i>Science Advances</i> , 2021 , 7, eabl3648	14.3	6
65	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,	3.6	6

64	THE NASA ATMOSPHERIC TOMOGRAPHY (ATom) MISSION: Imaging the Chemistry of the Global Atmosphere. <i>Bulletin of the American Meteorological Society</i> , 2021 , 1-53	6.1	6
63	Aerosol optical properties in the southeastern United States in summer [Part 2: Sensitivity of aerosol optical depth to relative humidity and aerosol parameters		6
62	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
61	Large contribution of biomass burning emissions to ozone throughout the global remote troposphere.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	6
60	Implementation of Maximum-Likelihood Expectation-Maximization Algorithm for Tomographic Reconstruction of TDLAT Measurements 2014 ,		5
59	Observations of total RONO ₂ over the boreal forest: NO _x sinks and HNO ₃ sources		5
58	Aerosol optical properties in the southeastern United States in summer [Part 1: Hygroscopic growth		5
57	Brown carbon aerosol in the North American continental troposphere: sources, abundance, and radiative forcing		5
56	Aircraft-based observation of meteoric material in lower-stratospheric aerosol particles between 15 and 68° N. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 989-1013	6.8	5
55	Chemical Tomography in a Fresh Wildland Fire Plume: A Large Eddy Simulation (LES) Study. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021 , 126, e2021JD035203	4.4	5
54	Comparison of Water Vapor Measurements by Airborne Sun Photometer and Diode Laser Hygrometer on the NASA DC-8. <i>Journal of Atmospheric and Oceanic Technology</i> , 2008 , 25, 1733-1743	2	4
53	Summary of the High Ice Water Content (HIWC) RADAR Flight Campaigns		4
52	IASI carbon monoxide validation over the Arctic during POLARCAT spring and summer campaigns		4
51	Characterization of trace gases measured over Alberta oil sands mining operations: 76 speciated C ₂ -10 volatile organic compounds (VOCs), CO ₂ , CH ₄ , CO, NO, NO ₂ , NO _y , O ₃ , and SO ₂ .		4
50	Episodes of cross-polar transport in the Arctic troposphere during July 2008 as seen from models, satellite, and aircraft observations		4
49	Characterizing summertime chemical boundary conditions for airmasses entering the US West Coast		4
48	Source attribution and interannual variability of Arctic pollution in spring constrained by aircraft (ARCTAS, ARCPAC) and satellite (AIRS) observations of carbon monoxide		4
47	Ambient aerosol properties in the remote atmosphere from global-scale in situ measurements. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 15023-15063	6.8	4

46	Characteristics of greenhouse gas concentrations derived from ground-based FTS spectra at Anmyeondo, South Korea. <i>Atmospheric Measurement Techniques</i> , 2018 , 11, 2361-2374	4	4
45	Dominant role of mineral dust in cirrus cloud formation revealed by global-scale measurements. <i>Nature Geoscience</i> , 2022 , 15, 177-183	18.3	4
44	Spatially Resolved Temperature and Water Vapor Concentration Distributions in a Flat Flame Burner by Tunable Diode Laser Absorption Tomography 2011 ,		3
43	High Temporal Resolution Satellite Observations of Fire Radiative Power Reveal Link Between Fire Behavior and Aerosol and Gas Emissions		3
42	Absorbing aerosol in the troposphere of the Western Arctic during the 2008 ARCTAS/ARCPAC airborne field campaigns		3
41	Boreal forest fire emissions in fresh Canadian smoke plumes: C ₁ , C ₁₀ , volatile organic compounds (VOCs), CO ₂ , CO, NO ₂ , NO, HCN and CH ₃ CN		3
40	Investigation of source attributions of pollution to the Western Arctic during the NASA ARCTAS field campaign		3
39	UAS Chromatograph for Atmospheric Trace Species (UCATS) – a versatile instrument for trace gas measurements on airborne platforms. <i>Atmospheric Measurement Techniques</i> , 2021 , 14, 6795-6819	4	3
38	Measurement report: Long-range transport patterns into the tropical northwest Pacific during the CAMP ₂ Ex aircraft campaign: chemical composition, size distributions, and the impact of convection. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 3777-3802	6.8	3
37	Formaldehyde evolution in US wildfire plumes during the Fire Influence on Regional to Global Environments and Air Quality experiment (FIREX-AQ). <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 18319-18331	6.8	3
36	Chemical composition of tropospheric air masses encountered during high altitude flights (>11.5 km) during the 2009 fall Operation Ice Bridge field campaign. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		2
35	Correction to “An aircraft-based upper troposphere lower stratosphere O ₃ , CO, and H ₂ O climatology for the Northern Hemisphere” <i>Journal of Geophysical Research</i> , 2010 , 115,		2
34	Field observational constraints on the controllers in glyoxal (CHOCHO) reactive uptake to aerosol. <i>Atmospheric Chemistry and Physics</i> , 2022 , 22, 805-821	6.8	2
33	Novel Analysis to Quantify Plume Crosswind Heterogeneity Applied to Biomass Burning Smoke. <i>Environmental Science & Technology</i> , 2021 , 55, 15646-15657	10.3	2
32	Constraining remote oxidation capacity with ATom observations		2
31	Anthropogenic Secondary Organic Aerosols Contribute Substantially to Air Pollution Mortality		2
30	Reactive nitrogen, ozone and ozone production in the Arctic troposphere and the impact of stratosphere-troposphere exchange		2
29	Comparison of the chemical evolution and characteristics of 495 biomass burning plumes intercepted by the NASA DC-8 aircraft during the ARCTAS/CARB-2008 field campaign		2

28	Transport of anthropogenic emissions during ARCTAS-A: a climatology and regional case studies		2
27	Seasonal Variability in Local Carbon Dioxide Combustion Sources over the Central and Eastern US using Airborne In-Situ Enhancement Ratios		2
26	UAS Chromatograph for Atmospheric Trace Species (UCATS) a versatile instrument for trace gas measurements on airborne platforms		2
25	Photochemical evolution of the 2013 California Rim Fire: synergistic impacts of reactive hydrocarbons and enhanced oxidants. <i>Atmospheric Chemistry and Physics</i> , 2022 , 22, 4253-4275	6.8	2
24	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
23	Vertical Transport, Entrainment, and Scavenging Processes Affecting Trace Gases in a Modeled and Observed SEAC4RS Case Study. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020 , 125, e2019JD031457	4.7	1
22	An Evaluation of the Representation of Tropical Tropopause Cirrus in the CESM/CARMA Model Using Satellite and Aircraft Observations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019 , 124, 8659-8687	4.4	1
21	Validation of XCO ₂ and XCH ₄ retrieved from a portable Fourier transform spectrometer with those from in situ profiles from aircraft-borne instruments. <i>Atmospheric Measurement Techniques</i> , 2020 , 13, 5149-5163	4	1
20	Observations of atmospheric oxidation and ozone production in South Korea. <i>Atmospheric Environment</i> , 2022 , 269, 118854	5.3	1
19	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		1
18	Reconstructing ozone chemistry from Asian wild fires using models, satellite and aircraft measurements during the ARCTAS campaign		1
17	Observations of volatile organic compounds during ARCTAS [Part 1: Biomass burning emissions and plume enhancements		1
16	Impact of the deep convection of isoprene and other reactive trace species on radicals and ozone in the upper troposphere		1
15	An analysis of fast photochemistry over high northern latitudes during spring and summer using in-situ observations from ARCTAS and TOPSE		1
14	In situ vertical profiles of aerosol extinction, mass, and composition over the southeast United States during SENEX and SEAC ⁴ RS: observations of a modest aerosol enhancement aloft		1
13	In situ measurements and modeling of reactive trace gases in a small biomass burning plume		1
12	Steady-state aerosol distributions in the extra-tropical, lower stratosphere and the processes that maintain them		1
11	Fine particle pH and sensitivity to NH ₃ and HNO ₃ over summertime South Korea during KORUS-AQ 2020 ,		1

10	Airborne Measurements of Contrail Ice Properties Dependence on Temperature and Humidity. <i>Geophysical Research Letters</i> , 2021 , 48, e2020GL092166	4.9	1
9	Large hemispheric difference in nucleation mode aerosol concentrations in the lowermost stratosphere at mid- and high latitudes. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 9065-9088	6.8	1
8	Understanding and improving model representation of aerosol optical properties for a Chinese haze event measured during KORUS-AQ 2019 ,		1
7	The distribution of sea-salt aerosol in the global troposphere 2018 ,		1
6	Heterogeneity and chemical reactivity of the remote troposphere defined by aircraft measurements. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 13729-13746	6.8	1
5	The MOPITT Version 9 CO product: sampling enhancements and validation. <i>Atmospheric Measurement Techniques</i> , 2022 , 15, 2325-2344	4	1
4	Observations and hypotheses related to low to middle free tropospheric aerosol, water vapor and altocumulus cloud layers within convective weather regimes: a SEAC<sup>4</sup>RS case study. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 11413-11442	6.8	0
3	Seasonal Variability in Local Carbon Dioxide Biomass Burning Sources Over Central and Eastern US Using Airborne In Situ Enhancement Ratios. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021 , 126, e2020JD034525	4.4	0
2	Wintertime Nitrous Oxide Emissions in the San Joaquin Valley of California Estimated from Aircraft Observations. <i>Environmental Science & Technology</i> , 2021 , 55, 4462-4473	10.3	0
1	Cold Air Outbreaks Promote New Particle Formation Off the U.S. East Coast. <i>Geophysical Research Letters</i> , 2022 , 49,	4.9	0