

# G S Diskin

## List of Publications by Year in Descending Order

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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	Field observational constraints on the controllers in glyoxal (CHOCHO) reactive uptake to aerosol. <i>Atmospheric Chemistry and Physics</i> , <b>2022</b> , 22, 805-821	6.8	2
224	Observations of atmospheric oxidation and ozone production in South Korea. <i>Atmospheric Environment</i> , <b>2022</b> , 269, 118854	5.3	1
223	Dominant role of mineral dust in cirrus cloud formation revealed by global-scale measurements. <i>Nature Geoscience</i> , <b>2022</b> , 15, 177-183	18.3	4
222	Cold Air Outbreaks Promote New Particle Formation Off the U.S. East Coast. <i>Geophysical Research Letters</i> , <b>2022</b> , 49,	4.9	0
221	Photochemical evolution of the 2013 California Rim Fire: synergistic impacts of reactive hydrocarbons and enhanced oxidants. <i>Atmospheric Chemistry and Physics</i> , <b>2022</b> , 22, 4253-4275	6.8	2
220	The MOPITT Version 9 CO product: sampling enhancements and validation. <i>Atmospheric Measurement Techniques</i> , <b>2022</b> , 15, 2325-2344	4	1
219	Airborne Emission Rate Measurements Validate Remote Sensing Observations and Emission Inventories of Western U.S. Wildfires.. <i>Environmental Science &amp; Technology</i> , <b>2022</b> ,	10.3	2
218	Ozone chemistry in western U.S. wildfire plumes. <i>Science Advances</i> , <b>2021</b> , 7, eabl3648	14.3	6
217	THE NASA ATMOSPHERIC TOMOGRAPHY (ATom) MISSION: Imaging the Chemistry of the Global Atmosphere. <i>Bulletin of the American Meteorological Society</i> , <b>2021</b> , 1-53	6.1	6
216	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> , <b>2021</b> , 21, 16293-16317	6.8	8
215	Novel Analysis to Quantify Plume Crosswind Heterogeneity Applied to Biomass Burning Smoke. <i>Environmental Science &amp; Technology</i> , <b>2021</b> , 55, 15646-15657	10.3	2
214	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> , <b>2021</b> , 126, e2020JD034525	4.4	0
213	Ambient aerosol properties in the remote atmosphere from global-scale in situ measurements. <i>Atmospheric Chemistry and Physics</i> , <b>2021</b> , 21, 15023-15063	6.8	4
212	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> , <b>2021</b> , 118,	11.5	7
211	UAS Chromatograph for Atmospheric Trace Species (UCATS) – a versatile instrument for trace gas measurements on airborne platforms. <i>Atmospheric Measurement Techniques</i> , <b>2021</b> , 14, 6795-6819	4	3
210	Wintertime Nitrous Oxide Emissions in the San Joaquin Valley of California Estimated from Aircraft Observations. <i>Environmental Science &amp; Technology</i> , <b>2021</b> , 55, 4462-4473	10.3	0
209	Measurement report: Long-range transport patterns into the tropical northwest Pacific during the CAMP&lt;sup&gt;2&lt;/sup&gt;Ex aircraft campaign: chemical composition, size distributions, and the impact of convection. <i>Atmospheric Chemistry and Physics</i> , <b>2021</b> , 21, 3777-3802	6.8	3

208	Airborne Measurements of Contrail Ice Properties Dependence on Temperature and Humidity. <i>Geophysical Research Letters</i> , <b>2021</b> , 48, e2020GL092166	4.9	1
207	Chemical transport models often underestimate inorganic aerosol acidity in remote regions of the atmosphere. <i>Communications Earth &amp; Environment</i> , <b>2021</b> , 2,	6.1	7
206	Cleaner burning aviation fuels can reduce contrail cloudiness. <i>Communications Earth &amp; Environment</i> , <b>2021</b> , 2,	6.1	17
205	Large hemispheric difference in nucleation mode aerosol concentrations in the lowermost stratosphere at mid- and high latitudes. <i>Atmospheric Chemistry and Physics</i> , <b>2021</b> , 21, 9065-9088	6.8	1
204	Aircraft-based observation of meteoric material in lower-stratospheric aerosol particles between 15 and 68° N. <i>Atmospheric Chemistry and Physics</i> , <b>2021</b> , 21, 989-1013	6.8	5
203	The Global Budget of Atmospheric Methanol: New Constraints on Secondary, Oceanic, and Terrestrial Sources. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2021</b> , 126, e2020JD033439	4.4	10
202	Sea spray aerosol concentration modulated by sea surface temperature. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2021</b> , 118,	11.5	10
201	Secondary organic aerosols from anthropogenic volatile organic compounds contribute substantially to air pollution mortality. <i>Atmospheric Chemistry and Physics</i> , <b>2021</b> , 21, 11201-11224	6.8	12
200	Chemical Tomography in a Fresh Wildland Fire Plume: A Large Eddy Simulation (LES) Study. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2021</b> , 126, e2021JD035203	4.4	5
199	Heterogeneity and chemical reactivity of the remote troposphere defined by aircraft measurements. <i>Atmospheric Chemistry and Physics</i> , <b>2021</b> , 21, 13729-13746	6.8	1
198	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> , <b>2021</b> , 118,	11.5	6
197	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> , <b>2021</b> , 21, 18319-18331	6.8	1
196	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> , <b>2020</b> , 125, e2019JD031957	4.4	1
195	Missing OH reactivity in the global marine boundary layer. <i>Atmospheric Chemistry and Physics</i> , <b>2020</b> , 20, 4013-4029	6.8	13
194	Assessment of Observational Evidence for Direct Convective Hydration of the Lower Stratosphere. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2020</b> , 125, e2020JD032793	4.4	12
193	Understanding and improving model representation of aerosol optical properties for a Chinese haze event measured during KORUS-AQ. <i>Atmospheric Chemistry and Physics</i> , <b>2020</b> , 20, 6455-6478	6.8	10
192	Spatial heterogeneity in CO <sub>2</sub> , CH <sub>4</sub> , and energy fluxes: insights from airborne eddy covariance measurements over the Mid-Atlantic region. <i>Environmental Research Letters</i> , <b>2020</b> , 15, 035008	6.2	6
191	Revisiting the effectiveness of HCHO/NO <sub>2</sub> 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> , <b>2020</b> , 224, 117341	5.3	35

190	Assessing Measurements of Pollution in the Troposphere (MOPITT) carbon monoxide retrievals over urban versus non-urban regions. <i>Atmospheric Measurement Techniques</i> , <b>2020</b> , 13, 1337-1356	4	8
189	Influence of cloud, fog, and high relative humidity during pollution transport events in South Korea: Aerosol properties and PM <sub>2.5</sub> variability. <i>Atmospheric Environment</i> , <b>2020</b> , 232, 117530	5.3	20
188	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> , <b>2020</b> , 8,	3.6	6
187	Observation-based modeling of ozone chemistry in the Seoul metropolitan area during the Korea-United States Air Quality Study (KORUS-AQ). <i>Elementa</i> , <b>2020</b> , 8,	3.6	19
186	Investigation of factors controlling PM variability across the South Korean Peninsula during KORUS-AQ. <i>Elementa</i> , <b>2020</b> , 8,	3.6	28
185	Characterization, sources and reactivity of volatile organic compounds (VOCs) in Seoul and surrounding regions during KORUS-AQ. <i>Elementa</i> , <b>2020</b> , 8,	3.6	22
184	Validation of XCO <sub>2</sub> and XCH <sub>4</sub> retrieved from a portable Fourier transform spectrometer with those from in situ profiles from aircraft-borne instruments. <i>Atmospheric Measurement Techniques</i> , <b>2020</b> , 13, 5149-5163	4	1
183	Correcting model biases of CO in East Asia: impact on oxidant distributions during KORUS-AQ. <i>Atmospheric Chemistry and Physics</i> , <b>2020</b> , 20, 14617-14647	6.8	13
182	Constraining remote oxidation capacity with ATom observations. <i>Atmospheric Chemistry and Physics</i> , <b>2020</b> , 20, 7753-7781	6.8	18
181	Exploring Oxidation in the Remote Free Troposphere: Insights From Atmospheric Tomography (ATom). <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2020</b> , 125, e2019JD031685	4.4	11
180	Fine particle pH and sensitivity to NH <sub>3</sub> and HNO <sub>3</sub> over summertime South Korea during KORUS-AQ <b>2020</b> ,		1
179	High Temporal Resolution Satellite Observations of Fire Radiative Power Reveal Link Between Fire Behavior and Aerosol and Gas Emissions. <i>Geophysical Research Letters</i> , <b>2020</b> , 47, e2020GL090707	4.9	11
178	Global Atmospheric Budget of Acetone: Air-Sea Exchange and the Contribution to Hydroxyl Radicals. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2020</b> , 125, e2020JD032553	4.4	8
177	Observing Nitrogen Dioxide Air Pollution Inequality Using High-Spatial-Resolution Remote Sensing Measurements in Houston, Texas. <i>Environmental Science &amp; Technology</i> , <b>2020</b> , 54, 9882-9895	10.3	14
176	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> , <b>2019</b> , 19, 11413-11442	6.8	0
175	The distribution of sea-salt aerosol in the global troposphere. <i>Atmospheric Chemistry and Physics</i> , <b>2019</b> , 19, 4093-4104	6.8	43
174	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> , <b>2019</b> , 116, 11171-11180	11.5	38
173	Source Contributions to Carbon Monoxide Concentrations During KORUS-AQ Based on CAM-chem Model Applications. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2019</b> , 124, 2796-2822	4.4	12

172	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> , <b>2019</b> , 100, 1511-1528	6.1	26
171	Using Short-Term CO/CO <sub>2</sub> Ratios to Assess Air Mass Differences Over the Korean Peninsula During KORUS-AQ. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2019</b> , 124, 10951-10972	4.4	21
170	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> , <b>2019</b> , 124, 8659-8687	4.4	1
169	Understanding and improving model representation of aerosol optical properties for a Chinese haze event measured during KORUS-AQ <b>2019</b> ,		1
168	Characterizing CO and NO <sub>y</sub> Sources and Relative Ambient Ratios in the Baltimore Area Using Ambient Measurements and Source Attribution Modeling. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2018</b> , 123, 3304-3320	4.4	10
167	Characteristics of greenhouse gas concentrations derived from ground-based FTS spectra at Anmyeondo, South Korea. <i>Atmospheric Measurement Techniques</i> , <b>2018</b> , 11, 2361-2374	4	4
166	Atmospheric oxidation in the presence of clouds during the Deep Convective Clouds and Chemistry (DC3) study. <i>Atmospheric Chemistry and Physics</i> , <b>2018</b> , 18, 14493-14510	6.8	8
165	Estimating Source Region Influences on Black Carbon Abundance, Microphysics, and Radiative Effect Observed Over South Korea. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2018</b> , 123, 13,527	4.4	20
164	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> , <b>2018</b> , 18, 17769-17800	6.8	71
163	The distribution of sea-salt aerosol in the global troposphere <b>2018</b> ,		1
162	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> , <b>2018</b> , 123, 10732-10756	4.4	9
161	Heterogeneous Ice Nucleation in the Tropical Tropopause Layer. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2018</b> , 123, 12,210-12,227	4.4	10
160	Evaluating high-resolution forecasts of atmospheric CO and CO <sub>2</sub> from a global prediction system during KORUS-AQ field campaign. <i>Atmospheric Chemistry and Physics</i> , <b>2018</b> , 18, 11007-11030	6.8	26
159	The NASA Carbon Airborne Flux Experiment (CARAFE): instrumentation and methodology. <i>Atmospheric Measurement Techniques</i> , <b>2018</b> , 11, 1757-1776	4	17
158	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> , <b>2018</b> , 123, 7642	4.4	9
157	THE NASA AIRBORNE TROPICAL TROPOPAUSE EXPERIMENT: High-Altitude Aircraft Measurements in the Tropical Western Pacific. <i>Bulletin of the American Meteorological Society</i> , <b>2017</b> , 98, 129-143	6.1	59
156	Airborne measurements of western U.S. wildfire emissions: Comparison with prescribed burning and air quality implications. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2017</b> , 122, 6108-6129	4.4	116
155	In situ measurements of water uptake by black carbon-containing aerosol in wildfire plumes. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2017</b> , 122, 1086-1097	4.4	15

154	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> , <b>2017</b> , 122, 8833-8851	4.4	11
153	Lightning NOx Emissions: Reconciling Measured and Modeled Estimates With Updated NOx Chemistry. <i>Geophysical Research Letters</i> , <b>2017</b> , 44, 9479-9488	4.9	36
152	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> , <b>2017</b> , 122, 6094-6107	4.4	15
151	Large biogenic contribution to boundary layer O3-CO regression slope in summer. <i>Geophysical Research Letters</i> , <b>2017</b> , 44, 7061-7068	4.9	12
150	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> , <b>2017</b> , 122, 7140-7163	4.4	7
149	Airborne quantification of upper tropospheric NOx production from lightning in deep convective storms over the United States Great Plains. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2016</b> , 121, 2002-2028	4.4	24
148	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> , <b>2016</b> , 121, 1922-1934	4.4	33
147	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> , <b>2016</b> , 16, 1003-1015	6.8	23
146	Aerosol optical properties in the southeastern United States in summer [Part 1: Hygroscopic growth. <i>Atmospheric Chemistry and Physics</i> , <b>2016</b> , 16, 4987-5007	6.8	71
145	Intercomparison and evaluation of satellite peroxyacetyl nitrate observations in the upper troposphere/lower stratosphere. <i>Atmospheric Chemistry and Physics</i> , <b>2016</b> , 16, 13541-13559	6.8	12
144	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> , <b>2016</b> , 16, 12039-12058	6.8	19
143	In situ measurements and modeling of reactive trace gases in a small biomass burning plume. <i>Atmospheric Chemistry and Physics</i> , <b>2016</b> , 16, 3813-3824	6.8	51
142	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> , <b>2016</b> , 16, 5009-5019	6.8	33
141	Aircraft-measured indirect cloud effects from biomass burning smoke in the Arctic and subarctic. <i>Atmospheric Chemistry and Physics</i> , <b>2016</b> , 16, 715-738	6.8	22
140	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> , <b>2016</b> , 121, 7383-7414	4.4	71
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> , <b>2016</b> , 121, 4233-4257	4.4	24
138	Airborne observations of bioaerosol over the Southeast United States using a Wideband Integrated Bioaerosol Sensor. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2016</b> , 121, 8506-8524	4.4	30
137	Simulating reactive nitrogen, carbon monoxide, and ozone in California during ARCTAS-CARB 2008 with high wildfire activity. <i>Atmospheric Environment</i> , <b>2016</b> , 128, 28-44	5.3	19

136	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> , <b>2016</b> , Volume 121, 3687-3706	4.4	40
135	On the Susceptibility of Cold Tropical Cirrus to Ice Nuclei Abundance. <i>Journals of the Atmospheric Sciences</i> , <b>2016</b> , 73, 2445-2464	2.1	20
134	Scramjet Combustion Efficiency Measurement via Tomographic Absorption Spectroscopy and Particle Image Velocimetry. <i>AIAA Journal</i> , <b>2016</b> , 54, 2463-2471	2.1	16
133	Formaldehyde column density measurements as a suitable pathway to estimate near-surface ozone tendencies from space. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2016</b> , 121, 13088-13112	4.4	14
132	Variability of O3 and NO2 profile shapes during DISCOVER-AQ: Implications for satellite observations and comparisons to model-simulated profiles. <i>Atmospheric Environment</i> , <b>2016</b> , 147, 133-156	5.3	6
131	Ozone profiles in the Baltimore-Washington region (2006-2011): satellite comparisons and DISCOVER-AQ observations. <i>Journal of Atmospheric Chemistry</i> , <b>2015</b> , 72, 393-422	3.2	19
130	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> , <b>2015</b> , 120, 9718-9738	4.4	22
129	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> , <b>2015</b> , 118, 28-44	5.3	10
128	Revealing important nocturnal and day-to-day variations in fire smoke emissions through a multiplatform inversion. <i>Geophysical Research Letters</i> , <b>2015</b> , 42, 3609-3618	4.9	54
127	Upper tropospheric ozone production from lightning NOx-impacted convection: Smoke ingestion case study from the DC3 campaign. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2015</b> , 120, 2505-2523	4.4	68
126	Evolution of brown carbon in wildfire plumes. <i>Geophysical Research Letters</i> , <b>2015</b> , 42, 4623-4630	4.9	206
125	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> , <b>2015</b> , 15, 3575-3603	6.8	67
124	The POLARCAT Model Intercomparison Project (POLMIP): overview and evaluation with observations. <i>Atmospheric Chemistry and Physics</i> , <b>2015</b> , 15, 6721-6744	6.8	52
123	Brown carbon aerosol in the North American continental troposphere: sources, abundance, and radiative forcing. <i>Atmospheric Chemistry and Physics</i> , <b>2015</b> , 15, 7841-7858	6.8	74
122	In situ vertical profiles of aerosol extinction, mass, and composition over the southeast United States during SENEX and SEAC&sup>4&lt;/sup>RS: observations of a modest aerosol enhancement aloft. <i>Atmospheric Chemistry and Physics</i> , <b>2015</b> , 15, 7085-7102	6.8	46
121	The Deep Convective Clouds and Chemistry (DC3) Field Campaign. <i>Bulletin of the American Meteorological Society</i> , <b>2015</b> , 96, 1281-1309	6.1	140
120	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> , <b>2015</b> , 120, 8448-8468	4.4	44
119	Airborne measurements of organosulfates over the continental U.S. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2015</b> , 120, 2990-3005	4.4	77

118	Direct Measurement of Combustion Efficiency of a Dual-Mode Scramjet via TDLAT and SPIV (Invited) <b>2015</b> ,		8
117	Impact of Bay-Breeze Circulations on Surface Air Quality and Boundary Layer Export. <i>Journal of Applied Meteorology and Climatology</i> , <b>2014</b> , 53, 1697-1713	2.7	53
116	Impact of large-scale dynamics on the microphysical properties of midlatitude cirrus. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2014</b> , 119, 3976-3996	4.4	39
115	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> , <b>2014</b> , 85, 18-30	5.3	30
114	Dehydration in the tropical tropopause layer: A case study for model evaluation using aircraft observations. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2014</b> , 119, 5299-5316	4.4	25
113	Implementation of Maximum-Likelihood Expectation-Maximization Algorithm for Tomographic Reconstruction of TDLAT Measurements <b>2014</b> ,		5
112	Convective transport of water vapor into the lower stratosphere observed during double-tropopause events. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2014</b> , 119, 10,941-10,958	4.4	54
111	Evidence of mixing between polluted convective outflow and stratospheric air in the upper troposphere during DC3. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2014</b> , 119, 11,477-11,491	4.4	14
110	Thunderstorms enhance tropospheric ozone by wrapping and shedding stratospheric air. <i>Geophysical Research Letters</i> , <b>2014</b> , 41, 7785-7790	4.9	49
109	Measured and modeled CO and NO <sub>y</sub> in DISCOVER-AQ: An evaluation of emissions and chemistry over the eastern US. <i>Atmospheric Environment</i> , <b>2014</b> , 96, 78-87	5.3	92
108	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> , <b>2014</b> , 53, 479-505	2.7	51
107	Evaluation of UT/LS hygrometer accuracy by intercomparison during the NASA MACPEX mission. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2014</b> , 119, 1915-1935	4.4	42
106	High Frequency Pulsed Injection into a Supersonic Duct Flow. <i>AIAA Journal</i> , <b>2013</b> , 51, 809-818	2.1	19
105	Ice nucleation and dehydration in the Tropical Tropopause Layer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, 2041-6	11.5	91
104	Impacts of transported background pollutants on summertime western US air quality: model evaluation, sensitivity analysis and data assimilation. <i>Atmospheric Chemistry and Physics</i> , <b>2013</b> , 13, 359-391	6.8	21
103	Pollution transport from North America to Greenland during summer 2008. <i>Atmospheric Chemistry and Physics</i> , <b>2013</b> , 13, 3825-3848	6.8	30
102	Observations of total RONO <sub>2</sub> over the boreal forest: NO <sub>x</sub> sinks and HNO <sub>3</sub> sources. <i>Atmospheric Chemistry and Physics</i> , <b>2013</b> , 13, 4543-4562	6.8	57
101	Source attributions of pollution to the Western Arctic during the NASA ARCTAS field campaign. <i>Atmospheric Chemistry and Physics</i> , <b>2013</b> , 13, 4707-4721	6.8	56



100	Measurements on NASA Langley Durable Combustor Rig by TDLAT: Preliminary Results <b>2013</b> ,		8
99	Emission characteristics of black carbon in anthropogenic and biomass burning plumes over California during ARCTAS-CARB 2008. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a		60
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90	In situ measurements of tropospheric volcanic plumes in Ecuador and Colombia during TC4. <i>Journal of Geophysical Research</i> , <b>2011</b> , 116,		33
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87	Patterns of CO <sub>2</sub> and radiocarbon across high northern latitudes during International Polar Year 2008. <i>Journal of Geophysical Research</i> , <b>2011</b> , 116,		48
86	Supersonic Mass-Flux Measurements via Tunable Diode Laser Absorption and Nonuniform Flow Modeling. <i>AIAA Journal</i> , <b>2011</b> , 49, 2783-2791	2.1	31
85	Spatially Resolved Temperature and Water Vapor Concentration Distributions in a Flat Flame Burner by Tunable Diode Laser Absorption Tomography <b>2011</b> ,		3
84	Effects of aging on organic aerosol from open biomass burning smoke in aircraft and laboratory studies. <i>Atmospheric Chemistry and Physics</i> , <b>2011</b> , 11, 12049-12064	6.8	418
83	Boreal forest fire emissions in fresh Canadian smoke plumes: C<sub>1</sub>-C<sub>10</sub> volatile organic compounds (VOCs), CO<sub>2</sub>, CO, NO<sub>2</sub>, NO, HCN and CH<sub>3</sub>. <i>Atmospheric Chemistry and Physics</i> , <b>2011</b> , 11, 6145-6163	6.8	178

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33	High Temporal Resolution Satellite Observations of Fire Radiative Power Reveal Link Between Fire Behavior and Aerosol and Gas Emissions		3
32	Summary of the High Ice Water Content (HIWC) RADAR Flight Campaigns		4
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