Anne M Thompson

List of Publications by Year in Descending Order

299 papers	14,882 citations	65 h-index	108 g-index
350 ext. papers	16,319 ext. citations	6.1 avg, IF	6.06 L-index

#	Paper	IF	Citations
299	Impact of biomass burning and stratospheric intrusions in the remote South Pacific Ocean troposphere. *Atmospheric Chemistry and Physics*, **2022**, 22, 4075-4099	6.8	2
298	Combined UV and IR ozone profile retrieval from TROPOMI and CrIS measurements. *Atmospheric Measurement Techniques*, **2022**, 15, 2955-2978	4	0
297	TROPOMI tropospheric ozone column data: geophysical assessment and comparison to ozonesondes, GOME-2B and OMI. *Atmospheric Measurement Techniques*, **2021**, 14, 7405-7433	4	2
296	Improving ECC Ozonesonde Data Quality: Assessment of Current Methods and Outstanding Issues. *Earth and Space Science*, **2021**, 8, e2019EA000914	3.1	14
295	COVID-19 Crisis Reduces Free Tropospheric Ozone Across the Northern Hemisphere. *Geophysical Research Letters*, **2021**, 48, e2020GL091987	4.9	19
294	Comprehensive evaluations of diurnal NO₂ measurements during DISCOVER-AQ 2011: effects of resolution-dependent representation of NO_{<i>x</i>} emissions. *Atmospheric Chemistry and Physics*, **2021**, 21, 11133-11160	6.8	1
293	Ozone profile retrieval from nadir TROPOMI measurements in the UV range. *Atmospheric Measurement Techniques*, **2021**, 14, 6057-6082	4	5
292	Validation of SAGE III/ISS Solar Occultation Ozone Products With Correlative Satellite and Ground-Based Measurements. *Journal of Geophysical Research D: Atmospheres*, **2020**, 125, e2020JD032430	4.4	9
291	A Post-2013 Dropoff in Total Ozone at a Third of Global Ozonesonde Stations: Electrochemical Concentration Cell Instrument Artifacts?. *Geophysical Research Letters*, **2020**, 47, e2019GL086791	4.9	10
290	Global-scale distribution of ozone in the remote troposphere from the ATom and HIPPO airborne field missions. *Atmospheric Chemistry and Physics*, **2020**, 20, 10611-10635	6.8	17
289	A new method to correct the electrochemical concentration cell (ECC) ozonesonde time response and its implications for background current and pump efficiency. *Atmospheric Measurement Techniques*, **2020**, 13, 5667-5680	4	7
288	Impact of Aerosols From Urban and Shipping Emission Sources on Terrestrial Carbon Uptake and Evapotranspiration: A Case Study in East Asia. *Journal of Geophysical Research D: Atmospheres*, **2020**, 125, e2019JD030818	4.4	3
287	Evaluation of Stratospheric Intrusions and Biomass Burning Plumes on the Vertical Distribution of Tropospheric Ozone Over the Midwestern United States. *Journal of Geophysical Research D: Atmospheres*, **2020**, 125, e2020JD032454	4.4	6
286	Estimating wildfire-generated ozone over North America using ozonesonde profiles and a differential back trajectory technique. *Atmospheric Environment: X*, **2020**, 7, 100078	2.8	6
285	Statistical analysis of factors driving surface ozone variability over continental South Africa. *Journal of Integrative Environmental Sciences*, **2020**, 17, 1-28	3	1
284	The Effects of a 1998 Observing System Change on MERRA-2-Based Ozone Profile Simulations. *Journal of Geophysical Research D: Atmospheres*, **2019**, 124, 7429	4.4	8
283	Taehwa Research Forest: A receptor site for severe domestic pollution events in Korea during 2016. *Atmospheric Chemistry and Physics*, **2019**, 19, 5051-5067	6.8	5

282	Trends in global tropospheric ozone inferred from a composite record of TOMS/OMI/MLS/OMPS satellite measurements and the MERRA-2 GMI simulation. *Atmospheric Chemistry and Physics*, **2019**, 19, 3257-3269	6.8	60
281	The NASA Wallops Flight Facility Digital Ozonesonde Record: Reprocessing, Uncertainties, and Dual Launches. *Journal of Geophysical Research D: Atmospheres*, **2019**, 124, 3565-3582	4.4	7
280	Ozonesonde Quality Assurance: The JOSIE-SHADOZ (2017) Experience. *Bulletin of the American Meteorological Society*, **2019**, 100, 155-171	6.1	14
279	Tropospheric Ozone Assessment Report: Tropospheric ozone from 1877 to 2016, observed levels, trends and uncertainties. *Elementa*, **2019**, 7,	3.6	60
278	Boundary layer ozone in the Northern Colorado Front Range in July–August 2014 during FRAPPE and DISCOVER-AQ from vertical profile measurements. *Elementa*, **2019**, 7,	3.6	6
277	Comparison of Near-surface NO Pollution with Pandora Total Column NO during the Korea-United States Ocean Color (KORUS OC) Campaign. *Journal of Geophysical Research D: Atmospheres*, **2019**, 124, 13560-13575	4.4	12
276	Balance of Emission and Dynamical Controls on Ozone During the Korea-United States Air Quality Campaign From Multiconstituent Satellite Data Assimilation. *Journal of Geophysical Research D: Atmospheres*, **2019**, 124, 387-413	4.4	36
275	Quantifying stratosphere-troposphere transport of ozone using balloon-borne ozonesondes, radar windprofilers and trajectory models. *Atmospheric Environment*, **2019**, 198, 496-509	5.3	25
274	The Ozone Water-Land Environmental Transition Study (OWLETS): An Innovative Strategy for Understanding Chesapeake Bay Pollution Events. *Bulletin of the American Meteorological Society*, **2019**, 100, 291-306	6.1	20
273	First Reprocessing of Southern Hemisphere ADditional OZonesondes (SHADOZ) Profile Records: 3. Uncertainty in Ozone Profile and Total Column. *Journal of Geophysical Research D: Atmospheres*, **2018**, 123, 3243-3268	4.4	28
272	OMI Satellite and Ground-Based Pandora Observations and Their Application to Surface NO2 Estimations at Terrestrial and Marine Sites. *Journal of Geophysical Research D: Atmospheres*, **2018**, 123, 1441-1459	4.4	12
271	The Network for the Detection of Atmospheric Composition Change (NDACC): history, status and perspectives. *Atmospheric Chemistry and Physics*, **2018**, 18, 4935-4964	6.8	98
270	Characterizing Global Ozonesonde Profile Variability from Surface to the UT/LS with a Clustering Technique and MERRA-2 Reanalysis. *Journal of Geophysical Research D: Atmospheres*, **2018**, 123, 6213-6229	4.4	15
269	Tropospheric Ozone Assessment Report: Present-day distribution and trends of tropospheric ozone relevant to climate and global atmospheric chemistry model evaluation. *Elementa*, **2018**, 6,	3.6	160
268	Designing the Climate Observing System of the Future. *Earth's Future*, **2018**, 6, 80-102	7.9	13
267	Seasonal influences on surface ozone variability in continental South Africa and implications for air quality. *Atmospheric Chemistry and Physics*, **2018**, 18, 15491-15514	6.8	18
266	Trends in Global Tropospheric Ozone Inferred from a Composite Record of TOMS/OMI/MLS/OMPS Satellite Measurements and the MERRA-2 GMI Simulation **2018**,		2
265	Retrievals of tropospheric ozone profiles from the synergism of AIRS and OMI: methodology and validation. *Atmospheric Measurement Techniques*, **2018**, 11, 5587-5605	4	26

264	Homogenizing and estimating the uncertainty in NOAA's long-term vertical ozone profile records measured with the electrochemical concentration cell ozonesonde. *Atmospheric Measurement Techniques*, **2018**, 11, 3661-3687	4	33
263	Seasonal influences on surface ozone variability in continental South Africa and implications for air quality **2018**,		2
262	Harmonisation and trends of 20-year tropical tropospheric ozone data. *Atmospheric Chemistry and Physics*, **2018**, 18, 9189-9205	6.8	5
261	Evaluating high-resolution forecasts of atmospheric CO and CO₂ from a global prediction system during KORUS-AQ field campaign. *Atmospheric Chemistry and Physics*, **2018**, 18, 11007-11030	6.8	26
260	Probabilistic Forecasting of Surface Ozone with a Novel Statistical Approach. *Journal of Applied Meteorology and Climatology*, **2017**, 56, 297-316	2.7	10
259	Ground-based High Spectral Resolution Lidar observation of aerosol vertical distribution in the summertime Southeast United States. *Journal of Geophysical Research D: Atmospheres*, **2017**, 122, 2970-3004	4.4	25
258	Tropospheric ozonesonde profiles at long-term U.S. monitoring sites: 2. Links between Trinidad Head, CA, profile clusters and inland surface ozone measurements. *Journal of Geophysical Research D: Atmospheres*, **2017**, 122, 1261-1280	4.4	12
257	Ozone production by corona discharges during a convective event in DISCOVER-AQ Houston. *Atmospheric Environment*, **2017**, 161, 13-17	5.3	6
256	First reprocessing of Southern Hemisphere ADditional OZonesondes (SHADOZ) profile records (1998–2015): 1. Methodology and evaluation. *Journal of Geophysical Research D: Atmospheres*, **2017**, 122, 6611-6636	4.4	55
255	Validation of 10-year SAO OMI Ozone Profile (PROFOZ) product using ozonesonde observations. *Atmospheric Measurement Techniques*, **2017**, 10, 2455-2475	4	31
254	The Network for the Detection of Atmospheric Composition Change (NDACC): History, status and perspectives **2017**,		3
253	Using observations and source specific model tracers to characterize pollutant transport during FRAPP and DISCOVER-AQ. *Journal of Geophysical Research D: Atmospheres*, **2017**, 122, 10510-10538	4.4	18
252	Ozone Variability and Anomalies Observed during SENEX and SEACRS Campaigns in 2013. *Journal of Geophysical Research D: Atmospheres*, **2017**, 122, 11227-11241	4.4	6
251	The effect of entrainment through atmospheric boundary layer growth on observed and modeled surface ozone in the Colorado Front Range. *Journal of Geophysical Research D: Atmospheres*, **2017**, 122, 6075-6093	4.4	24
250	First Reprocessing of Southern Hemisphere Additional Ozonesondes (SHADOZ) Ozone Profiles (1998–2016): 2. Comparisons With Satellites and Ground-Based Instruments. *Journal of Geophysical Research D: Atmospheres*, **2017**, 122, 13,000	4.4	43
249	Resolving ozone vertical gradients in air quality models **2017**,		8
248	Surface ozone in the Colorado northern Front Range and the influence of oil and gas development during FRAPPE/DISCOVER-AQ in summer 2014. *Elementa*, **2017**, 5,	3.6	21
247	NO_x emissions, isoprene oxidation pathways, vertical mixing, and implications for surface ozone in the Southeast United States **2016**,		8

246	Planning, implementation, and scientific goals of the Studies of Emissions and Atmospheric Composition, Clouds and Climate Coupling by Regional Surveys (SEAC4RS) field mission. *Journal of Geophysical Research D: Atmospheres*, **2016**, 121, 4967-5009	4.4	129
245	Quantifying the contribution of thermally driven recirculation to a high-ozone event along the Colorado Front Range using lidar. *Journal of Geophysical Research D: Atmospheres*, **2016**, 121, 10,377-10,390	4.4	27
244	Spatial and temporal variability of ground and satellite column measurements of NO2 and O3 over the Atlantic Ocean during the Deposition of Atmospheric Nitrogen to Coastal Ecosystems Experiment. *Journal of Geophysical Research D: Atmospheres*, **2016**, 121, 14,175-14,187	4.4	11
243	Atmospheric benzene observations from oil and gas production in the Denver-Julesburg Basin in July and August 2014. *Journal of Geophysical Research D: Atmospheres*, **2016**, 121, 11,055-11,074	4.4	51
242	Tropospheric ozonesonde profiles at long-term U.S. monitoring sites: 1. A climatology based on self-organizing maps. *Journal of Geophysical Research D: Atmospheres*, **2016**, 121, 1320-1339	4.4	18
241	CAMx Ozone Source Attribution in the Eastern United States using Guidance from Observations during DISCOVER-AQ Maryland. *Geophysical Research Letters*, **2016**, 43, 2249-2258	4.9	32
240	Tropospheric ozone change from 1980 to 2010 dominated by equatorward redistribution of emissions. *Nature Geoscience*, **2016**, 9, 875-879	18.3	94
239	Origins of tropospheric ozone interannual variation (IAV) over R□nion: A model investigation. *Journal of Geophysical Research D: Atmospheres*, **2016**, 121, 521-537	4.4	13
238	Analysis of the latitudinal variability of tropospheric ozone in the Arctic using the large number of aircraft and ozonesonde observations in early summer 2008. *Atmospheric Chemistry and Physics*, **2016**, Volume 16, 13341-13358	6.8	7
237	Why do Models Overestimate Surface Ozone in the Southeastern United States?. *Atmospheric Chemistry and Physics*, **2016**, 16, 13561-13577	6.8	239
236	A pervasive role for biomass burning in tropical high ozone/low water structures. *Nature Communications*, **2016**, 7, 10267	17.4	27
235	Ground-based assessment of the bias and long-term stability of fourteen limb and occultation ozone profile data records. *Atmospheric Measurement Techniques*, **2016**, 9, 2497-2534	4	9
234	Frequency and Impact of Summertime Stratospheric Intrusions over Maryland during DISCOVER-AQ (2011): New Evidence from NASA's GEOS-5 Simulations. *Journal of Geophysical Research D: Atmospheres*, **2016**, Volume 121, 3687-3706	4.4	40
233	Ground-based assessment of the bias and long-term stability of 14 limb and occultation ozone profile data records. *Atmospheric Measurement Techniques*, **2016**, 9, 2497-2534	4	74
232	A space-based, high-resolution view of notable changes in urban NOx pollution around the world (2005□2014). *Journal of Geophysical Research D: Atmospheres*, **2016**, 121, 976-996	4.4	249
231	THE FIRST TWENTY YEARS (1994-2014) OF OZONE SOUNDINGS FROM RAPA NUI (27°S, 109°W, 51 M A.S.L.). *Tellus, Series B: Chemical and Physical Meteorology*, **2016**, 68,	3.3	8
230	Formaldehyde column density measurements as a suitable pathway to estimate near-surface ozone tendencies from space. *Journal of Geophysical Research D: Atmospheres*, **2016**, 121, 13088-13112	4.4	14
229	Bay breeze climatology at two sites along the Chesapeake bay from 1986-2010: Implications for surface ozone. *Journal of Atmospheric Chemistry*, **2015**, 72, 355-372	3.2	15

228	Estimating surface NO and SO mixing ratios from fast-response total column observations and potential application to geostationary missions. *Journal of Atmospheric Chemistry*, **2015**, 72, 261-286	3.2	33
227	Ozone correlations between mid-tropospheric partial columns and the near-surface at two mid-atlantic sites during the DISCOVER-AQ campaign in July 2011. *Journal of Atmospheric Chemistry* , **2015**, 72, 373-391	3.2	12
226	Effects of local meteorology and aerosols on ozone and nitrogen dioxide retrievals from OMI and pandora spectrometers in Maryland, USA during DISCOVER-AQ 2011. *Journal of Atmospheric Chemistry*, **2015**, 72, 455-482	3.2	23
225	Evaluation of NAQFC model performance in forecasting surface ozone during the 2011 DISCOVER-AQ campaign. *Journal of Atmospheric Chemistry*, **2015**, 72, 483-501	3.2	3
224	Bay breeze influence on surface ozone at Edgewood, MD during July 2011. *Journal of Atmospheric Chemistry*, **2015**, 72, 335-353	3.2	36
223	Ozone profiles in the Baltimore-Washington region (2006-2011): satellite comparisons and DISCOVER-AQ observations. *Journal of Atmospheric Chemistry*, **2015**, 72, 393-422	3.2	19
222	Characterizing the lifetime and occurrence of stratospheric-tropospheric exchange events in the rocky mountain region using high-resolution ozone measurements. *Journal of Geophysical Research D: Atmospheres*, **2015**, 120, 12410-12424	4.4	26
221	Reactivity and temporal variability of volatile organic compounds in the Baltimore/DC region in July 2011. *Journal of Atmospheric Chemistry*, **2015**, 72, 197-213	3.2	6
220	The POLARCAT Model Intercomparison Project (POLMIP): overview and evaluation with observations. *Atmospheric Chemistry and Physics*, **2015**, 15, 6721-6744	6.8	52
219	Signature of a tropical Pacific cyclone in the composition of the upper troposphere over Socorro, NM. *Geophysical Research Letters*, **2015**, 42, 9530-9537	4.9	7
218	An elevated reservoir of air pollutants over the Mid-Atlantic States during the 2011 DISCOVER-AQ campaign: Airborne measurements and numerical simulations. *Atmospheric Environment*, **2014**, 85, 18-30	5.3	30
217	Surface ozone variability and trends over the South African Highveld from 1990 to 2007. *Journal of Geophysical Research D: Atmospheres*, **2014**, 119, 4323-4342	4.4	19
216	Stratospheric ozone trends and variability as seen by SCIAMACHY from 2002 to 2012. *Atmospheric Chemistry and Physics*, **2014**, 14, 831-846	6.8	58
215	On the hiatus in the acceleration of tropical upwelling since the beginning of the 21st century. *Atmospheric Chemistry and Physics*, **2014**, 14, 12803-12814	6.8	15
214	Tropospheric ozone increases over the southern Africa region: bellwether for rapid growth in Southern Hemisphere pollution?. *Atmospheric Chemistry and Physics*, **2014**, 14, 9855-9869	6.8	47
213	Propagation of radiosonde pressure sensor errors to ozonesonde measurements. *Atmospheric Measurement Techniques*, **2014**, 7, 65-79	4	27
212	Global distribution and trends of tropospheric ozone: An observation-based review. *Elementa*, **2014** , 2,	3.6	292
211	Fire in the Air: Biomass Burning Impacts in a Changing Climate. *Critical Reviews in Environmental Science and Technology*, **2013**, 43, 40-83	11.1	96

210	Ensemble statistical post-processing of the National Air Quality Forecast Capability: Enhancing ozone forecasts in Baltimore, Maryland. *Atmospheric Environment*, **2013**, 81, 517-522	5.3	11
209	Propagation of radiosonde pressure sensor errors to ozonesonde measurements **2013**,		3
208	Classification of Ascension Island and Natal ozonesondes using self-organizing maps. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a		21
207	One year ozonesonde measurements at Kerguelen Island (49.2°S, 70.1°E): Influence of stratosphere-to-troposphere exchange and long-range transport of biomass burning plumes. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a		10
206	Surface ozone at a coastal suburban site in 2009 and 2010: Relationships to chemical and meteorological processes. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a		38
205	Southern Hemisphere Additional Ozonesondes (SHADOZ) ozone climatology (2005–2009): Tropospheric and tropical tropopause layer (TTL) profiles with comparisons to OMI-based ozone products. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a		52
204	Environment Canada cuts threaten the future of science and international agreements. *Eos*, **2012**, 93, 69-69	1.5	1
203	Atmospheric chemistry over southern Africa. *Eos*, **2012**, 93, 110-110	1.5	0
202	An analysis of AERONET aerosol absorption properties and classifications representative of aerosol source regions. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a		240
201	Simulations of Infrared Radiances over a Deep Convective Cloud System Observed during TC4: Potential for Enhancing Nocturnal Ice Cloud Retrievals. *Remote Sensing*, **2012**, 4, 3022-3054	5	8
200	Estimating the climate significance of halogen-driven ozone loss in the tropical marine troposphere. *Atmospheric Chemistry and Physics*, **2012**, 12, 3939-3949	6.8	138
199	Characteristics of tropospheric ozone depletion events in the Arctic spring: analysis of the ARCTAS, ARCPAC, and ARCIONS measurements and satellite BrO observations. *Atmospheric Chemistry and Physics*, **2012**, 12, 9909-9922	6.8	33
198	A multi-sensor upper tropospheric ozone product (MUTOP) based on TES ozone and GOES water vapor: validation with ozonesondes. *Atmospheric Chemistry and Physics*, **2012**, 12, 5661-5676	6.8	4
197	Technical Note: Ozonesonde climatology between 1995 and 2011: description, evaluation and applications. *Atmospheric Chemistry and Physics*, **2012**, 12, 7475-7497	6.8	75
196	The Value of Air Quality Forecasting in the Mid-Atlantic Region. *Weather, Climate, and Society*, **2012** , 4, 69-79	2.3	7
195	Impacts of midlatitude precursor emissions and local photochemistry on ozone abundances in the Arctic. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a		46
194	Gravity and Rossby wave signatures in the tropical troposphere and lower stratosphere based on Southern Hemisphere Additional Ozonesondes (SHADOZ), 1998–2007. *Journal of Geophysical Research*, **2011**, 116,		23
193	An intercomparison of tropospheric ozone retrievals derived from two Aura instruments and measurements in western North America in 2006. *Journal of Geophysical Research*, **2011**, 116,		12

192	Interannual variability and trends in tropical ozone derived from SAGE II satellite data and SHADOZ ozonesondes. *Journal of Geophysical Research*, **2011**, 116,		93
191	Aerosol properties over the Indo-Gangetic Plain: A mesoscale perspective from the TIGERZ experiment. *Journal of Geophysical Research*, **2011**, 116,		122
190	Modeling ozone plumes observed downwind of New York City over the North Atlantic Ocean during the ICARTT field campaign. *Atmospheric Chemistry and Physics*, **2011**, 11, 7375-7397	6.8	17
189	Strategic ozone sounding networks: Review of design and accomplishments. *Atmospheric Environment*, **2011**, 45, 2145-2163	5.3	50
188	Tropopause Characteristics and Variability from 11 yr of SHADOZ Observations in the Southern Tropics and Subtropics. *Journal of Applied Meteorology and Climatology*, **2011**, 50, 1403-1416	2.7	14
187	A study of tropospheric ozone column enhancements over North America using satellite data and a global chemical transport model. *Journal of Geophysical Research*, **2010**, 115,		8
186	Low-ozone bubbles observed in the tropical tropopause layer during the TC4 campaign in 2007. *Journal of Geophysical Research*, **2010**, 115,		8
185	Convective and wave signatures in ozone profiles over the equatorial Americas: Views from TC4 2007 and SHADOZ. *Journal of Geophysical Research*, **2010**, 115,		29
184	High-resolution tropospheric ozone fields for INTEX and ARCTAS from IONS ozonesondes. *Journal of Geophysical Research*, **2010**, 115,		31
183	QBO and ENSO variability in temperature and ozone from SHADOZ, 1998–2005. *Journal of Geophysical Research*, **2010**, 115,		36
182	Convective distribution of tropospheric ozone and tracers in the Central American ITCZ region: Evidence from observations during TC4. *Journal of Geophysical Research*, **2010**, 115,		30
181	Validation of northern latitude Tropospheric Emission Spectrometer stare ozone profiles with ARC-IONS sondes during ARCTAS: sensitivity, bias and error analysis. *Atmospheric Chemistry and Physics*, **2010**, 10, 9901-9914	6.8	46
180	Lightning NO_x emissions over the USA constrained by TES ozone observations and the GEOS-Chem model. *Atmospheric Chemistry and Physics*, **2010**, 10, 107-119	6.8	33
179	Observations of ozone production in a dissipating tropical convective cell during TC4. *Atmospheric Chemistry and Physics*, **2010**, 10, 11189-11208	6.8	11
178	The Arctic Research of the Composition of the Troposphere from Aircraft and Satellites (ARCTAS) mission: design, execution, and first results. *Atmospheric Chemistry and Physics*, **2010**, 10, 5191-5212	6.8	364
177	Trans-Pacific transport of reactive nitrogen and ozone to Canada during spring. *Atmospheric Chemistry and Physics*, **2010**, 10, 8353-8372	6.8	37
176	A comprehensive evaluation of seasonal simulations of ozone in the northeastern US during summers of 2001–2005. *Atmospheric Chemistry and Physics*, **2010**, 10, 9-27	6.8	9
175	An evaluation of the interaction of morning residual layer and afternoon mixed layer ozone in Houston using ozonesonde data. *Atmospheric Environment*, **2010**, 44, 4024-4034	5.3	45

174	Enhanced ozone over western North America from biomass burning in Eurasia during April 2008 as seen in surface and profile observations. *Atmospheric Environment*, **2010**, 44, 4497-4509	5.3	42
173	The variability of free tropospheric ozone over Beltsville, Maryland (39N, 77W) in the summers 2004–2007. *Atmospheric Environment*, **2009**, 43, 1827-1838	5.3	28
172	The impact of chemical lateral boundary conditions on CMAQ predictions of tropospheric ozone over the continental United States. *Environmental Fluid Mechanics*, **2009**, 9, 43-58	2.2	59
171	Impacts of background ozone production on Houston and Dallas, Texas, air quality during the Second Texas Air Quality Study field mission. *Journal of Geophysical Research*, **2009**, 114,		37
170	Impact of the assimilation of ozone from the Tropospheric Emission Spectrometer on surface ozone across North America. *Geophysical Research Letters*, **2009**, 36,	4.9	47
169	Validation of ozone measurements from the Atmospheric Chemistry Experiment (ACE). *Atmospheric Chemistry and Physics*, **2009**, 9, 287-343	6.8	112
168	An Overview of Strategic Ozone Sounding Networks: Insights into Ozone Budgets, UT/LS Processes and Tropical Climate Signatures **2009**, 237-249		
167	Origins of chemical pollution derived from Mid-Atlantic aircraft profiles using a clustering technique. *Atmospheric Environment*, **2008**, 42, 1727-1741	5.3	45
166	Validation of Tropospheric Emission Spectrometer (TES) measurements of the total, stratospheric, and tropospheric column abundance of ozone. *Journal of Geophysical Research*, **2008**, 113,		73
165	Validation of Tropospheric Emission Spectrometer (TES) nadir ozone profiles using ozonesonde measurements. *Journal of Geophysical Research*, **2008**, 113,		160
164	Initial validation of ozone measurements from the High Resolution Dynamics Limb Sounder. *Journal of Geophysical Research*, **2008**, 113,		30
163	Assimilated ozone from EOS-Aura: Evaluation of the tropopause region and tropospheric columns. *Journal of Geophysical Research*, **2008**, 113,		65
162	Atmospheric comparison of electrochemical cell ozonesondes from different manufacturers, and with different cathode solution strengths: The Balloon Experiment on Standards for Ozonesondes. *Journal of Geophysical Research*, **2008**, 113,		108
161	Estimating the summertime tropospheric ozone distribution over North America through assimilation of observations from the Tropospheric Emission Spectrometer. *Journal of Geophysical Research*, **2008**, 113,		77
160	Analysis of the Summer 2004 ozone budget over the United States using Intercontinental Transport Experiment Ozonesonde Network Study (IONS) observations and Model of Ozone and Related Tracers (MOZART-4) simulations. *Journal of Geophysical Research*, **2008**, 113,		44
159	Remote Sensing of Tropospheric Pollution from Space. *Bulletin of the American Meteorological Society*, **2008**, 89, 805-822	6.1	91
158	The Quasi-biennial Oscillation and annual variations in tropical ozone from SHADOZ and HALOE. *Atmospheric Chemistry and Physics*, **2008**, 8, 3929-3936	6.8	27
157	Tropospheric ozone sources and wave activity over Mexico City and Houston during MILAGRO/Intercontinental Transport Experiment (INTEX-B) Ozonesonde Network Study, 2006 (IONS-06). *Atmospheric Chemistry and Physics*, **2008**, 8, 5113-5125	6.8	58

156	Transpacific transport of ozone pollution and the effect of recent Asian emission increases on air quality in North America: an integrated analysis using satellite, aircraft, ozonesonde, and surface observations. *Atmospheric Chemistry and Physics*, **2008**, 8, 6117-6136	6.8	312
155	Assessment of the performance of ECC-ozonesondes under quasi-flight conditions in the environmental simulation chamber: Insights from the Juelich Ozone Sonde Intercomparison Experiment (JOSIE). *Journal of Geophysical Research*, **2007**, 112,		243
154	Mechanisms for the intraseasonal variability of tropospheric ozone over the Indian Ocean during the winter monsoon. *Journal of Geophysical Research*, **2007**, 112,		13
153	Intercontinental Chemical Transport Experiment Ozonesonde Network Study (IONS) 2004: 1. Summertime upper troposphere/lower stratosphere ozone over northeastern North America. *Journal of Geophysical Research*, **2007**, 112,		51
152	Intercontinental Chemical Transport Experiment Ozonesonde Network Study (IONS) 2004: 2. Tropospheric ozone budgets and variability over northeastern North America. *Journal of Geophysical Research*, **2007**, 112,		57
151	Chemical data assimilation estimates of continental U.S. ozone and nitrogen budgets during the Intercontinental Chemical Transport Experiment North America. *Journal of Geophysical Research*, **2007**, 112,		92
150	Comparison of water vapor measurements by airborne Sun photometer and near-coincident in situ and satellite sensors during INTEX/ITCT 2004. *Journal of Geophysical Research*, **2007**, 112,		23
149	Four-dimensional data assimilation experiments with International Consortium for Atmospheric Research on Transport and Transformation ozone measurements. *Journal of Geophysical Research*, **2007**, 112,		56
148	Comparison of Canadian air quality forecast models with tropospheric ozone profile measurements above midlatitude North America during the IONS/ICARTT campaign: Evidence for stratospheric input. *Journal of Geophysical Research*, **2007**, 112,		34
147	Evidence for a recurring eastern North America upper tropospheric ozone maximum during summer. *Journal of Geophysical Research*, **2007**, 112,		74
146	A trajectory-based estimate of the tropospheric ozone column using the residual method. *Journal of Geophysical Research*, **2007**, 112,		83
145	Validation of Aura Microwave Limb Sounder Ozone by ozonesonde and lidar measurements. *Journal of Geophysical Research*, **2007**, 112,		111
144	Southern Hemisphere Additional Ozonesondes (SHADOZ) 19982004 tropical ozone climatology: 3. Instrumentation, station-to-station variability, and evaluation with simulated flight profiles. *Journal of Geophysical Research*, **2007**, 112,		101
143	Aircraft vertical profiles of trace gas and aerosol pollution over the mid-Atlantic United States: Statistics and meteorological cluster analysis. *Journal of Geophysical Research*, **2006**, 111, n/a-n/a		87
142	Enhanced view of the tropical Atlantic ozone paradox and zonal wave one from the in situ MOZAIC and SHADOZ data. *Journal of Geophysical Research*, **2006**, 111,		50
141	Smart balloon observations over the North Atlantic: O3 data analysis and modeling. *Journal of Geophysical Research*, **2006**, 111,		35
140	Seasonal cycles of O3, CO, and convective outflow at the tropical tropopause. *Geophysical Research Letters*, **2006**, 33,	4.9	65
139	Alaskan and Canadian forest fires exacerbate ozone pollution over Houston, Texas, on 19 and 20 July 2004. *Journal of Geophysical Research*, **2006**, 111,		125

138	Large upper tropospheric ozone enhancements above midlatitude North America during summer: In situ evidence from the IONS and MOZAIC ozone measurement network. *Journal of Geophysical Research*, **2006**, 111,		102
137	The observation of nitric acid-containing particles in the tropical lower stratosphere. *Atmospheric Chemistry and Physics*, **2006**, 6, 601-611	6.8	28
136	On the distribution and variability of ozone in the tropical upper troposphere: Implications for tropical deep convection and chemical-dynamical coupling. *Geophysical Research Letters*, **2005**, 32,	4.9	57
135	SHADOZ A TROPICAL OZONESONDE RADIOSONDE NETWORK FOR THE ATMOSPHERIC COMMUNITY. *Bulletin of the American Meteorological Society*, **2004**, 85, 1549-1564	6.1	24
134	. *Tellus, Series B: Chemical and Physical Meteorology*, **2004**, 56, 21-34	3.3	7
133	Convective lofting links Indian Ocean air pollution to paradoxical South Atlantic ozone maxima. *Geophysical Research Letters*, **2004**, 31, n/a-n/a	4.9	26
132	Tropospheric ozone over the North Pacific from ozonesonde observations. *Journal of Geophysical Research*, **2004**, 109,		43
131	Tropospheric ozone climatology over Irene, South Africa, from 1990 to 1994 and 1998 to 2002. *Journal of Geophysical Research*, **2004**, 109,		34
130	Tropospheric ozone over a tropical Atlantic station in the Northern Hemisphere: Paramaribo, Surinam (6 N, 55 W). *Tellus, Series B: Chemical and Physical Meteorology*, **2004**, 56, 21-34	3.3	1
129	Classification of tropospheric ozone profiles over Johannesburg based on mozaic aircraft data. *Atmospheric Chemistry and Physics*, **2003**, 3, 713-723	6.8	20
128	Investigation of the short-time variability of tropical tropospheric ozone. *Annales Geophysicae*, **2003** , 21, 2095-2106	2	7
127	Southern Hemisphere Additional Ozonesondes (SHADOZ) 1998 2000 tropical ozone climatology 1. Comparison with Total Ozone Mapping Spectrometer (TOMS) and ground-based measurements. *Journal of Geophysical Research*, **2003**, 108,		279
126	Southern Hemisphere Additional Ozonesondes (SHADOZ) 1998 2000 tropical ozone climatology 2. Tropospheric variability and the zonal wave-one. *Journal of Geophysical Research*, **2003**, 108,		162
125	Linking horizontal and vertical transports of biomass fire emissions to the Tropical Atlantic Ozone Paradox during the Northern Hemisphere winter season: 1999. *Journal of Geophysical Research*, **2003**, 108,		16
124	Spline Adaptation in Extended Linear Models (with comments and a rejoinder by the authors. *Statistical Science*, **2002**, 17, 2	2.4	58
123	Chemistry-transport modeling of the satellite observed distribution of tropical troposheric ozone. *Atmospheric Chemistry and Physics*, **2002**, 2, 103-120	6.8	24
122	Tropical ozone as an indicator of deep convection. *Journal of Geophysical Research*, **2002**, 107, ACH 13-1		106
121	Strategies for observing and modeling pollution. *Eos*, **2002**, 83, 575	1.5	

120	Lusaka, Zambia, during SAFARI-2000: Convergence of local and imported ozone pollution. *Geophysical Research Letters*, **2002**, 29, 37-1-37-4	4.9	13
119	Regional levels of ozone in the troposphere over eastern Mediterranean. *Journal of Geophysical Research*, **2002**, 107, PAU 7-1		63
118	Trace gas transport and scavenging in PEM-Tropics B South Pacific Convergence Zone convection. *Journal of Geophysical Research*, **2001**, 106, 32591-32607		38
117	Lidar measurements during Aerosols99. *Journal of Geophysical Research*, **2001**, 106, 20821-20831		34
116	Tropical tropospheric ozone and biomass burning. *Science*, **2001**, 291, 2128-32	33.3	180
115	Ozone in the Pacific tropical troposphere from ozonesonde observations. *Journal of Geophysical Research*, **2001**, 106, 32503-32525		49
114	Introduction to special section: Subsonic Assessment Ozone and Nitrogen Oxide Experiment (SONEX) and Pollution From Aircraft Emissions in the North Atlantic Flight Corridor (POLINAT 2). *Journal of Geophysical Research*, **2000**, 105, 3595-3603		21
113	Atmospheric sulfur cycle simulated in the global model GOCART: Model description and global properties. *Journal of Geophysical Research*, **2000**, 105, 24671-24687		456
112	Evidence of convection as a major source of condensation nuclei in the northern midlatitude upper troposphere. *Geophysical Research Letters*, **2000**, 27, 369-372	4.9	30
111	A tropical Atlantic Paradox: Shipboard and satellite views of a tropospheric ozone maximum and wave-one in January–February 1999. *Geophysical Research Letters*, **2000**, 27, 3317-3320	4.9	98
110	Nonmethane hydrocarbon measurements in the North Atlantic Flight Corridor during the Subsonic Assessment Ozone and Nitrogen Oxide Experiment. *Journal of Geophysical Research*, **2000**, 105, 3785-3793		10
109	Atmospheric chemical transport based on high-resolution model-derived winds: A case study. *Journal of Geophysical Research*, **2000**, 105, 3807-3820		12
108	Impact of aircraft emissions on reactive nitrogen over the North Atlantic Flight Corridor region. *Journal of Geophysical Research*, **2000**, 105, 3665-3677		26
107	Mesoscale numerical investigations of air traffic emissions over the North Atlantic during SONEX flight 8: A case study. *Journal of Geophysical Research*, **2000**, 105, 3821-3832		5
106	Model calculations of the impact of NO x from air traffic, lightning, and surface emissions, compared with measurements. *Journal of Geophysical Research*, **2000**, 105, 3833-3850		31
105	Measurements of nitrogen oxides at the tropopause: Attribution to convection and correlation with lightning. *Journal of Geophysical Research*, **2000**, 105, 3679-3700		31
104	Tropical convective outflow and near surface equivalent potential temperatures. *Geophysical Research Letters*, **2000**, 27, 2549-2552	4.9	45
103	Impact of aircraft emissions on NOx in the lowermost stratosphere at northern midlatitudes. *Geophysical Research Letters*, **1999**, 26, 3065-3068	4.9	9

102	Sources of reactive nitrogen in the upper troposphere during SONEX. *Geophysical Research Letters*, **1999**, 26, 2441-2444	4.9	15
101	Perspectives on NO, NOy, and fine aerosol sources and variability during SONEX. *Geophysical Research Letters*, **1999**, 26, 3073-3076	4.9	28
100	SONEX airborne mission and coordinated POLINAT-2 activity: Overview and accomplishments. *Geophysical Research Letters*, **1999**, 26, 3053-3056	4.9	52
99	Correlation between smoke and tropospheric ozone concentration in Cuiab during Smoke, Clouds, and Radiation-Brazil (SCAR-B). *Journal of Geophysical Research*, **1999**, 104, 12113-12129		29
98	Observations of convective and dynamical instabilities in tropopause folds and their contribution to stratosphere-troposphere exchange. *Journal of Geophysical Research*, **1999**, 104, 21549-21568		29
97	Tropical tropospheric ozone (TTO) maps from Nimbus 7 and Earth Probe TOMS by the modified-residual method: Evaluation with sondes, ENSO signals, and trends from Atlantic regional time series. *Journal of Geophysical Research*, **1999**, 104, 26961-26975		64
96	Ozone nighttime recovery in the marine boundary layer: Measurement and simulation of the ozone diurnal cycle at Reunion Island. *Journal of Geophysical Research*, **1998**, 103, 3463-3473		35
95	Processes controlling dimethylsulfide over the ocean: Case studies using a 3-D model driven by assimilated meteorological fields. *Journal of Geophysical Research*, **1998**, 103, 8341-8353		18
94	Biomass burning aerosol size distribution and modeled optical properties. *Journal of Geophysical Research*, **1998**, 103, 31879-31891		111
93	Physically based modeling of atmosphere-to-snow-to-firn transfer of H2O2 at South Pole. *Journal of Geophysical Research*, **1998**, 103, 10561-10570		62
92	Tropical tropospheric ozone from total ozone mapping spectrometer by a modified residual method. *Journal of Geophysical Research*, **1998**, 103, 22129-22145		72
91	Smoke, Clouds, and Radiation-Brazil (SCAR-B) experiment. *Journal of Geophysical Research*, **1998**, 103, 31783-31808		243
90	Tropical Deep Convection and Ozone Formation. *Bulletin of the American Meteorological Society*, **1997**, 78, 1043-1054	6.1	75
89	Remote sensing of carbon monoxide over the continental United States on September 12 13, 1993. *Journal of Geophysical Research*, **1997**, 102, 10695-10709		10
88	Atmospheric transport and photochemistry of ozone over central Southern Africa during the Southern Africa Fire-Atmosphere Research Initiative. *Journal of Geophysical Research*, **1997**, 102, 10623-10635		12
87	A Monte Carlo study of upper tropospheric reactive nitrogen during the Pacific Exploratory Mission in the Western Pacific Ocean (PEM-West B). *Journal of Geophysical Research*, **1997**, 102, 28437-28446		6
86	Physically based inversion of surface snow concentrations of H2O2 to atmospheric concentrations at South Pole. *Geophysical Research Letters*, **1997**, 24, 441-444	4.9	26
85	Effect of an improved cloud climatology on the total ozone mapping spectrometer total ozone retrieval. *Journal of Geophysical Research*, **1997**, 102, 4247-4255		19

84	Potential ozone production following convective transport based on future emission scenarios. *Atmospheric Environment*, **1996**, 30, 667-672	5.3	3
83	TRACE A trajectory intercomparison: 2. Isentropic and kinematic methods. *Journal of Geophysical Research*, **1996**, 101, 23927-23939		68
82	Ozone over southern Africa during SAFARI-92/TRACE A. *Journal of Geophysical Research*, **1996**, 101, 23793-23807		63
81	TRACE A trajectory intercomparison: 1. Effects of different input analyses. *Journal of Geophysical Research*, **1996**, 101, 23909-23925		36
80	Atmospheric sulfur cycling in the tropical Pacific marine boundary layer (12°S, 135°W): A comparison of field data and model results: 1. Dimethylsulfide. *Journal of Geophysical Research*, **1996**, 101, 6899-6909		56
79	Three-dimensional radon 222 calculations using assimilated meteorological data and a convective mixing algorithm. *Journal of Geophysical Research*, **1996**, 101, 6871-6881		92
78	Ozone, hydroperoxides, oxides of nitrogen, and hydrocarbon budgets in the marine boundary layer over the South Atlantic. *Journal of Geophysical Research*, **1996**, 101, 24221-24234		84
77	Detection of biomass burning smoke from TOMS measurements. *Geophysical Research Letters*, **1996**, 23, 745-748	4.9	164
76	Convective transport of biomass burning emissions over Brazil during TRACE A. *Journal of Geophysical Research*, **1996**, 101, 23993-24012		221
75	Mesoscale model simulations of TRACE A and preliminary regional experiment for storm-scale operational and research meteorology convective systems and associated tracer transport. *Journal of Geophysical Research*, **1996**, 101, 24013-24027		22
74	Zonal asymmetries in southern hemisphere column ozone: Implications of biomass burning. *Journal of Geophysical Research*, **1996**, 101, 14421-14427		35
73	A new method of deriving time-averaged tropospheric column ozone over the tropics using total ozone mapping spectrometer (TOMS) radiances: Intercomparison and analysis using TRACE A data. *Journal of Geophysical Research*, **1996**, 101, 24317-24330		48
72	Vertical ozone distribution over southern Africa and adjacent oceans during SAFARI-92. *Journal of Geophysical Research*, **1996**, 101, 23823-23833		42
71	Where did tropospheric ozone over southern Africa and the tropical Atlantic come from in October 1992? Insights from TOMS, GTE TRACE A, and SAFARI 1992. *Journal of Geophysical Research*, **1996**, 101, 24251-24278		183
70	Kinetic data imprecisions in photochemical rate calculations: Means, medians, and temperature dependence. *Journal of Geophysical Research*, **1996**, 101, 20953-20964		20
69	Transport-induced interannual variability of carbon monoxide determined using a chemistry and transport model. *Journal of Geophysical Research*, **1996**, 101, 28655-28669		82
68	Biomass burning and the atmosphere□ccomplishments and research opportunities. *Atmospheric Environment*, **1996**, 30, i-ii	5.3	5
67	Modeling Framework For Atmospheric Trace Gas Measurements at the Air-Snow Interface **1996**, 225-248		2

66	Predicting phytoplankton composition from space: Using the ratio of euphotic depth to mixed-layer depth: An evaluation. *Remote Sensing of Environment*, **1995**, 53, 172-176	13.2	12
65	On the derivation of tropospheric column ozone from radiances measured by the total ozone mapping spectrometer. *Journal of Geophysical Research*, **1995**, 100, 11137		53
64	Vertical transport by convective clouds: Comparisons of three modeling approaches. *Geophysical Research Letters*, **1995**, 22, 1089-1092	4.9	12
63	Measuring and Modeling the Tropospheric Hydroxyl Radical (OH). *Journals of the Atmospheric Sciences*, **1995**, 52, 3315-3327	2.1	19
62	Photochemical Modeling of Chemical Cycles: Issues Related to the Interpretation of Ice Core Data **1995**, 265-297		10
61	Convective transport over the central United States and its role in regional CO and ozone budgets. *Journal of Geophysical Research*, **1994**, 99, 18703		77
60	Aspects of Modeling the Tropospheric Hydroxyl Radical Concentration. *Israel Journal of Chemistry*, **1994**, 34, 277-288	3.4	4
59	An Intercomparison of Isentropic Trajectories over the South Atlantic. *Monthly Weather Review*, **1994**, 122, 864-879	2.4	38
58	Biomass Burning in the Global Environment: First Results from the IGAC/BIBEX Field Campaign STARE/TRACE-A/SAFARI-92 **1994**, 83-101		41
57	Nitric oxide in the equatorial Pacific boundary layer: SAGA 3 measurements. *Journal of Geophysical Research*, **1993**, 98, 16949		37
56	Ozone observations and a model of marine boundary layer photochemistry during SAGA 3. *Journal of Geophysical Research*, **1993**, 98, 16955		101
55	Third Soviet-American Gases and Aerosols (SAGA 3) experiment: Overview and meteorological and oceanographic conditions. *Journal of Geophysical Research*, **1993**, 98, 16893		17
54	Upper tropospheric ozone production following mesoscale convection during STEP/EMEX. *Journal of Geophysical Research*, **1993**, 98, 8737-8749		65
53	Alkyl nitrates, nonmethane hydrocarbons, and halocarbon gases over the equatorial Pacific Ocean during SAGA 3. *Journal of Geophysical Research*, **1993**, 98, 16933		146
52	Effect of marine stratocumulus on TOMS ozone. *Journal of Geophysical Research*, **1993**, 98, 23051		49
51	The atmospheric CH4 increase since the Last Glacial Maximum. *Tellus, Series B: Chemical and Physical Meteorology*, **1993**, 45, 228-241	3.3	64
50	The atmospheric CH4 increase since the Last Glacial Maximum. *Tellus, Series B: Chemical and Physical Meteorology*, **1993**, 45, 242-257	3.3	29
49	. *Tellus, Series B: Chemical and Physical Meteorology*, **1993**, 45, 228-241	3.3	83

48	. *Tellus, Series B: Chemical and Physical Meteorology*, **1993**, 45, 242-257	3.3	49
47	The Current and Future Environmental Role of Atmospheric Methane: Model Studies and Uncertainties **1993**, 514-531		1
46	The oxidizing capacity of the earth's atmosphere: probable past and future changes. *Science*, **1992**, 256, 1157-65	33.3	659
45	Methane reductions: Implications for global warming and atmospheric chemical change. *Atmospheric Environment Part A General Topics*, **1992**, 26, 2665-2668		32
44	Modelling the response of tropospheric trace species to changing source gas concentrations. *Atmospheric Environment Part A General Topics*, **1992**, 26, 195-196		1
43	A regional estimate of convective transport of CO from biomass burning. *Geophysical Research Letters*, **1992**, 19, 289-292	4.9	35
42	Free tropospheric ozone production following entrainment of urban plumes into deep convection. *Journal of Geophysical Research*, **1992**, 97, 17985		124
41	Ozone production potential following convective redistribution of biomass burning emissions. *Journal of Atmospheric Chemistry*, **1992**, 14, 297-313	3.2	62
40	How chemical kinetics uncertainties affect concentrations computed in an atmospheric photochemical model. *Chemometrics and Intelligent Laboratory Systems*, **1991**, 10, 69-79	3.8	4
39	Perturbations to tropospheric oxidants, 1985–2035: 2. Calculations of hydrogen peroxide in chemically coherent regions. *Atmospheric Environment Part A General Topics*, **1991**, 25, 1837-1850		11
38	Photochemical ozone production in tropical squall line convection during NASA Global Tropospheric Experiment/Amazon Boundary Layer Experiment 2A. *Journal of Geophysical Research*, **1991**, 96, 3099		51
37	Effect of chemical kinetics uncertainties on calculated constituents in a tropospheric photochemical model. *Journal of Geophysical Research*, **1991**, 96, 13089		91
36	Effects of Atmospheric Chemical and Climate Change on Tropospheric Ozone. *Ozone: Science and Engineering*, **1990**, 12, 177-194	2.4	3
35	Atmospheric residence times for soluble species: Differences in numerical and analytical model results. *Atmospheric Environment Part A General Topics*, **1990**, 24, 519-524		2
34	Perturbations to tropospheric oxidants, 1985–2035: 1. Calculations of ozone and OH in chemically coherent regions. *Journal of Geophysical Research*, **1990**, 95, 9829-9844		51
33	Model calculations of tropospheric ozone production potential following observed convective events. *Journal of Geophysical Research*, **1990**, 95, 14049		120
32	Cloud draft structure and trace gas transport. *Journal of Geophysical Research*, **1990**, 95, 17015		78
31	Two approaches to determining the sea-to-air flux of dimethyl sulfide: Satellite ocean color and a photochemical model with atmospheric measurements. *Journal of Geophysical Research*, **1990**, 95, 20551		32

30	Sensitivity of tropospheric oxidants to global chemical and climate change. *Atmospheric Environment*, **1989**, 23, 519-532		74
29	Sensitivity of tropospheric hydrogen peroxide to global chemical and climate change. *Geophysical Research Letters*, **1989**, 16, 53-56	4.9	30
28	Comparison of parameterized nitric acid rainout rates using a coupled stochastic-photochemical tropospheric model. *Journal of Geophysical Research*, **1989**, 94, 5219		7
27	Atmospheric CH4, CO and OH from 1860 to 1985. *Nature*, **1986**, 321, 148-150	50.4	47
26	Possible perturbations to atmospheric CO, CH4, and OH. *Journal of Geophysical Research*, **1986**, 91, 10853		173
25	The effect of clouds on photolysis rates and ozone formation in the unpolluted troposphere. *Journal of Geophysical Research*, **1984**, 89, 1341		79
24	Mean profiles of trace reactive species in the unpolluted marine surface layer. *Journal of Geophysical Research*, **1984**, 89, 4788		38
23	Air-sea fluxes of transient atmospheric species. *Journal of Geophysical Research*, **1983**, 88, 6696		61
22	Effects of heterogeneous processes on NO3, HONO, and HNO3 chemistry in the troposphere. *Journal of Geophysical Research*, **1983**, 88, 10883		137
21	Clouds and wet removal as causes of variability in the trace-gas composition of the marine troposphere. *Journal of Geophysical Research*, **1982**, 87, 8811		100
20	. *Tellus*, **1980**, 32, 376-383		24
19	Wet and dry removal of tropospheric formaldehyde at a coastal site. *Tellus*, **1980**, 32, 376-383		27
18	Kinetic analysis of the photochemistry of alkyldiazenes in hydrocarbon solution. The quasi-steady state. *The Journal of Physical Chemistry*, **1979**, 83, 314-320		3
17	Observations of ozone production in a dissipating tropical convective cell during TC4		2
16	Ozonesonde climatology between 1995 and 2009: description, evaluation and applications		5
15	A Multi-sensor Upper Tropospheric Ozone Product (MUTOP) based on TES ozone and GOES water vapor: validation with ozonesondes		2
14	Estimating the climate significance of halogen-driven ozone loss in the tropical marine troposphere		5
13	Stratospheric ozone trends and variability as seen by SCIAMACHY during the last decade		7

12	The POLARCAT Model Intercomparison Project (POLMIP): overview and evaluation with observations		10
11	On the hiatus in the acceleration of tropical upwelling since the beginning of the 21st century		1
10	Classification of tropospheric ozone profiles over Johannesburg based on MOZAIC aircraft data		3
9	Validation of ozone measurements from the Atmospheric Chemistry Experiment (ACE)		4
8	Tropospheric ozone sources and wave activity over Mexico City and Houston during MILAGRO/Intercontinental Transport Experiment (INTEX-B) Ozonesonde Network Study, 2006 (IONS-06)		8
7	The Quasi-biennial Oscillation and annual variations in tropical ozone from SHADOZ and HALOE		3
6	Transpacific transport of ozone pollution and the effect of recent Asian emission increases on air quality in North America: an integrated analysis using satellite, aircraft, ozonesonde, and surface observations		6
5	Lightning NO_x emissions over the USA investigated using TES, NLDN, LRLDN, IONS data and the GEOS-Chem model		2
4	The ARCTAS aircraft mission: design and execution		24
3	Validation of northern latitude tropospheric emission spectrometer stare ozone profiles with ARC-IONS sondes during ARCTAS		6
2	Homogenizing and Estimating the Uncertainty in NOAA's Long Term Vertical Ozone Profile Records Measured with the Electrochemical Concentration Cell Ozonesonde		4
1	Regional and Seasonal Trends in Tropical Ozone from SHADOZ Profiles: Reference for Models and Satellite Products 9 October 2021. *Journal of Geophysical Research D: Atmospheres*,e2021JD034691	4.4	8