Anne M Thompson

List of Publications by Citations

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	The oxidizing capacity of the earth's atmosphere: probable past and future changes. *Science*, **1992**, 256, 1157-65	33.3	659
298	Atmospheric sulfur cycle simulated in the global model GOCART: Model description and global properties. *Journal of Geophysical Research*, **2000**, 105, 24671-24687		456
297	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
296	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
295	Global distribution and trends of tropospheric ozone: An observation-based review. *Elementa*, **2014** , 2,	3.6	292
294	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
293	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
292	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
291	Smoke, Clouds, and Radiation-Brazil (SCAR-B) experiment. *Journal of Geophysical Research*, **1998**, 103, 31783-31808		243
290	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
289	Why do Models Overestimate Surface Ozone in the Southeastern United States?. *Atmospheric Chemistry and Physics*, **2016**, 16, 13561-13577	6.8	239
288	Convective transport of biomass burning emissions over Brazil during TRACE A. *Journal of Geophysical Research*, **1996**, 101, 23993-24012		221
287	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
286	Tropical tropospheric ozone and biomass burning. *Science*, **2001**, 291, 2128-32	33.3	180
285	Possible perturbations to atmospheric CO, CH4, and OH. *Journal of Geophysical Research*, **1986**, 91, 10853		173
284	Detection of biomass burning smoke from TOMS measurements. *Geophysical Research Letters*, **1996**, 23, 745-748	4.9	164
283	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

282	Validation of Tropospheric Emission Spectrometer (TES) nadir ozone profiles using ozonesonde measurements. *Journal of Geophysical Research*, **2008**, 113,		160
281	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
280	Alkyl nitrates, nonmethane hydrocarbons, and halocarbon gases over the equatorial Pacific Ocean during SAGA 3. *Journal of Geophysical Research*, **1993**, 98, 16933		146
279	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
278	Effects of heterogeneous processes on NO3, HONO, and HNO3 chemistry in the troposphere. *Journal of Geophysical Research*, **1983**, 88, 10883		137
277	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
276	Alaskan and Canadian forest fires exacerbate ozone pollution over Houston, Texas, on 19 and 20 July 2004. *Journal of Geophysical Research*, **2006**, 111,		125
275	Free tropospheric ozone production following entrainment of urban plumes into deep convection. *Journal of Geophysical Research*, **1992**, 97, 17985		124
274	Aerosol properties over the Indo-Gangetic Plain: A mesoscale perspective from the TIGERZ experiment. *Journal of Geophysical Research*, **2011**, 116,		122
273	Model calculations of tropospheric ozone production potential following observed convective events. *Journal of Geophysical Research*, **1990**, 95, 14049		120
272	Validation of ozone measurements from the Atmospheric Chemistry Experiment (ACE). *Atmospheric Chemistry and Physics*, **2009**, 9, 287-343	6.8	112
271	Validation of Aura Microwave Limb Sounder Ozone by ozonesonde and lidar measurements. *Journal of Geophysical Research*, **2007**, 112,		111
270	Biomass burning aerosol size distribution and modeled optical properties. *Journal of Geophysical Research*, **1998**, 103, 31879-31891		111
269	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
268	Tropical ozone as an indicator of deep convection. *Journal of Geophysical Research*, **2002**, 107, ACH 13-1		106
267	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
266	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
265	Ozone observations and a model of marine boundary layer photochemistry during SAGA 3. *Journal of Geophysical Research*, **1993**, 98, 16955		101

264	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
263	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
262	A tropical Atlantic Paradox: Shipboard and satellite views of a tropospheric ozone maximum and wave-one in JanuaryFebruary 1999. *Geophysical Research Letters*, **2000**, 27, 3317-3320	4.9	98
261	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
260	Tropospheric ozone change from 1980 to 2010 dominated by equatorward redistribution of emissions. *Nature Geoscience*, **2016**, 9, 875-879	18.3	94
259	Interannual variability and trends in tropical ozone derived from SAGE II satellite data and SHADOZ ozonesondes. *Journal of Geophysical Research*, **2011**, 116,		93
258	Chemical data assimilation estimates of continental U.S. ozone and nitrogen budgets during the Intercontinental Chemical Transport ExperimentNorth America. *Journal of Geophysical Research*, **2007**, 112,		92
257	Three-dimensional radon 222 calculations using assimilated meteorological data and a convective mixing algorithm. *Journal of Geophysical Research*, **1996**, 101, 6871-6881		92
256	Remote Sensing of Tropospheric Pollution from Space. *Bulletin of the American Meteorological Society*, **2008**, 89, 805-822	6.1	91
255	Effect of chemical kinetics uncertainties on calculated constituents in a tropospheric photochemical model. *Journal of Geophysical Research*, **1991**, 96, 13089		91
254	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
253	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
252	A trajectory-based estimate of the tropospheric ozone column using the residual method. *Journal of Geophysical Research*, **2007**, 112,		83
251	. *Tellus, Series B: Chemical and Physical Meteorology*, **1993**, 45, 228-241	3.3	83
250	Transport-induced interannual variability of carbon monoxide determined using a chemistry and transport model. *Journal of Geophysical Research*, **1996**, 101, 28655-28669		82
249	The effect of clouds on photolysis rates and ozone formation in the unpolluted troposphere. *Journal of Geophysical Research*, **1984**, 89, 1341		79
248	Cloud draft structure and trace gas transport. *Journal of Geophysical Research*, **1990**, 95, 17015		78
247	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

246	Convective transport over the central United States and its role in regional CO and ozone budgets. *Journal of Geophysical Research*, **1994**, 99, 18703		77
245	Technical Note: Ozonesonde climatology between 1995 and 2011: description, evaluation and applications. *Atmospheric Chemistry and Physics*, **2012**, 12, 7475-7497	6.8	75
244	Tropical Deep Convection and Ozone Formation. *Bulletin of the American Meteorological Society*, **1997**, 78, 1043-1054	6.1	75
243	Evidence for a recurring eastern North America upper tropospheric ozone maximum during summer. *Journal of Geophysical Research*, **2007**, 112,		74
242	Sensitivity of tropospheric oxidants to global chemical and climate change. *Atmospheric Environment*, **1989**, 23, 519-532		74
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240	Validation of Tropospheric Emission Spectrometer (TES) measurements of the total, stratospheric, and tropospheric column abundance of ozone. *Journal of Geophysical Research*, **2008**, 113,		73
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233	The atmospheric CH4 increase since the Last Glacial Maximum. *Tellus, Series B: Chemical and Physical Meteorology*, **1993**, 45, 228-241	3.3	64
232	Regional levels of ozone in the troposphere over eastern Mediterranean. *Journal of Geophysical Research*, **2002**, 107, PAU 7-1		63
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230	Physically based modeling of atmosphere-to-snow-to-firn transfer of H2O2 at South Pole. *Journal of Geophysical Research*, **1998**, 103, 10561-10570		62
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226	Tropospheric Ozone Assessment Report: Tropospheric ozone from 1877 to 2016, observed levels, trends and uncertainties. *Elementa*, **2019**, 7,	3.6	60
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223	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
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219	Four-dimensional data assimilation experiments with International Consortium for Atmospheric Research on Transport and Transformation ozone measurements. *Journal of Geophysical Research*, **2007**, 112,		56
218	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
217	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
216	On the derivation of tropospheric column ozone from radiances measured by the total ozone mapping spectrometer. *Journal of Geophysical Research*, **1995**, 100, 11137		53
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193	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

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188	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
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179	QBO and ENSO variability in temperature and ozone from SHADOZ, 1998–2005. *Journal of Geophysical Research*, **2010**, 115,		36
178	TRACE A trajectory intercomparison: 1. Effects of different input analyses. *Journal of Geophysical Research*, **1996**, 101, 23909-23925		36
177	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
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171	Tropospheric ozone climatology over Irene, South Africa, from 1990 to 1994 and 1998 to 2002. *Journal of Geophysical Research*, **2004**, 109,		34
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167	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
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159	Measurements of nitrogen oxides at the tropopause: Attribution to convection and correlation with lightning. *Journal of Geophysical Research*, **2000**, 105, 3679-3700		31
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145	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
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