Anne M Thompson

List of Publications by Year
in descending order

305	19,014	12346	21393
papers	citations	69 h-index	115 g-index

405	405	405	12038
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Atmospheric sulfur cycle simulated in the global model GOCART: Model description and global properties. Journal of Geophysical Research, 2000, 105, 24671-24687.	3.3	534
2	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.	5.0	424
3	Global distribution and trends of tropospheric ozone: An observation-based review. Elementa, 2014, 2, .	3.3	385
4	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.	5.0	375
5	Southern Hemisphere Additional Ozonesondes (SHADOZ) 1998â€“2000 tropical ozone climatology 1. Comparison with Total Ozone Mapping Spectrometer (TOMS) and ground-based measurements. Journal of Geophysical Research, 2003, 108, .	3.3	362
6	A spaceâ€based, highâ€resolution view of notable changes in urban NO_x pollution around the world (2005â€“2014). Journal of Geophysical Research D: Atmospheres, 2016, 121, 976-996.	3.3	339
7	Why do models overestimate surface ozone in the Southeast United States?. Atmospheric Chemistry and Physics, 2016, 16, 13561-13577.	5.0	334
8	An analysis of AERONET aerosol absorption properties and classifications representative of aerosol source regions. Journal of Geophysical Research, 2012, 117, .	3.3	324
9	Assessment of the performance of ECCâ€ozonesondes under quasiâ€flight conditions in the environmental simulation chamber: Insights from the Juelich Ozone Sonde Intercomparison Experiment (JOSIE). Journal of Geophysical Research, 2007, 112, .	3.3	291
10	Smoke, Clouds, and Radiation-Brazil (SCAR-B) experiment. Journal of Geophysical Research, 1998, 103, 31783-31808.	3.3	286
11	Convective transport of biomass burning emissions over Brazil during TRACE A. Journal of Geophysical Research, 1996, 101, 23993-24012.	3.3	254
12	Efficacy and Side Effects of Praziquantel in an Epidemic Focus of Schistosoma mansoni. American Journal of Tropical Medicine and Hygiene, 1995, 53, 167-170.	3.5	239
13	Southern Hemisphere Additional Ozonesondes (SHADOZ) 1998â€“2000 tropical ozone climatology 2. Tropospheric variability and the zonal wave-one. Journal of Geophysical Research, 2003, 108, .	3.3	210
14	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.	3.3	209
15	Tropical Tropospheric Ozone and Biomass Burning. Science, 2001, 291, 2128-2132.	20.9	206
16	Detection of biomass burning smoke from TOMS measurements. Geophysical Research Letters, 1996, 23, 745-748.	4.0	197
17	Possible perturbations to atmospheric CO, CH₄, and OH. Journal of Geophysical Research, 1986, 91, 10853-10864.	3.3	189
18	Validation of Tropospheric Emission Spectrometer (TES) nadir ozone profiles using ozonesonde measurements. Journal of Geophysical Research, 2008, 113, .	3.3	183

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19	The Network for the Detection of Atmospheric Composition Change (NDACC): history, status and perspectives. Atmospheric Chemistry and Physics, 2018, 18, 4935-4964.	5.0	176
20	Alkyl nitrates, nonmethane hydrocarbons, and halocarbon gases over the equatorial Pacific Ocean during SAGA 3. Journal of Geophysical Research, 1993, 98, 16933-16947.	3.3	163
21	Estimating the climate significance of halogen-driven ozone loss in the tropical marine troposphere. Atmospheric Chemistry and Physics, 2012, 12, 3939-3949.	5.0	161
22	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.	3.3	160
23	Tropospheric ozone change from 1980 to 2010 dominated by equatorward redistribution ofÂemissions. Nature Geoscience, 2016, 9, 875-879.	11.9	152
24	Aerosol properties over the Indo-Gangetic Plain: A mesoscale perspective from the TIGERZ experiment. Journal of Geophysical Research, 2011, 116, .	3.3	149
25	Alaskan and Canadian forest fires exacerbate ozone pollution over Houston, Texas, on 19 and 20 July 2004. Journal of Geophysical Research, 2006, 111, .	3.3	138
26	Model calculations of tropospheric ozone production potential following observed convective events. Journal of Geophysical Research, 1990, 95, 14049-14062.	3.3	136
27	Validation of ozone measurements from the Atmospheric Chemistry Experiment (ACE). Atmospheric Chemistry and Physics, 2009, 9, 287-343.	5.0	136
28	Free tropospheric ozone production following entrainment of urban plumes into deep convection. Journal of Geophysical Research, 1992, 97, 17985-18000.	3.3	135
29	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.	5.0	133
30	Fire in the Air: Biomass Burning Impacts in a Changing Climate. Critical Reviews in Environmental Science and Technology, 2013, 43, 40-83.	13.5	132
31	Biomass burning aerosol size distribution and modeled optical properties. Journal of Geophysical Research, 1998, 103, 31879-31891.	3.3	131
32	Future vulnerability of marine biodiversity compared with contemporary and past changes. Nature Climate Change, 2015, 5, 695-701.	14.3	125
33	Tropical ozone as an indicator of deep convection. Journal of Geophysical Research, 2002, 107, ACH 13-1.	3.3	122
34	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, .	3.3	121
35	Southern Hemisphere Additional Ozonesondes (SHADOZ) 1998â€“2004 tropical ozone climatology: 3. Instrumentation, station-to-station variability, and evaluation with simulated flight profiles. Journal of Geophysical Research, 2007, 112, .	3.3	116
36	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.	4.0	114

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37	Ozone observations and a model of marine boundary layer photochemistry during SAGA 3. Journal of Geophysical Research, 1993, 98, 16955-16968.	3.3	113
38	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, .	3.3	113
39	Interannual variability and trends in tropical ozone derived from SAGE II satellite data and SHADOZ ozonesondes. Journal of Geophysical Research, 2011, 116, .	3.3	113
40	Remote Sensing of Tropospheric Pollution from Space. Bulletin of the American Meteorological Society, 2008, 89, 805-822.	5.5	109
41	Chemical data assimilation estimates of continental U.S. ozone and nitrogen budgets during the Intercontinental Chemical Transport Experimentâ€“North America. Journal of Geophysical Research, 2007, 112, .	3.3	107
42	Clouds and wet removal as causes of variability in the traceâ€gas composition of the marine troposphere. Journal of Geophysical Research, 1982, 87, 8811-8826.	3.3	105
43	Technical Note: Ozonesonde climatology between 1995 and 2011: description, evaluation and applications. Atmospheric Chemistry and Physics, 2012, 12, 7475-7497.	5.0	102
44	The atmospheric CH₄ increase since the Last Glacial Maximum: (1). Source estimates. Tellus, Series B: Chemical and Physical Meteorology, 2022, 45, 228.	1.6	101
45	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.	3.3	101
46	Three-dimensional radon 222 calculations using assimilated meteorological data and a convective mixing algorithm. Journal of Geophysical Research, 1996, 101, 6871-6881.	3.3	100
47	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.	3.3	99
48	Effect of chemical kinetics uncertainties on calculated constituents in a tropospheric photochemical model. Journal of Geophysical Research, 1991, 96, 13089-13108.	3.3	98
49	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.	3.1	97
50	Convective transport over the central United States and its role in regional CO and ozone budgets. Journal of Geophysical Research, 1994, 99, 18703.	3.3	96
51	Methane on the greenhouse agenda. Nature, 1991, 354, 181-182.	36.2	94
52	A trajectoryâ€based estimate of the tropospheric ozone column using the residual method. Journal of Geophysical Research, 2007, 112, .	3.3	94
53	Transport-induced interannual variability of carbon monoxide determined using a chemistry and transport model. Journal of Geophysical Research, 1996, 101, 28655-28669.	3.3	88
54	Estimating the summertime tropospheric ozone distribution over North America through assimilation of observations from the Tropospheric Emission Spectrometer. Journal of Geophysical Research, 2008, 113, .	3.3	88

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55	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, .	3.3	87
56	Sensitivity of tropospheric oxidants to global chemical and climate change. Atmospheric Environment, 1989, 23, 519-532.	1.1	86
57	LIS1-Related Isolated Lissencephaly. Archives of Neurology, 2009, 66, 1007-15.	4.5	85
58	Cloud draft structure and trace gas transport. Journal of Geophysical Research, 1990, 95, 17015-17030.	3.3	84
59	Tropical Deep Convection and Ozone Formation. Bulletin of the American Meteorological Society, 1997, 78, 1043-1054.	5.5	84
60	Tropical tropospheric ozone from total ozone mapping spectrometer by a modified residual method. Journal of Geophysical Research, 1998, 103, 22129-22145.	3.3	84
61	The effect of clouds on photolysis rates and ozone formation in the unpolluted troposphere. Journal of Geophysical Research, 1984, 89, 1341-1349.	3.3	82
62	Evidence for a recurring eastern North America upper tropospheric ozone maximum during summer. Journal of Geophysical Research, 2007, 112, .	3.3	82
63	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, .	3.3	81
64	Validation of Tropospheric Emission Spectrometer (TES) measurements of the total, stratospheric, and tropospheric column abundance of ozone. Journal of Geophysical Research, 2008, 113, .	3.3	80
65	First reprocessing of Southern Hemisphere ADditional OZonesondes (SHADOZ) profile records (1998â€“2015): 1. Methodology and evaluation. Journal of Geophysical Research D: Atmospheres, 2017, 122, 6611-6636.	3.3	80
66	Intraarticular glucocorticoid treatment reduces inflammation in synovial cell infiltrations more efficiently than in synovial blood vessels. Arthritis and Rheumatism, 2005, 52, 3880-3889.	6.8	79
67	Regional levels of ozone in the troposphere over eastern Mediterranean. Journal of Geophysical Research, 2002, 107, PAU 7-1.	3.3	78
68	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.	3.3	77
69	Assimilated ozone from EOSâ€Aura: Evaluation of the tropopause region and tropospheric columns. Journal of Geophysical Research, 2008, 113, .	3.3	75
70	TRACE A trajectory intercomparison: 2. Isentropic and kinematic methods. Journal of Geophysical Research, 1996, 101, 23927-23939.	3.3	73
71	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.	1.8	73
72	Tropospheric ozone increases over the southern Africa region: bellwether for rapid growth in Southern Hemisphere pollution?. Atmospheric Chemistry and Physics, 2014, 14, 9855-9869.	5.0	72

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73	Atmospheric benzene observations from oil and gas production in the Denverâ€Julesburg Basin in July and August 2014. Journal of Geophysical Research D: Atmospheres, 2016, 121, 11,055.	3.3	72
74	Upper tropospheric ozone production following mesoscale convection during STEP/EMEX. Journal of Geophysical Research, 1993, 98, 8737-8749.	3.3	71
75	Ozone production potential following convective redistribution of biomass burning emissions. Journal of Atmospheric Chemistry, 1992, 14, 297-313.	3.2	69
76	Four-dimensional data assimilation experiments with International Consortium for Atmospheric Research on Transport and Transformation ozone measurements. Journal of Geophysical Research, 2007, 112, .	3.3	69
77	Ozone over southern Africa during SAFARI-92/TRACE A. Journal of Geophysical Research, 1996, 101, 23793-23807.	3.3	68
78	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, .	4.0	68
79	Seasonal cycles of O3, CO, and convective outflow at the tropical tropopause. Geophysical Research Letters, 2006, 33, .	4.0	68
80	Atmospheric sulfur cycling in the tropical Pacific marine boundary layer (12Â°S, 135Â°W): A comparison of field data and model results: 1. Dimethylsulfide. Journal of Geophysical Research, 1996, 101, 6899-6909.	3.3	67
81	Physically based modeling of atmosphere-to-snow-to-firn transfer of H2O2at South Pole. Journal of Geophysical Research, 1998, 103, 10561-10570.	3.3	67
82	Stratospheric ozone trends and variability as seen by SCIAMACHY from 2002 to 2012. Atmospheric Chemistry and Physics, 2014, 14, 831-846.	5.0	67
83	First Reprocessing of Southern Hemisphere Additional Ozonesondes (SHADOZ) Ozone Profiles (1998â€“2016): 2. Comparisons With Satellites and Groundâ€Based Instruments. Journal of Geophysical Research D: Atmospheres, 2017, 122, 13,000.	3.3	67
84	The POLARCAT Model Intercomparison Project (POLMIP): overview and evaluation with observations. Atmospheric Chemistry and Physics, 2015, 15, 6721-6744.	5.0	64
85	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.	3.1	64
86	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.	5.0	63
87	Strategic ozone sounding networks: Review of design and accomplishments. Atmospheric Environment, 2011, 45, 2145-2163.	4.2	63
88	Southern Hemisphere Additional Ozonesondes (SHADOZ) ozone climatology (2005â€“2009): Tropospheric and tropical tropopause layer (TTL) profiles with comparisons to OMIâ€based ozone products. Journal of Geophysical Research, 2012, 117, .	3.3	61
89	Ozone in the Pacific tropical troposphere from ozonesonde observations. Journal of Geophysical Research, 2001, 106, 32503-32525.	3.3	60
90	On the derivation of tropospheric column ozone from radiances measured by the total ozone mapping spectrometer. Journal of Geophysical Research, 1995, 100, 11137.	3.3	58

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91	Tropospheric ozone over the North Pacific from ozonesonde observations. Journal of Geophysical Research, 2004, 109, .	3.3	58
92	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.	5.0	58
93	Perturbations to tropospheric oxidants, 1985â€“2035: 1. Calculations of ozone and OH in chemically coherent regions. Journal of Geophysical Research, 1990, 95, 9829-9844.	3.3	57
94	Validation of 10-year SAO OMI Ozone Profile (PROFOZ) product using ozonesonde observations. Atmospheric Measurement Techniques, 2017, 10, 2455-2475.	3.1	57
95	SONEX airborne mission and coordinated POLINAT-2 activity: Overview and accomplishments. Geophysical Research Letters, 1999, 26, 3053-3056.	4.0	56
96	Impacts of midlatitude precursor emissions and local photochemistry on ozone abundances in the Arctic. Journal of Geophysical Research, 2012, 117, .	3.3	56
97	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.	4.2	55
98	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.	4.2	55
99	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.	3.3	54
100	Enhanced view of the â€œtropical Atlantic ozone paradoxâ€•and â€œzonal wave oneâ€•from the in situ MOZAIC and SHADOZ data. Journal of Geophysical Research, 2006, 111, .	3.3	54
101	Effect of marine stratocumulus on TOMS ozone. Journal of Geophysical Research, 1993, 98, 23051-23057.	3.3	53
102	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 (MOZARTâ€4) simulations. Journal of Geophysical Research, 2008, 113, .	3.3	53
103	Bay breeze influence on surface ozone at Edgewood, MD during July 2011. Journal of Atmospheric Chemistry, 2015, 72, 335-353.	3.2	53
104	Balance of Emission and Dynamical Controls on Ozone During the Koreaâ€United States Air Quality Campaign From Multiconstituent Satellite Data Assimilation. Journal of Geophysical Research D: Atmospheres, 2019, 124, 387-413.	3.3	53
105	COVIDâ€19 Crisis Reduces Free Tropospheric Ozone Across the Northern Hemisphere. Geophysical Research Letters, 2021, 48, e2020GL091987.	4.0	53
106	Photochemical ozone production in tropical squall line convection during NASA Global Tropospheric Experiment/Amazon Boundary Layer Experiment 2A. Journal of Geophysical Research, 1991, 96, 3099-3114.	3.3	52
107	Atmospheric CH4, CO and OH from 1860 to 1985. Nature, 1986, 321, 148-150.	36.2	51
108	Immunoassay with a Microtiter Plate Incorporated Multichannel Electrochemical Detection System. Analytical Chemistry, 2002, 74, 2617-2621.	6.8	51

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109	Origins of chemical pollution derived from Mid-Atlantic aircraft profiles using a clustering technique. Atmospheric Environment, 2008, 42, 1727-1741.	4.2	51
110	Frequency and impact of summertime stratospheric intrusions over Maryland during DISCOVERâ€AQ (2011): New evidence from NASA's GEOSâ€5 simulations. Journal of Geophysical Research D: Atmospheres, 2016, 121, 3687-3706.	3.3	51
111	First Reprocessing of Southern Hemisphere ADditional OZonesondes Profile Records: 3. Uncertainty in Ozone Profile and Total Column. Journal of Geophysical Research D: Atmospheres, 2018, 123, 3243-3268.	3.3	51
112	Biomass Burning in the Global Environment: First Results from the IGAC/BIBEX Field Campaign STARE/TRACE-A/SAFARI-92. , 1994, , 83-101.		51
113	Immunohistochemical and Ultrastructural Investigation of Neural Differentiation in Ewing Sarcoma/PNET of Bone and Soft Tissues. Ultrastructural Pathology, 2001, 25, 219-225.	0.9	50
114	Tropical convective outflow and near surface equivalent potential temperatures. Geophysical Research Letters, 2000, 27, 2549-2552.	4.0	49
115	Impact of the assimilation of ozone from the Tropospheric Emission Spectrometer on surface ozone across North America. Geophysical Research Letters, 2009, 36, .	4.0	49
116	Trans-Pacific transport of reactive nitrogen and ozone to Canada during spring. Atmospheric Chemistry and Physics, 2010, 10, 8353-8372.	5.0	49
117	Surface ozone at a coastal suburban site in 2009 and 2010: Relationships to chemical and meteorological processes. Journal of Geophysical Research, 2012, 117, .	3.3	49
118	Vertical ozone distribution over southern Africa and adjacent oceans during SAFARI-92. Journal of Geophysical Research, 1996, 101, 23823-23833.	3.3	48
119	QBO and ENSO variability in temperature and ozone from SHADOZ, 1998â€“2005. Journal of Geophysical Research, 2010, 115, .	3.3	48
120	Smart balloon observations over the North Atlantic: O3 data analysis and modeling. Journal of Geophysical Research, 2006, 111, .	3.3	47
121	Retrievals of tropospheric ozone profiles from the synergism of AIRS and OMI: methodology and validation. Atmospheric Measurement Techniques, 2018, 11, 5587-5605.	3.1	47
122	Lidar measurements during Aerosols99. Journal of Geophysical Research, 2001, 106, 20821-20831.	3.3	45
123	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, .	3.3	45
124	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.	5.0	44
125	Nitric oxide in the equatorial Pacific boundary layer: SAGA 3 measurements. Journal of Geophysical Research, 1993, 98, 16949-16954.	3.3	43
126	Tropospheric ozone climatology over Irene, South Africa, from 1990 to 1994 and 1998 to 2002. Journal of Geophysical Research, 2004, 109, .	3.3	43

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127	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.	3.3	43
128	An Intercomparison of Isentropic Trajectories over the South Atlantic. Monthly Weather Review, 1994, 122, 864-879.	2.3	42
129	Correlation between smoke and tropospheric ozone concentration in CuiabÃ¡ during Smoke, Clouds, and Radiation-Brazil (SCAR-B). Journal of Geophysical Research, 1999, 104, 12113-12129.	3.3	42
130	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, .	3.3	42
131	CAMx ozone source attribution in the eastern United States using guidance from observations during DISCOVERâ€AQ Maryland. Geophysical Research Letters, 2016, 43, 2249-2258.	4.0	42
132	Trace gas transport and scavenging in PEM-Tropics B South Pacific Convergence Zone convection. Journal of Geophysical Research, 2001, 106, 32591-32607.	3.3	41
133	Mean profiles of trace reactive species in the unpolluted marine surface layer. Journal of Geophysical Research, 1984, 89, 4788-4796.	3.3	40
134	TRACE A trajectory intercomparison: 1. Effects of different input analyses. Journal of Geophysical Research, 1996, 101, 23909-23925.	3.3	40
135	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.	5.0	40
136	Methane reductions: Implications for global warming and atmospheric chemical change. Atmospheric Environment Part A General Topics, 1992, 26, 2665-2668.	1.3	39
137	Estimating surface NO2 and SO2 mixing ratios from fast-response total column observations and potential application to geostationary missions. Journal of Atmospheric Chemistry, 2015, 72, 261-286.	3.2	39
138	Zonal asymmetries in southern hemisphere column ozone: Implications of biomass burning. Journal of Geophysical Research, 1996, 101, 14421-14427.	3.3	38
139	Sensitivity of tropospheric hydrogen peroxide to global chemical and climate change. Geophysical Research Letters, 1989, 16, 53-56.	4.0	37
140	A regional estimate of convective transport of CO from biomass burning. Geophysical Research Letters, 1992, 19, 289-292.	4.0	37
141	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.	3.3	37
142	Model calculations of the impact of NOxfrom air traffic, lightning, and surface emissions, compared with measurements. Journal of Geophysical Research, 2000, 105, 3833-3850.	3.3	37
143	Measurements of nitrogen oxides at the tropopause: Attribution to convection and correlation with lightning. Journal of Geophysical Research, 2000, 105, 3679-3700.	3.3	37
144	Combined targeting of TGF-Î²1 and integrin Î²3 impairs lymph node metastasis in a mouse model of non-small-cell lung cancer. Molecular Cancer, 2014, 13, 112.	20.2	37

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145	A pervasive role for biomass burning in tropical high ozone/low water structures. Nature Communications, 2016, 7, 10267.	13.2	37
146	Quantifying stratosphere-troposphere transport of ozone using balloon-borne ozonesondes, radar windprofilers and trajectory models. Atmospheric Environment, 2019, 198, 496-509.	4.2	37
147	Two approaches to determining the seaâ€toâ€air flux of dimethyl sulfide: Satellite ocean color and a photochemical model with atmospheric measurements. Journal of Geophysical Research, 1990, 95, 20551-20558.	3.3	36
148	Groundâ€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.	3.3	36
149	Observations of convective and dynamical instabilities in tropopause folds and their contribution to stratosphere-troposphere exchange. Journal of Geophysical Research, 1999, 104, 21549-21568.	3.3	35
150	Highâ€resolution tropospheric ozone fields for INTEX and ARCTAS from IONS ozonesondes. Journal of Geophysical Research, 2010, 115, .	3.3	35
151	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.	5.0	35
152	Improving ECC Ozonesonde Data Quality: Assessment of Current Methods and Outstanding Issues. Earth and Space Science, 2021, 8, e2019EA000914.	2.6	35
153	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, .	3.3	35
154	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.	4.2	34
155	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.	3.3	34
156	1Î±,25-Dihydroxyvitamin D3 prevents the differentiation of human lung fibroblasts via microRNA-27b targeting the vitamin D receptor. International Journal of Molecular Medicine, 2015, 36, 967-974.	4.1	33
157	Characterizing the lifetime and occurrence of stratosphericâ€tropospheric exchange events in the rocky mountain region using highâ€resolution ozone measurements. Journal of Geophysical Research D: Atmospheres, 2015, 120, 12410-12424.	3.3	33
158	Regional and Seasonal Trends in Tropical Ozone From SHADOZ Profiles: Reference for Models and Satellite Products. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2021JD034691.	3.3	33
159	Evidence of convection as a major source of condensation nuclei in the northern midlatitude upper troposphere. Geophysical Research Letters, 2000, 27, 369-372.	4.0	32
160	The observation of nitric acid-containing particles in the tropical lower stratosphere. Atmospheric Chemistry and Physics, 2006, 6, 601-611.	5.0	32
161	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.	5.0	32
162	The atmospheric CH₄ increase since the Last Glacial Maximum: (2) Interactions with oxidants. Tellus, Series B: Chemical and Physical Meteorology, 2022, 45, 242.	1.6	31

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