Russell Dickerson

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180
papers

9,975
citations

54
p-index
g-index

208
ext. papers

6.3
avg, IF

L-index

#	Paper	IF	Citations
180	The Indian Ocean experiment: widespread air pollution from South and Southeast Asia. <i>Science</i> , 2001 , 291, 1031-6	33.3	599
179	The impact of aerosols on solar ultraviolet radiation and photochemical smog. <i>Science</i> , 1997 , 278, 827-	30,3.3	486
178	Aura OMI observations of regional SO₂ and NO₂ pollution changes from 2005 to 2015. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 4605-4629	6.8	428
177	Thunderstorms: an important mechanism in the transport of air pollutants. <i>Science</i> , 1987 , 235, 460-5	33.3	364
176	Emissions estimation from satellite retrievals: A review of current capability. <i>Atmospheric Environment</i> , 2013 , 77, 1011-1042	5.3	270
175	An analysis of AERONET aerosol absorption properties and classifications representative of aerosol source regions. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		240
174	Increased atmospheric ammonia over the world's major agricultural areas detected from space. <i>Geophysical Research Letters</i> , 2017 , 44, 2875-2884	4.9	189
173	Observed relationships of ozone air pollution with temperature and emissions. <i>Geophysical Research Letters</i> , 2009 , 36,	4.9	188
172	India Is Overtaking China as the World's Largest Emitter of Anthropogenic Sulfur Dioxide. <i>Scientific Reports</i> , 2017 , 7, 14304	4.9	182
171	SO2 emissions and lifetimes: Estimates from inverse modeling using in situ and global, space-based (SCIAMACHY and OMI) observations. <i>Journal of Geophysical Research</i> , 2011 , 116,		182
170	Aerosol optical properties and their radiative effects in northern China. <i>Journal of Geophysical Research</i> , 2007 , 112,		174
169	A ground-based intercomparison of NO, NO x , and NO y measurement techniques. <i>Journal of Geophysical Research</i> , 1987 , 92, 14710		165
168	NOxProduction in Lightning. <i>Journals of the Atmospheric Sciences</i> , 1977 , 34, 143-149	2.1	165
167	Preface to special section on East Asian Studies of Tropospheric Aerosols: An International Regional Experiment (EAST-AIRE). <i>Journal of Geophysical Research</i> , 2007 , 112,		138
166	Nitric oxide production by simulated lightning: Dependence on current, energy, and pressure. Journal of Geophysical Research, 1998 , 103, 19149-19159		125
165	Stratosphere-troposphere exchange in a midlatitude mesoscale convective complex: 1. Observations. <i>Journal of Geophysical Research</i> , 1996 , 101, 6823-6836		125
164	Free tropospheric ozone production following entrainment of urban plumes into deep convection. Journal of Geophysical Research, 1992, 97, 17985		124

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163	Seasonal transition from NOx- to hydrocarbon-limited conditions for ozone production over the eastern United States in September. <i>Journal of Geophysical Research</i> , 1995 , 100, 9315		123
162	Aerosol properties over the Indo-Gangetic Plain: A mesoscale perspective from the TIGERZ experiment. <i>Journal of Geophysical Research</i> , 2011 , 116,		122
161	Validation of SO2 retrievals from the Ozone Monitoring Instrument over NE China. <i>Journal of Geophysical Research</i> , 2008 , 113,		121
160	Model calculations of tropospheric ozone production potential following observed convective events. <i>Journal of Geophysical Research</i> , 1990 , 95, 14049		120
159	Seasonal variations in elemental carbon aerosol, carbon monoxide and sulfur dioxide: Implications for sources. <i>Geophysical Research Letters</i> , 2001 , 28, 1711-1714	4.9	118
158	Ozone in the remote marine boundary layer: A possible role for halogens. <i>Journal of Geophysical Research</i> , 1999 , 104, 21385-21395		117
157	Roles of Urban Tree Canopy and Buildings in Urban Heat Island Effects: Parameterization and Preliminary Results. <i>Journal of Applied Meteorology and Climatology</i> , 2012 , 51, 1775-1793	2.7	115
156	Global chemical weather forecasts for field campaign planning: predictions and observations of large-scale features during MINOS, CONTRACE, and INDOEX. <i>Atmospheric Chemistry and Physics</i> , 2003 , 3, 267-289	6.8	112
155	Remote sensing of fugitive methane emissions from oil and gas production in North American tight geologic formations. <i>Earthr Future</i> , 2014 , 2, 548-558	7.9	109
154	Direct measurements of ozone and nitrogen dioxide photolysis rates in the troposphere. <i>Journal of Geophysical Research</i> , 1982 , 87, 4933		108
153	Analysis of black carbon and carbon monoxide observed over the Indian Ocean: Implications for emissions and photochemistry. <i>Journal of Geophysical Research</i> , 2002 , 107, INX2 16-1		104
152	Climatologies of NOxx and NOy: A comparison of data and models. <i>Atmospheric Environment</i> , 1997 , 31, 1851-1904	5.3	99
151	Characterization of carbonaceous aerosols outflow from India and Arabia: Biomass/biofuel burning and fossil fuel combustion. <i>Journal of Geophysical Research</i> , 2003 , 108,		94
150	Measured and modeled CO and NO y in DISCOVER-AQ: An evaluation of emissions and chemistry over the eastern US. <i>Atmospheric Environment</i> , 2014 , 96, 78-87	5.3	92
149	The global tropospheric ammonia distribution as seen in the 13-year AIRS measurement record. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 5467-5479	6.8	91
148	Origins of fine aerosol mass in the Baltimore Washington corridor: implications from observation, factor analysis, and ensemble air parcel back trajectories. <i>Atmospheric Environment</i> , 2002 , 36, 4541-4554	4 ^{5.3}	91
147	Aircraft vertical profiles of trace gas and aerosol pollution over the mid-Atlantic United States: Statistics and meteorological cluster analysis. <i>Journal of Geophysical Research</i> , 2006 , 111, n/a-n/a		87
146	Impact of Upstream Urbanization on the Urban Heat Island Effects along the Washington B altimore Corridor. <i>Journal of Applied Meteorology and Climatology</i> , 2011 , 50, 2012-2029	2.7	82

145	Aircraft observations of dust and pollutants over northeast China: Insight into the meteorological mechanisms of transport. <i>Journal of Geophysical Research</i> , 2007 , 112,		82
144	In situ measurements of trace gases and aerosol optical properties at a rural site in northern China during East Asian Study of Tropospheric Aerosols: An International Regional Experiment 2005. Journal of Geophysical Research, 2007, 112,		80
143	Modification of a Commercial Gas Filter Correlation CO Detector for Enhanced Sensitivity. <i>Journal of Atmospheric and Oceanic Technology</i> , 1988 , 5, 424-431	2	80
142	Convective transport over the central United States and its role in regional CO and ozone budgets. Journal of Geophysical Research, 1994 , 99, 18703		77
141	Upstream urbanization exacerbates urban heat island effects. <i>Geophysical Research Letters</i> , 2009 , 36,	4.9	76
140	Organic trace gas measurements by PTR-MS during INDOEX 1999. <i>Journal of Geophysical Research</i> , 2002 , 107, INX2 23-1		74
139	Changes in seasonal and diurnal cycles of ozone and temperature in the eastern U.S <i>Atmospheric Environment</i> , 2010 , 44, 2543-2551	5.3	73
138	Large-scale pollution of the atmosphere over the remote Atlantic Ocean: Evidence from Bermuda. Journal of Geophysical Research, 1995 , 100, 8945		72
137	Analysis of a summertime PM2.5 and haze episode in the mid-Atlantic region. <i>Journal of the Air and Waste Management Association</i> , 2003 , 53, 946-56	2.4	71
136	Composition of the troposphere over the Indian Ocean during the monsoonal transition. <i>Journal of Geophysical Research</i> , 1997 , 102, 18981-18995		70
135	Regional air quality impacts of hydraulic fracturing and shale natural gas activity: Evidence from ambient VOC observations. <i>Atmospheric Environment</i> , 2015 , 110, 144-150	5.3	68
134	Impacts of brown carbon from biomass burning on surface UV and ozone photochemistry in the Amazon Basin. <i>Scientific Reports</i> , 2016 , 6, 36940	4.9	68
133	Ozone and NO_{<i>x</i>} chemistry in the eastern US: evaluation of CMAQ/CB05 with satellite (OMI) data. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 10965-10982	6.8	67
132	First observations of SO2 from the satellite Suomi NPP OMPS: Widespread air pollution events over China. <i>Geophysical Research Letters</i> , 2013 , 40, 4957-4962	4.9	64
131	Photoacoustic Measurements of Amplification of the Absorption Cross Section for Coated Soot Aerosols. <i>Aerosol Science and Technology</i> , 2011 , 45, 1217-1230	3.4	62
130	Ozone production and its sensitivity to NO_{<i>x</i>} and VOCs: results from the DISCOVER-AQ field experiment, Houston 2013. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 14463-14474	6.8	58
129	Impact of fair-weather cumulus clouds and the Chesapeake Bay breeze on pollutant transport and transformation. <i>Atmospheric Environment</i> , 2011 , 45, 4060-4072	5.3	56
128	Further modification of a commercial NOx detector for high sensitivity. <i>Review of Scientific Instruments</i> , 1984 , 55, 1995-1998	1.7	56

127	Trace gas transport in the vicinity of frontal convective clouds. <i>Journal of Geophysical Research</i> , 1988 , 93, 759		55	
126	Direct measurements of the photolysis rate coefficients and Henry's law constants of several alkyl nitrates. <i>Journal of Geophysical Research</i> , 1989 , 94, 14905-14921		54	
125	Impact of Bay-Breeze Circulations on Surface Air Quality and Boundary Layer Export. <i>Journal of Applied Meteorology and Climatology</i> , 2014 , 53, 1697-1713	2.7	53	
124	Pollutant transport during a regional O3-episode in the mid-Atlantic states. <i>Journal of the Air and Waste Management Association</i> , 1998 , 48, 786-97	2.4	52	
123	Modification of a commerical NOx detector for high sensitivity. <i>Review of Scientific Instruments</i> , 1982 , 53, 1899-1902	1.7	51	
122	Transport of ozone and pollutants from North America to the North Atlantic Ocean during the 1996 Atmosphere/Ocean Chemistry Experiment (AEROCE) intensive. <i>Journal of Geophysical Research</i> , 1999 , 104, 26219-26233		50	
121	New methodology for estimating biofuel consumption for cooking: Atmospheric emissions of black carbon and sulfur dioxide from India. <i>Global Biogeochemical Cycles</i> , 2004 , 18, n/a-n/a	5.9	49	
120	Trends in emissions and concentrations of air pollutants in the lower troposphere in the Baltimore/Washington airshed from 1997 to 2011. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 7859-78	3 <mark>6.8</mark>	48	
119	SO2 over central China: Measurements, numerical simulations and the tropospheric sulfur budget. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		47	
118	Trace gas concentrations and meteorology in rural Virginia: 1. Ozone and carbon monoxide. <i>Journal of Geophysical Research</i> , 1991 , 96, 22461		47	
117	Evaluation and environmental correction of ambient CO measurements from a low-cost NDIR sensor. <i>Atmospheric Measurement Techniques</i> , 2017 , 10,	4	46	
116	Identification of sources and formation processes of atmospheric sulfate by sulfur isotope and scanning electron microscope measurements. <i>Journal of Geophysical Research</i> , 2010 , 115,		46	
115	Ozone, oxides of nitrogen, and carbon monoxide during pollution events over the eastern United States: An evaluation of emissions and vertical mixing. <i>Journal of Geophysical Research</i> , 2011 , 116,		45	
114	Origins of chemical pollution derived from Mid-Atlantic aircraft profiles using a clustering technique. <i>Atmospheric Environment</i> , 2008 , 42, 1727-1741	5.3	45	
113	Tropospheric chemistry over the lower Great Plains of the United States 2. Trace gas profiles and distributions. <i>Journal of Geophysical Research</i> , 1992 , 97, 20647		44	
112	Vertical profiles of NO ₂ , SO ₂ , HONO, HCHO, CHOCHO and aerosols derived from MAX-DOAS measurements at a rural site in the central western North China Plain and their relation to emission sources and effects of regional transport.	6.8	43	
111	Nitric oxide production by lightning discharges. <i>Journal of Geophysical Research</i> , 1993 , 98, 18333-18338		42	
110	Tropospheric O3 distribution over the Indian Ocean during spring 1995 evaluated with a chemistry-climate model. <i>Journal of Geophysical Research</i> , 1999 , 104, 13881-13893		41	

109	Photolysis frequency of NO2: Measurement and modeling during the International Photolysis Frequency Measurement and Modeling Intercomparison (IPMMI). <i>Journal of Geophysical Research</i> , 2003 , 108,		40
108	A photothermal interferometer for gas-phase ammonia detection. <i>Analytical Chemistry</i> , 1999 , 71, 1391-	9 7.8	40
107	Clear-sky vertical profiles of trace gases as influenced by upstream convective activity. <i>Journal of Geophysical Research</i> , 1989 , 94, 14879-14892		40
106	Higher surface ozone concentrations over the Chesapeake Bay than over the adjacent land: Observations and models from the DISCOVER-AQ and CBODAQ campaigns. <i>Atmospheric Environment</i> , 2014 , 84, 9-19	5.3	39
105	Relationship between back trajectories and tropospheric trace gas concentrations in rural Virginia. <i>Atmospheric Environment</i> , 1994 , 28, 2789-2800	5.3	39
104	Reactive nitrogen compounds in the Arctic. <i>Journal of Geophysical Research</i> , 1985 , 90, 10739-10743		39
103	Bay breeze influence on surface ozone at Edgewood, MD during July 2011. <i>Journal of Atmospheric Chemistry</i> , 2015 , 72, 335-353	3.2	36
102	Relationship between column-density and surface mixing ratio: Statistical analysis of O3 and NO2 data from the July 2011 Maryland DISCOVER-AQ mission. <i>Atmospheric Environment</i> , 2014 , 92, 429-441	5.3	36
101	Smoke over haze: Aircraft observations of chemical and optical properties and the effects on heating rates and stability. <i>Journal of Geophysical Research</i> , 2004 , 109,		36
100	High ozone concentrations on hot days: The role of electric power demand and NOx emissions. <i>Geophysical Research Letters</i> , 2013 , 40, 5291-5294	4.9	35
99	Rate of NO2 photolysis from the surface to 7.6 km altitude in clear-sky and clouds. <i>Geophysical Research Letters</i> , 1995 , 22, 2621-2624	4.9	35
98	Actinometric measurements and theoretical calculations of j(O3)the rate of photolysis of ozone to O(ID). <i>Geophysical Research Letters</i> , 1979 , 6, 833-836	4.9	35
97	Latitudinal gradients in O3 and CO during INDOEX 1999. <i>Journal of Geophysical Research</i> , 2002 , 107, INX2 15-1		34
96	Response of SO2 and particulate air pollution to local and regional emission controls: A case study in Maryland. <i>Earthr</i> Future, 2016 , 4, 94-109	7.9	33
95	CAMx Ozone Source Attribution in the Eastern United States using Guidance from Observations during DISCOVER-AQ Maryland. <i>Geophysical Research Letters</i> , 2016 , 43, 2249-2258	4.9	32
94	Direct measurements of the photolysis rate coefficient of ethyl nitrate. <i>Geophysical Research Letters</i> , 1988 , 15, 1181-1184	4.9	32
93	An elevated reservoir of air pollutants over the Mid-Atlantic States during the 2011 DISCOVER-AQ campaign: Airborne measurements and numerical simulations. <i>Atmospheric Environment</i> , 2014 , 85, 18-3	o ^{5.3}	30
92	Evaluation of GEOS-5 sulfur dioxide simulations during the Frostburg, MD 2010 field campaign. Atmospheric Chemistry and Physics, 2014, 14, 1929-1941	6.8	30

91	Characterization of an eastern U.S. severe air pollution episode using WRF/Chem. <i>Journal of Geophysical Research</i> , 2011 , 116,		30	
90	Transport and evolution of a pollution plume from northern China: A satellite-based case study. Journal of Geophysical Research, 2010 , 115,		30	
89	Airborne Characterization of the Chemical, Optical, and Meteorological Properties, and Origins of a Combined Ozone-Haze Episode over the Eastern United States. <i>Journals of the Atmospheric Sciences</i> , 2004 , 61, 1781-1793	2.1	30	
88	Marine boundary layer peroxy radical chemistry during the AEROSOLS99 campaign: Measurements and analysis. <i>Journal of Geophysical Research</i> , 2001 , 106, 20833-20846		30	
87	Source analysis of carbon monoxide pollution during INDOEX 1999. <i>Journal of Geophysical Research</i> , 2001 , 106, 28481-28495		30	
86	SO Emission Estimates Using OMI SO Retrievals for 2005-2017. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019 , 124, 8336-8359	4.4	28	
85	Trace gas and radical diurnal behavior in the marine boundary layer during INDOEX 1999. <i>Journal of Geophysical Research</i> , 2003 , 108,		28	
84	A pervasive role for biomass burning in tropical high ozone/low water structures. <i>Nature Communications</i> , 2016 , 7, 10267	17.4	27	
83	The 2003 North American electrical blackout: An accidental experiment in atmospheric chemistry. <i>Geophysical Research Letters</i> , 2004 , 31, n/a-n/a	4.9	26	
82	Evaluation of the use of a commercially available cavity ringdown absorption spectrometer for measuring NO2 in flight, and observations over the Mid-Atlantic States, during DISCOVER-AQ. <i>Journal of Atmospheric Chemistry</i> , 2015 , 72, 503-521	3.2	25	
81	Methane Emissions From the Baltimore-Washington Area Based on Airborne Observations: Comparison to Emissions Inventories. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018 , 123, 8869-8	3 88 2	25	
80	Anthropogenic air pollution observed near dust source regions in northwestern China during springtime 2008. <i>Journal of Geophysical Research</i> , 2010 , 115,		25	
79	Trace gas concentrations and meteorology in rural Virginia: 2. Reactive nitrogen compounds. <i>Journal of Geophysical Research</i> , 1992 , 97, 20631		25	
78	Estimating Methane Emissions From Underground Coal and Natural Gas Production in Southwestern Pennsylvania. <i>Geophysical Research Letters</i> , 2019 , 46, 4531-4540	4.9	24	
77	Bulk and size-segregated aerosol composition observed during INDOEX 1999: Overview of meteorology and continental impacts. <i>Journal of Geophysical Research</i> , 2003 , 108,		24	
76	Top-Down Estimates of NOx and CO Emissions From Washington, D.CBaltimore During the WINTER Campaign. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018 , 123, 7705-7724	4.4	24	
75	The flux of reactive nitrogen compounds from eastern North America to the western Atlantic Ocean. <i>Global Biogeochemical Cycles</i> , 1987 , 1, 329-343	5.9	23	
74	Advancing measurements of tropospheric NO2 from space: New algorithm and first global results from OMPS. <i>Geophysical Research Letters</i> , 2014 , 41, 4777-4786	4.9	22	

73	Particulate polycyclic aromatic hydrocarbons in the Atlantic and Indian Ocean atmospheres during the Indian Ocean Experiment and Aerosols99: Continental sources to the marine atmosphere. Journal of Geophysical Research, 2004, 109,		22
72	Using Short-Term CO/CO2 Ratios to Assess Air Mass Differences Over the Korean Peninsula During KORUS-AQ. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019 , 124, 10951-10972	4.4	21
71	Method for characterization of low molecular weight organic acids in atmospheric aerosols using ion chromatography mass spectrometry. <i>Analytical Chemistry</i> , 2014 , 86, 7328-36	7.8	21
70	Formaldehyde in the Tropical Western Pacific: Chemical sources and sinks, convective transport, and representation in CAM-Chem and the CCMI models. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017 , 122, 11201-11226	4.4	21
69	Observations of NO y , CO, and SO2 and the origin of reactive nitrogen in the eastern United States. <i>Journal of Geophysical Research</i> , 2000 , 105, 3553-3563		21
68	Evaluating commercial marine emissions and their role in air quality policy using observations and the CMAQ model. <i>Atmospheric Environment</i> , 2018 , 173, 96-107	5.3	21
67	On the use of data from commercial NOx analyzers for air pollution studies. <i>Atmospheric Environment</i> , 2019 , 214, 116873	5.3	20
66	Nitric oxide soil emissions from tilled and untilled cornfields. <i>Agricultural and Forest Meteorology</i> , 1998 , 90, 307-311	5.8	20
65	In situ measurements of aerosol mass concentration and radiative properties in Xianghe, southeast of Beijing. <i>Journal of Geophysical Research</i> , 2007 , 112,		20
64	A side-by-side comparison of filter-based PM2.5 measurements at a suburban site: A closure study. <i>Atmospheric Environment</i> , 2007 , 41, 6167-6184	5.3	19
63	Precision of nitrogen dioxide photolysis rate measurements. <i>Environmental Science & Environmental Sci</i>	10.3	19
62	Aura OMI observations of regional SO ₂ and NO ₂ pollution changes from 2005 to 2014		19
61	Vertical distributions of aerosol optical properties during the spring 2016 ARIAs airborne campaign in the North China Plain. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 8995-9010	6.8	19
60	Observations and tropospheric photochemistry in central North Carolina. <i>Journal of Geophysical Research</i> , 1994 , 99, 10553		18
59	Methane Emissions from the Marcellus Shale in Southwestern Pennsylvania and Northern West Virginia Based on Airborne Measurements. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019 , 124, 1862-1878	4.4	18
58	An observationally constrained evaluation of the oxidative capacity in the tropical western Pacific troposphere. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016 , 121, 7461-7488	4.4	17
57	Regional air pollution and its radiative forcing: Studies with a single-column chemical and radiation transport model. <i>Journal of Geophysical Research</i> , 2001 , 106, 28751-28770		16
56	Interannual variability over the eastern North Atlantic Ocean: Chemical and meteorological evidence for tropical influence on regional-scale transport in the extratropics. <i>Journal of Combusical Research</i> 1994, 22, 22, 23		16

55	Full-coverage mapping and spatiotemporal variations of ground-level ozone (O3) pollution from 2013 to 2020 across China. <i>Remote Sensing of Environment</i> , 2021 , 270, 112775	13.2	16
54	Urban Emissions of Water Vapor in Winter. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017 , 122, 9467-9484	4.4	13
53	Aircraft measurements of SO2 and aerosols over northeastern China: Vertical profiles and the influence of weather on air quality. <i>Atmospheric Environment</i> , 2012 , 62, 492-501	5.3	13
52	The sensitivity of modeled ozone to the temporal distribution of point, area, and mobile source emissions in the eastern United States. <i>Atmospheric Environment</i> , 2009 , 43, 4603-4611	5.3	13
51	Correcting model biases of CO in East Asia: impact on oxidant distributions during KORUS-AQ. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 14617-14647	6.8	13
50	Concentrations and origins of atmospheric lead and other trace species at a rural site in northern China. <i>Journal of Geophysical Research</i> , 2010 , 115,		12
49	Carbon monoxide in the U.S. mid-Atlantic troposphere: Evidence for a decreasing trend. <i>Geophysical Research Letters</i> , 1999 , 26, 2861-2864	4.9	12
48	Use of tethersonde and aircraft profiles to study the impact of mesoscale and microscale meteorology on air quality. <i>Atmospheric Environment</i> , 2017 , 149, 55-69	5.3	11
47	Modification of a commercial cavity ring-down spectroscopy NO2 detector for enhanced sensitivity. <i>Review of Scientific Instruments</i> , 2009 , 80, 113107	1.7	11
46	Nonmethane hydrocarbon mixing ratios in continental outflow air from eastern North America: Export of ozone precursors to Bermuda. <i>Journal of Geophysical Research</i> , 2000 , 105, 9981-9990		11
45	Linking improvements in sulfur dioxide emissions to decreasing sulfate wet deposition by combining satellite and surface observations with trajectory analysis. <i>Atmospheric Environment</i> , 2019 , 199, 210-223	5.3	11
44	Volatile chemical product emissions enhance ozone and modulate urban chemistry. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	11
43	Wintertime CO, CH, and CO Emissions Estimation for the Washington, DC-Baltimore Metropolitan Area Using an Inverse Modeling Technique. <i>Environmental Science & Environmental </i>	1 ^{40.3}	10
42	A new gas-phase nitric acid calibration system. <i>Environmental Science & Environmental Science & Envir</i>	10 .3	10
41	Observations of tropospheric trace gases and meteorology in rural Virginia using an unattended monitoring system: Hurricane Hugo (1989), A case study. <i>Journal of Geophysical Research</i> , 1991 , 96, 934	1	10
40	The global tropospheric ammonia distribution as seen in the 13 year AIRS measurement record		10
39	Methane emissions from the Marcellus Shale in southwestern Pennsylvania and northern West Virginia based on airborne measurements. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017 , 122, 4639-4653	4.4	9
38	Ground-based and airborne observations of carbon monoxide during NASA Measurements of Air Pollution From Satellite (MAPS) missions SRL-1 and SRL-2. <i>Journal of Geophysical Research</i> , 1998 , 103, 19305-19316		9

37	Assessing Measurements of Pollution in the Troposphere (MOPITT) carbon monoxide retrievals over urban versus non-urban regions. <i>Atmospheric Measurement Techniques</i> , 2020 , 13, 1337-1356	4	8
36	Using near-road observations of CO, NOy, and CO2 to investigate emissions from vehicles: Evidence for an impact of ambient temperature and specific humidity. <i>Atmospheric Environment</i> , 2020 , 232, 117.	558 ³	8
35	Evidence for an increase in the ozone photochemical lifetime in the eastern United States using a regional air quality model. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015 , 120, 12778-12793	4.4	8
34	Tropospheric chemistry over the lower Great Plains of the United States. 1. Meteorology. <i>Journal of Geophysical Research</i> , 1992 , 97, 17963		8
33	Smoke over haze: Comparative analysis of satellite, surface radiometer, and airborne in situ measurements of aerosol optical properties and radiative forcing over the eastern United States. <i>Journal of Geophysical Research</i> , 2005 , 110,		7
32	Reference NO2 calibration system for ground-based intercomparisons during NASA's GTE/CITE 2 mission. <i>Journal of Geophysical Research</i> , 1990 , 95, 10139-10146		7
31	Dependence of j[O3-O(1D)] on the choice of extraterrestrial solar irradiance data. <i>Environmental Science & Environmental Scie</i>	10.3	7
30	Measurement report: Aircraft observations of ozone, nitrogen oxides, and volatile organic compounds over Hebei Province, China. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 14523-14545	6.8	6
29	Impact of bay breeze and thunderstorm circulations on surface ozone at a site along the Chesapeake Bay 2011 2016. <i>Atmospheric Environment</i> , 2019 , 198, 351-365	5.3	6
28	Expected ozone benefits of reducing nitrogen oxide (NO) emissions from coal-fired electricity generating units in the eastern United States. <i>Journal of the Air and Waste Management Association</i> , 2017 , 67, 279-291	2.4	5
27	Characterization and demonstration of a black carbon aerosol mimic for instrument evaluation. <i>Aerosol Science and Technology</i> , 2019 , 53, 1322-1333	3.4	5
26	Nitric oxide emissions from the high-temperature viscous boundary layers of hypersonic aircraft within the stratosphere. <i>Journal of Geophysical Research</i> , 1993 , 98, 16755		5
25	Trends in emissions and concentrations of air pollutants in the lower troposphere in the Baltimore/Washington airshed from 1997 to 2011		5
24	A combined approach for the evaluation of a volatile organic compound emissions inventory. <i>Journal of the Air and Waste Management Association</i> , 2006 , 56, 169-78	2.4	4
23	Qualitative and quantitative flow visualization technique using ozone. <i>Review of Scientific Instruments</i> , 1979 , 50, 705	1.7	4
22	The net decay time of anomalies in concentrations of atmospheric pollutants. <i>Atmospheric Environment</i> , 2017 , 160, 19-26	5.3	3
21	Chemical climatology of atmospheric pollutants in the eastern United States: Seasonal/diurnal cycles and contrast under clear/cloudy conditions for remote sensing. <i>Atmospheric Environment</i> , 2019 , 206, 85-107	5.3	3
20	Evaluation of thermal optical analysis (TOA) using an aqueous binary mixture. <i>Atmospheric Environment</i> , 2020 , 241, 117647	5.3	3

(1985-2005)

19	Reply to comment by D. A. Hansen et al. on The 2003 North American electrical blackout: An accidental experiment in atmospheric chemistry (Geophysical Research Letters, 2005, 32,	4.9	3
18	Synergistic aircraft and ground observations of transported wildfire smoke and its impact on air quality in New York City during the summer 2018 LISTOS campaign. <i>Science of the Total Environment</i> , 2021 , 773, 145030	10.2	3
17	Measured and modelled ozone photochemical production in the Baltimore-Washington airshed. <i>Atmospheric Environment: X</i> , 2019 , 2, 100017	2.8	2
16	Evaluation of Anthropogenic Emissions and Ozone Pollution in the North China Plain: Insights from the Air Chemistry Research in Asia (ARIAs) Campaign 2019 ,		2
15	Fluxes of Atmospheric Greenhouse-Gases in Maryland (FLAGG-MD): Emissions of Carbon Dioxide in the Baltimore, MD-Washington, D.C. Area. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020 , 125, e2019JD032004	4.4	2
14	Correcting model biases of CO in East Asia: impact on oxidant distributions during KORUS-AQ		2
13	Ozone and NO _x chemistry in the eastern US: evaluation of CMAQ/CB05 with satellite (OMI) data		2
12	Volcanic SO₂ effective layer height retrieval for the Ozone Monitoring Instrument (OMI) using a machine-learning approach. <i>Atmospheric Measurement Techniques</i> , 2021 , 14, 3673-3691	4	2
11	Ozone Production and Its Sensitivity to NO_{<i>x</i>} and VOCs: Results from the DISCOVER-AQ Field Experiment, Houston 2013 2016 ,		2
10	Monitoring Neighborhood Concentrations of PM2.5 and Black Carbon: When Using Citywide Averages Underestimates Impacts in a Community with Environmental Justice Issues. <i>Environmental Justice</i> , 2020 , 13, 27-35	1.7	2
9	Global to local impacts on atmospheric CO2 from the COVID-19 lockdown, biosphere and weather variabilities. <i>Environmental Research Letters</i> , 2022 , 17, 015003	6.2	2
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7	Determination of the dynamic response of a nitric oxide detector. <i>Review of Scientific Instruments</i> , 1999 , 70, 4078-4080	1.7	1
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2	Pollution from automobiles. <i>Nature</i> , 1985 , 315, 710-710	50.4	

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