# David D Parrish

## List of Publications by Citations

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|---|---|---|---|
| 242 papers | 21,986 citations | 83 h-index | 140 g-index |
| 265 ext. papers | 23,922 ext. citations | 8.6 avg, IF | 6.02 L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 242 | North American Regional Reanalysis. *Bulletin of the American Meteorological Society*, **2006**, 87, 343-360 | 6.1 | 2503 |
| 241 | Ozone production in the rural troposphere and the implications for regional and global ozone distributions. *Journal of Geophysical Research*, **1987**, 92, 4191 | | 739 |
| 240 | Atmospheric composition change  global and regional air quality. *Atmospheric Environment*, **2009**, 43, 5268-5350 | 5.3 | 592 |
| 239 | Ozone precursor relationships in the ambient atmosphere. *Journal of Geophysical Research*, **1992**, 97, 6037 | | 518 |
| 238 | Models and observations of the impact of natural hydrocarbons on rural ozone. *Nature*, **1987**, 329, 705-707 | 50.4 | 449 |
| 237 | Increasing springtime ozone mixing ratios in the free troposphere over western North America. *Nature*, **2010**, 463, 344-8 | 50.4 | 340 |
| 236 | Correlation of ozone with NOy in photochemically aged air. *Journal of Geophysical Research*, **1993**, 98, 2917-2925 | | 296 |
| 235 | Global distribution and trends of tropospheric ozone: An observation-based review. *Elementa*, **2014** , 2, | 3.6 | 292 |
| 234 | Export of north american ozone pollution to the north atlantic ocean. *Science*, **1993**, 259, 1436-9 | 33.3 | 261 |
| 233 | Reactive nitrogen species in the troposphere: Measurements of NO, NO2, HNO3, particulate nitrate, peroxyacetyl nitrate (PAN), O3, and total reactive odd nitrogen (NO y ) at Niwot Ridge, Colorado. *Journal of Geophysical Research*, **1986**, 91, 9781 | | 239 |
| 232 | Effect of petrochemical industrial emissions of reactive alkenes and NOx on tropospheric ozone formation in Houston, Texas. *Journal of Geophysical Research*, **2003**, 108, | | 225 |
| 231 | Chemical data quantify Deepwater Horizon hydrocarbon flow rate and environmental distribution. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 20246-53 | 11.5 | 224 |
| 230 | Transatlantic transport of pollution and its effects on surface ozone in Europe and North America. *Journal of Geophysical Research*, **2002**, 107, ACH 4-1 | | 220 |
| 229 | Determination of urban volatile organic compound emission ratios and comparison with an emissions database. *Journal of Geophysical Research*, **2007**, 112, | | 218 |
| 228 | Observations of ozone formation in power plant plumes and implications for ozone control strategies. *Science*, **2001**, 292, 719-23 | 33.3 | 214 |
| 227 | Impact of natural hydrocarbons on hydroxyl and peroxy radicals at a remote site. *Journal of Geophysical Research*, **1987**, 92, 11879 | | 212 |
| 226 | Critical evaluation of US on-road vehicle emission inventories. *Atmospheric Environment*, **2006**, 40, 2288-2300 | 3.3 | 199 |

| | | | |
|---|---|---|---|
| 225 | Relationships between ozone and carbon monoxide at surface sites in the North Atlantic region. *Journal of Geophysical Research*, **1998**, 103, 13357-13376 | | 199 |
| 224 | International Consortium for Atmospheric Research on Transport and Transformation (ICARTT): North America to Europe Overview of the 2004 summer field study. *Journal of Geophysical Research*, **2006**, 111, | | 195 |
| 223 | Long-term changes in lower tropospheric baseline ozone concentrations at northern mid-latitudes. *Atmospheric Chemistry and Physics*, **2012**, 12, 11485-11504 | 6.8 | 193 |
| 222 | Effects of changing power plant NOx emissions on ozone in the eastern United States: Proof of concept. *Journal of Geophysical Research*, **2006**, 111, | | 192 |
| 221 | Indications of photochemical histories of Pacific air masses from measurements of atmospheric trace species at Point Arena, California. *Journal of Geophysical Research*, **1992**, 97, 15883 | | 183 |
| 220 | High winter ozone pollution from carbonyl photolysis in an oil and gas basin. *Nature*, **2014**, 514, 351-4 | 50.4 | 181 |
| 219 | The 2010 California Research at the Nexus of Air Quality and Climate Change (CalNex) field study. *Journal of Geophysical Research D: Atmospheres*, **2013**, 118, 5830-5866 | 4.4 | 178 |
| 218 | Emissions lifetimes and ozone formation in power plant plumes. *Journal of Geophysical Research*, **1998**, 103, 22569-22583 | | 176 |
| 217 | Climate change. Clean air for megacities. *Science*, **2009**, 326, 674-5 | 33.3 | 175 |
| 216 | Ozone production in transpacific Asian pollution plumes and implications for ozone air quality in California. *Journal of Geophysical Research*, **2004**, 109, | | 170 |
| 215 | Air quality progress in North American megacities: A review. *Atmospheric Environment*, **2011**, 45, 7015-7025 | 3.9 | 168 |
| 214 | Emission ratios of anthropogenic volatile organic compounds in northern mid-latitude megacities: Observations versus emission inventories in Los Angeles and Paris. *Journal of Geophysical Research D: Atmospheres*, **2013**, 118, 2041-2057 | 4.4 | 165 |
| 213 | Gasoline emissions dominate over diesel in formation of secondary organic aerosol mass. *Geophysical Research Letters*, **2012**, 39, n/a-n/a | 4.9 | 163 |
| 212 | Reduced emissions of CO2, NOx, and SO2 from U.S. power plants owing to switch from coal to natural gas with combined cycle technology. *Earth's Future*, **2014**, 2, 75-82 | 7.9 | 162 |
| 211 | Relationship of ozone and carbon monoxide over North America. *Journal of Geophysical Research*, **1994**, 99, 14565 | | 160 |
| 210 | Multiyear trends in volatile organic compounds in Los Angeles, California: Five decades of decreasing emissions. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a | | 158 |
| 209 | Emission sources and ocean uptake of acetonitrile (CH3CN) in the atmosphere. *Journal of Geophysical Research*, **2003**, 108, | | 153 |
| 208 | A case study of transpacific warm conveyor belt transport: Influence of merging airstreams on trace gas import to North America. *Journal of Geophysical Research*, **2004**, 109, | | 148 |

| | | | |
|---|---|---|---|
| 207 | The total reactive oxidized nitrogen levels and the partitioning between the individual species at six rural sites in eastern North America. *Journal of Geophysical Research*, **1993**, 98, 2927-2939 | | 147 |
| 206 | Quantifying sources of methane using light alkanes in the Los Angeles basin, California. *Journal of Geophysical Research D: Atmospheres*, **2013**, 118, 4974-4990 | 4.4 | 146 |
| 205 | Volatile organic compounds (VOCs) in urban air: How chemistry affects the interpretation of positive matrix factorization (PMF) analysis. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a | | 145 |
| 204 | Increasing background ozone during spring on the west coast of North America. *Geophysical Research Letters*, **2003**, 30, | 4.9 | 141 |
| 203 | Organic aerosol formation downwind from the Deepwater Horizon oil spill. *Science*, **2011**, 331, 1295-9 | 33.3 | 138 |
| 202 | Overview of the Second Texas Air Quality Study (TexAQS II) and the Gulf of Mexico Atmospheric Composition and Climate Study (GoMACCS). *Journal of Geophysical Research*, **2009**, 114, | | 138 |
| 201 | Ozone production from Canadian wildfires during June and July of 1995. *Journal of Geophysical Research*, **2002**, 107, ACH 7-1 | | 138 |
| 200 | Quantifying atmospheric methane emissions from the Haynesville, Fayetteville, and northeastern Marcellus shale gas production regions. *Journal of Geophysical Research D: Atmospheres*, **2015**, 120, 2119-2139 | 4.4 | 132 |
| 199 | Airborne intercomparison of vacuum ultraviolet fluorescence and tunable diode laser absorption measurements of tropospheric carbon monoxide. *Journal of Geophysical Research*, **2000**, 105, 24251-24261 | | 132 |
| 198 | Atmospheric chemistry and distribution of formaldehyde and several multioxygenated carbonyl compounds during the 1995 Nashville/Middle Tennessee Ozone Study. *Journal of Geophysical Research*, **1998**, 103, 22449-22462 | | 130 |
| 197 | Contribution of organic nitrates to the total reactive nitrogen budget at a rural eastern U.S. site. *Journal of Geophysical Research*, **1990**, 95, 9809-9816 | | 130 |
| 196 | Scaling relationship for NO2 pollution and urban population size: a satellite perspective. *Environmental Science & Technology*, **2013**, 47, 7855-61 | 10.3 | 129 |
| 195 | Increasing ozone in marine boundary layer inflow at the west coasts of North America and Europe. *Atmospheric Chemistry and Physics*, **2009**, 9, 1303-1323 | 6.8 | 128 |
| 194 | Long-term changes in lower tropospheric baseline ozone concentrations: Comparing chemistry-climate models and observations at northern midlatitudes. *Journal of Geophysical Research D: Atmospheres*, **2014**, 119, 5719-5736 | 4.4 | 124 |
| 193 | Tropospheric Ozone Assessment Report: Assessment of global-scale model performance for global and regional ozone distributions, variability, and trends. *Elementa*, **2018**, 6, | 3.6 | 121 |
| 192 | Daytime buildup and nighttime transport of urban ozone in the boundary layer during a stagnation episode. *Journal of Geophysical Research*, **1998**, 103, 22519-22544 | | 120 |
| 191 | Effects of mixing on evolution of hydrocarbon ratios in the troposphere. *Journal of Geophysical Research*, **2007**, 112, | | 117 |
| 190 | Carbon monoxide concentrations and their relation to concentrations of total reactive oxidized nitrogen at two rural U.S. sites. *Journal of Geophysical Research*, **1991**, 96, 9309 | | 117 |

| | | | |
|---|---|---|---|
| 189 | Review of observation-based analysis of the regional factors influencing ozone concentrations. *Atmospheric Environment*, **2000**, 34, 2045-2061 | 5.3 | 116 |
| 188 | Signatures of terminal alkene oxidation in airborne formaldehyde measurements during TexAQS 2000. *Journal of Geophysical Research*, **2003**, 108, n/a-n/a | | 115 |
| 187 | Observations and modeling of the reactive nitrogen photochemistry at a rural site. *Journal of Geophysical Research*, **1991**, 96, 3045 | | 115 |
| 186 | Tropospheric Ozone Assessment Report: Database and Metrics Data of Global Surface Ozone Observations. *Elementa*, **2017**, 5, 58 | 3.6 | 112 |
| 185 | Methods for gas-phase measurements of ozone, ozone precursors and aerosol precursors. *Atmospheric Environment*, **2000**, 34, 1921-1957 | 5.3 | 108 |
| 184 | Primary and secondary sources of formaldehyde in urban atmospheres: Houston Texas region. *Atmospheric Chemistry and Physics*, **2012**, 12, 3273-3288 | 6.8 | 107 |
| 183 | Determination of nitrogen oxide emissions from soils: Results from a grassland site in Colorado, United States. *Journal of Geophysical Research*, **1987**, 92, 2173 | | 105 |
| 182 | Trace gas signatures of the airstreams within North Atlantic cyclones: Case studies from the North Atlantic Regional Experiment (NARE 87) aircraft intensive. *Journal of Geophysical Research*, **2001**, 106, 5437-5456 | | 103 |
| 181 | Systematic variations in the concentration of NO x (NO Plus NO2) at Niwot Ridge, Colorado. *Journal of Geophysical Research*, **1990**, 95, 1817 | | 102 |
| 180 | Intercomparison of NO2 measurement techniques. *Journal of Geophysical Research*, **1990**, 95, 3579 | | 102 |
| 179 | Comparison of air pollutant emissions among mega-cities. *Atmospheric Environment*, **2009**, 43, 6435-6441 | 5.3 | 98 |
| 178 | Ammonia sources in the California South Coast Air Basin and their impact on ammonium nitrate formation. *Geophysical Research Letters*, **2012**, 39, n/a-n/a | 4.9 | 97 |
| 177 | Relationship between peroxyacetyl nitrate and nitrogen oxides in the clean troposphere. *Nature*, **1985**, 318, 347-349 | 50.4 | 97 |
| 176 | Particle growth in urban and industrial plumes in Texas. *Journal of Geophysical Research*, **2003**, 108, n/a-n/a | | 95 |
| 175 | Design and initial characterization of an inlet for gas-phase NOy measurements from aircraft. *Journal of Geophysical Research*, **1999**, 104, 5483-5492 | | 95 |
| 174 | The behavior of some organic nitrates at Boulder and Niwot Ridge, Colorado. *Journal of Geophysical Research*, **1990**, 95, 13949 | | 95 |
| 173 | Trends in ozone, its precursors, and related secondary oxidation products in Los Angeles, California: A synthesis of measurements from 1960 to 2010. *Journal of Geophysical Research D: Atmospheres*, **2013**, 118, 5893-5911 | 4.4 | 94 |
| 172 | Methane emissions inventory verification in southern California. *Atmospheric Environment*, **2010**, 44, 1-7 | 5.3 | 94 |

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|---|---|---|---|
| 171 | Atmospheric emissions from the Deepwater Horizon spill constrain air-water partitioning, hydrocarbon fate, and leak rate. *Geophysical Research Letters*, **2011**, 38, n/a-n/a | 4.9 | 91 |
| 170 | Evolution of alkyl nitrates with air mass age. *Journal of Geophysical Research*, **1995**, 100, 22805 | | 90 |
| 169 | Evaluation of GOME satellite measurements of tropospheric NO2 and HCHO using regional data from aircraft campaigns in the southeastern United States. *Journal of Geophysical Research*, **2004**, 109, | | 89 |
| 168 | Fast-response airborne in situ measurements of HNO3 during the Texas 2000 Air Quality Study. *Journal of Geophysical Research*, **2002**, 107, ACH 8-1 | | 89 |
| 167 | Measurements of the NO x -O3 photostationary state at Niwot Ridge, Colorado. *Journal of Geophysical Research*, **1986**, 91, 5361 | | 89 |
| 166 | Measurement of soil NO x emissions in central Pennsylvania. *Journal of Geophysical Research*, **1988**, 93, 9539 | | 87 |
| 165 | A study of ozone in the Colorado mountains. *Journal of Atmospheric Chemistry*, **1983**, 1, 87-105 | 3.2 | 87 |
| 164 | Regional ozone and urban plumes in the southeastern United States: Birmingham, A case study. *Journal of Geophysical Research*, **1995**, 100, 18823 | | 86 |
| 163 | Airborne and ground-based observations of a weekend effect in ozone, precursors, and oxidation products in the California South Coast Air Basin. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a | | 84 |
| 162 | Ozone photochemistry in an oil and natural gas extraction region during winter: simulations of a snow-free season in the Uintah Basin, Utah. *Atmospheric Chemistry and Physics*, **2013**, 13, 8955-8971 | 6.8 | 84 |
| 161 | Intercontinental Transport and Chemical Transformation 2002 (ITCT 2K2) and Pacific Exploration of Asian Continental Emission (PEACE) experiments: An overview of the 2002 winter and spring intensives. *Journal of Geophysical Research*, **2004**, 109, | | 84 |
| 160 | Lower tropospheric ozone at northern midlatitudes: Changing seasonal cycle. *Geophysical Research Letters*, **2013**, 40, 1631-1636 | 4.9 | 83 |
| 159 | Decadal change in carbon monoxide to nitrogen oxide ratio in U.S. vehicular emissions. *Journal of Geophysical Research*, **2002**, 107, ACH 5-1 | | 83 |
| 158 | Peroxy radicals in the ROSE experiment: Measurement and theory. *Journal of Geophysical Research*, **1992**, 97, 20671 | | 82 |
| 157 | An overview of the Stratospheric-Tropospheric Experiment: Radiation, Aerosols, and Ozone (STERAO)-Deep Convection experiment with results for the July 10, 1996 storm. *Journal of Geophysical Research*, **2000**, 105, 10023-10045 | | 81 |
| 156 | Isoprene and its oxidation products, methacrolein and methylvinyl ketone, at an urban forested site during the 1999 Southern Oxidants Study. *Journal of Geophysical Research*, **2001**, 106, 8035-8046 | | 81 |
| 155 | Particle characteristics following cloud-modified transport from Asia to North America. *Journal of Geophysical Research*, **2004**, 109, | | 80 |
| 154 | An investigation of the chemistry of ship emission plumes during ITCT 2002. *Journal of Geophysical Research*, **2005**, 110, | | 79 |

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|---|---|---|---|
| 153 | Internal consistency tests for evaluation of measurements of anthropogenic hydrocarbons in the troposphere. *Journal of Geophysical Research*, **1998**, 103, 22339-22359 | | 78 |
| 152 | Chemical composition of air masses transported from Asia to the U.S. West Coast during ITCT 2K2: Fossil fuel combustion versus biomass-burning signatures. *Journal of Geophysical Research*, **2004**, 109, | | 76 |
| 151 | Direct transport of midlatitude stratospheric ozone into the lower troposphere and marine boundary layer of the tropical Pacific Ocean. *Journal of Geophysical Research*, **2005**, 110, | | 75 |
| 150 | Changes in the photochemical environment of the temperate North Pacific troposphere in response to increased Asian emissions. *Journal of Geophysical Research*, **2004**, 109, | | 74 |
| 149 | Chlorine as a primary radical: evaluation of methods to understand its role in initiation of oxidative cycles. *Atmospheric Chemistry and Physics*, **2014**, 14, 3427-3440 | 6.8 | 73 |
| 148 | Turbulence and Gravity Waves within an Upper-Level Front. *Journals of the Atmospheric Sciences*, **2005**, 62, 3885-3908 | 2.1 | 73 |
| 147 | Variability in ammonium nitrate formation and nitric acid depletion with altitude and location over California. *Journal of Geophysical Research*, **2003**, 108, | | 72 |
| 146 | Particle growth in the plumes of coal-fired power plants. *Journal of Geophysical Research*, **2002**, 107, AAC 9-1 | | 72 |
| 145 | Spatial and temporal variability of nonmethane hydrocarbon mixing ratios and their relation to photochemical lifetime. *Journal of Geophysical Research*, **1998**, 103, 13557-13567 | | 72 |
| 144 | Atmosphere. Challenges of a lowered U.S. ozone standard. *Science*, **2015**, 348, 1096-7 | 33.3 | 71 |
| 143 | Gas-phase chemical characteristics of Asian emission plumes observed during ITCT 2K2 over the eastern North Pacific Ocean. *Journal of Geophysical Research*, **2004**, 109, | | 71 |
| 142 | Trace gas mixing ratio variability versus lifetime in the troposphere and stratosphere: Observations. *Journal of Geophysical Research*, **1999**, 104, 16091-16113 | | 71 |
| 141 | Reactive nitrogen transport and photochemistry in urban plumes over the North Atlantic Ocean. *Journal of Geophysical Research*, **2006**, 111, | | 70 |
| 140 | Characterizing summertime chemical boundary conditions for airmasses entering the US West Coast. *Atmospheric Chemistry and Physics*, **2011**, 11, 1769-1790 | 6.8 | 69 |
| 139 | On the life cycle of a stratospheric intrusion and its dispersion into polluted warm conveyor belts. *Journal of Geophysical Research*, **2004**, 109, | | 69 |
| 138 | Photochemical ozone production in the rural southeastern United States during the 1990 Rural Oxidants in the Southern Environment (ROSE) program. *Journal of Geophysical Research*, **1998**, 103, 22491-22508 | | 69 |
| 137 | Peroxy radicals as measured in ROSE and estimated from photostationary state deviations. *Journal of Geophysical Research*, **1993**, 98, 18355-18366 | | 69 |
| 136 | Export of NOy from the North American boundary layer: Reconciling aircraft observations and global model budgets. *Journal of Geophysical Research*, **2004**, 109, | | 67 |

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|---|---|---|---|
| 135 | An internally consistent set of globally distributed atmospheric carbon monoxide mixing ratios developed using results from an intercomparison of measurements. *Journal of Geophysical Research*, **1998**, 103, 19285-19293 | | 67 |
| 134 | Transport and processing of O3 and O3 precursors over the North Atlantic: An overview of the 1993 North Atlantic Regional Experiment (NARE) summer intensive. *Journal of Geophysical Research*, **1996**, 101, 28877-28891 | | 67 |
| 133 | The measurement of the photodissociation rate of NO2 in the atmosphere. *Atmospheric Environment*, **1983**, 17, 1365-1379 | | 67 |
| 132 | Intercomparison of tropospheric OH and ancillary trace gas measurements at Fritz Peak Observatory, Colorado. *Journal of Geophysical Research*, **1994**, 99, 18605 | | 66 |
| 131 | Measurements of HNO3 and NO3 particulates at a rural site in the Colorado mountains. *Journal of Geophysical Research*, **1986**, 91, 5379 | | 66 |
| 130 | Measurement of western U.S. baseline ozone from the surface to the tropopause and assessment of downwind impact regions. *Journal of Geophysical Research*, **2011**, 116, | | 63 |
| 129 | Impact of transported background ozone inflow on summertime air quality in a California ozone exceedance area. *Atmospheric Chemistry and Physics*, **2010**, 10, 10093-10109 | 6.8 | 63 |
| 128 | Measurements of hydrocarbons, oxygenated hydrocarbons, carbon monoxide, and nitrogen oxides in an urban basin in Colorado: Implications for emission inventories. *Journal of Geophysical Research* , **1995**, 100, 22771 | | 63 |
| 127 | Airborne measurements of isoprene, CO, and anthropogenic hydrocarbons and their implications. *Journal of Geophysical Research*, **2000**, 105, 9091-9105 | | 61 |
| 126 | Do emissions from ships have a significant impact on concentrations of nitrogen oxides in the marine boundary layer?. *Geophysical Research Letters*, **2000**, 27, 2229-2232 | 4.9 | 61 |
| 125 | Nighttime chemistry at a high altitude site above Hong Kong. *Journal of Geophysical Research D: Atmospheres*, **2016**, 121, 2457-2475 | 4.4 | 61 |
| 124 | Impacts of transported background ozone on California air quality during the ARCTAS-CARB period a multi-scale modeling study. *Atmospheric Chemistry and Physics*, **2010**, 10, 6947-6968 | 6.8 | 60 |
| 123 | An improved chemical amplifier technique for peroxy radical measurements. *Journal of Geophysical Research*, **1993**, 98, 2897-2909 | | 60 |
| 122 | Air quality implications of the Deepwater Horizon oil spill. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 20280-5 | 11.5 | 59 |
| 121 | Aircraft observations of daytime NO3 and N2O5 and their implications for tropospheric chemistry. *Journal of Photochemistry and Photobiology A: Chemistry*, **2005**, 176, 270-278 | 4.7 | 59 |
| 120 | Establishing policy relevant background (PRB) ozone concentrations in the United States. *Environmental Science & Technology*, **2011**, 45, 9484-97 | 10.3 | 57 |
| 119 | Temporal changes in U.S. benzene emissions inferred from atmospheric measurements. *Environmental Science & Technology*, **2005**, 39, 1403-8 | 10.3 | 57 |
| 118 | Molecular beam chemistry. Persistent collision complex in reaction of oxygen atoms with bromine molecules. *Journal of the American Chemical Society*, **1973**, 95, 6133-6134 | 16.4 | 57 |

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|---|---|---|---|
| 117 | Trace gas composition of midlatitude cyclones over the western North Atlantic Ocean: A conceptual model. *Journal of Geophysical Research*, **2002**, 107, ACH 1-1 | | 55 |
| 116 | Meteorological mechanisms for transporting O3 over the western North Atlantic Ocean: A case study for August 24–29, 1993. *Journal of Geophysical Research*, **1996**, 101, 29213-29227 | | 55 |
| 115 | Analysis of long-term observations of NOx and CO in megacities and application to constraining emissions inventories. *Geophysical Research Letters*, **2016**, 43, 9920-9930 | 4.9 | 55 |
| 114 | Measurement of peroxycarboxylic nitric anhydrides (PANs) during the ITCT 2K2 aircraft intensive experiment. *Journal of Geophysical Research*, **2004**, 109, | | 54 |
| 113 | The Nonmethane Hydrocarbon Intercomparison Experiment (NOMHICE): Task 3. *Journal of Geophysical Research*, **1999**, 104, 26069-26086 | | 54 |
| 112 | Routine, continuous measurement of carbon monoxide with parts per billion precision. *Environmental Science & Technology*, **1994**, 28, 1615-8 | 10.3 | 54 |
| 111 | Lagrangian transport model forecasts and a transport climatology for the Intercontinental Transport and Chemical Transformation 2002 (ITCT 2K2) measurement campaign. *Journal of Geophysical Research*, **2004**, 109, | | 53 |
| 110 | Measurement of alkyl nitrates at Chebogue Point, Nova Scotia during the 1993 North Atlantic Regional Experiment (NARE) intensive. *Journal of Geophysical Research*, **1998**, 103, 13569-13580 | | 53 |
| 109 | Establishing Lagrangian connections between observations within air masses crossing the Atlantic during the International Consortium for Atmospheric Research on Transport and Transformation experiment. *Journal of Geophysical Research*, **2006**, 111, | | 52 |
| 108 | Dependence of daily peak O3 concentrations near Houston, Texas on environmental factors: Wind speed, temperature, and boundary-layer depth. *Atmospheric Environment*, **2011**, 45, 162-173 | 5.3 | 51 |
| 107 | A top-down analysis of emissions from selected Texas power plants during TexAQS 2000 and 2006. *Journal of Geophysical Research*, **2010**, 115, | | 51 |
| 106 | Budgets for nocturnal VOC oxidation by nitrate radicals aloft during the 2006 Texas Air Quality Study. *Journal of Geophysical Research*, **2011**, 116, n/a-n/a | | 50 |
| 105 | Airborne measurements of ethene from industrial sources using laser photo-acoustic spectroscopy. *Environmental Science & Technology*, **2009**, 43, 2437-42 | 10.3 | 50 |
| 104 | Instrumentation and Measurement Strategy for the NOAA SENEX Aircraft Campaign as Part of the Southeast Atmosphere Study 2013. *Atmospheric Measurement Techniques*, **2016**, 9, 3063-3093 | 4 | 50 |
| 103 | Stratospheric versus pollution influences on ozone at Bermuda: Reconciling past analyses. *Journal of Geophysical Research*, **2002**, 107, ACH 1-1 | | 49 |
| 102 | Episodic removal of NOy species from the marine boundary layer over the North Atlantic. *Journal of Geophysical Research*, **1996**, 101, 28947-28960 | | 49 |
| 101 | Airborne observations of methane emissions from rice cultivation in the Sacramento Valley of California. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a | | 48 |
| 100 | Numerical simulations of the July 10 Stratospheric-Tropospheric Experiment: Radiation, Aerosols, and Ozone/Deep Convection Experiment convective system: Kinematics and transport. *Journal of Geophysical Research*, **2000**, 105, 19973-19990 | | 48 |

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|---|---|---|---|
| 99 | Mixing of anthropogenic pollution with stratospheric ozone: A case study from the North Atlantic wintertime troposphere. *Journal of Geophysical Research*, **2000**, 105, 24363-24374 | | 48 |
| 98 | Measurement of nitrogen oxide fluxes from soils: Intercomparison of enclosure and gradient measurement techniques. *Journal of Geophysical Research*, **1987**, 92, 2165 | | 48 |
| 97 | Export of NOy from the North American boundary layer during 1996 and 1997 North Atlantic Regional Experiments. *Journal of Geophysical Research*, **2002**, 107, ACH 11-1-ACH 11-13 | | 47 |
| 96 | Assessment of pollutant emission inventories by principal component analysis of ambient air measurements. *Geophysical Research Letters*, **1992**, 19, 1009-1012 | 4.9 | 46 |
| 95 | North Atlantic Regional Experiment 1993 Summer Intensive: Foreword. *Journal of Geophysical Research*, **1996**, 101, 28869-28875 | | 45 |
| 94 | NOx measurements in clean continental air and analysis of the contributing meteorology. *Journal of Geophysical Research*, **1984**, 89, 9623 | | 45 |
| 93 | Biogenic VOC oxidation and organic aerosol formation in an urban nocturnal boundary layer: aircraft vertical profiles in Houston, TX. *Atmospheric Chemistry and Physics*, **2013**, 13, 11317-11337 | 6.8 | 44 |
| 92 | Development of a semi-continuous method for the measurement of nitric acid vapor and particulate nitrate and sulfate. *Atmospheric Environment*, **1995**, 29, 2609-2624 | 5.3 | 44 |
| 91 | Trace gas composition of midlatitude cyclones over the western North Atlantic Ocean: A seasonal comparison of O3 and CO. *Journal of Geophysical Research*, **2002**, 107, ACH 2-1 | | 42 |
| 90 | An intercomparison of five ammonia measurement techniques. *Journal of Geophysical Research*, **1992**, 97, 11591 | | 41 |
| 89 | Lagrangian analysis of low altitude anthropogenic plume processing across the North Atlantic. *Atmospheric Chemistry and Physics*, **2008**, 8, 7737-7754 | 6.8 | 40 |
| 88 | Transition from high- to low-NOx control of night-time oxidation in the southeastern US. *Nature Geoscience*, **2017**, 10, 490-495 | 18.3 | 39 |
| 87 | Photochemical aging of volatile organic compounds in the Los Angeles basin: Weekday-weekend effect. *Journal of Geophysical Research D: Atmospheres*, **2013**, 118, 5018-5028 | 4.4 | 39 |
| 86 | Characterization of NOx, SO2, ethene, and propene from industrial emission sources in Houston, Texas. *Journal of Geophysical Research*, **2010**, 115, | | 39 |
| 85 | The Measurement of NOx in the Non-Urban Troposphere **1988**, 185-215 | | 39 |
| 84 | Nonmethane hydrocarbons at Pico Mountain, Azores: 1. Oxidation chemistry in the North Atlantic region. *Journal of Geophysical Research*, **2008**, 113, | | 37 |
| 83 | Molecular-Beam Kinetics. I. Magnetic Deflection Analysis of Reactions of Li with Cl2, ICl, Br2, SnCl4, and PCl3. *Journal of Chemical Physics*, **1969**, 51, 5467-5481 | 3.9 | 37 |
| 82 | Increasing atmospheric burden of ethanol in the United States. *Geophysical Research Letters*, **2012**, 39, | 4.9 | 36 |

| | | | |
|---|---|---|---|
| 81 | Relationships between PAN and ozone at sites in eastern North America. *Journal of Geophysical Research*, **1995**, 100, 22821 | | 36 |
| 80 | Molecular-Beam Kinetics. II. Magnetic Deflection Analysis of Reactions of Li with NO2, CH3NO2, SF6, CCl4, and CH3I. *Journal of Chemical Physics*, **1971**, 54, 2518-2528 | 3.9 | 36 |
| 79 | Fraction and composition of NOy transported in air masses lofted from the North American continental boundary layer. *Journal of Geophysical Research*, **2004**, 109, | | 35 |
| 78 | HONO emission and production determined from airborne measurements over the Southeast U.S.. *Journal of Geophysical Research D: Atmospheres*, **2016**, 121, 9237-9250 | 4.4 | 34 |
| 77 | A springtime comparison of tropospheric ozone and transport pathways on the east and west coasts of the United States. *Journal of Geophysical Research*, **2005**, 110, | | 34 |
| 76 | Factors influencing the concentration of gas phase hydrogen peroxide during the summer at Niwot Ridge, Colorado. *Journal of Geophysical Research*, **1995**, 100, 22831 | | 34 |
| 75 | Ground-based measurements of NO x and total reactive oxidized nitrogen (NO y ) at Sable Island, Nova Scotia, during the NARE 1993 summer intensive. *Journal of Geophysical Research*, **1996**, 101, 28991-29004 | | 34 |
| 74 | Background ozone and anthropogenic ozone enhancement at niwot ridge, Colorado. *Journal of Atmospheric Chemistry*, **1986**, 4, 63-80 | 3.2 | 34 |
| 73 | Observations of ozone transport from the free troposphere to the Los Angeles basin. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a | | 33 |
| 72 | Evaluation of ozone precursor source types using principal component analysis of ambient air measurements in rural Alabama. *Journal of Geophysical Research*, **1995**, 100, 22853 | | 33 |
| 71 | Air quality improvement in Los Angeles□perspectives for developing cities. *Frontiers of Environmental Science and Engineering*, **2016**, 10, 1 | 5.8 | 32 |
| 70 | Atmospheric in situ measurement of nitrate radical (NO3) and other photolysis rates using spectroradiometry and filter radiometry. *Journal of Geophysical Research*, **2007**, 112, | | 32 |
| 69 | Air emission inventories in North America: a critical assessment. *Journal of the Air and Waste Management Association*, **2006**, 56, 1115-29 | 2.4 | 30 |
| 68 | Relationship between photochemical ozone production and NOx oxidation in Houston, Texas. *Journal of Geophysical Research*, **2009**, 114, | | 29 |
| 67 | Magnitude, decadal changes, and impact of regional background ozone transported into the greater Houston, Texas, area. *Environmental Science & Technology*, **2013**, 47, 13985-92 | 10.3 | 28 |
| 66 | Contributions of regional transport and local sources to ozone exceedances in Houston and Dallas: Comparison of results from a photochemical grid model to aircraft and surface measurements. *Journal of Geophysical Research*, **2009**, 114, | | 28 |
| 65 | Reply [to □comment on □ndications of photochemical histories of Pacific air masses from measurements of atmospheric trace species at Point Arena, California□by D. D. Parrish et al.]□ *Journal of Geophysical Research*, **1993**, 98, 14995 | | 28 |
| 64 | Harmonic Forces Linear Model for Reactions of Cs Atoms with Alkyl Iodides. *Journal of Chemical Physics*, **1970**, 53, 2431-2435 | 3.9 | 28 |

| | | | |
|---|---|---|---|
| 63 | Electrical discharge source for tropospheric ozone-rich transients. *Journal of Geophysical Research*, **2002**, 107, ACH 16-1 | | 26 |
| 62 | Intercomparison of tunable diode laser and gas filter correlation measurements of ambient carbon monoxide. *Atmospheric Environment Part A General Topics*, **1991**, 25, 2277-2284 | | 26 |
| 61 | Seasonal cycles of O3 in the marine boundary layer: Observation and model simulation comparisons. *Journal of Geophysical Research D: Atmospheres*, **2016**, 121, 538-557 | 4.4 | 26 |
| 60 | A Multiwinter Analysis of Channeled Flow through a Prominent Gap along the Northern California Coast during CALJET and PACJET. *Monthly Weather Review*, **2006**, 134, 1815-1841 | 2.4 | 25 |
| 59 | Ozone Design Values in Southern California's Air Basins: Temporal Evolution and U.S. Background Contribution. *Journal of Geophysical Research D: Atmospheres*, **2017**, 122, 11,166-11,182 | 4.4 | 24 |
| 58 | City lights and urban air. *Nature Geoscience*, **2011**, 4, 730-731 | 18.3 | 24 |
| 57 | Factors influencing the concentration of gas phase hydrogen peroxide during the summer at Kinterbish, Alabama. *Journal of Geophysical Research*, **1995**, 100, 22841 | | 22 |
| 56 | Fossil-fueled power plants as a source of atmospheric carbon monoxide. *Journal of Environmental Monitoring*, **2003**, 5, 35-9 | | 21 |
| 55 | Uncertainties in models of tropospheric ozone based on Monte Carlo analysis: Tropospheric ozone burdens, atmospheric lifetimes and surface distributions. *Atmospheric Environment*, **2018**, 180, 93-102 | 5.3 | 20 |
| 54 | Nitric acid loss rates measured in power plant plumes. *Journal of Geophysical Research*, **2004**, 109, | | 20 |
| 53 | Effects of NOxcontrol and plume mixing on nighttime chemical processing of plumes from coal-fired power plants. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a | | 19 |
| 52 | Forecasting for a Lagrangian aircraft campaign. *Atmospheric Chemistry and Physics*, **2004**, 4, 1113-1124 | 6.8 | 19 |
| 51 | Local meteorological features affecting chemical measurements at a North Atlantic coastal site. *Journal of Geophysical Research*, **1996**, 101, 28935-28946 | | 19 |
| 50 | Exploring the drivers of the increased ozone production in Beijing in summertime during 2005–2016. *Atmospheric Chemistry and Physics*, **2020**, 20, 15617-15633 | 6.8 | 19 |
| 49 | Comparisons of airborne lidar measurements of ozone with airborne in situ measurements during the 1995 Southern Oxidants Study. *Journal of Geophysical Research*, **1998**, 103, 31155-31171 | | 17 |
| 48 | 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 |
| 47 | Comparison between the TOPAZ Airborne Ozone Lidar and In Situ Measurements during TexAQS 2006. *Journal of Atmospheric and Oceanic Technology*, **2011**, 28, 1243-1257 | 2 | 16 |
| 46 | Nonmethane hydrocarbons at Pico Mountain, Azores: 2. Event-specific analyses of the impacts of mixing and photochemistry on hydrocarbon ratios. *Journal of Geophysical Research*, **2008**, 113, | | 16 |

| | | | |
|---|---|---|---|
| 45 | Photochemical production and loss rates of ozone at Sable Island, Nova Scotia during the North Atlantic Regional Experiment (NARE) 1993 summer intensive. *Journal of Geophysical Research*, **1998**, 103, 13531-13555 | | 16 |
| 44 | Reversal of Long-Term Trend in Baseline Ozone Concentrations at the North American West Coast. *Geophysical Research Letters*, **2017**, 44, 10,675 | 4.9 | 15 |
| 43 | Distributions of ozone in the region of the subtropical jet: An analysis of in situ aircraft measurements. *Journal of Geophysical Research*, **2004**, 109, | | 15 |
| 42 | Alkyl nitrate measurements during STERAO 1996 and NARE 1997: Intercomparison and survey of results. *Journal of Geophysical Research*, **2001**, 106, 23043-23053 | | 15 |
| 41 | Measurements of nitrogen oxides and a simple model of NO y fate in the remote North Atlantic marine atmosphere. *Journal of Geophysical Research*, **1998**, 103, 13489-13503 | | 15 |
| 40 | Interhemispheric differences in seasonal cycles of tropospheric ozone in the marine boundary layer: Observation-model comparisons. *Journal of Geophysical Research D: Atmospheres*, **2016**, 121, 11,075-11,085 | 4.4 | 15 |
| 39 | Photostationary state deviation□stimated peroxy radicals and their implications for HOx and ozone photochemistry at a remote northern Atlantic coastal site. *Journal of Geophysical Research*, **2004**, 109, | | 14 |
| 38 | Hydrogen peroxide dry deposition lifetime determined from observed loss rates in a power plant plume. *Journal of Geophysical Research*, **1998**, 103, 22617-22628 | | 14 |
| 37 | Quantifying the role of PM dropping in variations of ground-level ozone: Inter-comparison between Beijing and Los Angeles. *Science of the Total Environment*, **2021**, 788, 147712 | 10.2 | 14 |
| 36 | Zonal Similarity of Long-Term Changes and Seasonal Cycles of Baseline Ozone at Northern Midlatitudes. *Journal of Geophysical Research D: Atmospheres*, **2020**, 125, e2019JD031908 | 4.4 | 13 |
| 35 | Ozone and alkyl nitrate formation from the Deepwater Horizon oil spill atmospheric emissions. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a | | 13 |
| 34 | New Directions: Does pollution increase or decrease tropospheric ozone in Winter□pring?. *Atmospheric Environment*, **1999**, 33, 5147-5149 | 5.3 | 13 |
| 33 | Airborne vacuum ultraviolet resonance fluorescence instrument for in situ measurement of CO. *Journal of Geophysical Research*, **2001**, 106, 24237-24244 | | 12 |
| 32 | Carbonyl sulfide as an inverse tracer for biogenic organic carbon in gas and aerosol phases. *Geophysical Research Letters*, **2009**, 36, | 4.9 | 11 |
| 31 | The role of anthropogenic emissions of NOx on tropospheric ozone over the North Atlantic Ocean: A three-dimensional, global model study. *Atmospheric Environment*, **1996**, 30, 1739-1749 | 5.3 | 11 |
| 30 | Carbon Monoxide and Light Alkanes as Tropospheric Tracers of Anthropogenic Ozone **1993**, 155-169 | | 10 |
| 29 | Urbanization and Air Pollution: Then and Now. *Eos*, **2015**, | 1.5 | 8 |
| 28 | Preface [to special section on North Atlantic Regional Experiment (NARE II)]. *Journal of Geophysical Research*, **1998**, 103, 13353-13355 | | 7 |

| | | | |
|---|---|---|---|
| 27 | Long-term trend of ozone in southern China reveals future mitigation strategy for air pollution. *Atmospheric Environment*, **2022**, 269, 118869 | 5.3 | 7 |
| 26 | Long-term changes in lower tropospheric baseline ozone concentrations at northern mid-latitudes | | 7 |
| 25 | Possible Mass Effect in Alkali-Atom Reactions: Crossed-Beam Studies of Li+Cl2, ICl, Br2, SnCl4, and PCl3. *Journal of Chemical Physics*, **1968**, 49, 5544-5545 | 3.9 | 6 |
| 24 | Instrumentation and Measurement Strategy for the NOAA SENEX Aircraft Campaign as Part of the Southeast Atmosphere Study 2013 | | 6 |
| 23 | Large contribution of biomass burning emissions to ozone throughout the global remote troposphere.. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118, | 11.5 | 6 |
| 22 | Hydrocarbon Removal in Power Plant Plumes Shows Nitrogen Oxide Dependence of Hydroxyl Radicals. *Geophysical Research Letters*, **2019**, 46, 7752-7760 | 4.9 | 5 |
| 21 | Flexible approach for quantifying average long-term changes and seasonal cycles of tropospheric trace species. *Atmospheric Measurement Techniques*, **2019**, 12, 3383-3394 | 4 | 5 |
| 20 | A case study of stratosphere-troposphere exchange during the 1996 North Atlantic Regional Experiment. *Journal of Geophysical Research*, **2004**, 109, | | 5 |
| 19 | Evaluating evidence for Cl sources and oxidation chemistry in a coastal, urban environment | | 5 |
| 18 | Sensitized fluorescence in crossed atomic beams: Hg(6 3P0,2)+Tl(6 2P1/2). *Journal of Chemical Physics*, **1975**, 63, 1980-1984 | 3.9 | 4 |
| 17 | Long-term changes in northern mid-latitude tropospheric ozone concentrations: Synthesis of two recent analyses. *Atmospheric Environment*, **2021**, 248, 118227 | 5.3 | 3 |
| 16 | Estimating background contributions and US anthropogenic enhancements to maximum ozone concentrations in the northern US. *Atmospheric Chemistry and Physics*, **2019**, 19, 12587-12605 | 6.8 | 2 |
| 15 | Measurement Challenges of Nitrogen Species in the Atmosphere. *Advances in Chemistry Series*, **1993**, 243-273 | | 2 |
| 14 | Impact of transported background ozone inflow on summertime air quality in a California ozone exceedance area | | 2 |
| 13 | Primary and secondary sources of formaldehyde in urban atmospheres: Houston Texas region | | 2 |
| 12 | Increasing ozone concentrations in marine boundary layer air inflow at the west coasts of North America and Europe | | 2 |
| 11 | Seasonal cycles in baseline mixing ratios of a large number of trace gases at the Mace Head, Ireland atmospheric research station. *Atmospheric Environment*, **2020**, 233, 117531 | 5.3 | 2 |
| 10 | Intercomparison of the representations of the atmospheric chemistry of pre-industrial methane and ozone in earth system and other global chemistry-transport models. *Atmospheric Environment*, **2021**, 248, 118248 | 5.3 | 2 |

| | | | |
|---|---|---|---|
| 9 | Investigations on the anthropogenic reversal of the natural ozone gradient between northern and southern midlatitudes. *Atmospheric Chemistry and Physics*, **2021**, 21, 9669-9679 | 6.8 | 2 |
| 8 | Regional photochemical measurement and modeling studies conference San Diego, California 8□12 November 1993. *Atmospheric Environment*, **1995**, 29, 2885-2886 | 5.3 | 1 |
| 7 | Long-term Baseline Ozone Changes in the Western US: A Synthesis of Analyses | | 1 |
| 6 | The formation and mitigation of nitrate pollution: comparison between urban and suburban environments. *Atmospheric Chemistry and Physics*, **2022**, 22, 4539-4556 | 6.8 | 1 |
| 5 | Long-term baseline ozone changes in the Western US: A synthesis of analyses. *Journal of the Air and Waste Management Association*, **2021**, 71, 1397-1406 | 2.4 | 0 |
| 4 | Changes in anthropogenic precursor emissions drive shifts in the ozone seasonal cycle throughout the northern midlatitude troposphere. *Atmospheric Chemistry and Physics*, **2022**, 22, 3507-3524 | 6.8 | 0 |
| 3 | Determination of emissions from observations of atmospheric compounds. *Advances in Global Change Research*, **2004**, 427-476 | 1.2 | |
| 2 | Photochemical Oxidants at Niwot Ridge, Colorado **1985**, 759-764 | | |
| 1 | Background Ozone and Anthropogenic Ozone Enhancement at Niwot Ridge, Colorado **1986**, 261-278 | | |