Carsten Warneke

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15,660 118 69 224 h-index g-index citations papers 18,057 234 7.4 5.99 L-index avg, IF ext. citations ext. papers

| # | Paper | IF | Citations |
|-----|--|------|-----------|
| 224 | Measurements of volatile organic compounds in the earth@atmosphere using proton-transfer-reaction mass spectrometry. <i>Mass Spectrometry Reviews</i> , 2007 , 26, 223-57 | 11 | 881 |
| 223 | Global air pollution crossroads over the Mediterranean. <i>Science</i> , 2002 , 298, 794-9 | 33.3 | 771 |
| 222 | Budget of organic carbon in a polluted atmosphere: Results from the New England Air Quality Study in 2002. <i>Journal of Geophysical Research</i> , 2005 , 110, | | 590 |
| 221 | Measurement of the mixing state, mass, and optical size of individual black carbon particles in urban and biomass burning emissions. <i>Geophysical Research Letters</i> , 2008 , 35, | 4.9 | 334 |
| 220 | Biomass burning as a source of formaldehyde, acetaldehyde, methanol, acetone, acetonitrile, and hydrogen cyanide. <i>Geophysical Research Letters</i> , 1999 , 26, 1161-1164 | 4.9 | 264 |
| 219 | Sensitivity and specificity of atmospheric trace gas detection by proton-transfer-reaction mass spectrometry. <i>International Journal of Mass Spectrometry</i> , 2003 , 223-224, 365-382 | 1.9 | 250 |
| 218 | Biomass burning in Siberia and Kazakhstan as an important source for haze over the Alaskan Arctic in April 2008. <i>Geophysical Research Letters</i> , 2009 , 36, n/a-n/a | 4.9 | 249 |
| 217 | Global atmospheric budget of acetaldehyde: 3-D model analysis and constraints from in-situ and satellite observations. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 3405-3425 | 6.8 | 234 |
| 216 | Global budget of methanol: Constraints from atmospheric observations. <i>Journal of Geophysical Research</i> , 2005 , 110, | | 230 |
| 215 | Importance of secondary sources in the atmospheric budgets of formic and acetic acids. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 1989-2013 | 6.8 | 226 |
| 214 | Chemical data quantify Deepwater Horizon hydrocarbon flow rate and environmental distribution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 20246-53 | 11.5 | 224 |
| 213 | Determination of urban volatile organic compound emission ratios and comparison with an emissions database. <i>Journal of Geophysical Research</i> , 2007 , 112, | | 218 |
| 212 | Characteristics, sources, and transport of aerosols measured in spring 2008 during the aerosol, radiation, and cloud processes affecting Arctic Climate (ARCPAC) Project. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 2423-2453 | 6.8 | 217 |
| 211 | Validation of atmospheric VOC measurements by proton-transfer-reaction mass spectrometry using a gas-chromatographic preseparation method. <i>Environmental Science & Environmental Science & Environmen</i> | 10.3 | 217 |
| 210 | Acetone, methanol, and other partially oxidized volatile organic emissions from dead plant matter by abiological processes: Significance for atmospheric HOx chemistry. <i>Global Biogeochemical Cycles</i> , 1999 , 13, 9-17 | 5.9 | 205 |
| 209 | Coupling field and laboratory measurements to estimate the emission factors of identified and unidentified trace gases for prescribed fires. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 89-116 | 6.8 | 203 |
| 208 | Organic aerosol formation in urban and industrial plumes near Houston and Dallas, Texas. <i>Journal of Geophysical Research</i> , 2009 , 114, | | 196 |

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| 207 | Validation of proton transfer reaction-mass spectrometry (PTR-MS) measurements of gas-phase organic compounds in the atmosphere during the New England Air Quality Study (NEAQS) in 2002. <i>Journal of Geophysical Research</i> , 2003 , 108, | | 187 |
|-----|--|------------------|-----|
| 206 | High winter ozone pollution from carbonyl photolysis in an oil and gas basin. <i>Nature</i> , 2014 , 514, 351-4 | 50.4 | 181 |
| 205 | Laboratory measurements of trace gas emissions from biomass burning of fuel types from the southeastern and southwestern United States. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 11115-1111 | 36 ^{.8} | 173 |
| 204 | Proton-Transfer-Reaction Mass Spectrometry: Applications in Atmospheric Sciences. <i>Chemical Reviews</i> , 2017 , 117, 13187-13229 | 68.1 | 172 |
| 203 | Emission ratios of anthropogenic volatile organic compounds in northern mid-latitude megacities: Observations versus emission inventories in Los Angeles and Paris. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 2041-2057 | 4.4 | 165 |
| 202 | Gasoline emissions dominate over diesel in formation of secondary organic aerosol mass. <i>Geophysical Research Letters</i> , 2012 , 39, n/a-n/a | 4.9 | 163 |
| 201 | Measurements of benzene and toluene in ambient air using proton-transfer-reaction mass spectrometry: calibration, humidity dependence, and field intercomparison. <i>International Journal of Mass Spectrometry</i> , 2001 , 207, 167-182 | 1.9 | 162 |
| 200 | Development of negative-ion proton-transfer chemical-ionization mass spectrometry (NI-PT-CIMS) for the measurement of gas-phase organic acids in the atmosphere. <i>International Journal of Mass Spectrometry</i> , 2008 , 274, 48-55 | 1.9 | 160 |
| 199 | Multiyear trends in volatile organic compounds in Los Angeles, California: Five decades of decreasing emissions. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a | | 158 |
| 198 | Sources of particulate matter in the northeastern United States in summer: 1. Direct emissions and secondary formation of organic matter in urban plumes. <i>Journal of Geophysical Research</i> , 2008 , 113, | | 158 |
| 197 | An important contribution to springtime Arctic aerosol from biomass burning in Russia. <i>Geophysical Research Letters</i> , 2010 , 37, n/a-n/a | 4.9 | 155 |
| 196 | Emission sources and ocean uptake of acetonitrile (CH3CN) in the atmosphere. <i>Journal of Geophysical Research</i> , 2003 , 108, | | 153 |
| 195 | Volatile organic compounds composition of merged and aged forest fire plumes from Alaska and western Canada. <i>Journal of Geophysical Research</i> , 2006 , 111, n/a-n/a | | 149 |
| 194 | Non-methane organic gas emissions from biomass burning: identification, quantification, and emission factors from PTR-ToF during the FIREX 2016 laboratory experiment. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 3299-3319 | 6.8 | 141 |
| 193 | A large and ubiquitous source of atmospheric formic acid. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 6283-6304 | 6.8 | 141 |
| 192 | Organic aerosol formation downwind from the Deepwater Horizon oil spill. <i>Science</i> , 2011 , 331, 1295-9 | 33.3 | 138 |
| 191 | Measurements of gas-phase inorganic and organic acids from biomass fires by negative-ion proton-transfer chemical-ionization mass spectrometry. <i>Journal of Geophysical Research</i> , 2010 , 115, | | 138 |
| 190 | New constraints on terrestrial and oceanic sources of atmospheric methanol. <i>Atmospheric Chemistry and Physics</i> , 2008 , 8, 6887-6905 | 6.8 | 136 |

| 189 | Isocyanic acid in the atmosphere and its possible link to smoke-related health effects. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 8966-71 | 11.5 | 133 |
|-----|--|---------------------|-----|
| 188 | Quantifying atmospheric methane emissions from the Haynesville, Fayetteville, and northeastern Marcellus shale gas production regions. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015 , 120, 211 | 9 ⁴ 2439 | 132 |
| 187 | Measurement of HONO, HNCO, and other inorganic acids by negative-ion proton-transfer chemical-ionization mass spectrometry (NI-PT-CIMS): application to biomass burning emissions. <i>Atmospheric Measurement Techniques</i> , 2010 , 3, 981-990 | 4 | 131 |
| 186 | Evaluating simulated primary anthropogenic and biomass burning organic aerosols during MILAGRO: implications for assessing treatments of secondary organic aerosols. <i>Atmospheric Chemistry and Physics</i> , 2009 , 9, 6191-6215 | 6.8 | 124 |
| 185 | An Atmospheric Chemistry Interpretation of Mass Scans Obtained from a Proton Transfer Mass Spectrometer Flown over the Tropical Rainforest of Surinam. <i>Journal of Atmospheric Chemistry</i> , 2001 , 38, 133-166 | 3.2 | 124 |
| 184 | Comparison of daytime and nighttime oxidation of biogenic and anthropogenic VOCs along the New England coast in summer during New England Air Quality Study 2002. <i>Journal of Geophysical Research</i> , 2004 , 109, | | 122 |
| 183 | Biomass burning emissions and potential air quality impacts of volatile organic compounds and other trace gases from fuels common in the US. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 13915-139 | 38 ⁸ | 121 |
| 182 | Understanding high wintertime ozone pollution events in an oil- and natural gas-producing region of the western US. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 411-429 | 6.8 | 119 |
| 181 | Nocturnal isoprene oxidation over the Northeast United States in summer and its impact on reactive nitrogen partitioning and secondary organic aerosol. <i>Atmospheric Chemistry and Physics</i> , 2009 , 9, 3027-3042 | 6.8 | 114 |
| 180 | Chemical evolution of volatile organic compounds in the outflow of the Mexico City Metropolitan area. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 2353-2375 | 6.8 | 112 |
| 179 | Biomass-burning particle measurements: Characteristic composition and chemical processing. Journal of Geophysical Research, 2004 , 109, | | 110 |
| 178 | VOC identification and inter-comparison from laboratory biomass burning using PTR-MS and PIT-MS. <i>International Journal of Mass Spectrometry</i> , 2011 , 303, 6-14 | 1.9 | 105 |
| 177 | Isoprene and Its Oxidation Products Methyl Vinyl Ketone, Methacrolein, and Isoprene Related Peroxides Measured Online over the Tropical Rain Forest of Surinam in March 1998. <i>Journal of Atmospheric Chemistry</i> , 2001 , 38, 167-185 | 3.2 | 99 |
| 176 | Real-time measurements of secondary organic aerosol formation and aging from ambient air in an oxidation flow reactor in the Los Angeles area. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 7411-7433 | 6.8 | 97 |
| 175 | Emission and chemistry of organic carbon in the gas and aerosol phase at a sub-urban site near Mexico City in March 2006 during the MILAGRO study. <i>Atmospheric Chemistry and Physics</i> , 2009 , 9, 3425 | -3442 | 97 |
| 174 | Ozone variability and halogen oxidation within the Arctic and sub-Arctic springtime boundary layer. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 10223-10236 | 6.8 | 94 |
| 173 | Measurements of volatile organic compounds at a suburban ground site (T1) in Mexico City during the MILAGRO 2006 campaign: measurement comparison, emission ratios, and source attribution. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 2399-2421 | 6.8 | 92 |
| 172 | Formaldehyde production from isoprene oxidation across NO regimes. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 2597-2610 | 6.8 | 88 |

| Airborne and ground-based observations of a weekend effect in ozone, precursors, and oxidation products in the California South Coast Air Basin. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a | | 84 | |
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| Ozone photochemistry in an oil and natural gas extraction region during winter: simulations of a snow-free season in the Uintah Basin, Utah. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 8955-8971 | 6.8 | 84 | |
| Biogenic emission measurement and inventories determination of biogenic emissions in the eastern United States and Texas and comparison with biogenic emission inventories. <i>Journal of Geophysical Research</i> , 2010 , 115, | | 83 | |
| Evidence of rapid production of organic acids in an urban air mass. <i>Geophysical Research Letters</i> , 2011 , 38, n/a-n/a | 4.9 | 81 | |
| Total observed organic carbon (TOOC) in the atmosphere: a synthesis of North American observations. <i>Atmospheric Chemistry and Physics</i> , 2008 , 8, 2007-2025 | 6.8 | 81 | |
| Disjunct eddy covariance technique for trace gas flux measurements. <i>Geophysical Research Letters</i> , 2001 , 28, 3139-3142 | 4.9 | 79 | |
| Chemical composition of air masses transported from Asia to the U.S. West Coast during ITCT 2K2: Fossil fuel combustion versus biomass-burning signatures. <i>Journal of Geophysical Research</i> , 2004 , 109, | | 76 | |
| Evaluation of a New Reagent-Ion Source and Focusing Ion-Molecule Reactor for Use in Proton-Transfer-Reaction Mass Spectrometry. <i>Analytical Chemistry</i> , 2018 , 90, 12011-12018 | 7.8 | 76 | |
| Biomass burning and anthropogenic sources of CO over New England in the summer 2004. <i>Journal of Geophysical Research</i> , 2006 , 111, | | 75 | |
| Development of proton-transfer ion trap-mass spectrometry: on-line detection and identification of volatile organic compounds in air. <i>Journal of the American Society for Mass Spectrometry</i> , 2005 , 16, 1316-1324 | 3.5 | 75 | |
| Deep convective injection of boundary layer air into the lowermost stratosphere at midlatitudes. <i>Atmospheric Chemistry and Physics</i> , 2003 , 3, 739-745 | 6.8 | 72 | |
| Aerosol optical properties and trace gas emissions by PAX and OP-FTIR for laboratory-simulated western US wildfires during FIREX. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 2929-2948 | 6.8 | 71 | |
| Volatile organic compound emissions from the oil and natural gas industry in the Uintah Basin, Utah: oil and gas well pad emissions compared to ambient air composition. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 10977-10988 | 6.8 | 71 | |
| Gas-phase chemical characteristics of Asian emission plumes observed during ITCT 2K2 over the eastern North Pacific Ocean. <i>Journal of Geophysical Research</i> , 2004 , 109, | | 71 | |
| Evaluations of NO_x and highly reactive VOC emission inventories in Texas and their implications for ozone plume simulations during the Texas Air Quality Study 2006. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 11361-11386 | 6.8 | 70 | |
| Airborne formaldehyde measurements using PTR-MS: calibration, humidity dependence, inter-comparison and initial results. <i>Atmospheric Measurement Techniques</i> , 2011 , 4, 2345-2358 | 4 | 70 | |
| The impact of monsoon outflow from India and Southeast Asia in the upper troposphere over the eastern Mediterranean. <i>Atmospheric Chemistry and Physics</i> , 2003 , 3, 1589-1608 | 6.8 | 67 | |
| High- and low-temperature pyrolysis profiles describe volatile organic compound emissions from western US wildfire fuels. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 9263-9281 | 6.8 | 67 | |
| | 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 Biogenic emission measurement and inventories determination of biogenic emissions in the eastern United States and Texas and comparison with biogenic emission inventories. Journal of Geophysical Research, 2010, 115, Evidence of rapid production of organic acids in an urban air mass. Geophysical Research Letters, 2011, 38, n/a-n/a Total observed organic carbon (TOOC) in the atmosphere: a synthesis of North American observations. Atmospheric Chemistry and Physics, 2008, 8, 2007-2025 Disjunct eddy covariance technique for trace gas flux measurements. Geophysical Research Letters, 2011, 28, 3139-3142 Chemical composition of air masses transported from Asia to the U.S. West Coast during ITCT 2K2: Fossif fuel combustion versus biomass-burning signatures. Journal of Geophysical Research, 2004, 109, Evaluation of a New Reagent-Ion Source and Focusing Ion-Molecule Reactor for Use in Proton-Transfer-Reaction Mass Spectrometry. Analytical Chemistry, 2018, 90, 12011-12018 Biomass burning and anthropogenic sources of CO over New England in the summer 2004. Journal of Geophysical Research, 2006, 111, Development of proton-transfer ion trap-mass spectrometry: on-line detection and identification of volatile organic compounds in air. Journal of the American Society for Mass Spectrometry, 2005, 16, 1316-1324 Deep convective injection of boundary layer air into the lowermost stratosphere at midlatitudes. Atmospheric Chemistry and Physics, 2003, 3, 739-745 Aerosol optical properties and trace gas emissions by PAX and OP-FTIR for laboratory-simulated western US wildfires during FIREX. Atmospheric Chemistry and Physics, 2018, 18, 2929-2948 Volatile organic compound emissions from the oil and natural gas industry in the Uintah Basin, Utah: oil ang as well pade emissions compared to ambient air composition. Atmospheric Chemistry a | Droducts in the California South Coast Air Basin. Journal of Geophysical Research, 2012, 117, n/a-n/a 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 Biogenic emission measurement and inventories determination of biogenic emissions in the eastern United States and Texas and comparison with biogenic emission inventories. Journal of Geophysical Research, 2010, 115, Evidence of rapid production of organic acids in an urban air mass. Geophysical Research Letters, 2011, 38, n/a-n/a Total observed organic carbon (TOOC) in the atmosphere: a synthesis of North American observations. 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Atmospheric Chemistry and Physics, 2003, 3, 739-745 Aerosol optical properties and trace gas emissions by PAX and OP-FTIR for laboratory-simulated western US wildfires during FIREX. Atmospheric Chemistry and Physics, 2014, 14, 10977-1098 Gas-phase chemical characteristics of Asian emission plumes observed during ITCT 2K2 ove | Products in the California South Coast Air Basin. Journal of Geophysical Research, 2012, 117, n/a-n/a Ozone photochemistry in an oil and natural gas extraction region during winter; simulations of a snow-free season in the Unitah Basin, Utah. Atmospheric Chemistry and Physics, 2013, 13, 895-8971 Biogenic emission measurement and inventories determination of biogenic emissions in the Unitah Basin, Utah. Atmospheric Chemistry and Physics, 2010, 13, 895-8971 Biogenic emission measurement and inventories determination of biogenic emissions in the Geophysical Research Z010, 115, Evidence of rapid production of organic acids in an urban air mass. Geophysical Research Letters, 2011, 138, n/a-n/a Total observed organic carbon (TOOC) in the atmosphere: a synthesis of North American observations. Atmospheric Chemistry and Physics, 2008, 8, 2007-2025 Disjunct eddy covariance technique for trace gas flux measurements. Geophysical Research Letters, 2001, 28, 3139-3142 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, Evaluation of a New Reagent-ion Source and Focusing ion-Molecule Reactor for Use in Proton-Transfer-Reaction Mass Spectrometry. Analytical Chemistry, 2018, 90, 12011-12018 Biomass burning and anthropogenic sources of CO over New England in the summer 2004. Journal of Geophysical Research, 2006, 111, Development of proton-transfer ion trap-mass spectrometry. on-line detection and identification of volatile organic compounds in air. Journal of the American Society for Mass Spectrometry, 2005, 16, 1316-1324 Deep convective injection of boundary layer air into the lowermost stratosphere at midlatitudes. Atmospheric Chemistry and Physics, 2003, 3, 739-745 Aerosol optical properties and trace gas emissions by PAX and OP-FTIR for laboratory-simulated western US wildfires during FIREX. Atmospheric Chemistry and Physics, 2014, 14, 10971-1098 Gas-phase chemical |

| 153 | A measurement of total reactive nitrogen, NOy, together with NOINO, and Olvia cavity ring-down spectroscopy. <i>Environmental Science & Environmental Sc</i> | 10.3 | 66 |
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| 152 | Improved detection limit of the proton-transfer reaction mass spectrometer: on-line monitoring of volatile organic compounds at mixing ratios of a few pptv. <i>Rapid Communications in Mass Spectrometry</i> , 1998 , 12, 871-875 | 2.2 | 64 |
| 151 | Proton transfer reaction mass spectrometry (PTR-MS): propanol in human breath. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1996 , 154, 61-70 | | 64 |
| 150 | Contribution of human-related sources to indoor volatile organic compounds in a university classroom. <i>Indoor Air</i> , 2016 , 26, 925-938 | 5.4 | 63 |
| 149 | PTR-MS real time monitoring of the emission of volatile organic compounds during postharvest aging of berryfruit. <i>Postharvest Biology and Technology</i> , 1999 , 17, 143-151 | 6.2 | 62 |
| 148 | Absorbing aerosol in the troposphere of the Western Arctic during the 2008 ARCTAS/ARCPAC airborne field campaigns. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 7561-7582 | 6.8 | 60 |
| 147 | Air quality implications of the Deepwater Horizon oil spill. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 20280-5 | 11.5 | 59 |
| 146 | An evaluation of real-time air quality forecasts and their urban emissions over eastern Texas during the summer of 2006 Second Texas Air Quality Study field study. <i>Journal of Geophysical Research</i> , 2009 , 114, | | 59 |
| 145 | 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 |
| 144 | A high-resolution time-of-flight chemical ionization mass spectrometer utilizing hydronium ions (H₃O⁺ ToF-CIMS) for measurements of volatile organic compounds in the atmosphere. <i>Atmospheric Measurement Techniques</i> , 2016 , 9, 2735-2752 | 4 | 58 |
| 143 | Secondary formation of nitrated phenols: insights from observations during the Uintah Basin Winter Ozone Study (UBWOS) 2014. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 2139-2153 | 6.8 | 54 |
| 142 | Calculation of the sensitivity of proton-transfer-reaction mass spectrometry (PTR-MS) for organic trace gases using molecular properties. <i>International Journal of Mass Spectrometry</i> , 2017 , 421, 71-94 | 1.9 | 53 |
| 141 | The primary and recycling sources of OH during the NACHTT-2011 campaign: HONO as an important OH primary source in the wintertime. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 6886-6896 | 4.4 | 53 |
| 140 | Development and validation of a portable gas phase standard generation and calibration system for volatile organic compounds. <i>Atmospheric Measurement Techniques</i> , 2010 , 3, 683-691 | 4 | 53 |
| 139 | and Chemical Transformation 2004: performance, intercomparison, and compound identification. | 10.3 | 53 |
| 138 | Environmental Science & Description of the POLARCAT Model Intercomparison Project (POLMIP): overview and evaluation with observations. Atmospheric Chemistry and Physics, 2015, 15, 6721-6744 | 6.8 | 52 |
| 137 | Proton-transfer-reaction mass spectrometry (PTR-MS): on-line monitoring of volatile organic compounds at volume mixing ratios of a few pptv. <i>Plasma Sources Science and Technology</i> , 1999 , 8, 332-3 | 338 | 51 |
| 136 | Emissions of nitrogen-containing organic compounds from the burning of herbaceous and arboraceous biomass: Fuel composition dependence and the variability of commonly used nitrile tracers. <i>Geophysical Research Letters</i> , 2016 , 43, 9903-9912 | 4.9 | 51 |

| 135 | Synthesis of the Southeast Atmosphere Studies: Investigating Fundamental Atmospheric Chemistry Questions. <i>Bulletin of the American Meteorological Society</i> , 2018 , 99, 547-567 | 6.1 | 50 |
|-----|--|------|----|
| 134 | Airborne measurements of ethene from industrial sources using laser photo-acoustic spectroscopy. <i>Environmental Science & Environmental Science & Envi</i> | 10.3 | 50 |
| 133 | Instrumentation and Measurement Strategy for the NOAA SENEX Aircraft Campaign as Part of the Southeast Atmosphere Study 2013. <i>Atmospheric Measurement Techniques</i> , 2016 , 9, 3063-3093 | 4 | 50 |
| 132 | Senescing grass crops as regional sources of reactive volatile organic compounds. <i>Journal of Geophysical Research</i> , 2005 , 110, | | 48 |
| 131 | Formaldehyde over the eastern Mediterranean during MINOS: Comparison of airborne in-situ measurements with 3D-model results. <i>Atmospheric Chemistry and Physics</i> , 2003 , 3, 851-861 | 6.8 | 48 |
| 130 | Emissions of organic carbon and methane from petroleum and dairy operations in California@San Joaquin Valley. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 4955-4978 | 6.8 | 47 |
| 129 | Methyl chavicol: characterization of its biogenic emission rate, abundance, and oxidation products in the atmosphere. <i>Atmospheric Chemistry and Physics</i> , 2009 , 9, 2061-2074 | 6.8 | 47 |
| 128 | Fine aerosol bulk composition measured on WP-3D research aircraft in vicinity of the Northeastern United States Iresults from NEAQS. <i>Atmospheric Chemistry and Physics</i> , 2007 , 7, 3231-3247 | 6.8 | 47 |
| 127 | In situ vertical profiles of aerosol extinction, mass, and composition over the southeast United States during SENEX and SEAC⁴RS: observations of a modest aerosol enhancement aloft. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 7085-7102 | 6.8 | 46 |
| 126 | An Odd Oxygen Framework for Wintertime Ammonium Nitrate Aerosol Pollution in Urban Areas: NOx and VOC Control as Mitigation Strategies. <i>Geophysical Research Letters</i> , 2019 , 46, 4971-4979 | 4.9 | 45 |
| 125 | Investigation of secondary formation of formic acid: urban environment vs. oil and gas producing region. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 1975-1993 | 6.8 | 45 |
| 124 | OH chemistry of non-methane organic gases (NMOGs) emitted from laboratory and ambient biomass burning smoke: evaluating the influence of furans and oxygenated aromatics on ozone and secondary NMOG formation. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 14875-14899 | 6.8 | 45 |
| 123 | Biogenic VOC oxidation and organic aerosol formation in an urban nocturnal boundary layer: aircraft vertical profiles in Houston, TX. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 11317-11337 | 6.8 | 44 |
| 122 | Secondary organic aerosol formation from the laboratory oxidation of biomass burning emissions. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 12797-12809 | 6.8 | 43 |
| 121 | Evolution of aerosol properties impacting visibility and direct climate forcing in an ammonia-rich urban environment. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a | | 43 |
| 120 | Anthropogenic enhancements to production of highly oxygenated molecules from autoxidation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 6641-6646 | 11.5 | 42 |
| 119 | Reassessing the ratio of glyoxal to formaldehyde as an indicator of hydrocarbon precursor speciation. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 7571-7583 | 6.8 | 42 |
| 118 | Measurements of PANs during the New England Air Quality Study 2002. <i>Journal of Geophysical Research</i> , 2007 , 112, | | 42 |

| 117 | Chemical characteristics assigned to trajectory clusters during the MINOS campaign. <i>Atmospheric Chemistry and Physics</i> , 2003 , 3, 459-468 | 6.8 | 42 |
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| 116 | Sources of particulate matter in the northeastern United States in summer: 2. Evolution of chemical and microphysical properties. <i>Journal of Geophysical Research</i> , 2008 , 113, | | 41 |
| 115 | High Acetone Concentrations throughout the 0½2 km Altitude Range over the Tropical Rainforest in Surinam. <i>Journal of Atmospheric Chemistry</i> , 2001 , 38, 115-132 | 3.2 | 41 |
| 114 | Quantifying Methane and Ethane Emissions to the Atmosphere From Central and Western U.S. Oil and Natural Gas Production Regions. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018 , 123, 7725 | 4.4 | 39 |
| 113 | Transition from high- to low-NOx control of night-time oxidation in the southeastern US. <i>Nature Geoscience</i> , 2017 , 10, 490-495 | 18.3 | 39 |
| 112 | Photochemical aging of volatile organic compounds in the Los Angeles basin: Weekday-weekend effect. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 5018-5028 | 4.4 | 39 |
| 111 | Characterization of NOx, SO2, ethene, and propene from industrial emission sources in Houston, Texas. <i>Journal of Geophysical Research</i> , 2010 , 115, | | 39 |
| 110 | Diurnal Variability and Emission Pattern of Decamethylcyclopentasiloxane (D) from the Application of Personal Care Products in Two North American Cities. <i>Environmental Science & Company</i> , 2018, 52, 5610-5618 | 10.3 | 38 |
| 109 | Enhanced formation of isoprene-derived organic aerosol in sulfur-rich power plant plumes during Southeast Nexus. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016 , 121, 11,137-11,153 | 4.4 | 38 |
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