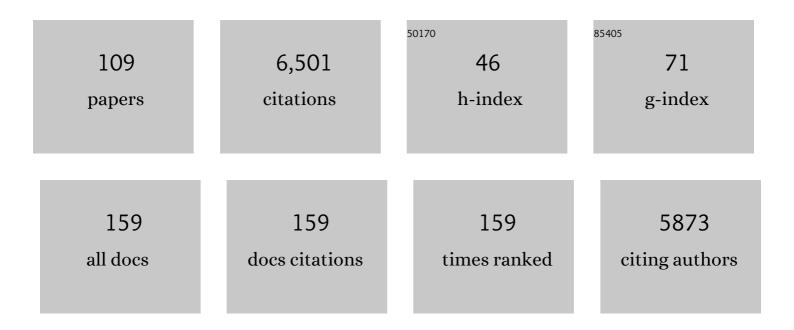
List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/5123253/publications.pdf Version: 2024-02-01



| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Characteristics, sources, and transport of aerosols measured in spring 2008 during the aerosol, radiation, and cloud processes affecting Arctic Climate (ARCPAC) Project. Atmospheric Chemistry and Physics, 2011, 11, 2423-2453. | 1.9 | 259 |
| 2 | Infrared spectroscopy of model tropospheric aerosols as a function of relative humidity: Observation of deliquescence and crystallization. Journal of Geophysical Research, 1997, 102, 18843-18850. | 3.3 | 200 |
| 3 | Ozone production in transpacific Asian pollution plumes and implications for ozone air quality in California. Journal of Geophysical Research, 2004, 109, . | 3.3 | 197 |
| 4 | A criterion for new particle formation in the sulfur-rich Atlanta atmosphere. Journal of Geophysical Research, 2005, 110, . | 3.3 | 187 |
| 5 | Unexpected high levels of NO observed at South Pole. Geophysical Research Letters, 2001, 28, 3625-3628. | 1.5 | 183 |
| 6 | Formation of Low Volatility Organic Compounds and Secondary Organic Aerosol from Isoprene Hydroxyhydroperoxide Low-NO Oxidation. Environmental Science & Technology, 2015, 49, 10330-10339. | 4.6 | 172 |
| 7 | 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. | 1.2 | 164 |
| 8 | Top-down estimate of surface flux in the Los Angeles Basin using a mesoscale inverse modeling technique: assessing anthropogenic emissions of CO, NO _x and CO ₂ and their impacts. Atmospheric Chemistry and Physics, 2013, 13, 3661-3677. | 1.9 | 142 |
| 9 | The global tropospheric ammonia distribution as seen in the 13-year AIRS measurement record. Atmospheric Chemistry and Physics, 2016, 16, 5467-5479. | 1.9 | 127 |
| 10 | Rapid growth of organic aerosol nanoparticles over a wide tropospheric temperature range. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 9122-9127. | 3.3 | 118 |
| 11 | A new interpretation of total column BrO during Arctic spring. Geophysical Research Letters, 2010, 37, | 1.5 | 116 |
| 12 | Ammonia sources in the California South Coast Air Basin and their impact on ammonium nitrate formation. Geophysical Research Letters, 2012, 39, . | 1.5 | 110 |
| 13 | 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. | 1.5 | 107 |
| 14 | A chemical ionization mass spectrometry technique for airborne measurements of ammonia. Journal of Geophysical Research, 2007, 112, . | 3.3 | 106 |
| 15 | A comparison of Arctic BrO measurements by chemical ionization mass spectrometry and long path-differential optical absorption spectroscopy. Journal of Geophysical Research, 2011, 116, . | 3.3 | 105 |
| 16 | High levels of molecular chlorine in the Arctic atmosphere. Nature Geoscience, 2014, 7, 91-94. | 5.4 | 105 |
| 17 | An investigation of the chemistry of ship emission plumes during ITCT 2002. Journal of Geophysical Research, 2005, 110, . | 3.3 | 103 |
| 18 | Measurements of OH, H2SO4, and MSA at the South Pole during ISCAT. Geophysical Research Letters, 2001, 28, 3629-3632. | 1.5 | 101 |

| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Bromine measurements in ozone depleted air over the Arctic Ocean. Atmospheric Chemistry and Physics, 2010, 10, 6503-6514. | 1.9 | 101 |
| 20 | Airborne and groundâ€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, . | 3.3 | 97 |
| 21 | CIMS measurements of HNO3 and SO2 at the South Pole during ISCAT 2000. Atmospheric Environment, 2004, 38, 5411-5421. | 1.9 | 96 |
| 22 | Analysis of ozone and nitric acid in spring and summer Arctic pollution using aircraft, ground-based, satellite observations and MOZART-4 model: source attribution and partitioning. Atmospheric Chemistry and Physics, 2012, 12, 237-259. | 1.9 | 96 |
| 23 | Analysis of urban gas phase ammonia measurements from the 2002 Atlanta Aerosol Nucleation and Real-Time Characterization Experiment (ANARChE). Journal of Geophysical Research, 2006, 111, . | 3.3 | 95 |
| 24 | Chemical evolution of atmospheric organic carbon over multiple generations of oxidation. Nature Chemistry, 2018, 10, 462-468. | 6.6 | 92 |
| 25 | Cleaner burning aviation fuels can reduce contrail cloudiness. Communications Earth & Environment, 2021, 2, . | 2.6 | 92 |
| 26 | Airborne observations of ammonia and ammonium nitrate formation over Houston, Texas. Journal of Geophysical Research, 2010, 115, . | 3.3 | 91 |
| 27 | Towards validation of ammonia (NH ₃) measurements from the IASI satellite. Atmospheric Measurement Techniques, 2015, 8, 1575-1591. | 1.2 | 90 |
| 28 | 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, | 3.3 | 89 |
| 29 | Particle characteristics following cloud-modified transport from Asia to North America. Journal of Geophysical Research, 2004, 109, . | 3.3 | 86 |
| 30 | Variability in ammonium nitrate formation and nitric acid depletion with altitude and location over California. Journal of Geophysical Research, 2003, 108, . | 3.3 | 84 |
| 31 | Reactive nitrogen transport and photochemistry in urban plumes over the North Atlantic Ocean. Journal of Geophysical Research, 2006, 111, . | 3.3 | 83 |
| 32 | Gas-phase chemical characteristics of Asian emission plumes observed during ITCT 2K2 over the eastern North Pacific Ocean. Journal of Geophysical Research, 2004, 109, . | 3.3 | 80 |
| 33 | Air quality implications of the <i>Deepwater Horizon</i> oil spill. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 20280-20285. | 3.3 | 79 |
| 34 | Nucleation and growth of sulfate aerosol in coal-fired power plant plumes: sensitivity to background aerosol and meteorology. Atmospheric Chemistry and Physics, 2012, 12, 189-206. | 1.9 | 72 |
| 35 | Observations of inorganic bromine (HOBr, BrO, and Br ₂) speciation at Barrow, Alaska, in spring 2009. Journal of Geophysical Research, 2012, 117, . | 3.3 | 71 |
| 36 | An investigation of ammonia and inorganic particulate matter in California during the CalNex campaign. Journal of Geophysical Research D: Atmospheres, 2014, 119, 1883-1902. | 1.2 | 69 |

| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Measurement of peroxycarboxylic nitric anhydrides (PANs) during the ITCT 2K2 aircraft intensive experiment. Journal of Geophysical Research, 2004, 109, . | 3.3 | 63 |
| 38 | Analysis of satellite-derived Arctic tropospheric BrO columns in conjunction with aircraft measurements during ARCTAS and ARCPAC. Atmospheric Chemistry and Physics, 2012, 12, 1255-1285. | 1.9 | 63 |
| 39 | Modeling regional aerosol and aerosol precursor variability over California and its sensitivity to emissions and long-range transport during the 2010 CalNex and CARES campaigns. Atmospheric Chemistry and Physics, 2014, 14, 10013-10060. | 1.9 | 62 |
| 40 | The POLARCAT Model Intercomparison Project (POLMIP): overview and evaluation with observations. Atmospheric Chemistry and Physics, 2015, 15, 6721-6744. | 1.9 | 62 |
| 41 | An investigation of South Pole HOxchemistry: Comparison of model results with ISCAT observations. Geophysical Research Letters, 2001, 28, 3633-3636. | 1.5 | 61 |
| 42 | Size-dependent influence of NO _x on the growth rates of organic aerosol particles. Science Advances, 2020, 6, eaay4945. | 4.7 | 61 |
| 43 | 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. | 1.2 | 58 |
| 44 | Measurements of pernitric acid at the South Pole during ISCAT 2000. Geophysical Research Letters, 2002, 29, 7-1. | 1.5 | 54 |
| 45 | Evolution of aerosol properties impacting visibility and direct climate forcing in an ammoniaâ€rich urban environment. Journal of Geophysical Research, 2012, 117, . | 3.3 | 54 |
| 46 | On the effectiveness of nitrogen oxide reductions as a control over ammonium nitrate aerosol. Atmospheric Chemistry and Physics, 2016, 16, 2575-2596. | 1.9 | 53 |
| 47 | Fine-scale simulation of ammonium and nitrate over the South Coast Air Basin and San Joaquin Valley of California during CalNex-2010. Journal of Geophysical Research D: Atmospheres, 2014, 119, 3600-3614. | 1.2 | 51 |
| 48 | Modeling the weekly cycle of NO _x and CO emissions and their impacts on O ₃ in the Los Angelesâ€South Coast Air Basin during the CalNex 2010 field campaign. Journal of Geophysical Research D: Atmospheres, 2016, 121, 1340-1360. | 1.2 | 51 |
| 49 | Enhanced formation of isopreneâ€derived organic aerosol in sulfurâ€rich power plant plumes during Southeast Nexus. Journal of Geophysical Research D: Atmospheres, 2016, 121, 11,137. | 1.2 | 50 |
| 50 | Interannual variability of ammonia concentrations over the United States: sources and implications. Atmospheric Chemistry and Physics, 2016, 16, 12305-12328. | 1.9 | 48 |
| 51 | Calibration and Evaluation of Nitric Acid and Ammonia Permeation Tubes by UV Optical Absorption. Environmental Science & Technology, 2003, 37, 2975-2981. | 4.6 | 46 |
| 52 | HONO emission and production determined from airborne measurements over the Southeast U.S Journal of Geophysical Research D: Atmospheres, 2016, 121, 9237-9250. | 1.2 | 46 |
| 53 | Heterogeneous Interactions of HBr and HOCl with Cold Sulfuric Acid Solutions:Â Implications for Arctic Boundary Layer Bromine Chemistry. Journal of Physical Chemistry A, 1997, 101, 2131-2137. | 1.1 | 45 |
| 54 | Observational assessment of the role of nocturnal residual-layer chemistry in determining daytime surface particulate nitrateÂconcentrations. Atmospheric Chemistry and Physics, 2017, 17, 14747-14770. | 1.9 | 45 |

| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 55 | Ozone chemistry in western U.S. wildfire plumes. Science Advances, 2021, 7, eabl3648. | 4.7 | 45 |
| 56 | Characteristics of tropospheric ozone depletion events in the Arctic spring: analysis of the ARCTAS, ARCPAC, and ARCIONS measurements and satellite BrO observations. Atmospheric Chemistry and Physics, 2012, 12, 9909-9922. | 1.9 | 42 |
| 57 | Controlled nitric oxide production via O(¹ D) + N ₂ O reactions for use in oxidation flow reactor studies. Atmospheric Measurement Techniques, 2017, 10, 2283-2298. | 1.2 | 42 |
| 58 | Chemical ionization mass spectrometry technique for detection of dimethylsulfoxide and ammonia. Journal of Geophysical Research, 2002, 107, ACH 10-1. | 3.3 | 40 |
| 59 | Observations of ozone transport from the free troposphere to the Los Angeles basin. Journal of Geophysical Research, 2012, 117, . | 3.3 | 38 |
| 60 | Emissions of Glyoxal and Other Carbonyl Compounds from Agricultural Biomass Burning Plumes Sampled by Aircraft. Environmental Science & amp; Technology, 2017, 51, 11761-11770. | 4.6 | 38 |
| 61 | Measurements of OH aboard the NASA P-3 during PEM-Tropics B. Journal of Geophysical Research, 2001, 106, 32657-32666. | 3.3 | 37 |
| 62 | Using advanced mass spectrometry techniques to fully characterize atmospheric organic carbon: current capabilities and remaining gaps. Faraday Discussions, 2017, 200, 579-598. | 1.6 | 37 |
| 63 | Relationship between photochemical ozone production and NO _x oxidation in Houston, Texas. Journal of Geophysical Research, 2009, 114, . | 3.3 | 36 |
| 64 | Airborne observations of DMSO, DMS, and OH at marine tropical latitudes. Geophysical Research Letters, 2001, 28, 2201-2204. | 1.5 | 34 |
| 65 | Observation and modeling of the evolution of Texas power plant plumes. Atmospheric Chemistry and Physics, 2012, 12, 455-468. | 1.9 | 34 |
| 66 | WRF-Chem simulation of NOx and O3 in the L.A. basin during CalNex-2010. Atmospheric Environment, 2013, 81, 421-432. | 1.9 | 34 |
| 67 | Evaluating ammonia (NH3) predictions in the NOAA National Air Quality Forecast Capability (NAQFC) using in-situ aircraft and satellite measurements from the CalNex2010 campaign. Atmospheric Environment, 2017, 163, 65-76. | 1.9 | 34 |
| 68 | Nighttime and daytime dark oxidation chemistry in wildfire plumes: an observation and model analysis of FIREX-AQ aircraft data. Atmospheric Chemistry and Physics, 2021, 21, 16293-16317. | 1.9 | 34 |
| 69 | Chemical transport models often underestimate inorganic aerosol acidity in remote regions of the atmosphere. Communications Earth & Environment, 2021, 2, . | 2.6 | 32 |
| 70 | Validation of TES ammonia observations at the single pixel scale in the San Joaquin Valley during DISCOVERâ€AQ. Journal of Geophysical Research D: Atmospheres, 2015, 120, 5140-5154. | 1.2 | 31 |
| 71 | Using Shortâ€Term CO/CO ₂ Ratios to Assess Air Mass Differences Over the Korean Peninsula During KORUSâ€AQ. Journal of Geophysical Research D: Atmospheres, 2019, 124, 10951-10972. | 1.2 | 31 |
| 72 | Ammonia and methane dairy emission plumes in the San Joaquin Valley of California from individual feedlot to regional scales. Journal of Geophysical Research D: Atmospheres, 2015, 120, 9718-9738. | 1.2 | 30 |

5

| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 73 | Decadal changes in summertime reactive oxidized nitrogen and surface ozone over the Southeast United States. Atmospheric Chemistry and Physics, 2018, 18, 2341-2361. | 1.9 | 30 |
| 74 | High Temporal Resolution Satellite Observations of Fire Radiative Power Reveal Link Between Fire Behavior and Aerosol and Gas Emissions. Geophysical Research Letters, 2020, 47, e2020GL090707. | 1.5 | 30 |
| 75 | The NASA Carbon Airborne Flux Experiment (CARAFE): instrumentation and methodology. Atmospheric Measurement Techniques, 2018, 11, 1757-1776. | 1.2 | 29 |
| 76 | Validation of IASI Satellite Ammonia Observations at the Pixel Scale Using In Situ Vertical Profiles. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD033475. | 1.2 | 28 |
| 77 | Rapid cloud removal of dimethyl sulfide oxidation products limits SO ₂ and cloud condensation nuclei production in the marine atmosphere. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, . | 3.3 | 28 |
| 78 | Characterization of soluble bromide measurements and a case study of BrO observations during ARCTAS. Atmospheric Chemistry and Physics, 2012, 12, 1327-1338. | 1.9 | 27 |
| 79 | Pollutant transport among California regions. Journal of Geophysical Research D: Atmospheres, 2013, 118, 6750-6763. | 1.2 | 26 |
| 80 | Impacts of the Denver Cyclone on regional air quality and aerosol formation in the Colorado Front Range during FRAPPÉÂ2014. Atmospheric Chemistry and Physics, 2016, 16, 12039-12058. | 1.9 | 24 |
| 81 | Formaldehyde evolution in US wildfire plumes during the Fire Influence on Regional to Global Environments and Air Quality experiment (FIREX-AQ). Atmospheric Chemistry and Physics, 2021, 21, 18319-18331. | 1.9 | 24 |
| 82 | Relationship between OH measurements on two different NASA aircraft during PEM Tropics B. Journal of Geophysical Research, 2001, 106, 32683-32689. | 3.3 | 23 |
| 83 | Multispecies Assessment of Factors Influencing Regional CO ₂ and CH ₄ Enhancements During the Winter 2017 ACTâ€America Campaign. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2019JD031339. | 1.2 | 23 |
| 84 | Characteristics and evolution of brown carbon in western United States wildfires. Atmospheric Chemistry and Physics, 2022, 22, 8009-8036. | 1.9 | 21 |
| 85 | Effects of NO _x control and plume mixing on nighttime chemical processing of plumes from coalâ€fired power plants. Journal of Geophysical Research, 2012, 117, . | 3.3 | 20 |
| 86 | Spatial heterogeneity in CO ₂ , CH ₄ , and energy fluxes: insights from airborne eddy covariance measurements over the Mid-Atlantic region. Environmental Research Letters, 2020, 15, 035008. | 2.2 | 19 |
| 87 | Modeling NH 4 NO 3 Over the San Joaquin Valley During the 2013 DISCOVERâ€AQ Campaign. Journal of Geophysical Research D: Atmospheres, 2018, 123, 4727-4745. | 1.2 | 18 |
| 88 | Evidence of New Particle Formation Within Etna and Stromboli Volcanic Plumes and Its Parameterization From Airborne In Situ Measurements. Journal of Geophysical Research D: Atmospheres, 2019, 124, 5650-5668. | 1.2 | 18 |
| 89 | Aircraft-based observation of meteoric material in lower-stratospheric aerosol particles between 15 and 68° N. Atmospheric Chemistry and Physics, 2021, 21, 989-1013. | 1.9 | 18 |
| 90 | Ozone and alkyl nitrate formation from the Deepwater Horizon oil spill atmospheric emissions. Journal of Geophysical Research, 2012, 117, . | 3.3 | 16 |

| # | Article | IF | CITATIONS |
|-----|--|-----|-----------|
| 91 | Changes in nitrogen oxides emissions in California during 2005–2010 indicated from topâ€down and bottomâ€up emission estimates. Journal of Geophysical Research D: Atmospheres, 2014, 119, 12,928. | 1.2 | 16 |
| 92 | Airborne measurements of the atmospheric emissions from a fuel ethanol refinery. Journal of Geophysical Research D: Atmospheres, 2015, 120, 4385-4397. | 1.2 | 16 |
| 93 | Airborne Measurements of Contrail Ice Properties—Dependence on Temperature and Humidity. Geophysical Research Letters, 2021, 48, e2020GL092166. | 1.5 | 16 |
| 94 | Inorganic and black carbon aerosols in the Los Angeles Basin during CalNex. Journal of Geophysical Research D: Atmospheres, 2013, 118, 1777-1803. | 1.2 | 15 |
| 95 | Atmospheric Carbon and Transport – America (ACTâ€America) Data Sets: Description, Management, and Delivery. Earth and Space Science, 2021, 8, e2020EA001634. | 1.1 | 15 |
| 96 | Airborne Emission Rate Measurements Validate Remote Sensing Observations and Emission Inventories of Western U.S. Wildfires. Environmental Science & Technology, 2022, 56, 7564-7577. | 4.6 | 15 |
| 97 | Modeling the diurnal variability of agricultural ammonia in Bakersfield, California, during the CalNex campaign. Atmospheric Chemistry and Physics, 2017, 17, 2721-2739. | 1.9 | 14 |
| 98 | Aerosol optical extinction during the Front Range Air Pollution and Photochemistry Éxperiment (FRAPPÉ) 2014 summertime field campaign, Colorado, USA. Atmospheric Chemistry and Physics, 2016, 16, 11207-11217. | 1.9 | 12 |
| 99 | Summary of the High Ice Water Content (HIWC) RADAR Flight Campaigns. , 0, , . | | 12 |
| 100 | Novel Analysis to Quantify Plume Crosswind Heterogeneity Applied to Biomass Burning Smoke. Environmental Science & Technology, 2021, 55, 15646-15657. | 4.6 | 11 |
| 101 | Reconciling Assumptions in Bottomâ€Up and Topâ€Down Approaches for Estimating Aerosol Emission Rates From Wildland Fires Using Observations From FIREXâ€AQ. Journal of Geophysical Research D: Atmospheres, 2021, 126, . | 1.2 | 10 |
| 102 | Hydrocarbon Removal in Power Plant Plumes Shows Nitrogen Oxide Dependence of Hydroxyl Radicals. Geophysical Research Letters, 2019, 46, 7752-7760. | 1.5 | 9 |
| 103 | Modeling air quality in the San Joaquin valley of California during the 2013 Discover-AQ field campaign. Atmospheric Environment: X, 2020, 5, 100067. | 0.8 | 9 |
| 104 | Cold Air Outbreaks Promote New Particle Formation Off the U.S. East Coast. Geophysical Research Letters, 2022, 49, . | 1.5 | 9 |
| 105 | Fossil Versus Nonfossil CO Sources in the US: New Airborne Constraints From ACTâ€America and GEM. Geophysical Research Letters, 2021, 48, e2021GL093361. | 1.5 | 8 |
| 106 | Seasonal Variability in Local Carbon Dioxide Biomass Burning Sources Over Central and Eastern US Using Airborne In Situ Enhancement Ratios. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD034525. | 1.2 | 8 |
| 107 | Biomass burning in Siberia as a source of BrO to the Arctic free troposphere. Atmospheric Environment, 2012, 62, 416-423. | 1.9 | 6 |
| 108 | Coupling an online ion conductivity measurement with the particle-into-liquid sampler: Evaluation and modeling using laboratory and field aerosol data. Aerosol Science and Technology, 2020, 54, 1542-1555. | 1.5 | 5 |

| # | Article | IF | CITATIONS |
|-----|---|-----|-----------|
| 109 | Investigation of several proxies to estimate sulfuric acid concentration under volcanic plume conditions. Atmospheric Chemistry and Physics, 2021, 21, 4541-4560. | 1.9 | 3 |