# E L Atlas

## List of Publications by Year in descending order

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|---|---|---|---|
| 301 papers | 21,488 citations | 7561 77 h-index | 16636 123 g-index |
| 380 all docs | 380 docs citations | 380 times ranked | 11387 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | The atmospheric input of trace species to the world ocean. Global Biogeochemical Cycles, 1991, 5, 193-259. | 1.9 | 1,478 |
| 2 | A study of secondary organic aerosol formation in the anthropogenicâ€influenced southeastern United States. Journal of Geophysical Research, 2007, 112, . | 3.3 | 517 |
| 3 | Emissions from biomass burning in the Yucatan. Atmospheric Chemistry and Physics, 2009, 9, 5785-5812. | 1.9 | 433 |
| 4 | Hydrogen Radicals, Nitrogen Radicals, and the Production of O3 in the Upper Troposphere. Science, 1998, 279, 49-53. | 6.0 | 329 |
| 5 | Global Transport of Organic Pollutants: Ambient Concentrations in the Remote Marine Atmosphere. Science, 1981, 211, 163-165. | 6.0 | 318 |
| 6 | Nitrate radicals and biogenic volatile organic compounds: oxidation, mechanisms, and organic aerosol. Atmospheric Chemistry and Physics, 2017, 17, 2103-2162. | 1.9 | 307 |
| 7 | The Detection of Large HNO3-Containing Particles in the Winter Arctic Stratosphere. Science, 2001, 291, 1026-1031. | 6.0 | 279 |
| 8 | Effect of petrochemical industrial emissions of reactive alkenes and NOxon tropospheric ozone formation in Houston, Texas. Journal of Geophysical Research, 2003, 108, . | 3.3 | 263 |
| 9 | Age of stratospheric air unchanged within uncertainties over the pastÂ30â€‰years. Nature Geoscience, 2009, 2, 28-31. | 5.4 | 260 |
| 10 | Observations of Ozone Formation in Power Plant Plumes and Implications for Ozone Control Strategies. Science, 2001, 292, 719-723. | 6.0 | 258 |
| 11 | 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, 20246-20253. | 3.3 | 258 |
| 12 | Distribution and fate of selected oxygenated organic species in the troposphere and lower stratosphere over the Atlantic. Journal of Geophysical Research, 2000, 105, 3795-3805. | 3.3 | 257 |
| 13 | Validation of the Aura Microwave Limb Sounder middle atmosphere water vapor and nitrous oxide measurements. Journal of Geophysical Research, 2007, 112, . | 3.3 | 255 |
| 14 | Determination of urban volatile organic compound emission ratios and comparison with an emissions database. Journal of Geophysical Research, 2007, 112, . | 3.3 | 254 |
| 15 | Phthalate ester plasticizers: a new class of marine pollutant. Science, 1978, 199, 419-421. | 6.0 | 232 |
| 16 | Organic aerosol formation in urban and industrial plumes near Houston and Dallas, Texas. Journal of Geophysical Research, 2009, 114, . | 3.3 | 230 |
| 17 | Early validation analyses of atmospheric profiles from EOS MLS on the aura Satellite. IEEE Transactions on Geoscience and Remote Sensing, 2006, 44, 1106-1121. | 2.7 | 223 |
| 18 | Depletion of lower tropospheric ozone during Arctic spring: The Polar Sunrise Experiment 1988. Journal of Geophysical Research, 1990, 95, 18555-18568. | 3.3 | 213 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Emissions from forest fires near Mexico City. Atmospheric Chemistry and Physics, 2007, 7, 5569-5584. | 1.9 | 205 |
| 20 | Bromine and iodine chemistry in a global chemistry-climate model: description and evaluation of very short-lived oceanic sources. Atmospheric Chemistry and Physics, 2012, 12, 1423-1447. | 1.9 | 193 |
| 21 | Phthalate Ester Plasticizers: A New Class of Marine Pollutant. Science, 1978, 199, 419-421. | 6.0 | 192 |
| 22 | Oxalic acid in clear and cloudy atmospheres: Analysis of data from International Consortium for Atmospheric Research on Transport and Transformation 2004. Journal of Geophysical Research, 2006, 111, . | 3.3 | 187 |
| 23 | Multiyear trends in volatile organic compounds in Los Angeles, California: Five decades of decreasing emissions. Journal of Geophysical Research, 2012, 117, . | 3.3 | 183 |
| 24 | Distributions of brominated organic compounds in the troposphere and lower stratosphere. Journal of Geophysical Research, 1999, 104, 21513-21535. | 3.3 | 179 |
| 25 | Sources of particulate matter in the northeastern United States in summer: 1. Direct emissions and secondary formation of organic matter in urban plumes. Journal of Geophysical Research, 2008, 113, . | 3.3 | 173 |
| 26 | NMHCs and halocarbons in Asian continental outflow during the Transport and Chemical Evolution over the Pacific (TRACE-P) Field Campaign: Comparison With PEM-West B. Journal of Geophysical Research, 2003, 108, . | 3.3 | 171 |
| 27 | Quantifying sources of methane using light alkanes in the Los Angeles basin, California. Journal of Geophysical Research D: Atmospheres, 2013, 118, 4974-4990. | 1.2 | 167 |
| 28 | Volatile organic compounds composition of merged and aged forest fire plumes from Alaska and western Canada. Journal of Geophysical Research, 2006, 111, n/a-n/a. | 3.3 | 165 |
| 29 | NOAA Gulf of Mexico Status and Trends Program: Trace Organic Contaminant Distribution in Sediments and Oysters. Estuaries and Coasts, 1988, 11, 171. | 1.7 | 164 |
| 30 | Organic Aerosol Formation Downwind from the Deepwater Horizon Oil Spill. Science, 2011, 331, 1295-1299. | 6.0 | 162 |
| 31 | Alkyl nitrates, nonmethane hydrocarbons, and halocarbon gases over the equatorial Pacific Ocean during SAGA 3. Journal of Geophysical Research, 1993, 98, 16933-16947. | 3.3 | 161 |
| 32 | Observed OH and HO2in the upper troposphere suggest a major source from convective injection of peroxides. Geophysical Research Letters, 1997, 24, 3181-3184. | 1.5 | 160 |
| 33 | Estimating the climate significance of halogen-driven ozone loss in the tropical marine troposphere. Atmospheric Chemistry and Physics, 2012, 12, 3939-3949. | 1.9 | 157 |
| 34 | Methyl halide emissions from savanna fires in southern Africa. Journal of Geophysical Research, 1996, 101, 23603-23613. | 3.3 | 148 |
| 35 | Finding the missing stratospheric Br<sub>y</sub>: a global modeling study of CHBr<sub>3</sub> and CH<sub>2</sub>Br<sub>2</sub>. Atmospheric Chemistry and Physics, 2010, 10, 2269-2286. | 1.9 | 147 |
| 36 | On the origin of tropospheric ozone and NOxover the tropical South Pacific. Journal of Geophysical Research, 1999, 104, 5829-5843. | 3.3 | 140 |

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|---|---|---|---|
| 37 | Effects of mixing on evolution of hydrocarbon ratios in the troposphere. Journal of Geophysical Research, 2007, 112, . | 3.3 | 140 |
| 38 | A study of the photochemistry and ozone budget during the Mauna Loa Observatory Photochemistry Experiment. Journal of Geophysical Research, 1992, 97, 10463-10471. | 3.3 | 133 |
| 39 | Trace gas and particle emissions from open biomass burning in Mexico. Atmospheric Chemistry and Physics, 2011, 11, 6787-6808. | 1.9 | 133 |
| 40 | Distribution of halon-1211 in the upper troposphere and lower stratosphere and the 1994 total bromine budget. Journal of Geophysical Research, 1998, 103, 1513-1526. | 3.3 | 131 |
| 41 | Global sea-to-air flux climatology for bromoform, dibromomethane and methyl iodide. Atmospheric Chemistry and Physics, 2013, 13, 8915-8934. | 1.9 | 131 |
| 42 | Measurements of halogenated organic compounds near the tropical tropopause. Geophysical Research Letters, 1993, 20, 2567-2570. | 1.5 | 128 |
| 43 | Nocturnal isoprene oxidation over the Northeast United States in summer and its impact on reactive nitrogen partitioning and secondary organic aerosol. Atmospheric Chemistry and Physics, 2009, 9, 3027-3042. | 1.9 | 128 |
| 44 | Signatures of terminal alkene oxidation in airborne formaldehyde measurements during TexAQS 2000. Journal of Geophysical Research, 2003, 108, n/a-n/a. | 3.3 | 126 |
| 45 | Measurements of organic species in air and seawater from the tropical Atlantic. Geophysical Research Letters, 2004, 31, . | 1.5 | 126 |
| 46 | On the Sources of Methane to the Los Angeles Atmosphere. Environmental Science & Technology, 2012, 46, 9282-9289. | 4.6 | 126 |
| 47 | Evidence for â‰¥C3 alkyl nitrates in rural and remote atmospheres. Nature, 1988, 331, 426-428. | 13.7 | 125 |
| 48 | Reactive uptake coefficients for N<sub>2</sub>O<sub>5</sub> determined from aircraft measurements during the Second Texas Air Quality Study: Comparison to current model parameterizations. Journal of Geophysical Research, 2009, 114, . | 3.3 | 124 |
| 49 | Tropospheric hydroxyl and atomic chlorine concentrations, and mixing timescales determined from hydrocarbon and halocarbon measurements made over the Southern Ocean. Journal of Geophysical Research, 1999, 104, 21819-21828. | 3.3 | 122 |
| 50 | Modeling the transport of very short-lived substances into the tropical upper troposphere and lower stratosphere. Atmospheric Chemistry and Physics, 2009, 9, 9237-9247. | 1.9 | 122 |
| 51 | Observational evidence for interhemispheric hydroxyl-radical parity. Nature, 2014, 513, 219-223. | 13.7 | 121 |
| 52 | A new interpretation of total column BrO during Arctic spring. Geophysical Research Letters, 2010, 37, . | 1.5 | 116 |
| 53 | Bromoform and dibromomethane in the tropics: a 3-D model study of chemistry and transport. Atmospheric Chemistry and Physics, 2010, 10, 719-735. | 1.9 | 112 |
| 54 | Rethinking reactive halogen budgets in the midlatitude lower stratosphere. Geophysical Research Letters, 1999, 26, 1699-1702. | 1.5 | 110 |

| # | Article | IF | Citations |
|---|---|---|---|
| 55 | Particle growth in urban and industrial plumes in Texas. Journal of Geophysical Research, 2003, 108, n/a-n/a. | 3.3 | 109 |
| 56 | 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 |
| 57 | Comparison of MkIV balloon and ER-2 aircraft measurements of atmospheric trace gases. Journal of Geophysical Research, 1999, 104, 26779-26790. | 3.3 | 106 |
| 58 | NOAA's status and trends mussel watch program: Chlorinated pesticides and PCBs in oysters (Crassostrea virginica) and sediments from the Gulf of Mexico, 1986â€“1987. Marine Environmental Research, 1990, 29, 161-203. | 1.1 | 105 |
| 59 | Extreme deuterium enrichment in stratospheric hydrogen and the global atmospheric budget of H2. Nature, 2003, 424, 918-921. | 13.7 | 105 |
| 60 | Oceanic bromoform sources for the tropical atmosphere. Geophysical Research Letters, 2004, 31, . | 1.5 | 103 |
| 61 | An investigation of the chemistry of ship emission plumes during ITCT 2002. Journal of Geophysical Research, 2005, 110, . | 3.3 | 103 |
| 62 | Estimates of total organic and inorganic chlorine in the lower stratosphere from in situ and flask measurements during AASE II. Journal of Geophysical Research, 1995, 100, 3057. | 3.3 | 99 |
| 63 | The glyoxal budget and its contribution to organic aerosol for Los Angeles, California, during CalNex 2010. Journal of Geophysical Research, 2011, 116, . | 3.3 | 99 |
| 64 | Ambient concentration and precipitation scavenging of atmospheric organic pollutants. Water, Air, and Soil Pollution, 1988, 38, 19-36. | 1.1 | 99 |
| 65 | 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 |
| 66 | The Stratosphereâ€“Troposphere Analyses of Regional Transport 2008 Experiment. Bulletin of the American Meteorological Society, 2010, 91, 327-342. | 1.7 | 96 |
| 67 | Is the Arctic Surface Layer a Source and Sink of NOx in Winter/Spring?. Journal of Atmospheric Chemistry, 2000, 36, 1-22. | 1.4 | 94 |
| 68 | Total observed organic carbon (TOOC) in the atmosphere: a synthesis of North American observations. Atmospheric Chemistry and Physics, 2008, 8, 2007-2025. | 1.9 | 94 |
| 69 | Partitioning and budget of NO<sub>y</sub> species during the Mauna Loa Observatory Photochemistry Experiment. Journal of Geophysical Research, 1992, 97, 10449-10462. | 3.3 | 92 |
| 70 | Solubility behavior of apatites in seawater1. Limnology and Oceanography, 1977, 22, 290-300. | 1.6 | 90 |
| 71 | 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. | 1.9 | 90 |
| 72 | 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 |

| # | Article | IF | Citations |
|---|---|---|---|
| 73 | 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, . | 3.3 | 89 |
| 74 | Aircraft measurements of the latitudinal, vertical, and seasonal variations of NMHCs, methyl nitrate, methyl halides, and DMS during the First Aerosol Characterization Experiment (ACE 1). Journal of Geophysical Research, 1999, 104, 21803-21817. | 3.3 | 88 |
| 75 | Changes in the photochemical environment of the temperate North Pacific troposphere in response to increased Asian emissions. Journal of Geophysical Research, 2004, 109, . | 3.3 | 86 |
| 76 | Evaluations of NO<sub>x</sub> and highly reactive VOC emission inventories in Texas and their implications for ozone plume simulations during the Texas Air Quality Study 2006. Atmospheric Chemistry and Physics, 2011, 11, 11361-11386. | 1.9 | 85 |
| 77 | Measurements of bromine containing organic compounds at the tropical tropopause. Geophysical Research Letters, 1998, 25, 317-320. | 1.5 | 84 |
| 78 | Biomass burning and anthropogenic sources of CO over New England in the summer 2004. Journal of Geophysical Research, 2006, 111, . | 3.3 | 83 |
| 79 | Adsorption of phthalic acid esters from seawater. Environmental Science & Technology, 1982, 16, 428-432. | 4.6 | 82 |
| 80 | The partitioning of nitrogen oxides in the lower Arctic troposphere during spring 1988. Journal of Atmospheric Chemistry, 1993, 17, 15-27. | 1.4 | 82 |
| 81 | Coupled evolution of BrOx-ClOx-HOx-NOxchemistry during bromine-catalyzed ozone depletion events in the arctic boundary layer. Journal of Geophysical Research, 2003, 108, . | 3.3 | 82 |
| 82 | Influence of lateral and top boundary conditions on regional air quality prediction: A multiscale study coupling regional and global chemical transport models. Journal of Geophysical Research, 2007, 112, . | 3.3 | 82 |
| 83 | Phthalate esters, PCB and DDT residues in the gulf of mexico atmosphere. Atmospheric Environment, 1980, 14, 65-69. | 1.1 | 81 |
| 84 | The Tropospheric Ozone Production about the Spring Equinox (TOPSE) Experiment: Introduction. Journal of Geophysical Research, 2003, 108, . | 3.3 | 81 |
| 85 | Air-sea exchange of high-molecular weight organic pollutants: laboratory studies. Environmental Science & Technology, 1982, 16, 283-286. | 4.6 | 80 |
| 86 | Latitudinal, vertical, and seasonal variations of C1-C4alkyl nitrates in the troposphere over the Pacific Ocean during PEM-Tropics A and B: Oceanic and continental sources. Journal of Geophysical Research, 2003, 108, . | 3.3 | 80 |
| 87 | 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 |
| 88 | Volatile organic trace gases emitted from North American wildfires. Global Biogeochemical Cycles, 2001, 15, 435-452. | 1.9 | 79 |
| 89 | 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 |
| 90 | The NASA Airborne Tropical Tropopause Experiment: High-Altitude Aircraft Measurements in the Tropical Western Pacific. Bulletin of the American Meteorological Society, 2017, 98, 129-143. | 1.7 | 79 |

| # | Article | IF | Citations |
|---|---|---|---|
| 91 | Ozone depletion events observed in the high latitude surface layer during the TOPSE aircraft program. Journal of Geophysical Research, 2003, 108, TOP 4-1. | 3.3 | 75 |
| 92 | Nocturnal odd-oxygen budget and its implications for ozone loss in the lower troposphere. Geophysical Research Letters, 2006, 33, . | 1.5 | 75 |
| 93 | Phthalic Acid Esters. Handbook of Environmental Chemistry, 1984, , 67-142. | 0.2 | 72 |
| 94 | Effect of sulfate aerosol on tropospheric NOxand ozone budgets: Model simulations and TOPSE evidence. Journal of Geophysical Research, 2003, 108, . | 3.3 | 70 |
| 95 | Chlorine budget and partitioning during the Stratospheric Aerosol and Gas Experiment (SAGE) III Ozone Loss and Validation Experiment (SOLVE). Journal of Geophysical Research, 2003, 108, . | 3.3 | 69 |
| 96 | The Mauna Loa Observatory Photochemistry Experiment: Introduction. Journal of Geophysical Research, 1996, 101, 14531-14541. | 3.3 | 66 |
| 97 | Chemical characteristics of Pacific tropospheric air in the region of the Intertropical Convergence Zone and South Pacific Convergence Zone. Journal of Geophysical Research, 1999, 104, 5677-5696. | 3.3 | 66 |
| 98 | Observations of the anomalous oxygen isotopic composition of carbon dioxide in the lower stratosphere and the flux of the anomaly to the troposphere. Geophysical Research Letters, 2004, 31, . | 1.5 | 66 |
| 99 | Evaluating global emission inventories of biogenic bromocarbons. Atmospheric Chemistry and Physics, 2013, 13, 11819-11838. | 1.9 | 66 |
| 100 | Seasonal variations of C2â€“C4nonmethane hydrocarbons and C1â€“C4alkyl nitrates at the Summit research station in Greenland. Journal of Geophysical Research, 2003, 108, . | 3.3 | 64 |
| 101 | Emission and transport of bromocarbons: from the West Pacific ocean into the stratosphere. Atmospheric Chemistry and Physics, 2012, 12, 10633-10648. | 1.9 | 64 |
| 102 | Methyl bromide, other brominated methanes, and methyl iodide in polar firn air. Journal of Geophysical Research, 2001, 106, 1595-1606. | 3.3 | 63 |
| 103 | Large-scale latitudinal and vertical distributions of NMHCs and selected halocarbons in the troposphere over the Pacific Ocean during the March-April 1999 Pacific Exploratory Mission (PEM-Tropics B). Journal of Geophysical Research, 2001, 106, 32627-32644. | 3.3 | 63 |
| 104 | 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. | 3.3 | 63 |
| 105 | The contribution of natural and anthropogenic very short-lived species to stratospheric bromine. Atmospheric Chemistry and Physics, 2012, 12, 371-380. | 1.9 | 63 |
| 106 | Historical perspective on the environmental bioavailability of DDT and its derivatives to Gulf of Mexico oysters. Environmental Science & Technology, 1990, 24, 1541-1548. | 4.6 | 62 |
| 107 | Alkyl nitrate and selected halocarbon measurements at Mauna Loa Observatory, Hawaii. Journal of Geophysical Research, 1992, 97, 10331-10348. | 3.3 | 62 |
| 108 | An examination of chemistry and transport processes in the tropical lower stratosphere using observations of long-lived and short-lived compounds obtained during STRAT and POLARIS. Journal of Geophysical Research, 1999, 104, 26625-26642. | 3.3 | 62 |

| # | Article | IF | Citations |
|---|---|---|---|
| 109 | Tunable diode laser measurements of formaldehyde during the TOPSE 2000 study: Distributions, trends, and model comparisons. Journal of Geophysical Research, 2003, 108, . | 3.3 | 62 |
| 110 | Temporal Changes in U.S. Benzene Emissions Inferred from Atmospheric Measurements. Environmental Science & Technology, 2005, 39, 1403-1408. | 4.6 | 61 |
| 111 | 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, . | 3.3 | 60 |
| 112 | Direct oceanic emissions unlikely to account for the missing source of atmospheric carbonyl sulfide. Atmospheric Chemistry and Physics, 2017, 17, 385-402. | 1.9 | 60 |
| 113 | Ozone, aerosol, potential vorticity, and trace gas trends observed at high-latitudes over North America from February to May 2000. Journal of Geophysical Research, 2003, 108, . | 3.3 | 59 |
| 114 | Characterization of volatile organic compounds (VOCs) in Asian and north American pollution plumes during INTEX-B: identification of specific Chinese air mass tracers. Atmospheric Chemistry and Physics, 2009, 9, 5371-5388. | 1.9 | 59 |
| 115 | Short-lived brominated hydrocarbons â€“ observations in the source regions and the tropical tropopause layer. Atmospheric Chemistry and Physics, 2012, 12, 1213-1228. | 1.9 | 59 |
| 116 | Global emissions of refrigerants HCFC-22 and HFC-134a: Unforeseen seasonal contributions. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 17379-17384. | 3.3 | 59 |
| 117 | Emissions of organic carbon and methane from petroleum and dairy operations in California's San Joaquin Valley. Atmospheric Chemistry and Physics, 2014, 14, 4955-4978. | 1.9 | 59 |
| 118 | Convective transport of very short lived bromocarbons to the stratosphere. Atmospheric Chemistry and Physics, 2014, 14, 5781-5792. | 1.9 | 59 |
| 119 | Steady state free radical budgets and ozone photochemistry during TOPSE. Journal of Geophysical Research, 2003, 108, . | 3.3 | 57 |
| 120 | Airborne Measurements of Ethene from Industrial Sources Using Laser Photo-Acoustic Spectroscopy. Environmental Science & Technology, 2009, 43, 2437-2442. | 4.6 | 57 |
| 121 | Budget of tropospheric ozone during TOPSE from two chemical transport models. Journal of Geophysical Research, 2003, 108, . | 3.3 | 56 |
| 122 | Phosphate association with Na+, Ca2+ and Mg2+ in seawater. Marine Chemistry, 1976, 4, 243-254. | 0.9 | 55 |
| 123 | Photochemistry in the arctic free troposphere: NOx budget and the role of odd nitrogen reservoir recycling. Atmospheric Environment, 2003, 37, 3351-3364. | 1.9 | 55 |
| 124 | Bromoform and dibromomethane above the Mauritanian upwelling: Atmospheric distributions and oceanic emissions. Journal of Geophysical Research, 2007, 112, . | 3.3 | 55 |
| 125 | Reactive nitrogen in Asian continental outflow over the western Pacific: Results from the NASA Transport and Chemical Evolution over the Pacific (TRACE-P) airborne mission. Journal of Geophysical Research, 2003, 108, . | 3.3 | 54 |
| 126 | Carbonyl sulfide and carbon disulfide: Large-scale distributions over the western Pacific and emissions from Asia during TRACE-P. Journal of Geophysical Research, 2004, 109, . | 3.3 | 54 |

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|---|---|---|---|
| 127 | Investigating the sources and atmospheric processing of fine particles from Asia and the Northwestern United States measured during INTEX B. Atmospheric Chemistry and Physics, 2008, 8, 1835-1853. | 1.9 | 54 |
| 128 | Photochemical aging of volatile organic compounds in the Los Angeles basin: Weekdayâ€“weekend effect. Journal of Geophysical Research D: Atmospheres, 2013, 118, 5018-5028. | 1.2 | 54 |
| 129 | An improved, automated whole air sampler and gas chromatography mass spectrometry analysis system for volatile organic compounds in the atmosphere. Atmospheric Measurement Techniques, 2017, 10, 291-313. | 1.2 | 54 |
| 130 | Analysis of alkyl nitrates and selected halocarbons in the ambient atmosphere using a charcoal preconcentration technique. Environmental Science & Technology, 1991, 25, 61-67. | 4.6 | 53 |
| 131 | Reactive nitrogen budget during the NASA SONEX Mission. Geophysical Research Letters, 1999, 26, 3057-3060. | 1.5 | 53 |
| 132 | Photochemical production and evolution of selected C2â€“C5alkyl nitrates in tropospheric air influenced by Asian outflow. Journal of Geophysical Research, 2003, 108, . | 3.3 | 53 |
| 133 | Widespread persistent near-surface ozone depletion at northern high latitudes in spring. Geophysical Research Letters, 2003, 30, . | 1.5 | 53 |
| 134 | No evidence for acid-catalyzed secondary organic aerosol formation in power plant plumes over metropolitan Atlanta, Georgia. Geophysical Research Letters, 2007, 34, . | 1.5 | 53 |
| 135 | Transport pathways and signatures of mixing in the extratropical tropopause region derived from Lagrangian model simulations. Journal of Geophysical Research, 2011, 116, . | 3.3 | 52 |
| 136 | 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. | 1.9 | 51 |
| 137 | A multi-model intercomparison of halogenated very short-lived substances (TransCom-VSLS): linking oceanic emissions and tropospheric transport for a reconciled estimate of the stratospheric source gas injection of bromine. Atmospheric Chemistry and Physics, 2016, 16, 9163-9187. | 1.9 | 51 |
| 138 | The seasonal evolution of NMHCs and light alkyl nitrates at middle to high northern latitudes during TOPSE. Journal of Geophysical Research, 2003, 108, . | 3.3 | 50 |
| 139 | Airborne observations of methane emissions from rice cultivation in the Sacramento Valley of California. Journal of Geophysical Research, 2012, 117, . | 3.3 | 50 |
| 140 | The Convective Transport of Active Species in the Tropics (CONTRAST) Experiment. Bulletin of the American Meteorological Society, 2017, 98, 106-128. | 1.7 | 50 |
| 141 | Origin of anthropogenic hydrocarbons and halocarbons measured in the summertime european outflow (on Crete in 2001). Atmospheric Chemistry and Physics, 2003, 3, 1223-1235. | 1.9 | 49 |
| 142 | Long-term atmospheric measurements of C1â€“C5 alkyl nitrates in the Pearl River Delta region of southeast China. Atmospheric Environment, 2006, 40, 1619-1632. | 1.9 | 49 |
| 143 | Long-lived halocarbon trends and budgets from atmospheric chemistry modelling constrained with measurements in polar firn. Atmospheric Chemistry and Physics, 2009, 9, 3911-3934. | 1.9 | 49 |
| 144 | Sources of particulate matter in the northeastern United States in summer: 2. Evolution of chemical and microphysical properties. Journal of Geophysical Research, 2008, 113, . | 3.3 | 48 |

| # | Article | IF | Citations |
|---|---|---|---|
| 145 | Lagrangian analysis of low altitude anthropogenic plume processing across the North Atlantic. Atmospheric Chemistry and Physics, 2008, 8, 7737-7754. | 1.9 | 48 |
| 146 | Airborne measurements of organic bromine compounds in the Pacific tropical tropopause layer. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 13789-13793. | 3.3 | 47 |
| 147 | Large-scale ozone and aerosol distributions, air mass characteristics, and ozone fluxes over the western Pacific Ocean in late winter/early spring. Journal of Geophysical Research, 2003, 108, . | 3.3 | 46 |
| 148 | The CO<sub>2</sub> tracer clock for the Tropical Tropopause Layer. Atmospheric Chemistry and Physics, 2007, 7, 3989-4000. | 1.9 | 46 |
| 149 | Halocarbon Emissions from the United States and Mexico and Their Global Warming Potential. Environmental Science & Technology, 2009, 43, 1055-1060. | 4.6 | 46 |
| 150 | An aircraftâ€based upper troposphere lower stratosphere O<sub>3</sub>, CO, and H<sub>2</sub>O climatology for the Northern Hemisphere. Journal of Geophysical Research, 2010, 115, . | 3.3 | 46 |
| 151 | Can simple models predict large-scale surface ocean isoprene concentrations?. Atmospheric Chemistry and Physics, 2016, 16, 11807-11821. | 1.9 | 45 |
| 152 | A long-term record of carbonyl sulfide (COS) in two hemispheres from firn air measurements. Geophysical Research Letters, 2001, 28, 4095-4098. | 1.5 | 44 |
| 153 | Characterization of NO<sub>x</sub>, SO<sub>2</sub>, ethene, and propene from industrial emission sources in Houston, Texas. Journal of Geophysical Research, 2010, 115, . | 3.3 | 44 |
| 154 | Measurements of PAN, alkyl nitrates, ozone, and hydrocarbons during spring in interior Alaska. Journal of Geophysical Research, 1996, 101, 12613-12619. | 3.3 | 42 |
| 155 | Tropospheric reactive odd nitrogen over the South Pacific in austral springtime. Journal of Geophysical Research, 2000, 105, 6681-6694. | 3.3 | 42 |
| 156 | The contribution of oceanic methyl iodide to stratospheric iodine. Atmospheric Chemistry and Physics, 2013, 13, 11869-11886. | 1.9 | 42 |
| 157 | Growth in stratospheric chlorine from shortâ€lived chemicals not controlled by the Montreal Protocol. Geophysical Research Letters, 2015, 42, 4573-4580. | 1.5 | 42 |
| 158 | Carbon and hydrogen isotopic compositions of stratospheric methane: 1. High-precision observations from the NASA ER-2 aircraft. Journal of Geophysical Research, 2003, 108, . | 3.3 | 41 |
| 159 | Emissions and photochemistry of oxygenated VOCs in urban plumes in the Northeastern United States. Atmospheric Chemistry and Physics, 2011, 11, 7081-7096. | 1.9 | 41 |
| 160 | Dynamical and chemical characteristics of tropospheric intrusions observed during START08. Journal of Geophysical Research, 2011, 116, . | 3.3 | 40 |
| 161 | Phthalate ester plasticizers: a new class of marine pollutant. Science, 1978, 199, 419-21. | 6.0 | 39 |
| 162 | A biomass burning source of C1-C4alkyl nitrates. Geophysical Research Letters, 2002, 29, 21-1-21-4. | 1.5 | 38 |

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|---|---|---|---|
| 163 | Ultratrace determination of vapor-phase nitrogen heterocyclic bases in ambient air. Analytical Chemistry, 1982, 54, 1515-1518. | 3.2 | 37 |
| 164 | Widespread occurrence of polyhalogenated aromatic ethers in the marine atmosphere. Atmospheric Environment, 1986, 20, 1217-1220. | 1.1 | 37 |
| 165 | In situ measurements of BrO During AASE II. Geophysical Research Letters, 1995, 22, 831-834. | 1.5 | 37 |
| 166 | Large and unexpected enrichment in stratospheric <sup>16</sup> O <sup>13</sup> C <sup>18</sup> O and its meridional variation. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 11496-11501. | 3.3 | 37 |
| 167 | Results from the International Halocarbons in Air Comparison Experiment (IHALACE). Atmospheric Measurement Techniques, 2014, 7, 469-490. | 1.2 | 37 |
| 168 | Observations of methyl nitrate in the lower stratosphere during STRAT: Implications for its gas phase production mechanisms. Geophysical Research Letters, 1998, 25, 1891-1894. | 1.5 | 36 |
| 169 | Photochemistry and budget of ozone during the Mauna Loa Observatory Photochemistry Experiment (MLOPEX 2). Journal of Geophysical Research, 1999, 104, 30275-30307. | 3.3 | 36 |
| 170 | Relationship between photochemical ozone production and NO<sub>x</sub> oxidation in Houston, Texas. Journal of Geophysical Research, 2009, 114, . | 3.3 | 36 |
| 171 | Stratospheric Injection of Brominated Very Shortâ€Lived Substances: Aircraft Observations in the Western Pacific and Representation in Global Models. Journal of Geophysical Research D: Atmospheres, 2018, 123, 5690-5719. | 1.2 | 36 |
| 172 | Recent Trends in Stratospheric Chlorine From Very Shortâ€Lived Substances. Journal of Geophysical Research D: Atmospheres, 2019, 124, 2318-2335. | 1.2 | 34 |
| 173 | Alkyl nitrates in outflow from North America over the North Atlantic during Intercontinental Transport of Ozone and Precursors 2004. Journal of Geophysical Research, 2007, 112, . | 3.3 | 33 |
| 174 | Unexpected variations in the triple oxygen isotope composition of stratospheric carbon dioxide. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 17680-17685. | 3.3 | 33 |
| 175 | A pervasive role for biomass burning in tropical high ozone/low water structures. Nature Communications, 2016, 7, 10267. | 5.8 | 33 |
| 176 | BrO and inferred Br<sub><i>y</i></sub> profiles over the western Pacific: relevance of inorganic bromine sources and a Br<sub><i>y</i></sub> minimum in the aged tropical tropopause layer. Atmospheric Chemistry and Physics, 2017, 17, 15245-15270. | 1.9 | 33 |
| 177 | Methyl, Ethyl, and Propyl Nitrates: Global Distribution and Impacts on Reactive Nitrogen in Remote Marine Environments. Journal of Geophysical Research D: Atmospheres, 2018, 123, 12,429. | 1.2 | 33 |
| 178 | A COMPARISON AT SEA OF MANUAL AND AUTOANALYZER ANALYSES OF PHOSPHATE, NITRATE, AND SILICATE1. Limnology and Oceanography, 1972, 17, 931-937. | 1.6 | 32 |
| 179 | Measurements of N2O isotopologues in the stratosphere: Influence of transport on the apparent enrichment factors and the isotopologue fluxes to the troposphere. Journal of Geophysical Research, 2004, 109, . | 3.3 | 32 |
| 180 | A study of organic nitrates formation in an urban plume using a Master Chemical Mechanism. Atmospheric Environment, 2008, 42, 5771-5786. | 1.9 | 32 |

| # | Article | IF | Citations |
|---|---|---|---|
| 181 | Transport of short-lived species into the Tropical Tropopause Layer. Atmospheric Chemistry and Physics, 2012, 12, 6309-6322. | 1.9 | 32 |
| 182 | Continued emissions of carbon tetrachloride from the United States nearly two decades after its phaseout for dispersive uses. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 2880-2885. | 3.3 | 32 |
| 183 | On the sources and sinks of atmospheric VOCs: an integrated analysis of recent aircraft campaigns over North America. Atmospheric Chemistry and Physics, 2019, 19, 9097-9123. | 1.9 | 32 |
| 184 | The budget and partitioning of stratospheric chlorine during the 1997 Arctic summer. Journal of Geophysical Research, 1999, 104, 26653-26665. | 3.3 | 31 |
| 185 | Observations of APAN during TexAQS 2000. Geophysical Research Letters, 2001, 28, 4195-4198. | 1.5 | 31 |
| 186 | Statistical inference of OH concentrations and air mass dilution rates from successive observations of nonmethane hydrocarbons in single air masses. Journal of Geophysical Research, 2007, 112, . | 3.3 | 31 |
| 187 | Dimethylsulphide (DMS) emissions from the western Pacific Ocean: a potential marine source for stratospheric sulphur?. Atmospheric Chemistry and Physics, 2013, 13, 8427-8437. | 1.9 | 31 |
| 188 | Drivers of diel and regional variations of halocarbon emissions from the tropical North East Atlantic. Atmospheric Chemistry and Physics, 2014, 14, 1255-1275. | 1.9 | 31 |
| 189 | On the age of stratospheric air and inorganic chlorine and bromine release. Journal of Geophysical Research, 1996, 101, 16757-16770. | 3.3 | 30 |
| 190 | Measurements of NOxand PAN and estimates of O3production over the seasons during Mauna Loa Observatory Photochemistry Experiment 2. Journal of Geophysical Research, 1998, 103, 8323-8339. | 3.3 | 30 |
| 191 | The hydrogen isotopic composition of water vapor entering the stratosphere inferred from high-precision measurements of ÎD-CH4and ÎD-H2. Journal of Geophysical Research, 2004, 109, . | 3.3 | 30 |
| 192 | Multiscale simulations of tropospheric chemistry in the eastern Pacific and on the U.S. West Coast during spring 2002. Journal of Geophysical Research, 2004, 109, . | 3.3 | 30 |
| 193 | Carbon and hydrogen isotopic compositions of stratospheric methane: 2. Two-dimensional model results and implications for kinetic isotope effects. Journal of Geophysical Research, 2003, 108, . | 3.3 | 29 |
| 194 | Steady-state aerosol distributions in the extra-tropical, lower stratosphere and the processes that maintain them. Atmospheric Chemistry and Physics, 2008, 8, 6617-6626. | 1.9 | 29 |
| 195 | The contribution of oceanic halocarbons to marine and free tropospheric air over the tropical West Pacific. Atmospheric Chemistry and Physics, 2016, 16, 7569-7585. | 1.9 | 29 |
| 196 | Delivery of halogenated very short-lived substances from the west Indian Ocean to the stratosphere during the Asian summer monsoon. Atmospheric Chemistry and Physics, 2017, 17, 6723-6741. | 1.9 | 29 |
| 197 | Fossil-fueled power plants as a source of atmospheric carbon monoxide. Journal of Environmental Monitoring, 2003, 5, 35-39. | 2.1 | 28 |
| 198 | Iodine containing species in the remote marine boundary layer: A link to oceanic phytoplankton. Geophysical Research Letters, 2011, 38, n/a-n/a. | 1.5 | 28 |

| # | Article | IF | Citations |
|---|---|---|---|
| 199 | Modelling marine emissions and atmospheric distributions of halocarbons and dimethyl sulfide: the influence of prescribed water concentration vs. prescribed emissions. Atmospheric Chemistry and Physics, 2015, 15, 11753-11772. | 1.9 | 28 |
| 200 | The O2/N2 Ratio and CO2 Airborne Southern Ocean Study. Bulletin of the American Meteorological Society, 2018, 99, 381-402. | 1.7 | 28 |
| 201 | Inverse modelling of carbonyl sulfide: implementation, evaluation and implications for the global budget. Atmospheric Chemistry and Physics, 2021, 21, 3507-3529. | 1.9 | 28 |
| 202 | Tracer-based determination of vortex descent in the 1999/2000 Arctic winter. Journal of Geophysical Research, 2002, 107, SOL 22-1. | 3.3 | 27 |
| 203 | Alkenes in the Arctic boundary layer at Alert, Nunavut, Canada. Atmospheric Environment, 2002, 36, 2585-2594. | 1.9 | 27 |
| 204 | A comparison of very short lived halocarbon (VSLS) and DMS aircraft measurements in the tropical west Pacific from CAST, ATTREX and CONTRAST. Atmospheric Measurement Techniques, 2016, 9, 5213-5225. | 1.2 | 27 |
| 205 | Defining the polar vortex edge from an N2O:potential temperature correlation. Journal of Geophysical Research, 2002, 107, SOL 10-1. | 3.3 | 26 |
| 206 | Assessing the effect of marine isoprene and ship emissions on ozone, using modelling and measurements from the South Atlantic Ocean. Environmental Chemistry, 2010, 7, 171. | 0.7 | 26 |
| 207 | Evidence from firn air for recent decreases in non-methane hydrocarbons and a 20th century increase in nitrogen oxides in the northern hemisphere. Atmospheric Environment, 2012, 54, 592-602. | 1.9 | 26 |
| 208 | National status and trends mussel watch program: Chlordane-related compounds in Gulf of Mexico oysters, 1986â€“1990. Environmental Pollution, 1993, 82, 23-32. | 3.7 | 25 |
| 209 | Controls on atmospheric chloroiodomethane (CH<sub>2</sub>ClI) in marine environments. Journal of Geophysical Research, 2008, 113, . | 3.3 | 25 |
| 210 | Impact of the marine atmospheric boundary layer conditions on VSLS abundances in the eastern tropical and subtropical North Atlantic Ocean. Atmospheric Chemistry and Physics, 2013, 13, 6345-6357. | 1.9 | 25 |
| 211 | Probing the subtropical lowermost stratosphere and the tropical upper troposphere and tropopause layer for inorganic bromine. Atmospheric Chemistry and Physics, 2017, 17, 1161-1186. | 1.9 | 25 |
| 212 | Aircraft measurements of gravity waves in the upper troposphere and lower stratosphere during the START08 field experiment. Atmospheric Chemistry and Physics, 2015, 15, 7667-7684. | 1.9 | 24 |
| 213 | Marine carbonyl sulfide (OCS) and carbon disulfide (CS<sub>2</sub>): a compilation of measurements in seawater and the marine boundary layer. Earth System Science Data, 2020, 12, 591-609. | 3.7 | 24 |
| 214 | Chemical and Biological Characterization of Emissions from a Fireperson Training Facility. AIHA Journal, 1985, 46, 532-540. | 0.4 | 23 |
| 215 | Organic compounds of environmental concern in the Gulf of Mexico: a review. Aquatic Toxicology, 1988, 11, 191-212. | 1.9 | 23 |
| 216 | Hydration, dehydration, and the total hydrogen budget of the 1999/2000 winter Arctic stratosphere. Journal of Geophysical Research, 2002, 107, SOL 63-1-SOL 63-12. | 3.3 | 23 |

| # | Article | IF | Citations |
|---|---|---|---|
| 217 | Convective transport of reactive constituents to the tropical and mid-latitude tropopause region: I. Observations. Atmospheric Environment, 2004, 38, 1259-1274. | 1.9 | 23 |
| 218 | Possible evidence for a connection between methyl iodide emissions and Saharan dust. Journal of Geophysical Research, 2007, 112, . | 3.3 | 23 |
| 219 | An overview of air-snow exchange at Summit, Greenland: Recent experiments and findings. Atmospheric Environment, 2007, 41, 4995-5006. | 1.9 | 23 |
| 220 | Comparison between DC-8 and ER-2 species measurements in the tropical middle troposphere: NO, NOy, O3, CO2, CH4, and N2O. Journal of Geophysical Research, 1998, 103, 22087-22096. | 3.3 | 22 |
| 221 | Trace gas emissions through a winter snowpack in the subalpine ecosystem at Niwot Ridge, Colorado. Geophysical Research Letters, 2005, 32, . | 1.5 | 22 |
| 222 | Biogenic halocarbons from the Peruvian upwelling region as tropospheric halogen source. Atmospheric Chemistry and Physics, 2016, 16, 12219-12237. | 1.9 | 22 |
| 223 | Ozone depletion and the airâ€“sea exchange of greenhouse and chemically reactive trace gases. Chemosphere, 2000, 2, 137-149. | 1.2 | 20 |
| 224 | Organic trace gases of oceanic origin observed at South Pole during ISCAT 2000. Atmospheric Environment, 2004, 38, 5463-5472. | 1.9 | 19 |
| 225 | Vertical transport rates and concentrations of OH and Cl radicals in the Tropical Tropopause Layer from observations of CO<sub>2</sub> and halocarbons: implications for distributions of long- and short-lived chemical species. Atmospheric Chemistry and Physics, 2010, 10, 6669-6684. | 1.9 | 19 |
| 226 | Chromatographic Separation and Analysis of Chlorinated Hydrocarbons and Phthalic Acid Esters from Ambient Air Samples. International Journal of Environmental Analytical Chemistry, 1985, 19, 145-153. | 1.8 | 18 |
| 227 | Atmospheric distributions of HCFC 141b. Geophysical Research Letters, 1995, 22, 819-822. | 1.5 | 18 |
| 228 | Construction of a unified, high-resolution nitrous oxide data set for ER-2 flights during SOLVE. Journal of Geophysical Research, 2002, 107, SOL 13-1. | 3.3 | 18 |
| 229 | Comparisons of modeled and observed isoprene concentrations in southeast Texas. Atmospheric Environment, 2008, 42, 1922-1940. | 1.9 | 18 |
| 230 | Bimodal distribution of free tropospheric ozone over the tropical western Pacific revealed by airborne observations. Geophysical Research Letters, 2015, 42, 7844-7851. | 1.5 | 18 |
| 231 | An observationally constrained evaluation of the oxidative capacity in the tropical western Pacific troposphere. Journal of Geophysical Research D: Atmospheres, 2016, 121, 7461-7488. | 1.2 | 18 |
| 232 | A Synthesis Inversion to Constrain Global Emissions of Two Very Short Lived Chlorocarbons: Dichloromethane, and Perchloroethylene. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2019JD031818. | 1.2 | 18 |
| 233 | Buffer intensity of seawater1. Limnology and Oceanography, 1975, 20, 222-229. | 1.6 | 17 |
| 234 | Loss of phthalic acid esters and polychlorinated biphenyls from seawater samples during storage. Analytical Chemistry, 1981, 53, 1718-1719. | 3.2 | 17 |

| # | Article | IF | Citations |
|---|---|---|---|
| 235 | Horizontal variability 1â€“2 km below the tropical tropopause. Journal of Geophysical Research, 2004, 109, . | 3.3 | 17 |
| 236 | The Long-Range Transport of Organic Compounds. , 1990, , 259-302. | | 17 |
| 237 | A radiotracer study of air-water exchange of synthetic organic compounds. Chemosphere, 1983, 12, 1251-1258. | 4.2 | 16 |
| 238 | Tracing the origin and ages of interlaced atmospheric pollution events over the tropical Atlantic Ocean with in situ measurements, satellites, trajectories, emission inventories, and global models. Journal of Geophysical Research, 2004, 109, n/a-n/a. | 3.3 | 16 |
| 239 | Improved albedo formulation for chemistry transport models based on satellite observations and assimilated snow data and its impact on tropospheric photochemistry. Journal of Geophysical Research, 2005, 110, . | 3.3 | 16 |
| 240 | Ozone and alkyl nitrate formation from the Deepwater Horizon oil spill atmospheric emissions. Journal of Geophysical Research, 2012, 117, . | 3.3 | 16 |
| 241 | Changes in nitrogen oxides emissions in California during 2005â€“2010 indicated from topâ€down and bottomâ€up emission estimates. Journal of Geophysical Research D: Atmospheres, 2014, 119, 12,928. | 1.2 | 16 |
| 242 | Airborne measurements of BrO and the sum of HOBr and Br<sub>2</sub> over the Tropical West Pacific from 1 to 15â€‰km during the CONvective TRansport of Active Species in the Tropics (CONTRAST) experiment. Journal of Geophysical Research D: Atmospheres, 2016, 121, 12,560. | 1.2 | 16 |
| 243 | The Influence of Airâ€Sea Fluxes on Atmospheric Aerosols During the Summer Monsoon Over the Tropical Indian Ocean. Geophysical Research Letters, 2018, 45, 418-426. | 1.5 | 16 |
| 244 | Alkyl nitrate measurements during STERAO 1996 and NARE 1997: Intercomparison and survey of results. Journal of Geophysical Research, 2001, 106, 23043-23053. | 3.3 | 15 |
| 245 | Mixing events revealed by anomalous tracer relationships in the Arctic vortex during winter 1999/2000. Journal of Geophysical Research, 2002, 107, ACL 22-1. | 3.3 | 15 |
| 246 | Are methyl halides produced on all ice surfaces? Observations from snow-laden field sites. Atmospheric Environment, 2007, 41, 5162-5177. | 1.9 | 15 |
| 247 | Isotopic ordering in atmospheric O<sub>2</sub> as a tracer of ozone photochemistry and the tropical atmosphere. Journal of Geophysical Research D: Atmospheres, 2016, 121, 12,541. | 1.2 | 15 |
| 248 | Photochemistry in the Arctic Free Troposphere: Ozone Budget and Its Dependence on Nitrogen Oxides and the Production Rate of Free Radicals. Journal of Atmospheric Chemistry, 2004, 47, 107-138. | 1.4 | 14 |
| 249 | Chemical Equilibrium in Seawater. ACS Symposium Series, 1975, , 1-24. | 0.5 | 13 |
| 250 | Accumulation of phthalate ester plasticizers in lake constance sediments. Die Naturwissenschaften, 1980, 67, 508-510. | 0.6 | 13 |
| 251 | An ozone depletion event in the sub-arctic surface layer over Hudson Bay, Canada. Journal of Atmospheric Chemistry, 2007, 57, 255-280. | 1.4 | 13 |
| 252 | Halocarbon emissions and sources in the equatorial Atlantic Cold Tongue. Biogeosciences, 2015, 12, 6369-6387. | 1.3 | 12 |

| # | Article | IF | Citations |
|---|---|---|---|
| 253 | Preconcentration of atmospheric organic compounds by heat desorption and solvent microextraction. Analytical Chemistry, 1985, 57, 2417-2419. | 3.2 | 11 |
| 254 | Carbonyl sulfide as an inverse tracer for biogenic organic carbon in gas and aerosol phases. Geophysical Research Letters, 2009, 36, . | 1.5 | 11 |
| 255 | Chemical evidence of inter-hemispheric air mass intrusion into the Northern Hemisphere mid-latitudes. Scientific Reports, 2018, 8, 4669. | 1.6 | 11 |
| 256 | SO 2 Observations and Sources in the Western Pacific Tropical Tropopause Region. Journal of Geophysical Research D: Atmospheres, 2018, 123, 13,549. | 1.2 | 11 |
| 257 | Observations of ozone-poor air in the tropical tropopause layer. Atmospheric Chemistry and Physics, 2018, 18, 5157-5171. | 1.9 | 11 |
| 258 | Sea-Air Exchange of High-Molecular Weight Synthetic Organic Compounds. , 1986, , 295-329. | | 11 |
| 259 | A comparison of aircraft and ground-based measurements at Mauna Loa Observatory, Hawaii, during GTE PEM-West and MLOPEX 2. Journal of Geophysical Research, 1996, 101, 14599-14612. | 3.3 | 10 |
| 260 | Emission estimates of HCFCs and HFCs in California from the 2010 CalNex study. Journal of Geophysical Research D: Atmospheres, 2013, 118, 2019-2030. | 1.2 | 10 |
| 261 | Quantifying the vertical transport of CHBr<sub>3</sub> and CH<sub>2</sub>Br<sub>2</sub> over the western Pacific. Atmospheric Chemistry and Physics, 2018, 18, 13135-13153. | 1.9 | 10 |
| 262 | Variability and past long-term changes of brominated very short-lived substances at the tropical tropopause. Atmospheric Chemistry and Physics, 2020, 20, 7103-7123. | 1.9 | 10 |
| 263 | NOypartitioning from measurements of nitrogen and hydrogen radicals in the upper troposphere. Geophysical Research Letters, 1999, 26, 51-54. | 1.5 | 9 |
| 264 | How marine emissions of bromoform impact the remote atmosphere. Atmospheric Chemistry and Physics, 2019, 19, 11089-11103. | 1.9 | 9 |
| 265 | Natural and anthropogenic sources of bromoform and dibromomethane in the oceanographic and biogeochemical regime of the subtropical North East Atlantic. Environmental Sciences: Processes and Impacts, 2020, 22, 679-707. | 1.7 | 9 |
| 266 | Measurements and modeling of contemporary radiocarbon in the stratosphere. Geophysical Research Letters, 2016, 43, 1399-1406. | 1.5 | 8 |
| 267 | Use of Airborne In Situ VOC Measurements to Estimate Transit Time Spectrum: An Observationâ€Based Diagnostic of Convective Transport. Geophysical Research Letters, 2018, 45, 13,150. | 1.5 | 8 |
| 268 | Simulating the Weekly Cycle of NO x â€VOCâ€HO x â€O 3 Photochemical System in the South Coast of California During CalNexâ€2010 Campaign. Journal of Geophysical Research D: Atmospheres, 2019, 124, 3532-3555. | 1.2 | 8 |
| 269 | Natural and Anthropogenic Organic Compounds in the Global Atmosphere. , 1993, , 313-381. | | 8 |
| 270 | Effect of local and regional sources on the isotopic composition of nitrous oxide in the tropical free troposphere and tropopause layer. Journal of Geophysical Research, 2010, 115, . | 3.3 | 7 |

| # | Article | IF | Citations |
|---|---|---|---|
| 271 | Meteorological constraints on oceanic halocarbons above the Peruvian upwelling. Atmospheric Chemistry and Physics, 2016, 16, 12205-12217. | 1.9 | 7 |
| 272 | Modeling the inorganic bromine partitioning in the tropical tropopause layer over the eastern and western Pacific Ocean. Atmospheric Chemistry and Physics, 2017, 17, 9917-9930. | 1.9 | 7 |
| 273 | Evidence of convective transport in tropical West Pacific region during SHIVA experiment. Atmospheric Science Letters, 2018, 19, e798. | 0.8 | 7 |
| 274 | Introduction to special issue on natural halocarbons in the atmosphere. Journal of Atmospheric Chemistry, 2017, 74, 141-143. | 1.4 | 6 |
| 275 | Effects of Ozone Isotopologue Formation on the Clumpedâ€Isotope Composition of Atmospheric O<sub>2</sub>. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2021JD034770. | 1.2 | 6 |
| 276 | Hydrogen ion exchange on amorphous silica in seawater. Marine Chemistry, 1975, 3, 43-54. | 0.9 | 5 |
| 277 | Observation of possible elemental sulfur in the marine atmosphere and speculation on its origin. Atmospheric Environment Part A General Topics, 1991, 25, 2701-2705. | 1.3 | 5 |
| 278 | Model sensitivity studies of the decrease in atmospheric carbon tetrachloride. Atmospheric Chemistry and Physics, 2016, 16, 15741-15754. | 1.9 | 5 |
| 279 | Halogenation processes linked to red wood ant nests (Formica spp.) and tectonics. Journal of Atmospheric Chemistry, 2017, 74, 261-281. | 1.4 | 5 |
| 280 | Wintertime Transport of Reactive Trace Gases From East Asia Into the Deep Tropics. Journal of Geophysical Research D: Atmospheres, 2018, 123, 12,877. | 1.2 | 5 |
| 281 | Novel approaches to improve estimates of short-lived halocarbon emissions during summer from the Southern Ocean using airborne observations. Atmospheric Chemistry and Physics, 2019, 19, 14071-14090. | 1.9 | 5 |
| 282 | Transport of short-lived halocarbons to the stratosphere over the Pacific Ocean. Atmospheric Chemistry and Physics, 2020, 20, 1163-1181. | 1.9 | 5 |
| 283 | Airborne observations of vegetation and implications for biogenic emission characterization. Journal of Environmental Monitoring, 2003, 5, 977. | 2.1 | 4 |
| 284 | Thermolytic degradation of methylmethionine and implications for its role in DMS and MeCl formation in hypersaline environments. Environmental Chemistry, 2015, 12, 415. | 0.7 | 4 |
| 285 | Arctic Air Polution:A Case Study of Continent-To-Ocean-To-Continent Transport. , 1990, , 105-135. | | 4 |
| 286 | Age spectra and other transport diagnostics in the North American monsoon UTLS from SEAC<sup>4</sup>RS in situ trace gas measurements. Atmospheric Chemistry and Physics, 2022, 22, 6539-6558. | 1.9 | 4 |
| 287 | Correction to â€œAn aircraft-based upper troposphere lower stratosphere O3, CO, and H2O climatology for the Northern Hemisphereâ€• Journal of Geophysical Research, 2010, 115, . | 3.3 | 3 |
| 288 | Hydrocarbon Tracers Suggest Methane Emissions from Fossil Sources Occur Predominately Before Gas Processing and That Petroleum Plays Are a Significant Source. Environmental Science & Technology, 0, , . | 4.6 | 3 |

| # | Article | IF | Citations |
|---|---|---|---|
| 289 | Reply to â€œComment on â€˜Long-term atmospheric measurements of C1â€“C5 alkyl nitrates in the Pearl River Delta region of southeast Chinaâ€™â€• Atmospheric Environment, 2007, 41, 7371-7372. | 1.9 | 2 |
| 290 | Corrigendum to "Dimethylsulphide (DMS) emissionsfrom the West Pacific Ocean: a potential marine source for stratospheric sulphur?" published in Atmos. Chem. Phys., 13, 8427â€“8437, 2013. Atmospheric Chemistry and Physics, 2013, 13, 8813-8814. | 1.9 | 2 |
| 291 | Surface fluxes of bromoform and dibromomethane over the tropical western Pacific inferred from airborne in situ measurements. Atmospheric Chemistry and Physics, 2018, 18, 14787-14798. | 1.9 | 2 |
| 292 | Natural Formation of Chloro- and Bromoacetone in Salt Lakes of Western Australia. Atmosphere, 2019, 10, 663. | 1.0 | 2 |
| 293 | Deriving Tropospheric Transit Time Distributions Using Airborne Trace Gas Measurements: Uncertainty and Information Content. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD034358. | 1.2 | 2 |
| 294 | Observation of the Variations of Very Short-Lived Halocarbon Emissions in Tropical Coastal Marine Boundary Layer. Advanced Science Letters, 2015, 21, 144-149. | 0.2 | 2 |
| 295 | Dimethylated sulfur compounds in the Peruvian upwelling system. Biogeosciences, 2022, 19, 701-714. | 1.3 | 2 |
| 296 | Natural and Anthropogenic Organic Compounds in the Global Atmosphere. , 1994, , 313-381. | | 1 |
| 297 | Sampling Organic Compounds for Marine Pollution Studies. , 1986, , 209-230. | | 1 |
| 298 | Strategies and Approaches to Marine Pollution Research. , 1986, , 33-41. | | 1 |
| 299 | Cloud-scale modelling of the impact of deep convection on the fate of oceanic bromoform in the troposphere: a case study over the west coast of Borneo. Atmospheric Chemistry and Physics, 2021, 21, 16955-16984. | 1.9 | 1 |
| 300 | Long-range transport of Asian emissions to the West Pacific tropical tropopause layer. Journal of Atmospheric Chemistry, 0, , 1. | 1.4 | 1 |
| 301 | Phthalates and Related Plasticizers. , 1985, , 341-351. | | 0 |