

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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|--------------------|-------------------------|----------------|-----------------|
| 92 papers | 4,136 citations | 32 h-index | 63 g-index |
| 129 ext. papers | 4,844 ext. citations | 7.3 avg, IF | 5.53 L-index |

| # | Paper | IF | Citations |
|----|---|------|-----------|
| 92 | Contributions of stratospheric water vapor to decadal changes in the rate of global warming. <i>Science</i> , 2010 , 327, 1219-23 | 33.3 | 810 |
| 91 | Introduction to the SPARC Reanalysis Intercomparison Project (S-RIP) and overview of the reanalysis systems. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 1417-1452 | 6.8 | 201 |
| 90 | Stratospheric water vapor feedback. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 18087-91 | 11.5 | 167 |
| 89 | Global-scale black carbon profiles observed in the remote atmosphere and compared to models. <i>Geophysical Research Letters</i> , 2010 , 37, n/a-n/a | 4.9 | 159 |
| 88 | A missing source of aerosols in Antarctica Beyond long-range transport, phytoplankton, and photochemistry. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 1-20 | 6.8 | 156 |
| 87 | Evidence for a continuous decline in lower stratospheric ozone offsetting ozone layer recovery. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 1379-1394 | 6.8 | 143 |
| 86 | A Multidiagnostic Intercomparison of Tropical-Width Time Series Using Reanalyses and Satellite Observations. <i>Journal of Climate</i> , 2012 , 25, 1061-1078 | 4.4 | 139 |
| 85 | Stratospheric water vapor trends over Boulder, Colorado: Analysis of the 30 year Boulder record. <i>Journal of Geophysical Research</i> , 2011 , 116, | | 128 |
| 84 | Influence of Tropical Tropopause Layer Cooling on Atlantic Hurricane Activity. <i>Journal of Climate</i> , 2013 , 26, 2288-2301 | 4.4 | 111 |
| 83 | Re-examining tropical expansion. <i>Nature Climate Change</i> , 2018 , 8, 768-775 | 21.4 | 103 |
| 82 | Past changes in the vertical distribution of ozone [Part 3: Analysis and interpretation of trends. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 9965-9982 | 6.8 | 95 |
| 81 | The Stratospheric Water and Ozone Satellite Homogenized (SWOOSH) database: a long-term database for climate studies. <i>Earth System Science Data</i> , 2016 , 8, 461-490 | 10.5 | 90 |
| 80 | Black carbon lofts wildfire smoke high into the stratosphere to form a persistent plume. <i>Science</i> , 2019 , 365, 587-590 | 33.3 | 87 |
| 79 | Trends in tropospheric humidity from reanalysis systems. <i>Journal of Geophysical Research</i> , 2010 , 115, | | 75 |
| 78 | An update on ozone profile trends for the period 2000 to 2016. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 10675-10690 | 6.8 | 71 |
| 77 | The AquaVIT-1 intercomparison of atmospheric water vapor measurement techniques. <i>Atmospheric Measurement Techniques</i> , 2014 , 7, 3177-3213 | 4 | 68 |
| 76 | Climatology and interannual variability of dynamic variables in multiple reanalyses evaluated by the SPARC Reanalysis Intercomparison Project (S-RIP). <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 14593-14629 | 6.8 | 62 |

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|----|--|------|----|
| 75 | Variations of stratospheric water vapor over the past three decades. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 12,588-12,598 | 4.4 | 61 |
| 74 | In situ and lidar observations of tropopause subvisible cirrus clouds during TC4. <i>Journal of Geophysical Research</i> , 2010 , 115, | | 61 |
| 73 | Evidence for changes in stratospheric transport and mixing over the past three decades based on multiple data sets and tropical leaky pipe analysis. <i>Journal of Geophysical Research</i> , 2010 , 115, | | 59 |
| 72 | Recent Tropical Expansion: Natural Variability or Forced Response?. <i>Journal of Climate</i> , 2019 , 32, 1551-1571 | 4.4 | 56 |
| 71 | Improving stratospheric transport trend analysis based on SF6 and CO2 measurements. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 14,110-14,128 | 4.4 | 52 |
| 70 | Intercomparison of vertically resolved merged satellite ozone data sets: interannual variability and long-term trends. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 3021-3043 | 6.8 | 51 |
| 69 | Large anomalies in lower stratospheric water vapour and ice during the 2015-2016 El Niño. <i>Nature Geoscience</i> , 2017 , 10, 405-409 | 18.3 | 50 |
| 68 | Genetic Algorithms and Support Vector Machines for Time Series Classification 2002 , | | 49 |
| 67 | Assessment of upper tropospheric and stratospheric water vapor and ozone in reanalyses as part of S-RIP. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 12743-12778 | 6.8 | 47 |
| 66 | Revisiting the Relationship among Metrics of Tropical Expansion. <i>Journal of Climate</i> , 2018 , 31, 7565-7581 | 4.4 | 44 |
| 65 | Regional and Seasonal Characteristics of the Recent Expansion of the Tropics. <i>Journal of Climate</i> , 2018 , 31, 6839-6856 | 4.4 | 40 |
| 64 | Transport of ice into the stratosphere and the humidification of the stratosphere over the 21 century. <i>Geophysical Research Letters</i> , 2016 , 43, 2323-2329 | 4.9 | 37 |
| 63 | Contrasting upper and lower atmospheric metrics of tropical expansion in the Southern Hemisphere. <i>Geophysical Research Letters</i> , 2016 , 43, 10,496 | 4.9 | 36 |
| 62 | Measurement of Total Water with a Tunable Diode Laser Hygrometer: Inlet Analysis, Calibration Procedure, and Ice Water Content Determination. <i>Journal of Atmospheric and Oceanic Technology</i> , 2007 , 24, 463-475 | 2 | 35 |
| 61 | Climatology of long-range transported Asian dust along the West Coast of the United States. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 12,171-12,185 | 4.4 | 32 |
| 60 | Validation of Aura Microwave Limb Sounder stratospheric water vapor measurements by the NOAA frost point hygrometer. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 1612-1625 | 4.4 | 32 |
| 59 | Comparisons of in situ measurements of cirrus cloud ice water content. <i>Journal of Geophysical Research</i> , 2007 , 112, | | 32 |
| 58 | Temperature and tropopause characteristics from reanalyses data in the tropical tropopause layer. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 753-770 | 6.8 | 31 |

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|----|--|------|----|
| 57 | Stratospheric ozone trends for 1985–2018: sensitivity to recent large variability. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 12731-12748 | 6.8 | 30 |
| 56 | The changing width of Earth's tropical belt. <i>Physics Today</i> , 2014 , 67, 38-44 | 0.9 | 30 |
| 55 | Biases in southern hemisphere climate trends induced by coarsely specifying the temporal resolution of stratospheric ozone. <i>Geophysical Research Letters</i> , 2014 , 41, 8602-8610 | 4.9 | 28 |
| 54 | Hadley cell expansion in CMIP6 models. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 5249-5268 | 6.8 | 27 |
| 53 | Changes in the width of the tropical belt due to simple radiative forcing changes in the GeoMIP simulations. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 10083-10095 | 6.8 | 27 |
| 52 | Regional Widening of Tropical Overturning: Forced Change, Natural Variability, and Recent Trends. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019 , 124, 6104-6119 | 4.4 | 26 |
| 51 | Nonlinear response of tropical lower stratospheric temperature and water vapor to ENSO. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 4597-4615 | 6.8 | 26 |
| 50 | Interannual variability of tropical tropopause layer clouds. <i>Geophysical Research Letters</i> , 2013 , 40, 2862-2866 | 3.6 | 26 |
| 49 | The TropD software package (v1): standardized methods for calculating tropical-width diagnostics. <i>Geoscientific Model Development</i> , 2018 , 11, 4339-4357 | 6.3 | 26 |
| 48 | Recent divergences in stratospheric water vapor measurements by frost point hygrometers and the Aura Microwave Limb Sounder. <i>Atmospheric Measurement Techniques</i> , 2016 , 9, 4447-4457 | 4 | 25 |
| 47 | A decline in global CFC-11 emissions during 2018-2019. <i>Nature</i> , 2021 , 590, 428-432 | 50.4 | 24 |
| 46 | The potential impact of changes in lower stratospheric water vapour on stratospheric temperatures over the past 30 years. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2014 , 140, 2176-2185 | 6.4 | 21 |
| 45 | Comparison of airborne in situ measurements and Moderate Resolution Imaging Spectroradiometer (MODIS) retrievals of cirrus cloud optical and microphysical properties during the Midlatitude Cirrus Experiment (MidCiX). <i>Journal of Geophysical Research</i> , 2009 , 114, | | 21 |
| 44 | Estimating Source Region Influences on Black Carbon Abundance, Microphysics, and Radiative Effect Observed Over South Korea. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018 , 123, 13,527 | 4.4 | 20 |
| 43 | Directly measured heating rates of a tropical subvisible cirrus cloud. <i>Journal of Geophysical Research</i> , 2010 , 115, | | 19 |
| 42 | Reconciling Hadley Cell Expansion Trend Estimates in Reanalyses. <i>Geophysical Research Letters</i> , 2018 , 45, 11,439 | 4.9 | 17 |
| 41 | Evaluating stratospheric ozone and water vapour changes in CMIP6 models from 1850 to 2100. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 5015-5061 | 6.8 | 16 |
| 40 | Persistent Stratospheric Warming Due to 2019–2020 Australian Wildfire Smoke. <i>Geophysical Research Letters</i> , 2021 , 48, e2021GL092609 | 4.9 | 16 |

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|----|---|------|----|
| 39 | The Response of the Tropospheric Circulation to Water Vapor-like Forcings in the Stratosphere. <i>Journal of Climate</i> , 2011 , 24, 5713-5720 | 4.4 | 13 |
| 38 | FORTE observations of optical emissions from lightning: Optical properties and discrimination capability. <i>Journal of Geophysical Research</i> , 2002 , 107, ACL 9-1-ACL 9-5 | | 13 |
| 37 | The AquaVIT-1 intercomparison of atmospheric water vapor measurement techniques | | 13 |
| 36 | Designing the Climate Observing System of the Future. <i>Earth's Future</i> , 2018 , 6, 80-102 | 7.9 | 13 |
| 35 | Around the World in 84 Days. <i>Eos</i> , 2018 , 99, | 1.5 | 12 |
| 34 | Tropical Widening: From Global Variations to Regional Impacts. <i>Bulletin of the American Meteorological Society</i> , 2020 , 101, E897-E904 | 6.1 | 11 |
| 33 | Seasonal stratospheric ozone trends over 2000–2018 derived from several merged data sets. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 7035-7047 | 6.8 | 10 |
| 32 | CO signatures in subtropical convective clouds and anvils during CRYSTAL-FACE: An analysis of convective transport and entrainment using observations and a cloud-resolving model. <i>Journal of Geophysical Research</i> , 2006 , 111, | | 10 |
| 31 | Validation of SAGE III/ISS Solar Occultation Ozone Products With Correlative Satellite and Ground-Based Measurements. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020 , 125, e2020JD032430 | 4.4 | 9 |
| 30 | Influence of Arctic stratospheric ozone on surface climate in CCM1 models. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 9253-9268 | 6.8 | 9 |
| 29 | Evaluating stratospheric ozone and water vapor changes in CMIP6 models from 1850–100 2020 , | | 8 |
| 28 | A comprehensive assessment of tropical stratospheric upwelling in the specified dynamics Community Earth System Model 1.2.2 [Whole Atmosphere Community Climate Model (CESM (WACCM))]. <i>Geoscientific Model Development</i> , 2020 , 13, 717-734 | 6.3 | 8 |
| 27 | Large Uncertainty in the Relative Rates of Dynamical and Hydrological Tropical Expansion. <i>Geophysical Research Letters</i> , 2018 , 45, 1106-1113 | 4.9 | 8 |
| 26 | The representation of the TTL in a tropical channel version of the WRF model. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 2835-2848 | 4.4 | 8 |
| 25 | Low-ozone bubbles observed in the tropical tropopause layer during the TC4 campaign in 2007. <i>Journal of Geophysical Research</i> , 2010 , 115, | | 8 |
| 24 | Modeling the climate impact of Southern Hemisphere ozone depletion: The importance of the ozone data set. <i>Geophysical Research Letters</i> , 2014 , 41, 9033-9039 | 4.9 | 7 |
| 23 | An updated version of a gap-free monthly mean zonal mean ozone database. <i>Earth System Science Data</i> , 2018 , 10, 1473-1490 | 10.5 | 7 |
| 22 | The Stratospheric Water and Ozone Satellite Homogenized (SWOOSH) database: A long-term database for climate studies | | 7 |

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| 21 | Revisiting ozone measurements as an indicator of tropical width. <i>Progress in Earth and Planetary Science</i> , 2018 , 5, | 3.9 | 7 |
| 20 | On the stratospheric chemistry of midlatitude wildfire smoke.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022 , 119, e2117325119 | 11.5 | 7 |
| 19 | Zonal Asymmetry of the QBO Temperature Signal in the Tropical Tropopause Region. <i>Geophysical Research Letters</i> , 2020 , 47, e2020GL089533 | 4.9 | 6 |
| 18 | Validation of SAGE III/ISS Solar Water Vapor Data With Correlative Satellite and Balloon-Borne Measurements. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021 , 126, e2020JD033803 | 4.4 | 5 |
| 17 | Assessment of upper tropospheric and stratospheric water vapour and ozone in reanalyses as part of S-RIP 2017 , | | 4 |
| 16 | Near-Global Variability of Stratospheric Water Vapor Observed by SAGE III/ISS. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021 , 126, e2020JD034274 | 4.4 | 4 |
| 15 | Toward a Reanalysis of Stratospheric Ozone for Trend Studies: Assimilation of the Aura Microwave Limb Sounder and Ozone Mapping and Profiler Suite Limb Profiler Data. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020 , 125, e2019JD031892 | 4.4 | 4 |
| 14 | Climatology and Interannual Variability of Dynamic Variables in Multiple Reanalyses Evaluated by the SPARC Reanalysis Intercomparison Project (S-RIP) 2017 , | | 3 |
| 13 | Nonlinear response of tropical lower stratospheric temperature and water vapor to ENSO | | 3 |
| 12 | Intercomparison of vertically resolved merged satellite ozone data sets: interannual variability and long-term trends | | 3 |
| 11 | The TropD software package: Standardized methods for calculating Tropical Width Diagnostics | | 3 |
| 10 | Tropical Stratospheric Circulation and Ozone Coupled to Pacific Multi-Decadal Variability. <i>Geophysical Research Letters</i> , 2021 , 48, e2020GL092162 | 4.9 | 3 |
| 9 | Effect of deep convection on the tropical tropopause layer composition over the southwest Indian Ocean during austral summer. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 10565-10586 | 6.8 | 2 |
| 8 | Past changes in the vertical distribution of ozone [Part 3: Analysis and interpretation of trends | | 2 |
| 7 | Changes in Variability Associated with Climate Change 2013 , 249-271 | | 2 |
| 6 | Introduction to the SPARC Reanalysis Intercomparison Project (S-RIP) and overview of the reanalysis systems 2016 , | | 2 |
| 5 | Continuous decline in lower stratospheric ozone offsets ozone layer recovery 2017 , | | 1 |
| 4 | An update on ozone profile trends for the period 2000 to 2016 2017 , | | 1 |

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| 3 | Influence of the El Niño Southern Oscillation on entry stratospheric water vapor in coupled chemistry-ocean CCM1 and CMIP6 models. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 3725-3740 | 6.8 | 1 |
| 2 | A reel-down instrument system for profile measurements of water vapor, temperature, clouds, and aerosol beneath constant-altitude scientific balloons. <i>Atmospheric Measurement Techniques</i> , 2021 , 14, 2635-2648 | 4 | 1 |
| 1 | First Super-Pressure Balloon-Borne Fine-Vertical-Scale Profiles in the Upper TTL: Impacts of Atmospheric Waves on Cirrus Clouds and the QBO. <i>Geophysical Research Letters</i> , 2022 , 49, | 4.9 | 0 |