# Gerald E Nedoluha

List of Publications by Year
in descending order



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|---|---|---|---|
| 49 papers | 2,322 citations | 331670 21 h-index | 233421 45 g-index |
| 52 all docs | 52 docs citations | 52 times ranked | 1844 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Decreases in stratospheric water vapor after 2001: Links to changes in the tropical tropopause and the Brewer-Dobson circulation. Journal of Geophysical Research, 2006, 111, . | 3.3 | 273 |
| 2 | Validation of the Aura Microwave Limb Sounder middle atmosphere water vapor and nitrous oxide measurements. Journal of Geophysical Research, 2007, 112, . | 3.3 | 255 |
| 3 | Stratospheric water vapor increases over the past half-century. Geophysical Research Letters, 2001, 28, 1195-1198. | 4.0 | 246 |
| 4 | Interannual Changes of Stratospheric Water Vapor and Correlations with Tropical Tropopause Temperatures. Journals of the Atmospheric Sciences, 2004, 61, 2133-2148. | 1.7 | 232 |
| 5 | The Network for the Detection of Atmospheric Composition Change (NDACC): history, status and perspectives. Atmospheric Chemistry and Physics, 2018, 18, 4935-4964. | 4.9 | 162 |
| 6 | Unusual stratospheric transport and mixing during the 2002 Antarctic winter. Geophysical Research Letters, 2003, 30, . | 4.0 | 123 |
| 7 | Increases in middle atmospheric water vapor as observed by the Halogen Occultation Experiment and the ground-based Water Vapor Millimeter-Wave Spectrometer from 1991 to 1997. Journal of Geophysical Research, 1998, 103, 3531-3543. | 3.3 | 104 |
| 8 | Australian PyroCb Smoke Generates Synopticâ€Scale Stratospheric Anticyclones. Geophysical Research Letters, 2020, 47, e2020GL088101. | 4.0 | 92 |
| 9 | Ground-based measurements of water vapor in the middle atmosphere. Journal of Geophysical Research, 1995, 100, 2927. | 3.3 | 74 |
| 10 | An evaluation of trends in middle atmospheric water vapor as measured by HALOE, WVMS, and POAM. Journal of Geophysical Research, 2003, 108, n/a-n/a. | 3.3 | 51 |
| 11 | Measurements of water vapor in the middle atmosphere and implications for mesospheric transport. Journal of Geophysical Research, 1996, 101, 21183-21193. | 3.3 | 46 |
| 12 | POAM III measurements of dehydration in the Antarctic lower stratosphere. Geophysical Research Letters, 2000, 27, 1683-1686. | 4.0 | 44 |
| 13 | Measurements of Humidity in the Atmosphere and Validation Experiments (MOHAVE)-2009: overview of campaign operations and results. Atmospheric Measurement Techniques, 2011, 4, 2579-2605. | 3.1 | 41 |
| 14 | Changes in upper stratospheric CH4and NO2as measured by HALOE and implications for changes in transport. Geophysical Research Letters, 1998, 25, 987-990. | 4.0 | 38 |
| 15 | Diurnal variations of stratospheric ozone measured by ground-based microwave remote sensing at the Mauna Loa NDACC site: measurement validation and GEOSCCM model comparison. Atmospheric Chemistry and Physics, 2014, 14, 7255-7272. | 4.9 | 38 |
| 16 | Validation of groundâ€based microwave radiometers at 22 GHz for stratospheric and mesospheric water vapor. Journal of Geophysical Research, 2009, 114, . | 3.3 | 36 |
| 17 | A comparative study of mesospheric water vapor measurements from the ground-based water vapor millimeter-wave spectrometer and space-based instruments. Journal of Geophysical Research, 1997, 102, 16647-16661. | 3.3 | 30 |
| 18 | POAM III measurements of dehydration in the Antarctic and comparisons with the Arctic. Journal of Geophysical Research, 2002, 107, SOL 33-1. | 3.3 | 29 |

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|---|---|---|---|
| 19 | Middle Atmospheric Water Vapour Radiometer (MIAWARA): Validation and first results of the LAPBIAT Upper Tropospheric Lower Stratospheric Water Vapour Validation Project (LAUTLOS-WAVVAP) campaign. Journal of Geophysical Research, 2005, 110, . | 3.3 | 29 |
| 20 | Water vapor measurements in the mesosphere from Mauna Loa over solar cycle 23. Journal of Geophysical Research, 2009, 114, . | 3.3 | 29 |
| 21 | Polar Ozone and Aerosol Measurement III measurements of water vapor in the upper troposphere and lowermost stratosphere. Journal of Geophysical Research, 2002, 107, ACH 7-1-ACH 7-10. | 3.3 | 27 |
| 22 | A comparison of middle atmospheric water vapor as measured by WVMS, EOSâ€MLS, and HALOE. Journal of Geophysical Research, 2007, 112, . | 3.3 | 25 |
| 23 | Ground-based microwave measurements of water vapor from the midstratosphere to the mesosphere. Journal of Geophysical Research, 2011, 116, . | 3.3 | 25 |
| 24 | The SPARC water vapour assessment II: comparison of annual, semi-annual and quasi-biennial variations in stratospheric and lower mesospheric water vapour observed from satellites. Atmospheric Measurement Techniques, 2017, 10, 1111-1137. | 3.1 | 24 |
| 25 | Total hydrogen budget of the equatorial upper stratosphere. Journal of Geophysical Research, 2010, 115, . | 3.3 | 23 |
| 26 | POAM measurements of PSCs and water vapor in the 2002 Antarctic vortex. Geophysical Research Letters, 2003, 30, . | 4.0 | 20 |
| 27 | Reduced ozone loss at the upper edge of the Antarctic Ozone Hole during 2001â€“2004. Geophysical Research Letters, 2005, 32, . | 4.0 | 19 |
| 28 | The decrease in mid-stratospheric tropical ozone since 1991. Atmospheric Chemistry and Physics, 2015, 15, 4215-4224. | 4.9 | 18 |
| 29 | Measurements of middle atmospheric water vapor from low latitudes and midlatitudes in the northern hemisphere, 1995-1998. Journal of Geophysical Research, 1999, 104, 19257-19266. | 3.3 | 16 |
| 30 | The fourthâ€generation Water Vapor Millimeterâ€Wave Spectrometer. Radio Science, 2012, 47, . | 1.6 | 13 |
| 31 | Variations in middle atmospheric water vapor from 2004 to 2013. Journal of Geophysical Research D: Atmospheres, 2013, 118, 11,285. | 3.3 | 13 |
| 32 | The SPARC water vapor assessment II: intercomparison of satellite and ground-based microwave measurements. Atmospheric Chemistry and Physics, 2017, 17, 14543-14558. | 4.9 | 13 |
| 33 | The SPARC water vapour assessment II: comparison of stratospheric and lower mesospheric water vapour time series observed from satellites. Atmospheric Measurement Techniques, 2018, 11, 4435-4463. | 3.1 | 12 |
| 34 | The Antarctic ozone hole during 2020. Journal of Southern Hemisphere Earth Systems Science, 2022, 72, 19-37. | 1.8 | 11 |
| 35 | Ground-based measurements of ClO from Mauna Kea and intercomparisons with Aura and UARS MLS. Journal of Geophysical Research, 2011, 116, . | 3.3 | 10 |
| 36 | 20 years of ClO measurements in the Antarctic lower stratosphere. Atmospheric Chemistry and Physics, 2016, 16, 10725-10734. | 4.9 | 9 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Ground-based microwave observations of middle atmospheric water vapor in the 1990s. Geophysical Monograph Series, 2000, , 257-270. | 0.1 | 8 |
| 38 | Polar stratospheric clouds in the 1998â€“2003 Antarctic vortex: Microphysical modeling and Polar Ozone and Aerosol Measurement (POAM) III observations. Journal of Geophysical Research, 2006, 111, . | 3.3 | 8 |
| 39 | Validation of longâ€term measurements of water vapor from the midstratosphere to the mesosphere at two Network for the Detection of Atmospheric Composition Change sites. Journal of Geophysical Research D: Atmospheres, 2013, 118, 934-942. | 3.3 | 7 |
| 40 | Trajectory mapping of middle atmospheric water vapor by a mini network of NDACC instruments. Atmospheric Chemistry and Physics, 2015, 15, 9711-9730. | 4.9 | 7 |
| 41 | Study of the dependence of long-term stratospheric ozone trends on local solar time. Atmospheric Chemistry and Physics, 2020, 20, 8453-8471. | 4.9 | 7 |
| 42 | Microphysical modeling of southern polar dehydration during the 1998 winter and comparison with POAM III observations. Journal of Geophysical Research, 2006, 111, . | 3.3 | 6 |
| 43 | Re-analysis of ground-based microwave ClO measurements from Mauna Kea, 1992 to early 2012. Atmospheric Chemistry and Physics, 2013, 13, 8643-8650. | 4.9 | 6 |
| 44 | Antarctic dehydration 1998â€“2003: Polar Ozone and Aerosol Measurement III (POAM) measurements and Integrated Microphysics and Aerosol Chemistry on Trajectories (IMPACT) results with four meteorological models. Journal of Geophysical Research, 2007, 112, . | 3.3 | 5 |
| 45 | A comparison of radiosonde and GPS radio occultation measurements with meteorological temperature analyses in the Antarctic vortex, 1998â€“2004. Journal of Geophysical Research, 2007, 112, . | 3.3 | 4 |
| 46 | Persistence of upper stratospheric wintertime tracer variability into the Arctic spring and summer. Atmospheric Chemistry and Physics, 2016, 16, 7957-7967. | 4.9 | 3 |
| 47 | Comparison of Three High Resolution Real-Time Spectrometers for Microwave Ozone Profiling Instruments. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 10045-10056. | 4.9 | 2 |
| 48 | Comparison of three high resolution real-time spectrometers for microwave ozone profiling instruments. , 2020, , . | | 2 |
| 49 | Initial Results and Diurnal Variations Measured by a New Microwave Stratospheric ClO Instrument at Mauna Kea. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2020JD033097. | 3.3 | 1 |