

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
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52
all docs

52
docs citations

52
times ranked

1844
citing authors

#	ARTICLE	IF	CITATIONS
1	The Antarctic ozone hole during 2020. <i>Journal of Southern Hemisphere Earth Systems Science</i> , 2022, 72, 19-37.	1.8	11
2	Comparison of Three High Resolution Real-Time Spectrometers for Microwave Ozone Profiling Instruments. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2021, 14, 10045-10056.	4.9	2
3	Initial Results and Diurnal Variations Measured by a New Microwave Stratospheric ClO Instrument at Mauna Kea. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2020JD033097.	3.3	1
4	Australian PyroCb Smoke Generates Synoptic-scale Stratospheric Anticyclones. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088101.	4.0	92
5	Study of the dependence of long-term stratospheric ozone trends on local solar time. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 8453-8471.	4.9	7
6	Comparison of three high resolution real-time spectrometers for microwave ozone profiling instruments. , 2020, , .		2
7	The Network for the Detection of Atmospheric Composition Change (NDACC): history, status and perspectives. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 4935-4964.	4.9	162
8	The SPARC water vapour assessment II: comparison of stratospheric and lower mesospheric water vapour time series observed from satellites. <i>Atmospheric Measurement Techniques</i> , 2018, 11, 4435-4463.	3.1	12
9	The SPARC water vapor assessment II: intercomparison of satellite and ground-based microwave measurements. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 14543-14558.	4.9	13
10	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. <i>Atmospheric Measurement Techniques</i> , 2017, 10, 1111-1137.	3.1	24
11	20 years of ClO measurements in the Antarctic lower stratosphere. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 10725-10734.	4.9	9
12	Persistence of upper stratospheric wintertime tracer variability into the Arctic spring and summer. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 7957-7967.	4.9	3
13	The decrease in mid-stratospheric tropical ozone since 1991. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 4215-4224.	4.9	18
14	Trajectory mapping of middle atmospheric water vapor by a mini network of NDACC instruments. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 9711-9730.	4.9	7
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. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 7255-7272.	4.9	38
16	Re-analysis of ground-based microwave ClO measurements from Mauna Kea, 1992 to early 2012. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 8643-8650.	4.9	6
17	Variations in middle atmospheric water vapor from 2004 to 2013. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 11,285.	3.3	13
18	Validation of long-term measurements of water vapor from the midstratosphere to the mesosphere at two Network for the Detection of Atmospheric Composition Change sites. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 934-942.	3.3	7

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19	The fourth-generation Water Vapor Millimeter-Wave Spectrometer. <i>Radio Science</i> , 2012, 47, .	1.6	13
20	Ground-based microwave measurements of water vapor from the midstratosphere to the mesosphere. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	25
21	Ground-based measurements of ClO from Mauna Kea and intercomparisons with Aura and UARS MLS. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	10
22	Measurements of Humidity in the Atmosphere and Validation Experiments (MOHAVE)-2009: overview of campaign operations and results. <i>Atmospheric Measurement Techniques</i> , 2011, 4, 2579-2605.	3.1	41
23	Total hydrogen budget of the equatorial upper stratosphere. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	23
24	Validation of ground-based microwave radiometers at 22 GHz for stratospheric and mesospheric water vapor. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	36
25	Water vapor measurements in the mesosphere from Mauna Loa over solar cycle 23. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	29
26	Antarctic dehydration 1998-2003: Polar Ozone and Aerosol Measurement III (POAM) measurements and Integrated Microphysics and Aerosol Chemistry on Trajectories (IMPACT) results with four meteorological models. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	5
27	Validation of the Aura Microwave Limb Sounder middle atmosphere water vapor and nitrous oxide measurements. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	255
28	A comparison of middle atmospheric water vapor as measured by WVMS, EOS-MLS, and HALOE. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	25
29	A comparison of radiosonde and GPS radio occultation measurements with meteorological temperature analyses in the Antarctic vortex, 1998-2004. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	4
30	Microphysical modeling of southern polar dehydration during the 1998 winter and comparison with POAM III observations. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	6
31	Decreases in stratospheric water vapor after 2001: Links to changes in the tropical tropopause and the Brewer-Dobson circulation. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	273
32	Polar stratospheric clouds in the 1998-2003 Antarctic vortex: Microphysical modeling and Polar Ozone and Aerosol Measurement (POAM) III observations. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	8
33	Middle Atmospheric Water Vapour Radiometer (MIAWARA): Validation and first results of the LAPBIAT Upper Tropospheric Lower Stratospheric Water Vapour Validation Project (LAUTLOS-WAVVAP) campaign. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	29
34	Reduced ozone loss at the upper edge of the Antarctic Ozone Hole during 2001-2004. <i>Geophysical Research Letters</i> , 2005, 32, .	4.0	19
35	Interannual Changes of Stratospheric Water Vapor and Correlations with Tropical Tropopause Temperatures. <i>Journals of the Atmospheric Sciences</i> , 2004, 61, 2133-2148.	1.7	232
36	An evaluation of trends in middle atmospheric water vapor as measured by HALOE, WVMS, and POAM. <i>Journal of Geophysical Research</i> , 2003, 108, n/a-n/a.	3.3	51

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37	Unusual stratospheric transport and mixing during the 2002 Antarctic winter. Geophysical Research Letters, 2003, 30, .	4.0	123
38	POAM measurements of PSCs and water vapor in the 2002 Antarctic vortex. Geophysical Research Letters, 2003, 30, .	4.0	20
39	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
40	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
41	Stratospheric water vapor increases over the past half-century. Geophysical Research Letters, 2001, 28, 1195-1198.	4.0	246
42	Ground-based microwave observations of middle atmospheric water vapor in the 1990s. Geophysical Monograph Series, 2000, , 257-270.	0.1	8
43	POAM III measurements of dehydration in the Antarctic lower stratosphere. Geophysical Research Letters, 2000, 27, 1683-1686.	4.0	44
44	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
45	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
46	Changes in upper stratospheric CH ₄ and NO ₂ as measured by HALOE and implications for changes in transport. Geophysical Research Letters, 1998, 25, 987-990.	4.0	38
47	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
48	Measurements of water vapor in the middle atmosphere and implications for mesospheric transport. Journal of Geophysical Research, 1996, 101, 21183-21193.	3.3	46
49	Ground-based measurements of water vapor in the middle atmosphere. Journal of Geophysical Research, 1995, 100, 2927.	3.3	74