

Jacquelyn C Witte

List of Publications by Year in descending order

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61
papers

4,608
citations

87723

38
h-index

128067

60
g-index

78
all docs

78
docs citations

78
times ranked

3206
citing authors

#	ARTICLE	IF	CITATIONS
1	Southern Hemisphere Additional Ozonesondes (SHADOZ) 1998â€“2000 tropical ozone climatology 1. Comparison with Total Ozone Mapping Spectrometer (TOMS) and ground-based measurements. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	329
2	Assessment of the performance of ECCâ€œozonesondes under quasiâ€œflight conditions in the environmental simulation chamber: Insights from the Juelich Ozone Sonde Intercomparison Experiment (JOSIE). <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	282
3	Tropical Tropospheric Ozone and Biomass Burning. <i>Science</i> , 2001, 291, 2128-2132.	6.0	202
4	Southern Hemisphere Additional Ozonesondes (SHADOZ) 1998â€“2000 tropical ozone climatology 2. Tropospheric variability and the zonal wave-one. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	188
5	Validation of Tropospheric Emission Spectrometer (TES) nadir ozone profiles using ozonesonde measurements. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	181
6	A global climatology of tropospheric and stratospheric ozone derived from Aura OMI and MLS measurements. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 9237-9251.	1.9	168
7	Alaskan and Canadian forest fires exacerbate ozone pollution over Houston, Texas, on 19 and 20 July 2004. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	138
8	Validation of ozone measurements from the Atmospheric Chemistry Experiment (ACE). <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 287-343.	1.9	134
9	Satellite observations of changes in air quality during the 2008 Beijing Olympics and Paralympics. <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	120
10	Tropical ozone as an indicator of deep convection. <i>Journal of Geophysical Research</i> , 2002, 107, ACH 13-1.	3.3	119
11	Atmospheric comparison of electrochemical cell ozonesondes from different manufacturers, and with different cathode solution strengths: The Balloon Experiment on Standards for Ozonesondes. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	119
12	Trends in global tropospheric ozone inferred from a composite record of TOMS/OMI/MLS/OMPS satellite measurements and the MERRA-2 GMI simulation. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 3257-3269.	1.9	119
13	Southern Hemisphere Additional Ozonesondes (SHADOZ) 1998â€“2004 tropical ozone climatology: 3. Instrumentation, station-to-station variability, and evaluation with simulated flight profiles. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	115
14	A tropical Atlantic Paradox: Shipboard and satellite views of a tropospheric ozone maximum and wave-one in January-February 1999. <i>Geophysical Research Letters</i> , 2000, 27, 3317-3320.	1.5	113
15	Large upper tropospheric ozone enhancements above midlatitude North America during summer: In situ evidence from the IONS and MOZAIC ozone measurement network. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	113
16	NASA A-Train and Terra observations of the 2010 Russian wildfires. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 9287-9301.	1.9	104
17	A trajectoryâ€œbased estimate of the tropospheric ozone column using the residual method. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	93
18	Trends and variability in surface ozone over the United States. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 9020-9042.	1.2	90

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19	Estimating the summertime tropospheric ozone distribution over North America through assimilation of observations from the Tropospheric Emission Spectrometer. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	87
20	Intercontinental Chemical Transport Experiment Ozonesonde Network Study (IONS) 2004: 1. Summertime upper troposphere/lower stratosphere ozone over northeastern North America. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	82
21	Evidence for a recurring eastern North America upper tropospheric ozone maximum during summer. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	81
22	Intercontinental Chemical Transport Experiment Ozonesonde Network Study (IONS) 2004: 2. Tropospheric ozone budgets and variability over northeastern North America. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	77
23	Assimilated ozone from EOSâ€œAura: Evaluation of the tropopause region and tropospheric columns. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	75
24	Regional levels of ozone in the troposphere over eastern Mediterranean. <i>Journal of Geophysical Research</i> , 2002, 107, PAU 7-1.	3.3	74
25	First reprocessing of Southern Hemisphere ADditional OZonesondes (SHADOZ) profile records (1998â€œ2015): 1. Methodology and evaluation. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 6611-6636.	1.2	74
26	Tropospheric ozone increases over the southern Africa region: bellwether for rapid growth in Southern Hemisphere pollution?. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 9855-9869.	1.9	71
27	Seasonal cycles of O ₃ , CO, and convective outflow at the tropical tropopause. <i>Geophysical Research Letters</i> , 2006, 33, .	1.5	68
28	Tropospheric ozone sources and wave activity over Mexico City and Houston during MILAGRO/Intercontinental Transport Experiment (INTEX-B) Ozonesonde Network Study, 2006 (IONS-06). <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 5113-5125.	1.9	63
29	Strategic ozone sounding networks: Review of design and accomplishments. <i>Atmospheric Environment</i> , 2011, 45, 2145-2163.	1.9	63
30	First Reprocessing of Southern Hemisphere Additional Ozonesondes (SHADOZ) Ozone Profiles (1998â€œ2016): 2. Comparisons With Satellites and Groundâ€œBased Instruments. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 13,000.	1.2	61
31	Southern Hemisphere Additional Ozonesondes (SHADOZ) ozone climatology (2005â€œ2009): Tropospheric and tropical tropopause layer (TTL) profiles with comparisons to OMIâ€œbased ozone products. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	58
32	Homogenizing and estimating the uncertainty in NOAA's long-term vertical ozone profile records measured with the electrochemical concentration cell ozonesonde. <i>Atmospheric Measurement Techniques</i> , 2018, 11, 3661-3687.	1.2	56
33	Enhanced view of the â€œtropical Atlantic ozone paradoxâ€œand â€œzonal wave oneâ€œfrom the in situ MOZAIC and SHADOZ data. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	54
34	Validation of 10-year SAO OMI Ozone Profile (PROFOZ) product using ozonesonde observations. <i>Atmospheric Measurement Techniques</i> , 2017, 10, 2455-2475.	1.2	53
35	The unique OMI HCHO/NO ₂ feature during the 2008 Beijing Olympics: Implications for ozone production sensitivity. <i>Atmospheric Environment</i> , 2011, 45, 3103-3111.	1.9	50
36	Impact of the assimilation of ozone from the Tropospheric Emission Spectrometer on surface ozone across North America. <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	49

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37	The global structure of upper troposphere–lower stratosphere ozone in GEOS-5: A multiyear assimilation of EOS Aura data. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 2013-2036.	1.2	46
38	First Reprocessing of Southern Hemisphere Additional OZonesondes Profile Records: 3. Uncertainty in Ozone Profile and Total Column. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 3243-3268.	1.2	46
39	The governing processes and timescales of stratosphere-to-troposphere transport and its contribution to ozone in the Arctic troposphere. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 3011-3025.	1.9	45
40	Trace gas transport and scavenging in PEM-Tropics B South Pacific Convergence Zone convection. <i>Journal of Geophysical Research</i> , 2001, 106, 32591-32607.	3.3	41
41	Comparison of Canadian air quality forecast models with tropospheric ozone profile measurements above midlatitude North America during the IONS/ICARTT campaign: Evidence for stratospheric input. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	40
42	Assessment and applications of NASA ozone data products derived from Aura OMI/MLS satellite measurements in context of the GMI chemical transport model. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 5671-5699.	1.2	40
43	Temperature dependence of factors controlling isoprene emissions. <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	36
44	Initial validation of ozone measurements from the High Resolution Dynamics Limb Sounder. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	31
45	The Quasi-biennial Oscillation and annual variations in tropical ozone from SHADOZ and HALOE. <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 3929-3936.	1.9	31
46	Global-scale distribution of ozone in the remote troposphere from the ATom and HIPPO airborne field missions. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 10611-10635.	1.9	31
47	Convective lofting links Indian Ocean air pollution to paradoxical South Atlantic ozone maxima. <i>Geophysical Research Letters</i> , 2004, 31, n/a-n/a.	1.5	30
48	Improving ECC Ozone Data Quality: Assessment of Current Methods and Outstanding Issues. <i>Earth and Space Science</i> , 2021, 8, e2019EA000914.	1.1	30
49	SHADOZ—A TROPICAL OZONESONDE—RADIOSONDE NETWORK FOR THE ATMOSPHERIC COMMUNITY. <i>Bulletin of the American Meteorological Society</i> , 2004, 85, 1549-1564.	1.7	29
50	Gravity and Rossby wave signatures in the tropical troposphere and lower stratosphere based on Southern Hemisphere Additional Ozonesondes (SHADOZ), 1998–2007. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	29
51	Regional and Seasonal Trends in Tropical Ozone From SHADOZ Profiles: Reference for Models and Satellite Products. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2021JD034691.	1.2	28
52	Ozone Data Quality Assurance: The JOSIE—SHADOZ (2017) Experience. <i>Bulletin of the American Meteorological Society</i> , 2019, 100, 155-171.	1.7	23
53	Characterizing Global Ozone Profile Variability From Surface to the UT/LS With a Clustering Technique and MERRA-2 Reanalysis. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 6213-6229.	1.2	21
54	Linking horizontal and vertical transports of biomass fire emissions to the Tropical Atlantic Ozone Paradox during the Northern Hemisphere winter season: 1999. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	20

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55	A Post-2013 Dropoff in Total Ozone at a Third of Global Ozone-sonde Stations: Electrochemical Concentration Cell Instrument Artifacts?. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL086791.	1.5	19
56	Lusaka, Zambia, during SAFARI-2000: Convergence of local and imported ozone pollution. <i>Geophysical Research Letters</i> , 2002, 29, 37-1-37-4.	1.5	16
57	A new method to correct the electrochemical concentration cell (ECC) ozone-sonde time response and its implications for background current and pump efficiency. <i>Atmospheric Measurement Techniques</i> , 2020, 13, 5667-5680.	1.2	15
58	TROPOMI tropospheric ozone column data: geophysical assessment and comparison to ozone sondes, GOME-2B and OMI. <i>Atmospheric Measurement Techniques</i> , 2021, 14, 7405-7433.	1.2	14
59	The NASA Wallops Flight Facility Digital Ozone-sonde Record: Reprocessing, Uncertainties, and Dual Launches. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 3565-3582.	1.2	9
60	Large-scale enhancements in NO/NO _y from subsonic aircraft emissions: Comparisons with observations. <i>Journal of Geophysical Research</i> , 1997, 102, 28169-28175.	3.3	5
61	Cause of a Lower-Tropospheric High-Ozone Layer in Spring Over Hanoi. <i>Journal of Geophysical Research D: Atmospheres</i> , 2022, 127, .	1.2	0