

# Krzysztof Wargan

## List of Publications by Year in Descending Order

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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.

36  
papers

3,937  
citations

19  
h-index

57  
g-index

57  
ext. papers

5,043  
ext. citations

5.1  
avg. IF

4.73  
L-index

#	Paper	IF	Citations
36	Optimized Umkehr profile algorithm for ozone trend analyses. <i>Atmospheric Measurement Techniques</i> , <b>2022</b> , 15, 1849-1870	4	1
35	A Moments View of Climatology and Variability of the Asian Summer Monsoon Anticyclone. <i>Journal of Climate</i> , <b>2021</b> , 34, 7821-7841	4.4	5
34	Mechanisms Linked to Recent Ozone Decreases in the Northern Hemisphere Lower Stratosphere. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2020</b> , 125, e2019JD031631	4.4	10
33	Temperature and tropopause characteristics from reanalyses data in the tropical tropopause layer. <i>Atmospheric Chemistry and Physics</i> , <b>2020</b> , 20, 753-770	6.8	31
32	The Anomalous 2019 Antarctic Ozone Hole in the GEOS Constituent Data Assimilation System With MLS Observations. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2020</b> , 125, e2020JD033335	4.4	19
31	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> , <b>2020</b> , 125, e2019JD031892	4.4	4
30	Reanalysis intercomparisons of stratospheric polar processing diagnostics. <i>Atmospheric Chemistry and Physics</i> , <b>2018</b> , 18, 13547-13579	6.8	19
29	Recent decline in extratropical lower stratospheric ozone attributed to circulation changes. <i>Geophysical Research Letters</i> , <b>2018</b> , 45, 5166-5176	4.9	45
28	The Ozone Monitoring Instrument: overview of 14 years in space. <i>Atmospheric Chemistry and Physics</i> , <b>2018</b> , 18, 5699-5745	6.8	163
27	Evaluation of the Ozone Fields in NASA's MERRA-2 Reanalysis. <i>Journal of Climate</i> , <b>2017</b> , 30, 2961-2988	4.4	79
26	The Modern-Era Retrospective Analysis for Research and Applications, Version 2 (MERRA-2). <i>Journal of Climate</i> , <b>2017</b> , Volume 30, 5419-5454	4.4	2815
25	The Ozone Monitoring Instrument: Overview of twelve years in space <b>2017</b> ,		2
24	Stratospheric intrusion-influenced ozone air quality exceedances investigated in the NASA MERRA-2 Reanalysis. <i>Geophysical Research Letters</i> , <b>2017</b> , 44, 10691-10701	4.9	34
23	Multi-year composite view of ozone enhancements and stratosphere-to-troposphere transport in dry intrusions of northern hemisphere extratropical cyclones. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2017</b> , 122, 13436-13457	4.4	16
22	Reanalysis comparisons of upper tropospheric/lower stratospheric jets and multiple tropopauses. <i>Atmospheric Chemistry and Physics</i> , <b>2017</b> , 17, 11541-11566	6.8	18
21	Assessment of upper tropospheric and stratospheric water vapor and ozone in reanalyses as part of S-RIP. <i>Atmospheric Chemistry and Physics</i> , <b>2017</b> , 17, 12743-12778	6.8	47
20	Introduction to the SPARC Reanalysis Intercomparison Project (S-RIP) and overview of the reanalysis systems. <i>Atmospheric Chemistry and Physics</i> , <b>2017</b> , 17, 1417-1452	6.8	201

19	Causes of interannual variability over the southern hemispheric tropospheric ozone maximum. <i>Atmospheric Chemistry and Physics</i> , <b>2017</b> , 17, 3279-3299	6.8	11
18	Chemical Mechanisms and Their Applications in the Goddard Earth Observing System (GEOS) Earth System Model. <i>Journal of Advances in Modeling Earth Systems</i> , <b>2017</b> , 9, 3019-3044	7.1	32
17	Assessment of upper tropospheric and stratospheric water vapour and ozone in reanalyses as part of S-RIP <b>2017</b> ,		4
16	Tropospheric column ozone response to ENSO in GEOS-5 assimilation of OMI and MLS ozone data. <i>Atmospheric Chemistry and Physics</i> , <b>2016</b> , 16, 7091-7103	6.8	19
15	Structure and Dynamics of the Quasi-Biennial Oscillation in MERRA-2. <i>Journal of Climate</i> , <b>2016</b> , 29, 5339-5354	7.1	60
14	Strengthening of the Tropopause Inversion Layer during the 2009 Sudden Stratospheric Warming: A MERRA-2 Study. <i>Journals of the Atmospheric Sciences</i> , <b>2016</b> , 73, 1871-1887	2.1	20
13	Frequency and Impact of Summertime Stratospheric Intrusions over Maryland during DISCOVER-AQ (2011): New Evidence from NASA's GEOS-5 Simulations. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2016</b> , Volume 121, 3687-3706	4.4	40
12	Introduction to the SPARC Reanalysis Intercomparison Project (S-RIP) and overview of the reanalysis systems <b>2016</b> ,		2
11	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> , <b>2015</b> , 120, 2013-2036	4.4	39
10	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> , <b>2014</b> , 119, 5671-5699	4.4	34
9	On the inclusion of Limb Infrared Monitor of the Stratosphere version 6 ozone in a data assimilation system. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2013</b> , 118, 7982-8000	4.4	6
8	An intercomparison of tropospheric ozone retrievals derived from two Aura instruments and measurements in western North America in 2006. <i>Journal of Geophysical Research</i> , <b>2011</b> , 116,		12
7	Spatial structure of assimilated ozone in the upper troposphere and lower stratosphere. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115,		12
6	Assimilated ozone from EOS-Aura: Evaluation of the tropopause region and tropospheric columns. <i>Journal of Geophysical Research</i> , <b>2008</b> , 113,		65
5	Assimilation of ozone profiles from the Improved Limb Atmospheric Spectrometer-II: Study of Antarctic ozone. <i>Journal of Geophysical Research</i> , <b>2006</b> , 111,		10
4	Assimilation of ozone data from the Michelson Interferometer for Passive Atmospheric Sounding. <i>Quarterly Journal of the Royal Meteorological Society</i> , <b>2005</b> , 131, 2713-2734	6.4	28
3	Antarctic stratospheric ozone from the assimilation of occultation data. <i>Geophysical Research Letters</i> , <b>2004</b> , 31,	4.9	19
2	Regional and Seasonal Trends in Tropical Ozone from SHADOZ Profiles: Reference for Models and Satellite Products 9 October 2021. <i>Journal of Geophysical Research D: Atmospheres</i> , e2021JD034691	4.4	8

1 What's in a name? On the use and significance of the term "polar vortex" *Geophysical Research Letters*,

4.9 2