Krzysztof Wargan

List of Publications by Citations

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	The Modern-Era Retrospective Analysis for Research and Applications, Version 2 (MERRA-2). *Journal of Climate*, **2017**, Volume 30, 5419-5454	4.4	2815
35	Introduction to the SPARC Reanalysis Intercomparison Project (S-RIP) and overview of the reanalysis systems. *Atmospheric Chemistry and Physics*, **2017**, 17, 1417-1452	6.8	201
34	The Ozone Monitoring Instrument: overview of 14 years in space. *Atmospheric Chemistry and Physics*, **2018**, 18, 5699-5745	6.8	163
33	Evaluation of the Ozone Fields in NASA's MERRA-2 Reanalysis. *Journal of Climate*, **2017**, 30, 2961-2988	4.4	79
32	Assimilated ozone from EOS-Aura: Evaluation of the tropopause region and tropospheric columns. *Journal of Geophysical Research*, **2008**, 113,		65
31	Structure and Dynamics of the Quasi-Biennial Oscillation in MERRA-2. *Journal of Climate*, **2016**, 29, 5339-5354	4.4	60
30	Assessment of upper tropospheric and stratospheric water vapor and ozone in reanalyses as part of S-RIP. *Atmospheric Chemistry and Physics*, **2017**, 17, 12743-12778	6.8	47
29	Recent decline in extratropical lower stratospheric ozone attributed to circulation changes. *Geophysical Research Letters*, **2018**, 45, 5166-5176	4.9	45
28	Frequency and Impact of Summertime Stratospheric Intrusions over Maryland during DISCOVER-AQ (2011): New Evidence from NASA's GEOS-5 Simulations. *Journal of Geophysical Research D: Atmospheres*, **2016**, Volume 121, 3687-3706	4.4	40
27	The global structure of upper troposphere-lower stratosphere ozone in GEOS-5: A multiyear assimilation of EOS Aura data. *Journal of Geophysical Research D: Atmospheres*, **2015**, 120, 2013-2036	4.4	39
26	Stratospheric intrusion-influenced ozone air quality exceedances investigated in the NASA MERRA-2 Reanalysis. *Geophysical Research Letters*, **2017**, 44, 10691-10701	4.9	34
25	Assessment and applications of NASA ozone data products derived from Aura OMI/MLS satellite measurements in context of the GMI chemical transport model. *Journal of Geophysical Research D: Atmospheres*, **2014**, 119, 5671-5699	4.4	34
24	Chemical Mechanisms and Their Applications in the Goddard Earth Observing System (GEOS) Earth System Model. *Journal of Advances in Modeling Earth Systems*, **2017**, 9, 3019-3044	7.1	32
23	Temperature and tropopause characteristics from reanalyses data in the tropical tropopause layer. *Atmospheric Chemistry and Physics*, **2020**, 20, 753-770	6.8	31
22	Assimilation of ozone data from the Michelson Interferometer for Passive Atmospheric Sounding. *Quarterly Journal of the Royal Meteorological Society*, **2005**, 131, 2713-2734	6.4	28
21	Strengthening of the Tropopause Inversion Layer during the 2009 Sudden Stratospheric Warming: A MERRA-2 Study. *Journals of the Atmospheric Sciences*, **2016**, 73, 1871-1887	2.1	20
20	Tropospheric column ozone response to ENSO in GEOS-5 assimilation of OMI and MLS ozone data. *Atmospheric Chemistry and Physics*, **2016**, 16, 7091-7103	6.8	19

19	Antarctic stratospheric ozone from the assimilation of occultation data. *Geophysical Research Letters*, **2004**, 31,	4.9	19
18	The Anomalous 2019 Antarctic Ozone Hole in the GEOS Constituent Data Assimilation System With MLS Observations. *Journal of Geophysical Research D: Atmospheres*, **2020**, 125, e2020JD033335	4.4	19
17	Reanalysis intercomparisons of stratospheric polar processing diagnostics. *Atmospheric Chemistry and Physics*, **2018**, 18, 13547-13579	6.8	19
16	Reanalysis comparisons of upper tropospheric/lower stratospheric jets and multiple tropopauses. *Atmospheric Chemistry and Physics*, **2017**, 17, 11541-11566	6.8	18
15	Multi-year composite view of ozone enhancements and stratosphere-to-troposphere transport in dry intrusions of northern hemisphere extratropical cyclones. *Journal of Geophysical Research D: Atmospheres*, **2017**, 122, 13436-13457	4.4	16
14	An intercomparison of tropospheric ozone retrievals derived from two Aura instruments and measurements in western North America in 2006. *Journal of Geophysical Research*, **2011**, 116,		12
13	Spatial structure of assimilated ozone in the upper troposphere and lower stratosphere. *Journal of Geophysical Research*, **2010**, 115,		12
12	Causes of interannual variability over the southern hemispheric tropospheric ozone maximum. *Atmospheric Chemistry and Physics*, **2017**, 17, 3279-3299	6.8	11
11	Mechanisms Linked to Recent Ozone Decreases in the Northern Hemisphere Lower Stratosphere. *Journal of Geophysical Research D: Atmospheres*, **2020**, 125, e2019JD031631	4.4	10
10	Assimilation of ozone profiles from the Improved Limb Atmospheric Spectrometer-II: Study of Antarctic ozone. *Journal of Geophysical Research*, **2006**, 111,		10
9	Regional and Seasonal Trends in Tropical Ozone from SHADOZ Profiles: Reference for Models and Satellite Products 9 October 2021. *Journal of Geophysical Research D: Atmospheres*,e2021JD034691	4.4	8
8	On the inclusion of Limb Infrared Monitor of the Stratosphere version 6 ozone in a data assimilation system. *Journal of Geophysical Research D: Atmospheres*, **2013**, 118, 7982-8000	4.4	6
7	A Moments View of Climatology and Variability of the Asian Summer Monsoon Anticyclone. *Journal of Climate*, **2021**, 34, 7821-7841	4.4	5
6	Assessment of upper tropospheric and stratospheric water vapour and ozone in reanalyses as part of S-RIP **2017**,		4
5	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. *Journal of Geophysical Research D: Atmospheres*, **2020**, 125, e2019JD031892	4.4	4
4	The Ozone Monitoring Instrument: Overview of twelve years in space **2017**,		2
3	Introduction to the SPARC Reanalysis Intercomparison Project (S-RIP) and overview of the reanalysis systems **2016**,		2
2	What□s in a name? On the use and significance of the term □polar vortex□ *Geophysical Research Letters*,	4.9	2

1 Optimized Umkehr profile algorithm for ozone trend analyses. *Atmospheric Measurement Techniques*, **2022**, 15, 1849-1870 4 1