

# Zachary D Lawrence

## List of Publications by Citations

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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.

20 papers	468 citations	12 h-index	21 g-index
23 ext. papers	591 ext. citations	5.3 avg, IF	4.32 L-index

#	Paper	IF	Citations
20	The major stratospheric final warming in 2016: dispersal of vortex air and termination of Arctic chemical ozone loss. <i>Atmospheric Chemistry and Physics</i> , <b>2016</b> , 16, 15371-15396	6.8	80
19	The Remarkably Strong Arctic Stratospheric Polar Vortex of Winter 2020: Links to Record-Breaking Arctic Oscillation and Ozone Loss. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2020</b> , 125, e2020JD033271	4.4	69
18	Record-Low Arctic Stratospheric Ozone in 2020: MLS Observations of Chemical Processes and Comparisons With Previous Extreme Winters. <i>Geophysical Research Letters</i> , <b>2020</b> , 47, e2020GL089063	4.9	63
17	A minor sudden stratospheric warming with a major impact: Transport and polar processing in the 2014/2015 Arctic winter. <i>Geophysical Research Letters</i> , <b>2015</b> , 42, 7808-7816	4.9	41
16	Polar processing in a split vortex: Arctic ozone loss in early winter 2012/2013. <i>Atmospheric Chemistry and Physics</i> , <b>2015</b> , 15, 5381-5403	6.8	33
15	Comparisons of polar processing diagnostics from 34 years of the ERA-Interim and MERRA reanalyses. <i>Atmospheric Chemistry and Physics</i> , <b>2015</b> , 15, 3873-3892	6.8	28
14	The 2019 Southern Hemisphere Stratospheric Polar Vortex Weakening and Its Impacts. <i>Bulletin of the American Meteorological Society</i> , <b>2021</b> , 102, E1150-E1171	6.1	21
13	Mechanisms Governing Interannual Variability of Stratosphere-to-Troposphere Ozone Transport. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2018</b> , 123, 234-260	4.4	19
12	Characterizing Stratospheric Polar Vortex Variability With Computer Vision Techniques. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2018</b> , 123, 1510-1535	4.4	19
11	Reanalysis intercomparisons of stratospheric polar processing diagnostics. <i>Atmospheric Chemistry and Physics</i> , <b>2018</b> , 18, 13547-13579	6.8	19
10	Reanalysis comparisons of upper tropospheric/lower stratospheric jets and multiple tropopause. <i>Atmospheric Chemistry and Physics</i> , <b>2017</b> , 17, 11541-11566	6.8	18
9	Differences between the 2018 and 2019 stratospheric polar vortex split events. <i>Quarterly Journal of the Royal Meteorological Society</i> , <b>2020</b> , 146, 3503-3521	6.4	17
8	Seasonal Forecasts of the Exceptional Northern Hemisphere Winter of 2020. <i>Geophysical Research Letters</i> , <b>2020</b> , 47, e2020GL090328	4.9	12
7	Does the Arctic Stratospheric Polar Vortex Exhibit Signs of Preconditioning Prior to Sudden Stratospheric Warmings?. <i>Journals of the Atmospheric Sciences</i> , <b>2020</b> , 77, 611-632	2.1	11
6	Signature of a tropical Pacific cyclone in the composition of the upper troposphere over Socorro, NM. <i>Geophysical Research Letters</i> , <b>2015</b> , 42, 9530-9537	4.9	7
5	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
4	Reanalysis intercomparison of potential vorticity and potential-vorticity-based diagnostics. <i>Atmospheric Chemistry and Physics</i> , <b>2021</b> , 21, 5355-5376	6.8	2

3	The major stratospheric final warming in 2016: Dispersal of vortex air and termination of Arctic chemical ozone loss <b>2016</b> ,		2
2	What's in a name? On the use and significance of the term 'polar vortex' <i>Geophysical Research Letters</i> ,	4.9	2
1	Seasonal and regional signatures of ENSO in upper tropospheric jet characteristics from reanalyses. <i>Journal of Climate</i> , <b>2021</b> , 1	4.4	0