

Sean Davis

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.

92 papers	4,136 citations	32 h-index	63 g-index
129 ext. papers	4,844 ext. citations	7.3 avg, IF	5.53 L-index

#	Paper	IF	Citations
92	On the stratospheric chemistry of midlatitude wildfire smoke.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022 , 119, e2117325119	11.5	7
91	First Super-Pressure Balloon-Borne Fine-Vertical-Scale Profiles in the Upper TTL: Impacts of Atmospheric Waves on Cirrus Clouds and the QBO. <i>Geophysical Research Letters</i> , 2022 , 49,	4.9	0
90	Evaluating stratospheric ozone and water vapour changes in CMIP6 models from 1850 to 2100. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 5015-5061	6.8	16
89	Near-Global Variability of Stratospheric Water Vapor Observed by SAGE III/ISS. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021 , 126, e2020JD034274	4.4	4
88	Influence of the El Niño Southern Oscillation on entry stratospheric water vapor in coupled chemistry-ocean CCM1 and CMIP6 models. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 3725-3740	6.8	1
87	A reel-down instrument system for profile measurements of water vapor, temperature, clouds, and aerosol beneath constant-altitude scientific balloons. <i>Atmospheric Measurement Techniques</i> , 2021 , 14, 2635-2648	4	1
86	Persistent Stratospheric Warming Due to 2019-2020 Australian Wildfire Smoke. <i>Geophysical Research Letters</i> , 2021 , 48, e2021GL092609	4.9	16
85	Tropical Stratospheric Circulation and Ozone Coupled to Pacific Multi-Decadal Variability. <i>Geophysical Research Letters</i> , 2021 , 48, e2020GL092162	4.9	3
84	Validation of SAGE III/ISS Solar Water Vapor Data With Correlative Satellite and Balloon-Borne Measurements. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021 , 126, e2020JD033803	4.4	5
83	A decline in global CFC-11 emissions during 2018-2019. <i>Nature</i> , 2021 , 590, 428-432	50.4	24
82	Validation of SAGE III/ISS Solar Occultation Ozone Products With Correlative Satellite and Ground-Based Measurements. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020 , 125, e2020JD032430	4.4	9
81	Hadley cell expansion in CMIP6 models. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 5249-5268	6.8	27
80	Evaluating stratospheric ozone and water vapor changes in CMIP6 models from 1850-2100 2020 ,		8
79	A comprehensive assessment of tropical stratospheric upwelling in the specified dynamics Community Earth System Model 1.2.2 -Whole Atmosphere Community Climate Model (CESM (WACCM)). <i>Geoscientific Model Development</i> , 2020 , 13, 717-734	6.3	8
78	Seasonal stratospheric ozone trends over 2000-2018 derived from several merged data sets. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 7035-7047	6.8	10
77	Temperature and tropopause characteristics from reanalyses data in the tropical tropopause layer. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 753-770	6.8	31
76	Tropical Widening: From Global Variations to Regional Impacts. <i>Bulletin of the American Meteorological Society</i> , 2020 , 101, E897-E904	6.1	11

75	Effect of deep convection on the tropical tropopause layer composition over the southwest Indian Ocean during austral summer. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 10565-10586	6.8	2
74	Zonal Asymmetry of the QBO Temperature Signal in the Tropical Tropopause Region. <i>Geophysical Research Letters</i> , 2020 , 47, e2020GL089533	4.9	6
73	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> , 2020 , 125, e2019JD031892	4.4	4
72	Regional Widening of Tropical Overturning: Forced Change, Natural Variability, and Recent Trends. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019 , 124, 6104-6119	4.4	26
71	Black carbon lofts wildfire smoke high into the stratosphere to form a persistent plume. <i>Science</i> , 2019 , 365, 587-590	33.3	87
70	Influence of Arctic stratospheric ozone on surface climate in CCMI models. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 9253-9268	6.8	9
69	Stratospheric ozone trends for 1985-2018: sensitivity to recent large variability. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 12731-12748	6.8	30
68	Recent Tropical Expansion: Natural Variability or Forced Response?. <i>Journal of Climate</i> , 2019 , 32, 1551-1574	14.4	56
67	Large Uncertainty in the Relative Rates of Dynamical and Hydrological Tropical Expansion. <i>Geophysical Research Letters</i> , 2018 , 45, 1106-1113	4.9	8
66	Evidence for a continuous decline in lower stratospheric ozone offsetting ozone layer recovery. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 1379-1394	6.8	143
65	Nonlinear response of tropical lower stratospheric temperature and water vapor to ENSO. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 4597-4615	6.8	26
64	Revisiting the Relationship among Metrics of Tropical Expansion. <i>Journal of Climate</i> , 2018 , 31, 7565-7581	4.4	44
63	Regional and Seasonal Characteristics of the Recent Expansion of the Tropics. <i>Journal of Climate</i> , 2018 , 31, 6839-6856	4.4	40
62	An updated version of a gap-free monthly mean zonal mean ozone database. <i>Earth System Science Data</i> , 2018 , 10, 1473-1490	10.5	7
61	Around the World in 84 Days. <i>Eos</i> , 2018 , 99,	1.5	12
60	Designing the Climate Observing System of the Future. <i>Earth's Future</i> , 2018 , 6, 80-102	7.9	13
59	The TropD software package (v1): standardized methods for calculating tropical-width diagnostics. <i>Geoscientific Model Development</i> , 2018 , 11, 4339-4357	6.3	26
58	Revisiting ozone measurements as an indicator of tropical width. <i>Progress in Earth and Planetary Science</i> , 2018 , 5,	3.9	7

57	Estimating Source Region Influences on Black Carbon Abundance, Microphysics, and Radiative Effect Observed Over South Korea. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018 , 123, 13,527	4.4	20
56	Reconciling Hadley Cell Expansion Trend Estimates in Reanalyses. <i>Geophysical Research Letters</i> , 2018 , 45, 11,439	4.9	17
55	Re-examining tropical expansion. <i>Nature Climate Change</i> , 2018 , 8, 768-775	21.4	103
54	Large anomalies in lower stratospheric water vapour and ice during the 2015–2016 El Niño. <i>Nature Geoscience</i> , 2017 , 10, 405-409	18.3	50
53	Continuous decline in lower stratospheric ozone offsets ozone layer recovery 2017 ,		1
52	Climatology and Interannual Variability of Dynamic Variables in Multiple Reanalyses Evaluated by the SPARC Reanalysis Intercomparison Project (S-RIP) 2017 ,		3
51	An update on ozone profile trends for the period 2000 to 2016 2017 ,		1
50	A missing source of aerosols in Antarctica Beyond long-range transport, phytoplankton, and photochemistry. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 1-20	6.8	156
49	An update on ozone profile trends for the period 2000 to 2016. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 10675-10690	6.8	71
48	Assessment of upper tropospheric and stratospheric water vapor and ozone in reanalyses as part of S-RIP. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 12743-12778	6.8	47
47	Introduction to the SPARC Reanalysis Intercomparison Project (S-RIP) and overview of the reanalysis systems. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 1417-1452	6.8	201
46	Climatology and interannual variability of dynamic variables in multiple reanalyses evaluated by the SPARC Reanalysis Intercomparison Project (S-RIP). <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 14593-14629	6.8	62
45	Assessment of upper tropospheric and stratospheric water vapour and ozone in reanalyses as part of S-RIP 2017 ,		4
44	Changes in the width of the tropical belt due to simple radiative forcing changes in the GeoMIP simulations. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 10083-10095	6.8	27
43	Contrasting upper and lower atmospheric metrics of tropical expansion in the Southern Hemisphere. <i>Geophysical Research Letters</i> , 2016 , 43, 10,496	4.9	36
42	Transport of ice into the stratosphere and the humidification of the stratosphere over the 21 century. <i>Geophysical Research Letters</i> , 2016 , 43, 2323-2329	4.9	37
41	The Stratospheric Water and Ozone Satellite Homogenized (SWOOSH) database: a long-term database for climate studies. <i>Earth System Science Data</i> , 2016 , 8, 461-490	10.5	90
40	Introduction to the SPARC Reanalysis Intercomparison Project (S-RIP) and overview of the reanalysis systems 2016 ,		2

39	Recent divergences in stratospheric water vapor measurements by frost point hygrometers and the Aura Microwave Limb Sounder. <i>Atmospheric Measurement Techniques</i> , 2016 , 9, 4447-4457	4	25
38	Intercomparison of vertically resolved merged satellite ozone data sets: interannual variability and long-term trends. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 3021-3043	6.8	51
37	Past changes in the vertical distribution of ozone [Part 3: Analysis and interpretation of trends. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 9965-9982	6.8	95
36	The changing width of Earth's tropical belt. <i>Physics Today</i> , 2014 , 67, 38-44	0.9	30
35	Improving stratospheric transport trend analysis based on SF6 and CO2 measurements. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 14,110-14,128	4.4	52
34	The potential impact of changes in lower stratospheric water vapour on stratospheric temperatures over the past 30 years. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2014 , 140, 2176-2185	6.4	21
33	Climatology of long-range transported Asian dust along the West Coast of the United States. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 12,171-12,185	4.4	32
32	Validation of Aura Microwave Limb Sounder stratospheric water vapor measurements by the NOAA frost point hygrometer. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 1612-1625	4.4	32
31	Biases in southern hemisphere climate trends induced by coarsely specifying the temporal resolution of stratospheric ozone. <i>Geophysical Research Letters</i> , 2014 , 41, 8602-8610	4.9	28
30	Variations of stratospheric water vapor over the past three decades. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 12,588-12,598	4.4	61
29	The AquaVIT-1 intercomparison of atmospheric water vapor measurement techniques. <i>Atmospheric Measurement Techniques</i> , 2014 , 7, 3177-3213	4	68
28	Modeling the climate impact of Southern Hemisphere ozone depletion: The importance of the ozone data set. <i>Geophysical Research Letters</i> , 2014 , 41, 9033-9039	4.9	7
27	Stratospheric water vapor feedback. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 18087-91	11.5	167
26	The representation of the TTL in a tropical channel version of the WRF model. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 2835-2848	4.4	8
25	Influence of Tropical Tropopause Layer Cooling on Atlantic Hurricane Activity. <i>Journal of Climate</i> , 2013 , 26, 2288-2301	4.4	111
24	Interannual variability of tropical tropopause layer clouds. <i>Geophysical Research Letters</i> , 2013 , 40, 2862-2866	4.4	26
23	Changes in Variability Associated with Climate Change 2013 , 249-271		2
22	A Multidiagnostic Intercomparison of Tropical-Width Time Series Using Reanalyses and Satellite Observations. <i>Journal of Climate</i> , 2012 , 25, 1061-1078	4.4	139

21	Stratospheric water vapor trends over Boulder, Colorado: Analysis of the 30 year Boulder record. <i>Journal of Geophysical Research</i> , 2011 , 116,		128
20	The Response of the Tropospheric Circulation to Water Vapor-Like Forcings in the Stratosphere. <i>Journal of Climate</i> , 2011 , 24, 5713-5720	4-4	13
19	Low-ozone bubbles observed in the tropical tropopause layer during the TC4 campaign in 2007. <i>Journal of Geophysical Research</i> , 2010 , 115,		8
18	In situ and lidar observations of tropopause subvisible cirrus clouds during TC4. <i>Journal of Geophysical Research</i> , 2010 , 115,		61
17	Directly measured heating rates of a tropical subvisible cirrus cloud. <i>Journal of Geophysical Research</i> , 2010 , 115,		19
16	Global-scale black carbon profiles observed in the remote atmosphere and compared to models. <i>Geophysical Research Letters</i> , 2010 , 37, n/a-n/a	4-9	159
15	Trends in tropospheric humidity from reanalysis systems. <i>Journal of Geophysical Research</i> , 2010 , 115,		75
14	Evidence for changes in stratospheric transport and mixing over the past three decades based on multiple data sets and tropical leaky pipe analysis. <i>Journal of Geophysical Research</i> , 2010 , 115,		59
13	Contributions of stratospheric water vapor to decadal changes in the rate of global warming. <i>Science</i> , 2010 , 327, 1219-23	33-3	810
12	Comparison of airborne in situ measurements and Moderate Resolution Imaging Spectroradiometer (MODIS) retrievals of cirrus cloud optical and microphysical properties during the Midlatitude Cirrus Experiment (MidCiX). <i>Journal of Geophysical Research</i> , 2009 , 114,		21
11	Comparisons of in situ measurements of cirrus cloud ice water content. <i>Journal of Geophysical Research</i> , 2007 , 112,		32
10	Measurement of Total Water with a Tunable Diode Laser Hygrometer: Inlet Analysis, Calibration Procedure, and Ice Water Content Determination. <i>Journal of Atmospheric and Oceanic Technology</i> , 2007 , 24, 463-475	2	35
9	CO signatures in subtropical convective clouds and anvils during CRYSTAL-FACE: An analysis of convective transport and entrainment using observations and a cloud-resolving model. <i>Journal of Geophysical Research</i> , 2006 , 111,		10
8	Genetic Algorithms and Support Vector Machines for Time Series Classification 2002 ,		49
7	FORTE observations of optical emissions from lightning: Optical properties and discrimination capability. <i>Journal of Geophysical Research</i> , 2002 , 107, ACL 9-1-ACL 9-5		13
6	Nonlinear response of tropical lower stratospheric temperature and water vapor to ENSO		3
5	Intercomparison of vertically resolved merged satellite ozone data sets: interannual variability and long-term trends		3
4	Past changes in the vertical distribution of ozone [Part 3: Analysis and interpretation of trends		2

3	The AquaVIT-1 intercomparison of atmospheric water vapor measurement techniques	13
2	The Stratospheric Water and Ozone Satellite Homogenized (SWOOSH) database: A long-term database for climate studies	7
1	The TropD software package: Standardized methods for calculating Tropical Width Diagnostics	3