

# Judith Perlwitz

## List of Publications by Year in descending order

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Version: 2024-02-01

75  
papers

9,131  
citations

71102

41  
h-index

76900

74  
g-index

78  
all docs

78  
docs citations

78  
times ranked

9323  
citing authors

#	ARTICLE	IF	CITATIONS
1	Efficacy of climate forcings. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	1,104
2	Present-Day Atmospheric Simulations Using GISS ModelE: Comparison to In Situ, Satellite, and Reanalysis Data. <i>Journal of Climate</i> , 2006, 19, 153-192.	3.2	832
3	Earth's Energy Imbalance: Confirmation and Implications. <i>Science</i> , 2005, 308, 1431-1435.	12.6	728
4	Was there a basis for anticipating the 2010 Russian heat wave?. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	4.0	551
5	On the Increased Frequency of Mediterranean Drought. <i>Journal of Climate</i> , 2012, 25, 2146-2161.	3.2	533
6	Impact of stratospheric ozone on Southern Hemisphere circulation change: A multimodel assessment. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	280
7	What caused the recent "Warm Arctic, Cold Continents" trend pattern in winter temperatures?. <i>Geophysical Research Letters</i> , 2016, 43, 5345-5352.	4.0	245
8	Anatomy of an Extreme Event. <i>Journal of Climate</i> , 2013, 26, 2811-2832.	3.2	243
9	Long-term ozone changes and associated climate impacts in CMIP5 simulations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 5029-5060.	3.3	243
10	The Statistical Connection between Tropospheric and Stratospheric Circulation of the Northern Hemisphere in Winter. <i>Journal of Climate</i> , 1995, 8, 2281-2295.	3.2	235
11	Climate simulations for 1880–2003 with GISS modelE. <i>Climate Dynamics</i> , 2007, 29, 661-696.	3.8	227
12	Observational Evidence of a Stratospheric Influence on the Troposphere by Planetary Wave Reflection. <i>Journal of Climate</i> , 2003, 16, 3011-3026.	3.2	200
13	Impact of stratospheric ozone hole recovery on Antarctic climate. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	191
14	Historical SAM Variability. Part II: Twentieth-Century Variability and Trends from Reconstructions, Observations, and the IPCC AR4 Models*. <i>Journal of Climate</i> , 2009, 22, 5346-5365.	3.2	162
15	Assessing and Understanding the Impact of Stratospheric Dynamics and Variability on the Earth System. <i>Bulletin of the American Meteorological Society</i> , 2012, 93, 845-859.	3.3	146
16	Multimodel climate and variability of the stratosphere. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	139
17	A New Look at Stratospheric Sudden Warmings. Part II: Evaluation of Numerical Model Simulations. <i>Journal of Climate</i> , 2007, 20, 470-488.	3.2	129
18	Arctic Tropospheric Warming: Causes and Linkages to Lower Latitudes. <i>Journal of Climate</i> , 2015, 28, 2154-2167.	3.2	126

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19	Contribution of sea ice loss to Arctic amplification. <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	120
20	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> , 2020, 125, e2020JD033271.	3.3	119
21	Identifying human influences on atmospheric temperature. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 26-33.	7.1	117
22	Towards operational predictions of the near-term climate. <i>Nature Climate Change</i> , 2019, 9, 94-101.	18.8	116
23	Current and Emerging Developments in Subseasonal to Decadal Prediction. <i>Bulletin of the American Meteorological Society</i> , 2020, 101, E869-E896.	3.3	116
24	Modelling the influence of North Atlantic multidecadal warmth on the Indian summer rainfall. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	112
25	Downward Coupling between the Stratosphere and Troposphere: The Relative Roles of Wave and Zonal Mean Processes*. <i>Journal of Climate</i> , 2004, 17, 4902-4909.	3.2	105
26	Does El Niño intensity matter for California precipitation?. <i>Geophysical Research Letters</i> , 2016, 43, 819-825.	4.0	98
27	Regional Precipitation Trends: Distinguishing Natural Variability from Anthropogenic Forcing. <i>Journal of Climate</i> , 2010, 23, 2131-2145.	3.2	97
28	The Relative Importance of Solar and Anthropogenic Forcing of Climate Change between the Maunder Minimum and the Present. <i>Journal of Climate</i> , 2004, 17, 906-929.	3.2	96
29	The Life Cycle of Northern Hemisphere Downward Wave Coupling between the Stratosphere and Troposphere. <i>Journal of Climate</i> , 2013, 26, 1745-1763.	3.2	90
30	Troposphere-stratosphere dynamic coupling under strong and weak polar vortex conditions. <i>Geophysical Research Letters</i> , 2001, 28, 271-274.	4.0	88
31	A Multiscale Analysis of the Extreme Weather Events over Western Russia and Northern Pakistan during July 2010. <i>Monthly Weather Review</i> , 2012, 140, 1639-1664.	1.4	88
32	Characterizing Recent Trends in U.S. Heavy Precipitation. <i>Journal of Climate</i> , 2016, 29, 2313-2332.	3.2	86
33	Effect of zonal asymmetries in stratospheric ozone on simulated Southern Hemisphere climate trends. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	75
34	How Fast Are the Tropics Expanding?. <i>Journal of Climate</i> , 2014, 27, 1999-2013.	3.2	74
35	Downward Wave Coupling between the Stratosphere and Troposphere: The Importance of Meridional Wave Guiding and Comparison with Zonal-Mean Coupling. <i>Journal of Climate</i> , 2010, 23, 6365-6381.	3.2	65
36	Towards Probabilistic Multivariate ENSO Monitoring. <i>Geophysical Research Letters</i> , 2019, 46, 10532-10540.	4.0	64

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37	Changing lower stratospheric circulation: The role of ozone and greenhouse gases. <i>Journal of Geophysical Research</i> , 1998, 103, 11251-11261.	3.3	61
38	AO/NAO response to climate change: 1. Respective influences of stratospheric and tropospheric climate changes. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	58
39	Troposphere–stratosphere coupling: Links to North Atlantic weather and climate, including their representation in CMIP5 models. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 5864-5880.	3.3	55
40	What is responsible for the strong observed asymmetry in teleconnections between El Niño and La Niña?. <i>Geophysical Research Letters</i> , 2014, 41, 1019-1025.	4.0	45
41	Physics of U.S. Surface Temperature Response to ENSO. <i>Journal of Climate</i> , 2011, 24, 4874-4887.	3.2	44
42	The Making of an Extreme Event: Putting the Pieces Together. <i>Bulletin of the American Meteorological Society</i> , 2014, 95, 427-440.	3.3	44
43	Experiment design of the International CLIVAR C20C+ Detection and Attribution project. <i>Weather and Climate Extremes</i> , 2019, 24, 100206.	4.1	43
44	Tug of war on the jet stream. <i>Nature Climate Change</i> , 2011, 1, 29-31.	18.8	41
45	A model study of tropospheric impacts of the Arctic ozone depletion 2011. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 7999-8014.	3.3	41
46	Impacts of Interactive Stratospheric Chemistry on Antarctic and Southern Ocean Climate Change in the Goddard Earth Observing System, Version 5 (GEOS-5). <i>Journal of Climate</i> , 2016, 29, 3199-3218.	3.2	36
47	Opposite Annular Responses of the Northern and Southern Hemispheres to Indian Ocean Warming. <i>Journal of Climate</i> , 2010, 23, 3720-3738.	3.2	34
48	The leading variability mode of the coupled troposphere-stratosphere winter circulation in different climate regimes. <i>Journal of Geophysical Research</i> , 2000, 105, 6915-6926.	3.3	30
49	Lessons Learned from the 2017 Flash Drought across the U.S. Northern Great Plains and Canadian Prairies. <i>Bulletin of the American Meteorological Society</i> , 2020, 101, E2171-E2185.	3.3	28
50	The Impact of Stratospheric Model Configuration on Planetary-Scale Waves in Northern Hemisphere Winter. <i>Journal of Climate</i> , 2010, 23, 3369-3389.	3.2	27
51	Models versus radiosondes in the free atmosphere: A new detection and attribution analysis of temperature. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 2609-2619.	3.3	27
52	AO/NAO response to climate change: 2. Relative importance of low- and high-latitude temperature changes. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	26
53	Mechanisms Governing Interannual Variability of Stratosphere–Troposphere Ozone Transport. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 234-260.	3.3	25
54	Sensitivity of tracer transports and stratospheric ozone to sea surface temperature patterns in the doubled CO <sub>2</sub> climate. <i>Journal of Geophysical Research</i> , 2002, 107, ACL 25-1.	3.3	24

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55	On the Control of the Residual Circulation and Stratospheric Temperatures in the Arctic by Planetary Wave Coupling. <i>Journals of the Atmospheric Sciences</i> , 2014, 71, 195-206.	1.7	24
56	Facility for Weather and Climate Assessments (FACTS): A Community Resource for Assessing Weather and Climate Variability. <i>Bulletin of the American Meteorological Society</i> , 2020, 101, E1214-E1224.	3.3	24
57	Long-range prediction and the stratosphere. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 2601-2623.	4.9	24
58	The Impact of Stratospheric Ozone Changes on Downward Wave Coupling in the Southern Hemisphere*. <i>Journal of Climate</i> , 2011, 24, 4210-4229.	3.2	21
59	Wave Reflection and Focusing prior to the Major Stratospheric Warming of September 2002*. <i>Journals of the Atmospheric Sciences</i> , 2005, 62, 640-650.	1.7	20
60	A strong bout of natural cooling in 2008. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	20
61	Intra-annual relationships between polar ozone and the SAM. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	20
62	Anthropogenic Contributions to the Intensity of the 2017 United States Northern Great Plains Drought. <i>Bulletin of the American Meteorological Society</i> , 2019, 100, S19-S24.	3.3	20
63	Predictability and Prediction of Southern California Rains during Strong El Niño Events: A Focus on the Failed 2016 Winter Rains. <i>Journal of Climate</i> , 2018, 31, 555-574.	3.2	19
64	Extreme California Rains During Winter 2015/16: A Change in El Niño Teleconnection?. <i>Bulletin of the American Meteorological Society</i> , 2018, 99, S49-S53.	3.3	18
65	Drivers of 2016 record Arctic warmth assessed using climate simulations subjected to Factual and Counterfactual forcing. <i>Weather and Climate Extremes</i> , 2018, 19, 1-9.	4.1	18
66	Effects of Greenhouse Gas Increase and Stratospheric Ozone Depletion on Stratospheric Mean Age of Air in 1960–2010. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 2098-2110.	3.3	16
67	Observational evidence for asymmetric changes in tropospheric heights over Antarctica on decadal time scales. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	13
68	Observed Decadal Changes in Downward Wave Coupling between the Stratosphere and Troposphere in the Southern Hemisphere. <i>Journal of Climate</i> , 2011, 24, 4558-4569.	3.2	13
69	Forced Atmospheric Teleconnections during 1979–2014. <i>Journal of Climate</i> , 2016, 29, 2333-2357.	3.2	11
70	The Response of the Hadley Circulation to Climate Changes, Past and Future. <i>Advances in Global Change Research</i> , 2004, , 399-435.	1.6	10
71	Comment on “Tropospheric temperature response to stratospheric ozone recovery in the 21st century” by Hu et al. (2011). <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 2533-2540.	4.9	8
72	On the Time of Emergence of Tropical Width Change. <i>Journal of Climate</i> , 2018, 31, 7225-7236.	3.2	8

#	ARTICLE	IF	CITATIONS
73	On the Interrelationship Between Recent Climate Trends, Ozone Changes and Increased Greenhouse Gas Forcing. , 1995, , 163-179.		8
74	Confirmation for and Predictability of Distinct U.S. Impacts of El Niño±o Flavors. Journal of Climate, 2020, 33, 5971-5991.	3.2	5
75	Attribution of NAO Predictive Skill Beyond 2±Weeks in Boreal Winter. Geophysical Research Letters, 2020, 47, e2020GL090451.	4.0	4