Douglas Allen

List of Publications by Year
in descending order

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46	1,344	361413 20	361022 35
papers	citations	h-index	g-index

53	53	53	1302
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Unusual stratospheric transport and mixing during the 2002 Antarctic winter. Geophysical Research Letters, 2003, 30, .	4.0	123
2	Australian PyroCb Smoke Generates Synopticâ€Scale Stratospheric Anticyclones. Geophysical Research Letters, 2020, 47, e2020GL088101.	4.0	92
3	A seasonal climatology of effective diffusivity in the stratosphere. Journal of Geophysical Research, 2001, 106, 7917-7935.	3.3	90
4	Satellite observations and modeling of transport in the upper troposphere through the lower mesosphere during the 2006 major stratospheric sudden warming. Atmospheric Chemistry and Physics, 2009, 9, 4775-4795.	4.9	75
5	POAM III observations of the anomalous 2002 Antarctic ozone hole. Geophysical Research Letters, 2003, 30, .	4.0	73
6	Simulations of Dynamics and Transport during the September 2002 Antarctic Major Warming. Journals of the Atmospheric Sciences, 2005, 62, 690-707.	1.7	71
7	Observations of Middle Atmosphere CO from theUARSISAMS during the Early Northern Winter 1991/92. Journals of the Atmospheric Sciences, 1999, 56, 563-583.	1.7	60
8	Tracer Equivalent Latitude: A Diagnostic Tool for Isentropic Transport Studies. Journals of the Atmospheric Sciences, 2003, 60, 287-304.	1.7	58
9	Diagnostic Comparison of Meteorological Analyses during the 2002 Antarctic Winter. Monthly Weather Review, 2005, 133, 1261-1278.	1.4	49
10	High-Altitude (0â€“100 km) Global Atmospheric Reanalysis System: Description and Application to the 2014 Austral Winter of the Deep Propagating Gravity Wave Experiment (DEEPWAVE). Monthly Weather Review, 2018, 146, 2639-2666.	1.4	47
11	NOGAPS-ALPHA model simulations of stratospheric ozone during the SOLVE2 campaign. Atmospheric Chemistry and Physics, 2004, 4, 2401-2423.	4.9	43
12	NOGAPS-ALPHA Simulations of the 2002 Southern Hemisphere Stratospheric Major Warming. Monthly Weather Review, 2006, 134, 498-518.	1.4	43
13	Modeling the August 2002 minor warming event. Geophysical Research Letters, 2005, 32, n/a-n/a.	4.0	38
14	Evaluation of SSMIS Upper Atmosphere Sounding Channels for High-Altitude Data Assimilation. Monthly Weather Review, 2013, 141, 3314-3330.	1.4	37
15	Antarctic polar descent and planetary wave activity observed in ISAMS CO from April to July 1992. Geophysical Research Letters, 2000, 27, 665-668.	4.0	36
16	Reconstruction and Simulation of Stratospheric Ozone Distributions during the 2002 Austral Winter. Journals of the Atmospheric Sciences, 2005, 62, 748-764.	1.7	35
17	The 4-Day Wave as Observed from theUpper Atmosphere Research SatelliteMicrowave Limb Sounder. Journals of the Atmospheric Sciences, 1997, 54, 420-434.	1.7	33
18	An Observational Study of the Final Breakdown of the Southern Hemisphere Stratospheric Vortex in 2002. Journals of the Atmospheric Sciences, 2005, 62, 735-747.	1.7	24

#	Article	IF	Citations
19	Smoke with Induced Rotation and Lofting (SWIRL) in the Stratosphere. Journals of the Atmospheric Sciences, 2020, 77, 4297-4316.	1.7	23
20	Dynamical reconstruction of the record low column ozone over Europe on 30 November 1999. Geophysical Research Letters, 2002, 29, 76-1-76-4.	4.0	22
21	The Local Ensemble Tangent Linear Model: an enabler for coupled model <scp>4Dâ€Var</scp>. Quarterly Journal of the Royal Meteorological Society, 2017, 143, 1009-1020.	2.7	22
22	POAM measurements of PSCs and water vapor in the 2002 Antarctic vortex. Geophysical Research Letters, 2003, 30, .	4.0	20
23	Daily variations in TOMS total ozone data. Journal of Geophysical Research, 1997, 102, 13603-13608.	3.3	19
24	Reduced ozone loss at the upper edge of the Antarctic Ozone Hole during 2001â€“2004. Geophysical Research Letters, 2005, 32, .	4.0	19
25	Modeling the Frozen-In Anticyclone in the 2005 Arctic Summer Stratosphere. Atmospheric Chemistry and Physics, 2011, 11, 4557-4576.	4.9	18
26	Effects of model chemistry and data biases on stratospheric ozone assimilation. Atmospheric Chemistry and Physics, 2007, 7, 2917-2935.	4.9	16
27	Limitations of wind extraction from 4D-Var assimilation of ozone. Atmospheric Chemistry and Physics, 2013, 13, 3501-3515.	4.9	16
28	Unusual stratospheric ozone anomalies observed in 22 years of measurements from Lauder, New Zealand. Atmospheric Chemistry and Physics, 2015, 15, 6817-6826.	4.9	16
29	POAM III ozone in the upper troposphere and lowermost stratosphere: Seasonal variability and comparisons to aircraft observations. Journal of Geophysical Research, 2003, 108, .	3.3	15
30	Wind extraction potential from 4D-Var assimilation of stratospheric O₃, N₂O, and H₂O using a global shallow water model. Atmospheric Chemistry and Physics, 2014, 14, 3347-3360.	4.9	14
31	Space-time integrity of improved stratospheric and mesospheric sounder and microwave limb sounder temperature fields at Kelvin wave scales. Journal of Geophysical Research, 1995, 100, 14089.	3.3	11
32	Trajectory modeling of aerosol clouds observed by TOMS. Journal of Geophysical Research, 1999, 104, 27461-27471.	3.3	10
33	Wind extraction potential from ensemble Kalman filter assimilation of stratospheric ozone using a global shallow water model. Atmospheric Chemistry and Physics, 2015, 15, 5835-5850.	4.9	10
34	First Application of the Local Ensemble Tangent Linear Model (LETLM) to a Realistic Model of the Global Atmosphere. Monthly Weather Review, 2018, 146, 2247-2270.	1.4	10
35	20 years of ClO measurements in the Antarctic lower stratosphere. Atmospheric Chemistry and Physics, 2016, 16, 10725-10734.	4.9	9
36	Hybrid 4DVAR with a Local Ensemble Tangent Linear Model: Application to the Shallow-Water Model. Monthly Weather Review, 2017, 145, 97-116.	1.4	8

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37	Tracer transport during the Arctic stratospheric final warming based on a 33â€year (1979â€2011) tracer equivalent latitude simulation. Geophysical Research Letters, 2012, 39, .	4.0	7
38	The largeâ€scale frozenâ€in anticyclone in the 2011 Arctic summer stratosphere. Journal of Geophysical Research D: Atmospheres, 2013, 118, 2656-2672.	3.3	5
39	Extreme stratospheric springs and their consequences for the onset of polar mesospheric clouds. Journal of Atmospheric and Solar-Terrestrial Physics, 2015, 132, 74-81.	1.6	5
40	Hybrid ensemble 4DVar assimilation of stratospheric ozone using a global shallow water model. Atmospheric Chemistry and Physics, 2016, 16, 8193-8204.	4.9	5
41	Extraction of wind and temperature information from hybrid 4D-Var assimilation of stratospheric ozone using NAVGEM. Atmospheric Chemistry and Physics, 2018, 18, 2999-3026.	4.9	4
42	The Genesis of Meteorology at the University of Chicago. Bulletin of the American Meteorological Society, 2001, 82, 1905-1909.	3.3	3
43	Equivalent Latitude Computation Using Regions of Interest (ROI). PLoS ONE, 2013, 8, e72970.	2.5	3
44	Challenges of Increased Resolution for the Local Ensemble Tangent Linear Model. Monthly Weather Review, 2020, 148, 2549-2566.	1.4	1
45	Earthâ€™s other moon: An exercise in computational dynamics. American Journal of Physics, 2008, 76, 720-722.	0.7	0
46	Ensemble-Based Gravity Wave Parameter Retrieval for Numerical Weather Prediction. Journals of the Atmospheric Sciences, 2022, 79, 621-648.	1.7	0