

Douglas Allen

List of Publications by Year in descending order

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46
papers

1,344
citations

361413

20
h-index

361022

35
g-index

53
all docs

53
docs citations

53
times ranked

1302
citing authors

#	ARTICLE	IF	CITATIONS
1	Ensemble-Based Gravity Wave Parameter Retrieval for Numerical Weather Prediction. <i>Journals of the Atmospheric Sciences</i> , 2022, 79, 621-648.	1.7	0
2	Challenges of Increased Resolution for the Local Ensemble Tangent Linear Model. <i>Monthly Weather Review</i> , 2020, 148, 2549-2566.	1.4	1
3	Australian PyroCb Smoke Generates Synoptic-Scale Stratospheric Anticyclones. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088101.	4.0	92
4	Smoke with Induced Rotation and Lofting (SWIRL) in the Stratosphere. <i>Journals of the Atmospheric Sciences</i> , 2020, 77, 4297-4316.	1.7	23
5	Extraction of wind and temperature information from hybrid 4D-Var assimilation of stratospheric ozone using NAVGEM. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 2999-3026.	4.9	4
6	High-Altitude (0–100 km) Global Atmospheric Reanalysis System: Description and Application to the 2014 Austral Winter of the Deep Propagating Gravity Wave Experiment (DEEPWAVE). <i>Monthly Weather Review</i> , 2018, 146, 2639-2666.	1.4	47
7	First Application of the Local Ensemble Tangent Linear Model (LETLM) to a Realistic Model of the Global Atmosphere. <i>Monthly Weather Review</i> , 2018, 146, 2247-2270.	1.4	10
8	Hybrid 4DVAR with a Local Ensemble Tangent Linear Model: Application to the Shallow-Water Model. <i>Monthly Weather Review</i> , 2017, 145, 97-116.	1.4	8
9	The Local Ensemble Tangent Linear Model: an enabler for coupled model 4D-Var. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2017, 143, 1009-1020.	2.7	22
10	20 years of ClO measurements in the Antarctic lower stratosphere. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 10725-10734.	4.9	9
11	Hybrid ensemble 4DVar assimilation of stratospheric ozone using a global shallow water model. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 8193-8204.	4.9	5
12	Wind extraction potential from ensemble Kalman filter assimilation of stratospheric ozone using a global shallow water model. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 5835-5850.	4.9	10
13	Unusual stratospheric ozone anomalies observed in 22 years of measurements from Lauder, New Zealand. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 6817-6826.	4.9	16
14	Extreme stratospheric springs and their consequences for the onset of polar mesospheric clouds. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2015, 132, 74-81.	1.6	5
15	Wind extraction potential from 4D-Var assimilation of stratospheric O ₃ , N ₂ O, and H ₂ O using a global shallow water model. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 3347-3360.	4.9	14
16	Evaluation of SSMIS Upper Atmosphere Sounding Channels for High-Altitude Data Assimilation. <i>Monthly Weather Review</i> , 2013, 141, 3314-3330.	1.4	37
17	Limitations of wind extraction from 4D-Var assimilation of ozone. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 3501-3515.	4.9	16
18	The large-scale frozen-in anticyclone in the 2011 Arctic summer stratosphere. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 2656-2672.	3.3	5

#	ARTICLE	IF	CITATIONS
19	Equivalent Latitude Computation Using Regions of Interest (ROI). PLoS ONE, 2013, 8, e72970.	2.5	3
20	Tracer transport during the Arctic stratospheric final warming based on a 33-year (1979-2011) tracer equivalent latitude simulation. Geophysical Research Letters, 2012, 39, .	4.0	7
21	Modeling the Frozen-In Anticyclone in the 2005 Arctic Summer Stratosphere. Atmospheric Chemistry and Physics, 2011, 11, 4557-4576.	4.9	18
22	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
23	Earth's other moon: An exercise in computational dynamics. American Journal of Physics, 2008, 76, 720-722.	0.7	0
24	Effects of model chemistry and data biases on stratospheric ozone assimilation. Atmospheric Chemistry and Physics, 2007, 7, 2917-2935.	4.9	16
25	NOGAPS-ALPHA Simulations of the 2002 Southern Hemisphere Stratospheric Major Warming. Monthly Weather Review, 2006, 134, 498-518.	1.4	43
26	Diagnostic Comparison of Meteorological Analyses during the 2002 Antarctic Winter. Monthly Weather Review, 2005, 133, 1261-1278.	1.4	49
27	Reconstruction and Simulation of Stratospheric Ozone Distributions during the 2002 Austral Winter. Journals of the Atmospheric Sciences, 2005, 62, 748-764.	1.7	35
28	Simulations of Dynamics and Transport during the September 2002 Antarctic Major Warming. Journals of the Atmospheric Sciences, 2005, 62, 690-707.	1.7	71
29	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
30	Modeling the August 2002 minor warming event. Geophysical Research Letters, 2005, 32, n/a-n/a.	4.0	38
31	Reduced ozone loss at the upper edge of the Antarctic Ozone Hole during 2001-2004. Geophysical Research Letters, 2005, 32, .	4.0	19
32	NOGAPS-ALPHA model simulations of stratospheric ozone during the SOLVE2 campaign. Atmospheric Chemistry and Physics, 2004, 4, 2401-2423.	4.9	43
33	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
34	POAM III observations of the anomalous 2002 Antarctic ozone hole. Geophysical Research Letters, 2003, 30, .	4.0	73
35	Unusual stratospheric transport and mixing during the 2002 Antarctic winter. Geophysical Research Letters, 2003, 30, .	4.0	123
36	POAM measurements of PSCs and water vapor in the 2002 Antarctic vortex. Geophysical Research Letters, 2003, 30, .	4.0	20

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37	Tracer Equivalent Latitude: A Diagnostic Tool for Isentropic Transport Studies. <i>Journals of the Atmospheric Sciences</i> , 2003, 60, 287-304.	1.7	58
38	Dynamical reconstruction of the record low column ozone over Europe on 30 November 1999. <i>Geophysical Research Letters</i> , 2002, 29, 76-1-76-4.	4.0	22
39	A seasonal climatology of effective diffusivity in the stratosphere. <i>Journal of Geophysical Research</i> , 2001, 106, 7917-7935.	3.3	90
40	The Genesis of Meteorology at the University of Chicago. <i>Bulletin of the American Meteorological Society</i> , 2001, 82, 1905-1909.	3.3	3
41	Antarctic polar descent and planetary wave activity observed in ISAMS CO from April to July 1992. <i>Geophysical Research Letters</i> , 2000, 27, 665-668.	4.0	36
42	Trajectory modeling of aerosol clouds observed by TOMS. <i>Journal of Geophysical Research</i> , 1999, 104, 27461-27471.	3.3	10
43	Observations of Middle Atmosphere CO from the UARS ISAMS during the Early Northern Winter 1991/92. <i>Journals of the Atmospheric Sciences</i> , 1999, 56, 563-583.	1.7	60
44	The 4-Day Wave as Observed from the Upper Atmosphere Research Satellite Microwave Limb Sounder. <i>Journals of the Atmospheric Sciences</i> , 1997, 54, 420-434.	1.7	33
45	Daily variations in TOMS total ozone data. <i>Journal of Geophysical Research</i> , 1997, 102, 13603-13608.	3.3	19
46	Space-time integrity of improved stratospheric and mesospheric sounder and microwave limb sounder temperature fields at Kelvin wave scales. <i>Journal of Geophysical Research</i> , 1995, 100, 14089.	3.3	11