

Dale Allen

List of Publications by Year in descending order

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58
papers

2,556
citations

201674

27
h-index

206112

48
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67
all docs

67
docs citations

67
times ranked

2695
citing authors

#	ARTICLE	IF	CITATIONS
1	Investigation of the Community Multiscale air quality (CMAQ) model representation of the Climate Penalty Factor (CPF). <i>Atmospheric Environment</i> , 2022, 283, 119157.	4.1	3
2	Multidecadal trends in ozone chemistry in the Baltimore-Washington Region. <i>Atmospheric Environment</i> , 2022, 285, 119239.	4.1	4
3	Quantification of lightning-produced NO ₂ over the Pyrenees and the Ebro Valley by using different TROPOMI-NO ₂ and cloud research products. <i>Atmospheric Measurement Techniques</i> , 2022, 15, 3329-3351.	3.1	6
4	Observations of Lightning NO _x Production From GOES-R Post Launch Test Field Campaign Flights. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD033769.	3.3	9
5	Observations of Lightning NO _x Production From Tropospheric Monitoring Instrument Case Studies Over the United States. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD034174.	3.3	10
6	Midlatitude Lightning NO _x Production Efficiency Inferred From OMI and WWLLN Data. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 13475-13497.	3.3	25
7	Simulating lightning NO production in CMAQv5.2: evolution of scientific updates. <i>Geoscientific Model Development</i> , 2019, 12, 3071-3083.	3.6	20
8	Wet Scavenging in WRF-Chem Simulations of Parameterized Convection for a Severe Storm During the DC3 Field Campaign. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 7413-7428.	3.3	4
9	Lightning NO _x Production in the Tropics as Determined Using OMI NO ₂ Retrievals and WWLLN Stroke Data. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 13498-13518.	3.3	17
10	Simulating lightning NO production in CMAQv5.2: performance evaluations. <i>Geoscientific Model Development</i> , 2019, 12, 4409-4424.	3.6	18
11	Evaluation of Parameterized Convective Transport of Trace Gases in Simulation of Storms Observed During the DC3 Field Campaign. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 11238-11261.	3.3	9
12	Global O ₃ -CO correlations in a chemistry and transport model during July-August: evaluation with TES satellite observations and sensitivity to input meteorological data and emissions. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 8429-8452.	4.9	10
13	Evaluation of deep convective transport in storms from different convective regimes during the DC3 field campaign using WRF-Chem with lightning data assimilation. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 7140-7163.	3.3	9
14	Estimates of lightning NO _x production based on OMI NO ₂ observations over the Gulf of Mexico. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 8668-8691.	3.3	52
15	Impact of aerosol direct effect on East Asian air quality during the EAST-AIRE campaign. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 6534-6554.	3.3	29
16	Wet scavenging of soluble gases in DC3 deep convective storms using WRF-Chem simulations and aircraft observations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 4233-4257.	3.3	29
17	Sensitivity of tropical tropospheric composition to lightning NO _x production as determined by replay simulations with GEOS-5. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 8512-8534.	3.3	32
18	Ozone and NO ₂ chemistry in the eastern US: evaluation of CMAQ/CB05 with satellite (OMI) data. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 10965-10982.	4.9	84

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19	Impact of lightning-NO on eastern United States photochemistry during the summer of 2006 as determined using the CMAQ model. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 1737-1758.	4.9	92
20	Aerosol indirect effect on tropospheric ozone via lightning. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	24
21	Roles of Urban Tree Canopy and Buildings in Urban Heat Island Effects: Parameterization and Preliminary Results. <i>Journal of Applied Meteorology and Climatology</i> , 2012, 51, 1775-1793.	1.5	159
22	The impact of North American anthropogenic emissions and lightning on long-range transport of trace gases and their export from the continent during summers 2002 and 2004. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	18
23	Characterization of an eastern U.S. severe air pollution episode using WRF/Chem. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	31
24	Impact of fair-weather cumulus clouds and the Chesapeake Bay breeze on pollutant transport and transformation. <i>Atmospheric Environment</i> , 2011, 45, 4060-4072.	4.1	68
25	A multi-resolution assessment of the Community Multiscale Air Quality (CMAQ) model v4.7 wet deposition estimates for 2002–2006. <i>Geoscientific Model Development</i> , 2011, 4, 357-371.	3.6	90
26	Application of OMI observations to a space-based indicator of NO _x and VOC controls on surface ozone formation. <i>Atmospheric Environment</i> , 2010, 44, 2213-2223.	4.1	292
27	Production of lightning NO _x and its vertical distribution calculated from three-dimensional cloud-scale chemical transport model simulations. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	194
28	Impact of lightning NO emissions on North American photochemistry as determined using the Global Modeling Initiative (GMI) model. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	87
29	Effects of source temporal resolution on transport simulations of boreal fire emissions. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	24
30	Examining injection properties of boreal forest fires using surface and satellite measurements of CO transport. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	33
31	Evaluation of pollutant outflow and CO sources during TRACE-P using model-calculated, aircraft-based, and Measurements of Pollution in the Troposphere (MOPITT)-derived CO concentrations. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	70
32	Global simulation of tropospheric ozone using the University of Maryland Chemical Transport Model (UMD-CTM): 1. Model description and evaluation. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	11
33	Global simulation of tropospheric ozone using the University of Maryland Chemical Transport Model (UMD-CTM): 2. Regional transport and chemistry over the central United States using a stretched grid. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	12
34	An estimate of the stratospheric contribution to springtime tropospheric ozone maxima using TOPSE measurements and beryllium-7 simulations. <i>Journal of Geophysical Research</i> , 2003, 108, TOP 3-1.	3.3	31
35	An intercomparison and evaluation of aircraft-derived and simulated CO from seven chemical transport models during the TRACE-P experiment. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	78
36	Evaluation of lightning flash rate parameterizations for use in a global chemical transport model. <i>Journal of Geophysical Research</i> , 2002, 107, ACH 15-1-ACH 15-21.	3.3	121

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37	Regional air pollution and its radiative forcing: Studies with a single-column chemical and radiation transport model. <i>Journal of Geophysical Research</i> , 2001, 106, 28751-28770.	3.3	17
38	A three-dimensional total odd nitrogen (NO _y) simulation during SONEX using a stretched-grid chemical transport model. <i>Journal of Geophysical Research</i> , 2000, 105, 3851-3876.	3.3	37
39	Processes controlling dimethylsulfide over the ocean: Case studies using a 3-D model driven by assimilated meteorological fields. <i>Journal of Geophysical Research</i> , 1998, 103, 8341-8353.	3.3	21
40	A three-dimensional simulation of the evolution of the middle latitude winter ozone in the middle stratosphere. <i>Journal of Geophysical Research</i> , 1997, 102, 19217-19232.	3.3	29
41	An evaluation of deep convective mixing in the Goddard Chemical Transport Model using International Satellite Cloud Climatology Project cloud parameters. <i>Journal of Geophysical Research</i> , 1997, 102, 25467-25476.	3.3	19
42	Three-dimensional radon 222 calculations using assimilated meteorological data and a convective mixing algorithm. <i>Journal of Geophysical Research</i> , 1996, 101, 6871-6881.	3.3	100
43	Transport-induced interannual variability of carbon monoxide determined using a chemistry and transport model. <i>Journal of Geophysical Research</i> , 1996, 101, 28655-28669.	3.3	88
44	Missing chemistry of reactive nitrogen in the upper stratospheric polar winter. <i>Geophysical Research Letters</i> , 1995, 22, 2629-2632.	4.0	45
45	Two-dimensional and three-dimensional model simulations, measurements, and interpretation of the influence of the October 1989 solar proton events on the middle atmosphere. <i>Journal of Geophysical Research</i> , 1995, 100, 11641.	3.3	70
46	Tracer evolution in winds generated by a global spectral mechanistic model. <i>Journal of Geophysical Research</i> , 1994, 99, 5399.	3.3	9
47	Satellite observation and mapping of wintertime ozone variability in the lower stratosphere. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 1993, 55, 1081-1088.	0.9	1
48	The effects of the October 1989 solar proton events on the stratosphere as computed using a three-dimensional model. <i>Geophysical Research Letters</i> , 1993, 20, 459-462.	4.0	29
49	3-D Transport-Chemistry Studies of the Stratosphere Using Satellite Data Together with Data Assimilation. , 1993, , 179-198.		3
50	Episodic total ozone minima and associated effects on heterogeneous chemistry and lower stratospheric transport. <i>Journal of Geophysical Research</i> , 1992, 97, 7979-7996.	3.3	42
51	Spatial and temporal variability of the extent of chemically processed stratospheric air. <i>Geophysical Research Letters</i> , 1991, 18, 29-32.	4.0	15
52	The influence of polar heterogeneous processes on reactive chlorine at middle latitudes: Three dimensional model implications. <i>Geophysical Research Letters</i> , 1991, 18, 25-28.	4.0	20
53	Three-dimensional simulations of wintertime ozone variability in the lower stratosphere. <i>Journal of Geophysical Research</i> , 1991, 96, 5055-5071.	3.3	40
54	Application of a Monotonic Upstream-biased Transport Scheme to Three-Dimensional Constituent Transport Calculations. <i>Monthly Weather Review</i> , 1991, 119, 2456-2464.	1.4	65

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55	Wintertime Nitric Acid Chemistry: Implications from Three-Dimensional Model Calculations. <i>Journals of the Atmospheric Sciences</i> , 1990, 47, 2696-2709.	1.7	17
56	Three dimensional simulation of hydrogen chloride and hydrogen fluoride during the Airborne Arctic Stratospheric Expedition. <i>Geophysical Research Letters</i> , 1990, 17, 529-532.	4.0	18
57	Three Dimensions Simulation of Spatial and Temporal Variability of Stratospheric Hydrogen Chloride. <i>Geophysical Research Letters</i> , 1989, 16, 1149-1152.	4.0	5
58	The Use of Assimilated Stratospheric Data in Constituent Transport Calculations. <i>Journals of the Atmospheric Sciences</i> , 1989, 46, 687-702.	1.7	53