Dale Allen

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/8763268/publications.pdf

Version: 2024-02-01

		201674	206112
58	2,556	27	48
papers	citations	h-index	g-index

67	67	67	2695
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Application of OMI observations to a space-based indicator of NOx and VOC controls on surface ozone formation. Atmospheric Environment, 2010, 44, 2213-2223.	4.1	292
2	Production of lightning NO_x and its vertical distribution calculated from threeâ€dimensional cloudâ€scale chemical transport model simulations. Journal of Geophysical Research, 2010, 115, .	3.3	194
3	Roles of Urban Tree Canopy and Buildings in Urban Heat Island Effects: Parameterization and Preliminary Results. Journal of Applied Meteorology and Climatology, 2012, 51, 1775-1793.	1.5	159
4	Evaluation of lightning flash rate parameterizations for use in a global chemical transport model. Journal of Geophysical Research, 2002, 107, ACH 15-1-ACH 15-21.	3.3	121
5	Three-dimensional radon 222 calculations using assimilated meteorological data and a convective mixing algorithm. Journal of Geophysical Research, 1996, 101, 6871-6881.	3.3	100
6	Impact of lightning-NO on eastern United States photochemistry during the summer of 2006 as determined using the CMAQ model. Atmospheric Chemistry and Physics, 2012, 12, 1737-1758.	4.9	92
7	A multi-resolution assessment of the Community Multiscale Air Quality (CMAQ) model v4.7 wet deposition estimates for 2002â€“2006. Geoscientific Model Development, 2011, 4, 357-371.	3.6	90
8	Transport-induced interannual variability of carbon monoxide determined using a chemistry and transport model. Journal of Geophysical Research, 1996, 101, 28655-28669.	3.3	88
9	Impact of lightning NO emissions on North American photochemistry as determined using the Global Modeling Initiative (GMI) model. Journal of Geophysical Research, 2010, 115, .	3.3	87
10	Ozone and NO_{<i>x</i>} chemistry in the eastern US: evaluation of CMAQ/CB05 with satellite (OMI) data. Atmospheric Chemistry and Physics, 2015, 15, 10965-10982.	4.9	84
11	An intercomparison and evaluation of aircraft-derived and simulated CO from seven chemical transport models during the TRACE-P experiment. Journal of Geophysical Research, 2003, 108, .	3.3	78
12	Two-dimensional and three-dimensional model simulations, measurements, and interpretation of the influence of the October 1989 solar proton events on the middle atmosphere. Journal of Geophysical Research, 1995, 100, 11641.	3.3	70
13	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. Journal of Geophysical Research, 2004, 109, .	3.3	70
14	Impact of fair-weather cumulus clouds and the Chesapeake Bay breeze on pollutant transport and transformation. Atmospheric Environment, 2011, 45, 4060-4072.	4.1	68
15	Application of a Monotonic Upstream-biased Transport Scheme to Three-Dimensional Constituent Transport Calculations. Monthly Weather Review, 1991, 119, 2456-2464.	1.4	65
16	The Use of Assimilated Stratospheric Data in Constituent Transport Calculations. Journals of the Atmospheric Sciences, 1989, 46, 687-702.	1.7	53
17	Estimates of lightning NO_x production based on OMI NO₂ observations over the Gulf of Mexico. Journal of Geophysical Research D: Atmospheres, 2016, 121, 8668-8691.	3.3	52
18	Missing chemistry of reactive nitrogen in the upper stratospheric polar winter. Geophysical Research Letters, 1995, 22, 2629-2632.	4.0	45

#	Article	IF	Citations
19	Episodic total ozone minima and associated effects on heterogeneous chemistry and lower stratospheric transport. Journal of Geophysical Research, 1992, 97, 7979-7996.	3.3	42
20	Threeâ€dimensional simulations of wintertime ozone variability in the lower stratosphere. Journal of Geophysical Research, 1991, 96, 5055-5071.	3.3	40
21	A three-dimensional total odd nitrogen (NOy) simulation during SONEX using a stretched-grid chemical transport model. Journal of Geophysical Research, 2000, 105, 3851-3876.	3.3	37
22	Examining injection properties of boreal forest fires using surface and satellite measurements of CO transport. Journal of Geophysical Research, 2007, 112, .	3.3	33
23	Sensitivity of tropical tropospheric composition to lightning NO_x production as determined by replay simulations with GEOSâ€5. Journal of Geophysical Research D: Atmospheres, 2015, 120, 8512-8534.	3.3	32
24	An estimate of the stratospheric contribution to springtime tropospheric ozone maxima using TOPSE measurements and beryllium-7 simulations. Journal of Geophysical Research, 2003, 108, TOP 3-1.	3.3	31
25	Characterization of an eastern U.S. severe air pollution episode using WRF/Chem. Journal of Geophysical Research, 2011, 116, .	3.3	31
26	The effects of the October 1989 solar proton events on the stratosphere as computed using a threeâ€dimensional model. Geophysical Research Letters, 1993, 20, 459-462.	4.0	29
27	A three-dimensional simulation of the evolution of the middle latitude winter ozone in the middle stratosphere. Journal of Geophysical Research, 1997, 102, 19217-19232.	3.3	29
28	Impact of aerosol direct effect on East Asian air quality during the EASTâ€AIRE campaign. Journal of Geophysical Research D: Atmospheres, 2016, 121, 6534-6554.	3.3	29
29	Wet scavenging of soluble gases in DC3 deep convective storms using WRFâ€Chem simulations and aircraft observations. Journal of Geophysical Research D: Atmospheres, 2016, 121, 4233-4257.	3.3	29
30	Midlatitude Lightning NO_x Production Efficiency Inferred From OMI and WWLLN Data. Journal of Geophysical Research D: Atmospheres, 2019, 124, 13475-13497.	3.3	25
31	Effects of source temporal resolution on transport simulations of boreal fire emissions. Journal of Geophysical Research, 2007, 112, .	3.3	24
32	Aerosol indirect effect on tropospheric ozone via lightning. Journal of Geophysical Research, 2012, 117, .	3.3	24
33	Processes controlling dimethylsulfide over the ocean: Case studies using a 3-D model driven by assimilated meteorological fields. Journal of Geophysical Research, 1998, 103, 8341-8353.	3.3	21
34	The influlence of polar heterogeneous processes on reactive chlorine at middle latitudes: Three dimensional model implications. Geophysical Research Letters, 1991, 18, 25-28.	4.0	20
35	Simulating lightning NO production in CMAQv5.2: evolution of scientific updates. Geoscientific Model Development, 2019, 12, 3071-3083.	3.6	20
36	An evaluation of deep convective mixing in the Goddard Chemical Transport Model using International Satellite Cloud Climatology Project cloud parameters. Journal of Geophysical Research, 1997, 102, 25467-25476.	3.3	19

#	Article	IF	Citations
37	Three dimensional simulation of hydrogen chloride and hydrogen fluoride during the Airborne Arctic Stratospheric Expedition. Geophysical Research Letters, 1990, 17, 529-532.	4.0	18
38	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. Journal of Geophysical Research, 2011, 116, .	3.3	18
39	Simulating lightning NO production in CMAQv5.2: performance evaluations. Geoscientific Model Development, 2019, 12, 4409-4424.	3.6	18
40	Wintertime Nitric Acid Chemistry: Implications from Three-Dimensional Model Calculations. Journals of the Atmospheric Sciences, 1990, 47, 2696-2709.	1.7	17
41	Regional air pollution and its radiative forcing: Studies with a single-column chemical and radiation transport model. Journal of Geophysical Research, 2001, 106, 28751-28770.	3.3	17
42	Lightning NO_x Production in the Tropics as Determined Using OMI NO₂ Retrievals and WWLLN Stroke Data. Journal of Geophysical Research D: Atmospheres, 2019, 124, 13498-13518.	3.3	17
43	Spatial and temporal variability of the extent of chemically processed stratospheric air. Geophysical Research Letters, 1991, 18, 29-32.	4.0	15
44	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. Journal of Geophysical Research, 2004, 109, .	3.3	12
45	Global simulation of tropospheric ozone using the University of Maryland Chemical Transport Model (UMD-CTM): 1. Model description and evaluation. Journal of Geophysical Research, 2004, 109, .	3.3	11
46	Global O₃â€“CO correlations in a chemistry and transport model during Julyâ€“August: evaluation with TES satellite observations and sensitivity to input meteorological data and emissions. Atmospheric Chemistry and Physics, 2017, 17, 8429-8452.	4.9	10
47	Observations of Lightning NO_x Production From Tropospheric Monitoring Instrument Case Studies Over the United States. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD034174.	3.3	10
48	Tracer evolution in winds generated by a global spectral mechanistic model. Journal of Geophysical Research, 1994, 99, 5399.	3.3	9
49	Evaluation of deep convective transport in storms from different convective regimes during the DC3 field campaign using WRFâ€Chem with lightning data assimilation. Journal of Geophysical Research D: Atmospheres, 2017, 122, 7140-7163.	3.3	9
50	Evaluation of Parameterized Convective Transport of Trace Gases in Simulation of Storms Observed During the DC3 Field Campaign. Journal of Geophysical Research D: Atmospheres, 2018, 123, 11238-11261.	3.3	9
51	Observations of Lightning NO_x Production From GOESâ€R Post Launch Test Field Campaign Flights. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD033769.	3.3	9
52	Quantification of lightning-produced NO_{<i>x</i>} over the Pyrenees and the Ebro Valley by using different TROPOMI-NO₂ and cloud research products. Atmospheric Measurement Techniques, 2022, 15, 3329-3351.	3.1	6
53	Three Dimensions Simulation of Spatial and Temporal Variability of Stratospheric Hydrogen Chloride. Geophysical Research Letters, 1989, 16, 1149-1152.	4.0	5
54	Wet Scavenging in WRFâ€Chem Simulations of Parameterized Convection for a Severe Storm During the DC3 Field Campaign. Journal of Geophysical Research D: Atmospheres, 2019, 124, 7413-7428.	3.3	4

#	Article	IF	Citations
55	Multidecadal trends in ozone chemistry in the Baltimore-Washington Region. Atmospheric Environment, 2022, 285, 119239.	4.1	4
56	3-D Transport-Chemistry Studies of the Stratosphere Using Satellite Data Together with Data Assimilation. , 1993, , 179-198.		3
57	Investigation of the Community Multiscale air quality (CMAQ) model representation of the Climate Penalty Factor (CPF). Atmospheric Environment, 2022, 283, 119157.	4.1	3
58	Satellite observation and mapping of wintertime ozone variability in the lower stratosphere. Journal of Atmospheric and Solar-Terrestrial Physics, 1993, 55, 1081-1088.	0.9	1