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List of Publications by Year in descending order

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85
papers

11,471
citations

53751

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53190

85
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85
all docs

85
docs citations

85
times ranked

10110
citing authors

#	ARTICLE	IF	CITATIONS
1	Extending the Atmospheric River Concept to Aerosols: Climate and Air Quality Impacts. Geophysical Research Letters, 2021, 48, e2020GL091827.	1.5	16
2	Ensemble simulations of the role of the stratosphere in the attribution of northern extratropical tropospheric ozone variability. Atmospheric Chemistry and Physics, 2015, 15, 2341-2365.	1.9	32
3	On the capabilities and limitations of GCM simulations of summertime regional air quality: A diagnostic analysis of ozone and temperature simulations in the US using CESM CAM-Chem. Atmospheric Environment, 2015, 101, 134-148.	1.9	43
4	The response of the equatorial tropospheric ozone to the Madden-Julian Oscillation in TES satellite observations and CAM-chem model simulation. Atmospheric Chemistry and Physics, 2014, 14, 11775-11790.	1.9	8
5	Off-line algorithm for calculation of vertical tracer transport in the troposphere due to deep convection. Atmospheric Chemistry and Physics, 2013, 13, 1093-1114.	1.9	27
6	Stratospheric impact on tropospheric ozone variability and trends: 1990-2009. Atmospheric Chemistry and Physics, 2013, 13, 649-674.	1.9	78
7	TransCom model simulations of methane: Comparison of vertical profiles with aircraft measurements. Journal of Geophysical Research D: Atmospheres, 2013, 118, 3891-3904.	1.2	24
8	A multimodel assessment of the influence of regional anthropogenic emission reductions on aerosol direct radiative forcing and the role of intercontinental transport. Journal of Geophysical Research D: Atmospheres, 2013, 118, 700-720.	1.2	49
9	Tropospheric ozone decrease due to the Mount Pinatubo eruption: Reduced stratospheric influx. Geophysical Research Letters, 2013, 40, 5553-5558.	1.5	20
10	CAM-chem: description and evaluation of interactive atmospheric chemistry in the Community Earth System Model. Geoscientific Model Development, 2012, 5, 369-411.	1.3	633
11	Toward a minimal representation of aerosols in climate models: description and evaluation in the Community Atmosphere Model CAM5. Geoscientific Model Development, 2012, 5, 709-739.	1.3	807
12	Tagged ozone mechanism for MOZART-4, CAM-chem and other chemical transport models. Geoscientific Model Development, 2012, 5, 1531-1542.	1.3	59
13	The changing radiative forcing of fires: global model estimates for past, present and future. Atmospheric Chemistry and Physics, 2012, 12, 10857-10886.	1.9	212
14	Modelling future changes in surface ozone: a parameterized approach. Atmospheric Chemistry and Physics, 2012, 12, 2037-2054.	1.9	155
15	The influence of ozone precursor emissions from four world regions on tropospheric composition and radiative climate forcing. Journal of Geophysical Research, 2012, 117, .	3.3	97
16	Asian influence on surface ozone in the United States: A comparison of chemistry, seasonality, and transport mechanisms. Journal of Geophysical Research, 2011, 116, .	3.3	63
17	Aerosol Impacts on Climate and Biogeochemistry. Annual Review of Environment and Resources, 2011, 36, 45-74.	5.6	207
18	TransCom model simulations of CH ₄ and related species: linking transport, surface flux and chemical loss with CH ₄ variability in the troposphere and lower stratosphere. Atmospheric Chemistry and Physics, 2011, 11, 12813-12837.	1.9	331

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19	Barriers to predicting changes in global terrestrial methane fluxes: analyses using CLM4Me, a methane biogeochemistry model integrated in CESM. <i>Biogeosciences</i> , 2011, 8, 1925-1953.	1.3	325
20	Impact of Mexico City emissions on regional air quality from MOZART-4 simulations. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 6195-6212.	1.9	82
21	Description and evaluation of the Model for Ozone and Related chemical Tracers, version 4 (MOZART-4). <i>Geoscientific Model Development</i> , 2010, 3, 43-67.	1.3	1,590
22	A multi-model analysis of vertical ozone profiles. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 5759-5783.	1.9	70
23	Constraints on black carbon aerosol distribution from Measurement of Pollution in the Troposphere (MOPITT) CO. <i>Geophysical Research Letters</i> , 2010, 37, .	1.5	9
24	Intercontinental Impacts of Ozone Pollution on Human Mortality. <i>Environmental Science & Technology</i> , 2009, 43, 6482-6487.	4.6	126
25	Multimodel estimates of intercontinental source-receptor relationships for ozone pollution. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	430
26	Springtime warming and reduced snow cover from carbonaceous particles. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 2481-2497.	1.9	492
27	The influence of foreign vs. North American emissions on surface ozone in the US. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 5027-5042.	1.9	141
28	Interannual variability in hindcasts of atmospheric chemistry: the role of meteorology. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 5261-5280.	1.9	23
29	Impact of the summer 2004 Alaska fires on top of the atmosphere clear-sky radiation fluxes. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	30
30	Contribution of isoprene to chemical budgets: A model tracer study with the NCAR CTM MOZART-4. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	154
31	Predicted change in global secondary organic aerosol concentrations in response to future climate, emissions, and land use change. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	335
32	Simulated lower stratospheric trends between 1970 and 2005: Identifying the role of climate and composition changes. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	57
33	A multi-model study of the hemispheric transport and deposition of oxidised nitrogen. <i>Geophysical Research Letters</i> , 2008, 35, .	1.5	76
34	Analysis of the Summer 2004 ozone budget over the United States using Intercontinental Transport Experiment Ozone Sonde Network Study (IONS) observations and Model of Ozone and Related Tracers (MOZART-4) simulations. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	51
35	A multi-model assessment of pollution transport to the Arctic. <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 5353-5372.	1.9	419
36	Evaluating model performance of an ensemble-based chemical data assimilation system during INTEX-B field mission. <i>Atmospheric Chemistry and Physics</i> , 2007, 7, 5695-5710.	1.9	53

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37	Ozone source attribution and its modulation by the Arctic oscillation during the spring months. Journal of Geophysical Research, 2007, 112, .	3.3	43
38	Observational constraints on the chemistry of isoprene nitrates over the eastern United States. Journal of Geophysical Research, 2007, 112, .	3.3	200
39	Sensitivity of chemical tracers to meteorological parameters in the MOZART-3 chemical transport model. Journal of Geophysical Research, 2007, 112, .	3.3	395
40	Surface ozone in the Indian region. Atmospheric Environment, 2007, 41, 6572-6584.	1.9	76
41	An ozone depletion event in the sub-arctic surface layer over Hudson Bay, Canada. Journal of Atmospheric Chemistry, 2007, 57, 255-280.	1.4	13
42	The Impact of Boreal Forest Fire on Climate Warming. Science, 2006, 314, 1130-1132.	6.0	765
43	How does climate change contribute to surface ozone change over the United States?. Journal of Geophysical Research, 2006, 111, .	3.3	188
44	Ozone pollution from future ship traffic in the Arctic northern passages. Geophysical Research Letters, 2006, 33, .	1.5	66
45	Ozone production from the 2004 North American boreal fires. Journal of Geophysical Research, 2006, 111, .	3.3	114
46	Sensitivity of top-down estimates of CO sources to GCTM transport. Geophysical Research Letters, 2006, 33, .	1.5	45
47	Characteristics of Atmospheric Transport Using Three Numerical Formulations for Atmospheric Dynamics in a Single GCM Framework. Journal of Climate, 2006, 19, 2243-2266.	1.2	61
48	A comparison of two paradigms: The relative global roles of moist convective versus nonconvective transport. Journal of Geophysical Research, 2005, 110, .	3.3	38
49	Southern Ocean ventilation inferred from seasonal cycles of atmospheric N ₂ O and O ₂ /N ₂ at Cape Grim, Tasmania. Tellus, Series B: Chemical and Physical Meteorology, 2005, 57, 218-229.	0.8	29
50	Tropospheric ozone evolution between 1890 and 1990. Journal of Geophysical Research, 2005, 110, .	3.3	134
51	Quantifying CO emissions from the 2004 Alaskan wildfires using MOPITT CO data. Geophysical Research Letters, 2005, 32, .	1.5	163
52	Response of a coupled chemistry-climate model to changes in aerosol emissions: Global impact on the hydrological cycle and the tropospheric burdens of OH, ozone, and NO _x . Geophysical Research Letters, 2005, 32, .	1.5	57
53	Assessing future nitrogen deposition and carbon cycle feedback using a multimodel approach: Analysis of nitrogen deposition. Journal of Geophysical Research, 2005, 110, .	3.3	266
54	Industrial emissions cause extreme urban ozone diurnal variability. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 6346-6350.	3.3	153

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55	Arctic Oscillation modulation of the Northern Hemisphere spring tropospheric ozone. <i>Geophysical Research Letters</i> , 2004, 31, n/a-n/a.	1.5	29
56	Chemical characterization of ozone formation in the Houston-Galveston area: A chemical transport model study. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	79
57	Assimilation of the 2000â€“2001 CO MOPITT retrievals with optimized surface emissions. <i>Geophysical Research Letters</i> , 2004, 31, .	1.5	22
58	Changes in the photochemical environment of the temperate North Pacific troposphere in response to increased Asian emissions. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	86
59	Ozone, aerosol, potential vorticity, and trace gas trends observed at high-latitudes over North America from February to May 2000. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	59
60	Effect of sulfate aerosol on tropospheric NO _x and ozone budgets: Model simulations and TOPSE evidence. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	70
61	Model analysis of the temporal and geographical origin of the CO distribution during the TOPSE campaign. <i>Journal of Geophysical Research</i> , 2003, 108, TOP 2-1.	3.3	28
62	Seasonal changes in the transport of pollutants into the Arctic troposphere-model study. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	150
63	Budget of tropospheric ozone during TOPSE from two chemical transport models. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	56
64	Intercontinental transport, chemical transformations, and baroclinic systems. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	23
65	Effect of marine boundary layer clouds on tropospheric chemistry as analyzed in a regional chemistry transport model. <i>Journal of Geophysical Research</i> , 2002, 107, AAC 7-1-AAC 7-12.	3.3	25
66	Characterization of oscillation and a period-doubling transition to chaos reflecting dynamic instability in a simplified model of tropospheric chemistry. <i>Journal of Geophysical Research</i> , 2001, 106, 7553-7565.	3.3	17
67	Model and measurement analysis of springtime transport and chemistry of the Pacific basin. <i>Journal of Geophysical Research</i> , 2001, 106, 12689-12717.	3.3	9
68	Episodic modeling of the chemical structure of the troposphere as revealed during the spring MLOPEX 2 intensive. <i>Journal of Geophysical Research</i> , 2000, 105, 26809-26839.	3.3	34
69	Analysis of tropospheric transport in the Pacific Basin using the adjoint technique. <i>Journal of Geophysical Research</i> , 2000, 105, 7213-7230.	3.3	49
70	Hemispheric asymmetry of chemical species and its effect on stratospheric ozone: Emphasis on halogen loading. <i>Advances in Space Research</i> , 1999, 24, 1631-1636.	1.2	2
71	Three-dimensional model study of the influence of stratosphere-troposphere exchange and its distribution on tropospheric chemistry. <i>Journal of Geophysical Research</i> , 1999, 104, 26363-26372.	3.3	20
72	On tropospheric chemical oscillations. <i>Journal of Geophysical Research</i> , 1997, 102, 15949-15965.	3.3	21

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73	Aircraft measurements made during the spring maximum of ozone over Hawaii: Peroxides, CO, O ₃ , NO _y , condensation nuclei, selected hydrocarbons, halocarbons, and alkyl nitrates between 0.5 and 9 km altitude. <i>Journal of Geophysical Research</i> , 1997, 102, 18935-18961.	3.3	40
74	Ozone mass exchange between the stratosphere and troposphere for background and volcanic sulfate aerosol conditions. <i>Journal of Geophysical Research</i> , 1997, 102, 25487-25500.	3.3	19
75	Hemispheric asymmetries and seasonal variations of the lowermost stratospheric water vapor and ozone derived from SAGE II data. <i>Journal of Geophysical Research</i> , 1997, 102, 28177-28184.	3.3	60
76	Trajectories and related variations in the chemical composition of air for the Mauna Loa Observatory during 1991 and 1992. <i>Journal of Geophysical Research</i> , 1996, 101, 14543-14568.	3.3	28
77	HNO ₃ /NO _x ratio in the remote troposphere During MLOPEX 2: Evidence for nitric acid reduction on carbonaceous aerosols?. <i>Geophysical Research Letters</i> , 1996, 23, 2609-2612.	1.5	110
78	Three-dimensional study of the relative contributions of the different nitrogen sources in the troposphere. <i>Journal of Geophysical Research</i> , 1996, 101, 22955-22968.	3.3	98
79	A Three-Dimensional Modeling Study of the Extratropical Quasi-Biennial Oscillation in Ozone. <i>Journals of the Atmospheric Sciences</i> , 1995, 52, 1539-1554.	0.6	16
80	Maintenance of the Intertropical Convergence Zones and the Large-Scale Tropical Circulation on a Water-covered Earth. <i>Journals of the Atmospheric Sciences</i> , 1993, 50, 691-713.	0.6	99
81	The Relationship Between Mixed Rossby-Gravity Waves and Convection in a General Circulation Model. <i>Journal of the Meteorological Society of Japan</i> , 1993, 71, 321-338.	0.7	3
82	Mixing Processes Following the Final Stratospheric Warming. <i>Journals of the Atmospheric Sciences</i> , 1991, 48, 1625-1641.	0.6	36
83	Variance in trace constituents following the final stratospheric warming. <i>Journal of Geophysical Research</i> , 1990, 95, 13765-13779.	3.3	10
84	The Origin of Temporal Variance in Long-Lived Trace Constituents in the Summer Stratosphere. <i>Journals of the Atmospheric Sciences</i> , 1985, 42, 1455-1463.	0.6	41
85	Tracer Transport by Planetary Waves: A Comparison of Explicit and Parameterized Models. <i>Journals of the Atmospheric Sciences</i> , 1985, 42, 1580-1591.	0.6	2