

Timothy Canty

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7476778/publications.pdf>

Version: 2024-02-01

54
papers

1,874
citations

279701

23
h-index

289141

40
g-index

59
all docs

59
docs citations

59
times ranked

2636
citing authors

#	ARTICLE	IF	CITATIONS
1	Investigation of the Community Multiscale air quality (CMAQ) model representation of the Climate Penalty Factor (CPF). Atmospheric Environment, 2022, 283, 119157.	1.9	3
2	Multidecadal trends in ozone chemistry in the Baltimore-Washington Region. Atmospheric Environment, 2022, 285, 119239.	1.9	4
3	Evaluation of the Stratospheric and Tropospheric Bromine Burden Over Fairbanks, Alaska Based on Column Retrievals of Bromine Monoxide. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD032896.	1.2	1
4	Comparison of CMIP6 historical climate simulations and future projected warming to an empirical model of global climate. Earth System Dynamics, 2021, 12, 545-579.	2.7	14
5	Acute ambient air pollution exposure and placental Doppler results in the NICHD fetal growth studies "Singleton cohort. Environmental Research, 2021, 202, 111728.	3.7	4
6	Using near-road observations of CO, NO _y , and CO ₂ to investigate emissions from vehicles: Evidence for an impact of ambient temperature and specific humidity. Atmospheric Environment, 2020, 232, 117558.	1.9	16
7	Measured and modelled ozone photochemical production in the Baltimore-Washington airshed. Atmospheric Environment: X, 2019, 2, 100017.	0.8	5
8	Linking improvements in sulfur dioxide emissions to decreasing sulfate wet deposition by combining satellite and surface observations with trajectory analysis. Atmospheric Environment, 2019, 199, 210-223.	1.9	14
9	Evaluating commercial marine emissions and their role in air quality policy using observations and the CMAQ model. Atmospheric Environment, 2018, 173, 96-107.	1.9	30
10	Link Between Arctic Tropospheric BrO Explosion Observed From Space and Sea Salt Aerosols From Blowing Snow Investigated Using Ozone Monitoring Instrument BrO Data and GEOS Data Assimilation System. Journal of Geophysical Research D: Atmospheres, 2018, 123, 6954-6983.	1.2	23
11	The impact of MISR-derived injection height initialization on wildfire and volcanic plume dispersion in the HYSPLIT model. Atmospheric Measurement Techniques, 2018, 11, 6289-6307.	1.2	24
12	Changes in Global Tropospheric OH Expected as a Result of Climate Change Over the Last Several Decades. Journal of Geophysical Research D: Atmospheres, 2018, 123, 10,774.	1.2	31
13	Stratospheric Injection of Brominated Very Short-Lived Substances: Aircraft Observations in the Western Pacific and Representation in Global Models. Journal of Geophysical Research D: Atmospheres, 2018, 123, 5690-5719.	1.2	36
14	Stratospheric Ozone Depletion and Recovery. , 2018, , 177-209.		9
15	Quantifying the causes of differences in tropospheric OH within global models. Journal of Geophysical Research D: Atmospheres, 2017, 122, 1983-2007.	1.2	27
16	Expected ozone benefits of reducing nitrogen oxide (NO _x) emissions from coal-fired electricity generating units in the eastern United States. Journal of the Air and Waste Management Association, 2017, 67, 279-291.	0.9	5
17	Formaldehyde in the Tropical Western Pacific: Chemical Sources and Sinks, Convective Transport, and Representation in CAM-Chem and the CCM1 Models. Journal of Geophysical Research D: Atmospheres, 2017, 122, 11201-11226.	1.2	32
18	Impact of evolving isoprene mechanisms on simulated formaldehyde: An inter-comparison supported by in situ observations from SENEX. Atmospheric Environment, 2017, 164, 325-336.	1.9	33

#	ARTICLE	IF	CITATIONS
19	Paris Climate Agreement: Beacon of Hope. Springer Climate, 2017, , .	0.3	20
20	Forecasting Global Warming. Springer Climate, 2017, , 51-113.	0.3	9
21	Paris INDCs. Springer Climate, 2017, , 115-146.	0.3	6
22	Earth's Climate System. Springer Climate, 2017, , 1-50.	0.3	1
23	The kinetics of the CLOOCl catalytic cycle. Journal of Geophysical Research D: Atmospheres, 2016, 121, 13,768.	1.2	9
24	An observationally constrained evaluation of the oxidative capacity in the tropical western Pacific troposphere. Journal of Geophysical Research D: Atmospheres, 2016, 121, 7461-7488.	1.2	18
25	The effect of representing bromine from VLS on the simulation and evolution of Antarctic ozone. Geophysical Research Letters, 2016, 43, 9869-9876.	1.5	23
26	CAMx ozone source attribution in the eastern United States using guidance from observations during DISCOVER-AQ Maryland. Geophysical Research Letters, 2016, 43, 2249-2258.	1.5	39
27	A pervasive role for biomass burning in tropical high ozone/low water structures. Nature Communications, 2016, 7, 10267.	5.8	33
28	Evidence for an increase in the ozone photochemical lifetime in the eastern United States using a regional air quality model. Journal of Geophysical Research D: Atmospheres, 2015, 120, 12778-12793.	1.2	14
29	Ozone and NO ₂ chemistry in the eastern US: evaluation of CMAQ/CB05 with satellite (OMI) data. Atmospheric Chemistry and Physics, 2015, 15, 10965-10982.	1.9	84
30	Measured and modeled CO and NO _y in DISCOVER-AQ: An evaluation of emissions and chemistry over the eastern US. Atmospheric Environment, 2014, 96, 78-87.	1.9	114
31	Constraints for the photolysis rate and the equilibrium constant of ClO dimer from airborne and balloonborne measurements of chlorine compounds. Journal of Geophysical Research D: Atmospheres, 2014, 119, 6916-6937.	1.2	1
32	Emissions estimation from satellite retrievals: A review of current capability. Atmospheric Environment, 2013, 77, 1011-1042.	1.9	323
33	High ozone concentrations on hot days: The role of electric power demand and NO _x emissions. Geophysical Research Letters, 2013, 40, 5291-5294.	1.5	46
34	New retrieval of BrO from SCIAMACHY limb: an estimate of the stratospheric bromine loading during April 2008. Atmospheric Measurement Techniques, 2013, 6, 2549-2561.	1.2	8
35	An empirical model of global climate – Part 1: A critical evaluation of volcanic cooling. Atmospheric Chemistry and Physics, 2013, 13, 3997-4031.	1.9	59
36	Trends in emissions and concentrations of air pollutants in the lower troposphere in the Baltimore/Washington airshed from 1997 to 2011. Atmospheric Chemistry and Physics, 2013, 13, 7859-7874.	1.9	55

#	ARTICLE	IF	CITATIONS
37	Impact of very short-lived halogens on stratospheric ozone abundance and UV radiation in a geo-engineered atmosphere. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 10945-10955.	1.9	53
38	Characterization of soluble bromide measurements and a case study of BrO observations during ARCTAS. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 1327-1338.	1.9	27
39	Analysis of satellite-derived Arctic tropospheric BrO columns in conjunction with aircraft measurements during ARCTAS and ARCPAC. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 1255-1285.	1.9	63
40	Retrievals of chlorine chemistry kinetic parameters from Antarctic ClO microwave radiometer measurements. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 5183-5193.	1.9	12
41	A new interpretation of total column BrO during Arctic spring. <i>Geophysical Research Letters</i> , 2010, 37, .	1.5	116
42	Multimodel assessment of the factors driving stratospheric ozone evolution over the 21st century. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	66
43	Polar stratospheric chlorine kinetics from a self-match flight during SOLVE/EUPLEX. <i>Geophysical Research Letters</i> , 2008, 35, .	1.5	20
44	Validation of Aura Microwave Limb Sounder OH and HO ₂ measurements. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	48
45	Validation of Aura Microwave Limb Sounder OH measurements with Fourier Transform Ultraviolet Spectrometer total OH column measurements at Table Mountain, California. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	11
46	Understanding the kinetics of the ClO dimer cycle. <i>Atmospheric Chemistry and Physics</i> , 2007, 7, 3055-3069.	1.9	65
47	Validation of Aura MLS HO _x measurements with remote-sensing balloon instruments. <i>Geophysical Research Letters</i> , 2006, 33, n/a-n/a.	1.5	24
48	Toward a better quantitative understanding of polar stratospheric ozone loss. <i>Geophysical Research Letters</i> , 2006, 33, n/a-n/a.	1.5	58
49	Stratospheric and mesospheric HO _x : Results from Aura MLS and FIRS-2. <i>Geophysical Research Letters</i> , 2006, 33, .	1.5	33
50	Nighttime OCIO in the winter Arctic vortex. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	27
51	A measurement/model comparison of ozone photochemical loss in the Antarctic ozone hole using Polar Ozone and Aerosol Measurement observations and the Match technique. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	20
52	Denitrification in the Arctic mid-winter 2004/2005 observed by airborne submillimeter radiometry. <i>Geophysical Research Letters</i> , 2005, 32, n/a-n/a.	1.5	21
53	Hydroxyl column abundance measurements: PEPSIOS instrumentation at the Fritz Peak Observatory and data analysis techniques. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2003, 65, 335-344.	0.6	6
54	Seasonal and solar cycle variability of OH in the middle atmosphere. <i>Journal of Geophysical Research</i> , 2002, 107, ACH 1-1.	3.3	21