

Dylan B A Jones

List of Publications by Year in descending order

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99
papers

7,213
citations

87723

38
h-index

66788

78
g-index

128
all docs

128
docs citations

128
times ranked

6335
citing authors

#	ARTICLE	IF	CITATIONS
1	The quasi-biennial oscillation. <i>Reviews of Geophysics</i> , 2001, 39, 179-229.	9.0	1,650
2	Three-dimensional climatological distribution of tropospheric OH: Update and evaluation. <i>Journal of Geophysical Research</i> , 2000, 105, 8931-8980.	3.3	730
3	Precision requirements for space-based data. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	322
4	Comparative inverse analysis of satellite (MOPITT) and aircraft (TRACE-P) observations to estimate Asian sources of carbon monoxide. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	217
5	Improved estimate of the policy-relevant background ozone in the United States using the GEOS-Chem global model with 1/2°–2/3° horizontal resolution over North America. <i>Atmospheric Environment</i> , 2011, 45, 6769-6776.	1.9	190
6	Inverting for emissions of carbon monoxide from Asia using aircraft observations over the western Pacific. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	178
7	Quantifying CO ₂ Emissions From Individual Power Plants From Space. <i>Geophysical Research Letters</i> , 2017, 44, 10,045.	1.5	174
8	Terrestrial gross primary production inferred from satellite fluorescence and vegetation models. <i>Global Change Biology</i> , 2014, 20, 3103-3121.	4.2	161
9	Unexpected slowdown of US pollutant emission reduction in the past decade. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 5099-5104.	3.3	137
10	Inferring regional sources and sinks of atmospheric CO ₂ from GOSAT XCO ₂ data. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 3703-3727.	1.9	120
11	Modeling global atmospheric CO ₂ with improved emission inventories and CO ₂ production from the oxidation of other carbon species. <i>Geoscientific Model Development</i> , 2010, 3, 689-716.	1.3	117
12	The 2015–2016 carbon cycle as seen from OCO-2 and the global in situ network. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 9797-9831.	1.9	113
13	Characterization of Tropospheric Emission Spectrometer (TES) CO ₂ for carbon cycle science. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 5601-5623.	1.9	100
14	Congo Basin precipitation: Assessing seasonality, regional interactions, and sources of moisture. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 6882-6898.	1.2	95
15	Quantifying the Impact of Atmospheric Transport Uncertainty on CO ₂ Surface Flux Estimates. <i>Global Biogeochemical Cycles</i> , 2019, 33, 484-500.	1.9	95
16	Inverse modeling of CO ₂ sources and sinks using satellite observations of CO ₂ from TES and surface flask measurements. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 6029-6047.	1.9	94
17	Analysis of tropical tropospheric ozone, carbon monoxide, and water vapor during the 2006 El Niño using TES observations and the GEOS-Chem model. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	92
18	A 15-year record of CO emissions constrained by MOPITT CO observations. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 4565-4583.	1.9	92

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37	Quasi-biennial oscillation in tropical ozone as revealed by ozonesonde and satellite data. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	48
38	Ozone production in boreal fire smoke plumes using observations from the Tropospheric Emission Spectrometer and the Ozone Monitoring Instrument. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	48
39	Improved analysis error covariance matrix for high-dimensional variational inversions: application to source estimation using a 3D atmospheric transport model. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2015, 141, 1906-1921.	1.0	48
40	Measurement of low-altitude CO over the Indian subcontinent by MOPITT. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	47
41	Societal shifts due to COVID-19 reveal large-scale complexities and feedbacks between atmospheric chemistry and climate change. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	42
42	The vertical distribution of ozone instantaneous radiative forcing from satellite and chemistry climate models. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	40
43	El Niño, the 2006 Indonesian peat fires, and the distribution of atmospheric methane. <i>Geophysical Research Letters</i> , 2013, 40, 4938-4943.	1.5	40
44	Combining GOSAT CO ₂ observations over land and ocean to improve regional CO ₂ flux estimates. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 1896-1913.	1.2	37
45	Evidence for an additional source of atmospheric N ₂ O. <i>Global Biogeochemical Cycles</i> , 1996, 10, 651-659.	1.9	34
46	Transport analysis of ozone enhancement in Southern Ontario during BAQS-Met. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 2569-2583.	1.9	34
47	Sensitivity of top-down CO source estimates to the modeled vertical structure in atmospheric CO. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 1521-1537.	1.9	33
48	Global land mapping of satellite-observed CO ₂ total columns using spatio-temporal geostatistics. <i>International Journal of Digital Earth</i> , 2017, 10, 426-456.	1.6	33
49	Error correlation between CO ₂ and CO as constraint for CO ₂ flux inversions using satellite data. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 7313-7323.	1.9	32
50	Regional data assimilation of multi-spectral MOPITT observations of CO over North America. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 6801-6814.	1.9	30
51	Large horizontal gradients in atmospheric CO at the synoptic scale as seen by spaceborne Measurements of Pollution in the Troposphere. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	29
52	Influence of interannual variations in transport on summertime abundances of ozone over the Middle East. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	29
53	Improved method for linear carbon monoxide simulation and source attribution in atmospheric chemistry models illustrated using GEOS-Chem v9. <i>Geoscientific Model Development</i> , 2017, 10, 4129-4144.	1.3	29
54	Characterizing model errors in chemical transport modeling of methane: impact of model resolution in versions v9-02 of GEOS-Chem and v35j of its adjoint model. <i>Geoscientific Model Development</i> , 2020, 13, 3839-3862.	1.3	27

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55	Detection and attribution of wildfire pollution in the Arctic and northern midlatitudes using a network of Fourier-transform infrared spectrometers and GEOS-Chem. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 12813-12851.	1.9	26
56	The zonal structure of tropical O ₃ and CO as observed by the Tropospheric Emission Spectrometer in November 2004 – Part 2: Impact of surface emissions on O ₃ and its precursors. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 3563-3582.	1.9	25
57	Origin of springtime ozone enhancements in the lower troposphere over Beijing: in situ measurements and model analysis. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 5161-5179.	1.9	25
58	Unprecedented Atmospheric Ammonia Concentrations Detected in the High Arctic From the 2017 Canadian Wildfires. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 8178-8202.	1.2	25
59	Constraints on Asian ozone using Aura TES, OMI and Terra MOPITT. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 99-112.	1.9	24
60	Ozone export from East Asia: The role of PAN. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 6555-6563.	1.2	24
61	Sensitivity of CO ₂ surface flux constraints to observational coverage. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 6672-6694.	1.2	24
62	Analysis of residual mean transport in the stratosphere: 1. Model description and comparison with satellite data. <i>Journal of Geophysical Research</i> , 2000, 105, 19991-20011.	3.3	23
63	Comparison of improved Aura Tropospheric Emission Spectrometer CO ₂ with HIPPO and SGP aircraft profile measurements. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 3205-3225.	1.9	22
64	Evaluating GPP and Respiration Estimates Over Northern Midlatitude Ecosystems Using Solar-Induced Fluorescence and Atmospheric CO ₂ Measurements. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2018, 123, 2976-2997.	1.3	21
65	Evaluation of MOPITT Version 7 joint TIR-NIR X _{CO} retrievals with TCCON. <i>Atmospheric Measurement Techniques</i> , 2019, 12, 5547-5572.	1.2	21
66	Vertical transport rates and concentrations of OH and Cl radicals in the Tropical Tropopause Layer from observations of CO ₂ and halocarbons: implications for distributions of long- and short-lived chemical species. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 6669-6684.	1.9	19
67	Satellite observations of CO ₂ from a highly elliptical orbit for studies of the Arctic and boreal carbon cycle. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 2654-2673.	1.2	19
68	Sensitivity analysis of the potential impact of discrepancies in stratosphere-troposphere exchange on inferred sources and sinks of CO ₂ . <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 11773-11788.	1.9	19
69	On the contribution of anthropogenic Cl to the increase in $\delta^{13}C$ of atmospheric methane. <i>Global Biogeochemical Cycles</i> , 2002, 16, 20-1-20-11.	1.9	16
70	Constraints on meridional transport in the stratosphere imposed by the mean age of air in the lower stratosphere. <i>Journal of Geophysical Research</i> , 2001, 106, 10243-10256.	3.3	15
71	Carbon monoxide (CO) maximum over the Zagros mountains in the Middle East: Signature of mountain venting?. <i>Geophysical Research Letters</i> , 2006, 33, .	1.5	15
72	Iconic CO ₂ Time Series at Risk. <i>Science</i> , 2012, 337, 1038-1040.	6.0	15

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73	Toronto area ozone: Long-term measurements and modeled sources of poor air quality events. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 11,368.	1.2	15
74	The Atmospheric Imaging Mission for Northern Regions: AIM-North. <i>Canadian Journal of Remote Sensing</i> , 2019, 45, 423-442.	1.1	14
75	Characterizing model errors in chemical transport modeling of methane: using GOSAT XCH ₄ data with weak-constraint four-dimensional variational data assimilation. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 9545-9572.	1.9	14
76	Decadal Variabilities in Tropospheric Nitrogen Oxides Over United States, Europe, and China. <i>Journal of Geophysical Research D: Atmospheres</i> , 2022, 127, e2021JD035872.	1.2	14
77	On what scales can GOSAT flux inversions constrain anomalies in terrestrial ecosystems?. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 13017-13035.	1.9	13
78	Estimates of black carbon emissions in the western United States using the GEOS-Chem adjoint model. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 7685-7702.	1.9	12
79	Impacts of anthropogenic and natural sources on free tropospheric ozone over the Middle East. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 6537-6546.	1.9	12
80	Sahel precipitation and regional teleconnections with the Indian Ocean. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 5654-5676.	1.2	12
81	Estimating 2010–2015 anthropogenic and natural methane emissions in Canada using ECCO surface and GOSAT satellite observations. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 18101-18121.	1.9	11
82	Spatial patterns and mechanisms of the quasi-biennial oscillation—annual beat of ozone. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	10
83	Emissions of methane in Europe inferred by total column measurements. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 3963-3980.	1.9	10
84	Monitoring Urban Greenhouse Gases Using Open-Path Fourier Transform Spectroscopy. <i>Atmosphere - Ocean</i> , 2020, 58, 25-45.	0.6	10
85	Quantifying Emissions of CO and NO _x Using Observations From MOPITT, OMI, TES, and OSIRIS. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 1170-1193.	1.2	9
86	A comparative analysis for a deep learning model (hyDL-CO v1.0) and Kalman filter to predict CO concentrations in China. <i>Geoscientific Model Development</i> , 2022, 15, 4225-4237.	1.3	9
87	A comparison of posterior atmospheric CO ₂ adjustments obtained from in situ and GOSAT constrained flux inversions. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 12011-12044.	1.9	8
88	Detection of HCOOH, CH ₃ OH, CO, HCN, and C ₂ H ₆ in Wildfire Plumes Transported Over Toronto Using Ground-Based FTIR Measurements From 2002–2018. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2019JD031924.	1.2	8
89	Multiscale observations of NH ₃ around Toronto, Canada. <i>Atmospheric Measurement Techniques</i> , 2021, 14, 905-921.	1.2	7
90	Analysis of residual mean transport in the stratosphere: 2. Distributions of CO ₂ and mean age. <i>Journal of Geophysical Research</i> , 2000, 105, 20013-20024.	3.3	6

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91	Deep Learning to Evaluate US NO _x Emissions Using Surface Ozone Predictions. Journal of Geophysical Research D: Atmospheres, 2022, 127, .	1.2	6
92	Large discrepancy between observed and modeled wintertime tropospheric NO ₂ variabilities due to COVID-19 controls in China. Environmental Research Letters, 2022, 17, 035007.	2.2	4
93	Comment on "Seasonal distribution of ozone and its precursors over the tropical Indian region using regional chemistry-transport model" by Sompriti Roy et al.. Journal of Geophysical Research, 2009, 114, .	3.3	3
94	Improving GEOS-Chem Model Tropospheric Ozone through Assimilation of Pseudo Tropospheric Emission Spectrometer Profile Retrievals. Lecture Notes in Computer Science, 2009, , 302-311.	1.0	3
95	Coupling the Canadian Terrestrial Ecosystem Model (CTEM v. 2.0) to Environment and Climate Change Canada's greenhouse gas forecast model (v.107-glb). Geoscientific Model Development, 2018, 11, 631-663.	1.3	2
96	Atmospheric trace gas trends obtained from FTIR column measurements in Toronto, Canada from 2002-2019. Environmental Research Communications, 2021, 3, 051002.	0.9	1
97	The Environment and Climate Change Canada Carbon Assimilation System (EC-CAS v1.0): demonstration with simulated CO observations. Geoscientific Model Development, 2021, 14, 2525-2544.	1.3	1
98	The Resolvable Scales of Regional-Scale CO ₂ Transport in the Context of Imperfect Meteorology: The Predictability of CO ₂ in a Limited-Area Model. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2021JD034896.	1.2	1
99	Analysis of improvements in MOPITT observational coverage over Canada. Atmospheric Measurement Techniques, 2022, 15, 701-719.	1.2	1