

# Dylan B A Jones

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

112  
papers

5,724  
citations

37  
h-index

74  
g-index

128  
ext. papers

6,504  
ext. citations

6.1  
avg, IF

4.99  
L-index

#	Paper	IF	Citations
112	Decadal Variabilities in Tropospheric Nitrogen Oxides Over United States, Europe, and China. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2022</b> , 127, e2021JD035872	4.4	1
111	Analysis of improvements in MOPITT observational coverage over Canada. <i>Atmospheric Measurement Techniques</i> , <b>2022</b> , 15, 701-719	4	1
110	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> , <b>2022</b> , 15, 4225-4237	6.3	0
109	Estimating 2010-2015 anthropogenic and natural methane emissions in Canada using ECCO surface and GOSAT satellite observations. <i>Atmospheric Chemistry and Physics</i> , <b>2021</b> , 21, 18101-18121	6.8	5
108	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> , <b>2021</b> , 118,	11.5	5
107	The Resolvable Scales of Regional-Scale CO <sub>2</sub> Transport in the Context of Imperfect Meteorology: The Predictability of CO <sub>2</sub> in a Limited-Area Model. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2021</b> , 126, e2021JD034896	4.4	
106	Atmospheric trace gas trends obtained from FTIR column measurements in Toronto, Canada from 2002-2019. <i>Environmental Research Communications</i> , <b>2021</b> , 3, 051002	3.1	
105	The Environment and Climate Change Canada Carbon Assimilation System (EC-CAS v1.0): demonstration with simulated CO observations. <i>Geoscientific Model Development</i> , <b>2021</b> , 14, 2525-2544	6.3	1
104	Characterizing model errors in chemical transport modeling of methane: using GOSAT XCH <sub>4</sub> data with weak-constraint four-dimensional variational data assimilation. <i>Atmospheric Chemistry and Physics</i> , <b>2021</b> , 21, 9545-9572	6.8	3
103	Chinese Regulations Are Working Why Is Surface Ozone Over Industrialized Areas Still High? Applying Lessons From Northeast US Air Quality Evolution. <i>Geophysical Research Letters</i> , <b>2021</b> , 48, e2021GL092816	4.9	11
102	Multiscale observations of NH <sub>3</sub> around Toronto, Canada. <i>Atmospheric Measurement Techniques</i> , <b>2021</b> , 14, 905-921	4	3
101	Detection of HCOOH, CH <sub>3</sub> OH, CO, HCN, and C <sub>2</sub> H <sub>6</sub> in Wildfire Plumes Transported Over Toronto Using Ground-Based FTIR Measurements From 2002-2018. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2020</b> , 125, e2019JD031924	4.4	2
100	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> , <b>2020</b> , 20, 12813-12851	6.8	12
99	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> , <b>2020</b> , 13, 3839-3862	6.3	14
98	Global CO Emission Estimates Inferred from Assimilation of MOPITT CO, Together with Observations of O <sub>3</sub> , NO <sub>2</sub> , HNO <sub>3</sub> , and HCHO. <i>Springer Proceedings in Complexity</i> , <b>2020</b> , 219-224	0.3	
97	Monitoring Urban Greenhouse Gases Using Open-Path Fourier Transform Spectroscopy. <i>Atmosphere - Ocean</i> , <b>2020</b> , 58, 25-45	1.5	6
96	The 2015-2016 carbon cycle as seen from OCO-2 and the global in situ network. <i>Atmospheric Chemistry and Physics</i> , <b>2019</b> , 19, 9797-9831	6.8	66

95	Emissions of methane in Europe inferred by total column measurements. <i>Atmospheric Chemistry and Physics</i> , <b>2019</b> , 19, 3963-3980	6.8	8
94	Quantifying the Impact of Atmospheric Transport Uncertainty on CO Surface Flux Estimates. <i>Global Biogeochemical Cycles</i> , <b>2019</b> , 33, 484-500	5.9	52
93	Unprecedented Atmospheric Ammonia Concentrations Detected in the High Arctic From the 2017 Canadian Wildfires. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2019</b> , 124, 8178-8202	4.4	17
92	Quantifying Emissions of CO and NO <sub>x</sub> Using Observations From MOPITT, OMI, TES, and OSIRIS. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2019</b> , 124, 1170-1193	4.4	6
91	On what scales can GOSAT flux inversions constrain anomalies in terrestrial ecosystems?. <i>Atmospheric Chemistry and Physics</i> , <b>2019</b> , 19, 13017-13035	6.8	10
90	Evaluation of MOPITT Version 7 joint TIR/IR X <sub>2</sub> CO <sub>2</sub> retrievals with TCCON. <i>Atmospheric Measurement Techniques</i> , <b>2019</b> , 12, 5547-5572	4	12
89	The Atmospheric Imaging Mission for Northern Regions: AIM-North. <i>Canadian Journal of Remote Sensing</i> , <b>2019</b> , 45, 423-442	1.8	10
88	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> , <b>2018</b> , 115, 5099-5104	11.5	103
87	Evaluating GPP and Respiration Estimates Over Northern Midlatitude Ecosystems Using Solar-Induced Fluorescence and Atmospheric CO <sub>2</sub> Measurements. <i>Journal of Geophysical Research G: Biogeosciences</i> , <b>2018</b> , 123, 2976-2997	3.7	14
86	A comparison of posterior atmospheric CO <sub>2</sub> adjustments obtained from in situ and GOSAT constrained flux inversions. <i>Atmospheric Chemistry and Physics</i> , <b>2018</b> , 18, 12011-12044	6.8	5
85	Coupling the Canadian Terrestrial Ecosystem Model (CTEM v. 2.0) to Environment and Climate Change Canada's greenhouse gas forecast model (v.107-glb). <i>Geoscientific Model Development</i> , <b>2018</b> , 11, 631-663	6.3	2
84	Global land mapping of satellite-observed CO <sub>2</sub> total columns using spatio-temporal geostatistics. <i>International Journal of Digital Earth</i> , <b>2017</b> , 10, 426-456	3.9	25
83	Sahel precipitation and regional teleconnections with the Indian Ocean. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2017</b> , 122, 5654-5676	4.4	8
82	Improved method for linear carbon monoxide simulation and source attribution in atmospheric chemistry models illustrated using GEOS-Chem v9 <b>2017</b> ,		1
81	Quantifying CO <sub>2</sub> Emissions From Individual Power Plants From Space. <i>Geophysical Research Letters</i> , <b>2017</b> , 44, 10,045	4.9	114
80	Sensitivity of CO <sub>2</sub> surface flux constraints to observational coverage. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2017</b> , 122, 6672-6694	4.4	15
79	Congo Basin precipitation: Assessing seasonality, regional interactions, and sources of moisture. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2017</b> , 122, 6882-6898	4.4	61
78	A 15-year record of CO emissions constrained by MOPITT CO observations. <i>Atmospheric Chemistry and Physics</i> , <b>2017</b> , 17, 4565-4583	6.8	69

77	Improved method for linear carbon monoxide simulation and source attribution in atmospheric chemistry models illustrated using GEOS-Chem v9. <i>Geoscientific Model Development</i> , <b>2017</b> , 10, 4129-4144	6.3	17
76	Impacts of anthropogenic and natural sources on free tropospheric ozone over the Middle East. <i>Atmospheric Chemistry and Physics</i> , <b>2016</b> , 16, 6537-6546	6.8	7
75	Combining GOSAT XCO <sub>2</sub> observations over land and ocean to improve regional CO <sub>2</sub> flux estimates. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2016</b> , 121, 1896-1913	4.4	26
74	Ozone export from East Asia: The role of PAN. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2016</b> , 121, 6555-6563	4.4	17
73	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> , <b>2015</b> , 141, 1906-1921	6.4	35
72	Sensitivity analysis of the potential impact of discrepancies in stratosphere-troposphere exchange on inferred sources and sinks of CO <sub>2</sub> . <i>Atmospheric Chemistry and Physics</i> , <b>2015</b> , 15, 11773-11788	6.8	17
71	Estimates of black carbon emissions in the western United States using the GEOS-Chem adjoint model. <i>Atmospheric Chemistry and Physics</i> , <b>2015</b> , 15, 7685-7702	6.8	10
70	Regional data assimilation of multi-spectral MOPITT observations of CO over North America. <i>Atmospheric Chemistry and Physics</i> , <b>2015</b> , 15, 6801-6814	6.8	23
69	Constraints on Asian ozone using Aura TES, OMI and Terra MOPITT. <i>Atmospheric Chemistry and Physics</i> , <b>2015</b> , 15, 99-112	6.8	17
68	Sensitivity of top-down CO source estimates to the modeled vertical structure in atmospheric CO. <i>Atmospheric Chemistry and Physics</i> , <b>2015</b> , 15, 1521-1537	6.8	27
67	Origin of springtime ozone enhancements in the lower troposphere over Beijing: in situ measurements and model analysis. <i>Atmospheric Chemistry and Physics</i> , <b>2015</b> , 15, 5161-5179	6.8	18
66	Toronto area ozone: Long-term measurements and modeled sources of poor air quality events. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2015</b> , 120, 11,368-11,390	4.4	12
65	Satellite observations of CO <sub>2</sub> from a highly elliptical orbit for studies of the Arctic and boreal carbon cycle. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2014</b> , 119, 2654-2673	4.4	17
64	Inferring regional sources and sinks of atmospheric CO <sub>2</sub> from GOSAT XCO <sub>2</sub> data. <i>Atmospheric Chemistry and Physics</i> , <b>2014</b> , 14, 3703-3727	6.8	91
63	Carbon monitoring system flux estimation and attribution: impact of ACOS-GOSAT XCO <sub>2</sub> sampling on the inference of terrestrial biospheric sources and sinks. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , <b>2014</b> , 66, 22486	3.3	76
62	Terrestrial gross primary production inferred from satellite fluorescence and vegetation models. <i>Global Change Biology</i> , <b>2014</b> , 20, 3103-21	11.4	144
61	Interpreting seasonal changes in the carbon balance of southern Amazonia using measurements of XCO <sub>2</sub> and chlorophyll fluorescence from GOSAT. <i>Geophysical Research Letters</i> , <b>2013</b> , 40, 2829-2833	4.9	75
60	Comparison of improved Aura Tropospheric Emission Spectrometer CO <sub>2</sub> with HIPPO and SGP aircraft profile measurements. <i>Atmospheric Chemistry and Physics</i> , <b>2013</b> , 13, 3205-3225	6.8	18

59	El Niño, the 2006 Indonesian peat fires, and the distribution of atmospheric methane. <i>Geophysical Research Letters</i> , <b>2013</b> , 40, 4938-4943	4.9	35
58	Impact of model errors in convective transport on CO source estimates inferred from MOPITT CO retrievals. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2013</b> , 118, 2073-2083	4.4	50
57	Iconic CO <sub>2</sub> time series at risk. <i>Science</i> , <b>2012</b> , 337, 1038-40	33.3	13
56	FTIR time-series of biomass burning products (HCN, C <sub>2</sub> H <sub>6</sub> , C <sub>2</sub> H <sub>2</sub> , CH <sub>3</sub> OH, and HCOOH) at Reunion Island (21°S, 55°E) and comparisons with model data. <i>Atmospheric Chemistry and Physics</i>	6.8	39
55	Impacts of midlatitude precursor emissions and local photochemistry on ozone abundances in the Arctic. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a		46
54	The vertical distribution of ozone instantaneous radiative forcing from satellite and chemistry climate models. <i>Journal of Geophysical Research</i> , <b>2011</b> , 116,		30
53	Quantifying the impact of model errors on top-down estimates of carbon monoxide emissions using satellite observations. <i>Journal of Geophysical Research</i> , <b>2011</b> , 116,		53
52	Inverse modeling of CO <sub>2</sub> sources and sinks using satellite observations of CO <sub>2</sub> from TES and surface flask measurements. <i>Atmospheric Chemistry and Physics</i> , <b>2011</b> , 11, 6029-6047	6.8	75
51	Transport analysis of ozone enhancement in Southern Ontario during BAQS-Met. <i>Atmospheric Chemistry and Physics</i> , <b>2011</b> , 11, 2569-2583	6.8	22
50	Improved estimate of the policy-relevant background ozone in the United States using the GEOS-Chem global model with 1/2°/3° horizontal resolution over North America. <i>Atmospheric Environment</i> , <b>2011</b> , 45, 6769-6776	5.3	158
49	Influence of interannual variations in transport on summertime abundances of ozone over the Middle East. <i>Journal of Geophysical Research</i> , <b>2011</b> , 116,		25
48	Modeling global atmospheric CO <sub>2</sub> with improved emission inventories and CO <sub>2</sub> production from the oxidation of other carbon species. <i>Geoscientific Model Development</i> , <b>2010</b> , 3, 689-716	6.3	95
47	Modeling global atmospheric CO <sub>2</sub> with improved emission inventories and CO <sub>2</sub> production from the oxidation of other carbon species <b>2010</b> ,		6
46	Effects of postcondensation exchange on the isotopic composition of water in the atmosphere. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115,		63
45	Vertical transport rates and concentrations of OH and Cl radicals in the Tropical Tropopause Layer from observations of CO <sub>2</sub> and halocarbons: implications for distributions of long- and short-lived chemical species. <i>Atmospheric Chemistry and Physics</i> , <b>2010</b> , 10, 6669-6684	6.8	18
44	Analysis of CO in the tropical troposphere using Aura satellite data and the GEOS-Chem model: insights into transport characteristics of the GEOS meteorological products. <i>Atmospheric Chemistry and Physics</i> , <b>2010</b> , 10, 12207-12232	6.8	55
43	Characterization of Tropospheric Emission Spectrometer (TES) CO <sub>2</sub> for carbon cycle science. <i>Atmospheric Chemistry and Physics</i> , <b>2010</b> , 10, 5601-5623	6.8	85
42	Comment on Seasonal distribution of ozone and its precursors over the tropical Indian region using regional chemistry-transport model by Sompriti Roy et al.. <i>Journal of Geophysical Research</i> , <b>2009</b> , 114,		2

41	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> , <b>2009</b> , 114,		78
40	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> , <b>2009</b> , 114,		37
39	Observed vertical distribution of tropospheric ozone during the Asian summertime monsoon. <i>Journal of Geophysical Research</i> , <b>2009</b> , 114,		46
38	Analysis of the summertime buildup of tropospheric ozone abundances over the Middle East and North Africa as observed by the Tropospheric Emission Spectrometer instrument. <i>Journal of Geophysical Research</i> , <b>2009</b> , 114,		61
37	Impact of the assimilation of ozone from the Tropospheric Emission Spectrometer on surface ozone across North America. <i>Geophysical Research Letters</i> , <b>2009</b> , 36,	4-9	47
36	Error correlation between CO <sub>2</sub> and CO as constraint for CO <sub>2</sub> flux inversions using satellite data. <i>Atmospheric Chemistry and Physics</i> , <b>2009</b> , 9, 7313-7323	6.8	29
35	The zonal structure of tropical O <sub>3</sub> and CO as observed by the Tropospheric Emission Spectrometer in November 2004 [Part 1: Inverse modeling of CO emissions. <i>Atmospheric Chemistry and Physics</i> , <b>2009</b> , 9, 3547-3562	6.8	58
34	The zonal structure of tropical O <sub>3</sub> and CO as observed by the Tropospheric Emission Spectrometer in November 2004 [Part 2: Impact of surface emissions on O <sub>3</sub> and its precursors. <i>Atmospheric Chemistry and Physics</i> , <b>2009</b> , 9, 3563-3582	6.8	23
33	Improving GEOS-Chem Model Tropospheric Ozone through Assimilation of Pseudo Tropospheric Emission Spectrometer Profile Retrievals. <i>Lecture Notes in Computer Science</i> , <b>2009</b> , 302-311	0-9	3
32	Estimating the summertime tropospheric ozone distribution over North America through assimilation of observations from the Tropospheric Emission Spectrometer. <i>Journal of Geophysical Research</i> , <b>2008</b> , 113,		77
31	Measurement of low-altitude CO over the Indian subcontinent by MOPITT. <i>Journal of Geophysical Research</i> , <b>2008</b> , 113,		39
30	Precision requirements for space-based data. <i>Journal of Geophysical Research</i> , <b>2007</b> , 112,		269
29	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> , <b>2006</b> , 111,		21
28	Using CO <sub>2</sub> :CO correlations to improve inverse analyses of carbon fluxes. <i>Journal of Geophysical Research</i> , <b>2006</b> , 111,		60
27	Carbon monoxide (CO) maximum over the Zagros mountains in the Middle East: Signature of mountain venting?. <i>Geophysical Research Letters</i> , <b>2006</b> , 33,	4-9	12
26	Spatial patterns and mechanisms of the quasi-biennial oscillation—annual beat of ozone. <i>Journal of Geophysical Research</i> , <b>2005</b> , 110,		10
25	Evidence of vertical transport of carbon monoxide from Measurements of Pollution in the Troposphere (MOPITT). <i>Geophysical Research Letters</i> , <b>2004</b> , 31,	4-9	79
24	Comparative inverse analysis of satellite (MOPITT) and aircraft (TRACE-P) observations to estimate Asian sources of carbon monoxide. <i>Journal of Geophysical Research</i> , <b>2004</b> , 109,		185

23	Quasi-biennial oscillation in tropical ozone as revealed by ozonesonde and satellite data. <i>Journal of Geophysical Research</i> , <b>2003</b> , 108,	40
22	Inverting for emissions of carbon monoxide from Asia using aircraft observations over the western Pacific. <i>Journal of Geophysical Research</i> , <b>2003</b> , 108,	157
21	Potential of observations from the Tropospheric Emission Spectrometer to constrain continental sources of carbon monoxide. <i>Journal of Geophysical Research</i> , <b>2003</b> , 108, n/a-n/a	67
20	On the contribution of anthropogenic Cl to the increase in $\delta^{13}\text{C}$ of atmospheric methane. <i>Global Biogeochemical Cycles</i> , <b>2002</b> , 16, 20-1-20-11	5.9 14
19	The quasi-biennial oscillation. <i>Reviews of Geophysics</i> , <b>2001</b> , 39, 179-229	23.1 1337
18	Constraints on meridional transport in the stratosphere imposed by the mean age of air in the lower stratosphere. <i>Journal of Geophysical Research</i> , <b>2001</b> , 106, 10243-10256	14
17	Three-dimensional climatological distribution of tropospheric OH: Update and evaluation. <i>Journal of Geophysical Research</i> , <b>2000</b> , 105, 8931-8980	641
16	Analysis of residual mean transport in the stratosphere: 2. Distributions of CO <sub>2</sub> and mean age. <i>Journal of Geophysical Research</i> , <b>2000</b> , 105, 20013-20024	5
15	Analysis of residual mean transport in the stratosphere: 1. Model description and comparison with satellite data. <i>Journal of Geophysical Research</i> , <b>2000</b> , 105, 19991-20011	23
14	Effects of the quasi-biennial oscillation on the zonally averaged transport of tracers. <i>Journal of Geophysical Research</i> , <b>1998</b> , 103, 11235-11249	42
13	Evidence for an additional source of atmospheric N <sub>2</sub> O. <i>Global Biogeochemical Cycles</i> , <b>1996</b> , 10, 651-659	5.9 31
12	Analysis of CO in the tropical troposphere using Aura satellite data and the GEOS-Chem model: insights into transport characteristics of the GEOS meteorological products	1
11	Ozone data assimilation with GEOS-Chem: a comparison between 3-D-Var, 4-D-Var, and suboptimal Kalman filter approaches	9
10	Inverse modeling of CO <sub>2</sub> sources and sinks using satellite observations of CO <sub>2</sub> from TES and surface flask measurements	1
9	FTIR time-series of biomass burning products (HCN, C <sub>2</sub> H <sub>6</sub> , C <sub>2</sub> H <sub>2</sub> , CH <sub>3</sub> OH, and HCOOH) at Reunion Island (21°S, 55°E) and comparisons with model data	1
8	Comparison of improved Aura Tropospheric Emission Spectrometer (TES) CO <sub>2</sub> with HIPPO and SGP aircraft profile measurements	4
7	Variational estimates of black carbon emissions in the western United States	3
6	Sensitivity of inferred regional CO source estimates to the vertical structure in CO as observed by MOPITT	2

5	Sensitivity analysis of the potential impact of discrepancies in stratosphere-troposphere exchange on inferred sources and sinks of CO <sub>2</sub>	2
4	Regional data assimilation of multi-spectral MOPITT observations of CO over North America	4
3	Inversion analysis of carbon monoxide emissions using data from the TES and MOPITT satellite instruments	5
2	Characterization of Tropospheric Emission Spectrometer (TES) CO <sub>2</sub> for carbon cycle science	4
1	Inferring regional sources and sinks of atmospheric CO <sub>2</sub> from GOSAT XCO <sub>2</sub> data	1