David Edwards

List of Publications by Citations

51 papers	3,476 citations	33 h-index	51 g-index
51 ext. papers	3,934 ext. citations	5.6 avg, IF	4.47 L-index

#	Paper	IF	Citations
51	Operational carbon monoxide retrieval algorithm and selected results for the MOPITT instrument. *Journal of Geophysical Research*, **2003**, 108,		317
50	Satellite-observed pollution from Southern Hemisphere biomass burning. *Journal of Geophysical Research*, **2006**, 111,		215
49	Validation of Measurements of Pollution in the Troposphere (MOPITT) CO retrieval with aircraft in situ profiles. *Journal of Geophysical Research*, **2004**, 109, n/a-n/a		189
48	Observations of carbon monoxide and aerosols from the Terra satellite: Northern Hemisphere variability. *Journal of Geophysical Research*, **2004**, 109,		177
47	Decadal record of satellite carbon monoxide observations. *Atmospheric Chemistry and Physics*, **2013**, 13, 837-850	6.8	172
46	Inventory of boreal fire emissions for North America in 2004: Importance of peat burning and pyroconvective injection. *Journal of Geophysical Research*, **2007**, 112,		170
45	Monthly CO surface sources inventory based on the 2000–2001 MOPITT satellite data. *Geophysical Research Letters*, **2004**, 31, n/a-n/a	4.9	150
44	Quantifying CO emissions from the 2004 Alaskan wildfires using MOPITT CO data. *Geophysical Research Letters*, **2005**, 32,	4.9	145
43	Vertical resolution and information content of CO profiles retrieved by MOPITT. *Geophysical Research Letters*, **2004**, 31,	4.9	125
42	The MOPITT version 4 CO product: Algorithm enhancements, validation, and long-term stability. *Journal of Geophysical Research*, **2010**, 115,		115
41	Observations of near-surface carbon monoxide from space using MOPITT multispectral retrievals. *Journal of Geophysical Research*, **2010**, 115,		109
40	Sensitivity of MOPITT observations to carbon monoxide in the lower troposphere. *Journal of Geophysical Research*, **2007**, 112,		105
39	Validation of MOPITT Version 5 thermal-infrared, near-infrared, and multispectral carbon monoxide profile retrievals for 2000–2011. *Journal of Geophysical Research D: Atmospheres*, **2013**, 118, 6710-6725	4.4	103
38	Measurements of Pollution In The Troposphere (MOPITT) validation through 2006. *Atmospheric Chemistry and Physics*, **2009**, 9, 1795-1803	6.8	102
37	Measurements of Pollution in the Troposphere (MOPITT) validation exercises during summer 2004 field campaigns over North America. *Journal of Geophysical Research*, **2007**, 112,		88
36	The MOPITT Version 6 product: algorithm enhancements and validation. *Atmospheric Measurement Techniques*, **2014**, 7, 3623-3632	4	76
35	Southern Hemisphere carbon monoxide interannual variability observed by Terra/Measurement of Pollution in the Troposphere (MOPITT). *Journal of Geophysical Research*, **2006**, 111,		63

34	Evaluation of CO simulations and the analysis of the CO budget for Europe. *Journal of Geophysical Research*, **2004**, 109,		63
33	CO source contribution analysis for California during ARCTAS-CARB. *Atmospheric Chemistry and Physics*, **2011**, 11, 7515-7532	6.8	62
32	Carbon monoxide pollution from cities and urban areas observed by the Terra/MOPITT mission. *Geophysical Research Letters*, **2008**, 35,	4.9	60
31	MOPITT multispectral CO retrievals: Origins and effects of geophysical radiance errors. *Journal of Geophysical Research*, **2011**, 116,		53
30	A climate-scale satellite record for carbon monoxide: the MOPITT Version 7 product. *Atmospheric Measurement Techniques*, **2017**, 10, 2533-2555	4	52
29	Evaluation of MOPITT retrievals of lower-tropospheric carbon monoxide over the United States. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a		51
28	Evaluating model performance of an ensemble-based chemical data assimilation system during INTEX-B field mission. *Atmospheric Chemistry and Physics*, **2007**, 7, 5695-5710	6.8	51
27	CO retrievals based on MOPITT near-infrared observations. *Journal of Geophysical Research*, **2009**, 114,		47
26	Retrievals of carbon monoxide profiles from MOPITT observations using lognormal a priori statistics. *Journal of Geophysical Research*, **2007**, 112,		46
25	Trace gas emissions from savanna fires in northern Australia. *Journal of Geophysical Research*, **2010**, 115,		41
24	Chemical Feedback From Decreasing Carbon Monoxide Emissions. *Geophysical Research Letters*, **2017**, 44, 9985-9995	4.9	39
23	Measurement of low-altitude CO over the Indian subcontinent by MOPITT. *Journal of Geophysical Research*, **2008**, 113,		39
22	Effects of a Spectral Surface Reflectance on Measurements of Backscattered Solar Radiation: Application to the MOPITT Methane Retrieval. *Journal of Atmospheric and Oceanic Technology*, **2005**, 22, 566-574	2	38
21	Radiance-based retrieval bias mitigation for the MOPITT instrument: the version 8 product. *Atmospheric Measurement Techniques*, **2019**, 12, 4561-4580	4	37
20	Evaluation of operational radiances for the Measurements of Pollution in the Troposphere (MOPITT) instrument CO thermal band channels. *Journal of Geophysical Research*, **2004**, 109, n/a-n/a		35
19	Identification of CO plumes from MOPITT data: Application to the August 2000 Idaho-Montana forest fires. *Geophysical Research Letters*, **2003**, 30,	4.9	34
18	Toward a chemical reanalysis in a coupled chemistry-climate model: An evaluation of MOPITT CO assimilation and its impact on tropospheric composition. *Journal of Geophysical Research D: Atmospheres*, **2016**, 121, 7310-7343	4.4	29
17	Validation of MOPITT carbon monoxide using ground-based Fourier transform infrared spectrometer data from NDACC. *Atmospheric Measurement Techniques*, **2017**, 10, 1927-1956	4	26

16	Application of a bias estimator for the improved assimilation of Measurements of Pollution in the Troposphere (MOPITT) carbon monoxide retrievals. *Journal of Geophysical Research*, **2004**, 109,		23
15	Water-Vapour Continuum Absorption In the Tropics: Aircraft Measurements and Model Comparisons. *Quarterly Journal of the Royal Meteorological Society*, **1992**, 118, 715-748	6.4	23
14	Forward modeling and radiative transfer for the NASA EOS-Aura High Resolution Dynamics Limb Sounder (HIRDLS) instrument. *Journal of Geophysical Research*, **2006**, 111,		22
13	Toward Improving Short-Term Predictions of Fine Particulate Matter Over the United States Via Assimilation of Satellite Aerosol Optical Depth Retrievals. *Journal of Geophysical Research D: Atmospheres*, **2019**, 124, 2753-2773	4.4	22
12	Overview and characterization of retrievals of temperature, pressure, and atmospheric constituents from the High Resolution Dynamics Limb Sounder (HIRDLS) measurements. *Journal of Geophysical Research*, **2009**, 114,		21
11	Ozone variability in the troposphere and the stratosphere from the first 6 years of IASI observations (2008–2013). *Atmospheric Chemistry and Physics*, **2016**, 16, 5721-5743	6.8	18
10	Information content of MOPITT CO profile retrievals: Temporal and geographical variability. *Journal of Geophysical Research D: Atmospheres*, **2015**, 120, 12723-12738	4.4	18
9	Quantifying the contribution of inflow on surface ozone over California during summer 2008. *Journal of Geophysical Research D: Atmospheres*, **2013**, 118, 12,282-12,299	4.4	17
8	Assimilation of the 2000–2001 CO MOPITT retrievals with optimized surface emissions. *Geophysical Research Letters*, **2004**, 31,	4.9	17
7	Assessing the impacts of assimilating IASI and MOPITT CO retrievals using CESM-CAM-chem and DART. *Journal of Geophysical Research D: Atmospheres*, **2015**, 120, 10,501	4.4	15
6	Air pollution trends measured from Terra: CO and AOD over industrial, fire-prone, and background regions. *Remote Sensing of Environment*, **2021**, 256, 112275	13.2	15
5	Correcting model biases of CO in East Asia: impact on oxidant distributions during KORUS-AQ. *Atmospheric Chemistry and Physics*, **2020**, 20, 14617-14647	6.8	13
4	Boundary layer versus free tropospheric CO budget and variability over the United States during summertime. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a		11
3	Links Between Carbon Monoxide and Climate Indices for the Southern Hemisphere and Tropical Fire Regions. *Journal of Geophysical Research D: Atmospheres*, **2018**, 123, 9786-9800	4.4	8
2	Constraints on black carbon aerosol distribution from Measurement of Pollution in the Troposphere (MOPITT) CO. *Geophysical Research Letters*, **2010**, 37, n/a-n/a	4.9	7
1	New seasonal pattern of pollution emerges from changing North American wildfires.. *Nature Communications*, **2022**, 13, 2043	17.4	2