

David Edwards

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.

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	New seasonal pattern of pollution emerges from changing North American wildfires.. <i>Nature Communications</i> , 2022 , 13, 2043	17.4	2
50	Air pollution trends measured from Terra: CO and AOD over industrial, fire-prone, and background regions. <i>Remote Sensing of Environment</i> , 2021 , 256, 112275	13.2	15
49	Correcting model biases of CO in East Asia: impact on oxidant distributions during KORUS-AQ. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 14617-14647	6.8	13
48	Radiance-based retrieval bias mitigation for the MOPITT instrument: the version 8 product. <i>Atmospheric Measurement Techniques</i> , 2019 , 12, 4561-4580	4	37
47	Toward Improving Short-Term Predictions of Fine Particulate Matter Over the United States Via Assimilation of Satellite Aerosol Optical Depth Retrievals. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019 , 124, 2753-2773	4.4	22
46	Links Between Carbon Monoxide and Climate Indices for the Southern Hemisphere and Tropical Fire Regions. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018 , 123, 9786-9800	4.4	8
45	Chemical Feedback From Decreasing Carbon Monoxide Emissions. <i>Geophysical Research Letters</i> , 2017 , 44, 9985-9995	4.9	39
44	A climate-scale satellite record for carbon monoxide: the MOPITT Version 7 product. <i>Atmospheric Measurement Techniques</i> , 2017 , 10, 2533-2555	4	52
43	Validation of MOPITT carbon monoxide using ground-based Fourier transform infrared spectrometer data from NDACC. <i>Atmospheric Measurement Techniques</i> , 2017 , 10, 1927-1956	4	26
42	Ozone variability in the troposphere and the stratosphere from the first 6 years of IASI observations (2008-2013). <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 5721-5743	6.8	18
41	Toward a chemical reanalysis in a coupled chemistry-climate model: An evaluation of MOPITT CO assimilation and its impact on tropospheric composition. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016 , 121, 7310-7343	4.4	29
40	Information content of MOPITT CO profile retrievals: Temporal and geographical variability. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015 , 120, 12723-12738	4.4	18
39	Assessing the impacts of assimilating IASI and MOPITT CO retrievals using CESM-CAM-chem and DART. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015 , 120, 10,501	4.4	15
38	The MOPITT Version 6 product: algorithm enhancements and validation. <i>Atmospheric Measurement Techniques</i> , 2014 , 7, 3623-3632	4	76
37	Quantifying the contribution of inflow on surface ozone over California during summer 2008. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 12,282-12,299	4.4	17
36	Validation of MOPITT Version 5 thermal-infrared, near-infrared, and multispectral carbon monoxide profile retrievals for 2000-2011. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 6710-6725	4.4	103
35	Decadal record of satellite carbon monoxide observations. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 837-850	6.8	172

34	Evaluation of MOPITT retrievals of lower-tropospheric carbon monoxide over the United States. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		51
33	Boundary layer versus free tropospheric CO budget and variability over the United States during summertime. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		11
32	MOPITT multispectral CO retrievals: Origins and effects of geophysical radiance errors. <i>Journal of Geophysical Research</i> , 2011 , 116,		53
31	CO source contribution analysis for California during ARCTAS-CARB. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 7515-7532	6.8	62
30	The MOPITT version 4 CO product: Algorithm enhancements, validation, and long-term stability. <i>Journal of Geophysical Research</i> , 2010 , 115,		115
29	Trace gas emissions from savanna fires in northern Australia. <i>Journal of Geophysical Research</i> , 2010 , 115,		41
28	Constraints on black carbon aerosol distribution from Measurement of Pollution in the Troposphere (MOPITT) CO. <i>Geophysical Research Letters</i> , 2010 , 37, n/a-n/a	4.9	7
27	Observations of near-surface carbon monoxide from space using MOPITT multispectral retrievals. <i>Journal of Geophysical Research</i> , 2010 , 115,		109
26	Overview and characterization of retrievals of temperature, pressure, and atmospheric constituents from the High Resolution Dynamics Limb Sounder (HIRDLS) measurements. <i>Journal of Geophysical Research</i> , 2009 , 114,		21
25	CO retrievals based on MOPITT near-infrared observations. <i>Journal of Geophysical Research</i> , 2009 , 114,		47
24	Measurements of Pollution In The Troposphere (MOPITT) validation through 2006. <i>Atmospheric Chemistry and Physics</i> , 2009 , 9, 1795-1803	6.8	102
23	Carbon monoxide pollution from cities and urban areas observed by the Terra/MOPITT mission. <i>Geophysical Research Letters</i> , 2008 , 35,	4.9	60
22	Measurement of low-altitude CO over the Indian subcontinent by MOPITT. <i>Journal of Geophysical Research</i> , 2008 , 113,		39
21	Inventory of boreal fire emissions for North America in 2004: Importance of peat burning and pyroconvective injection. <i>Journal of Geophysical Research</i> , 2007 , 112,		170
20	Measurements of Pollution in the Troposphere (MOPITT) validation exercises during summer 2004 field campaigns over North America. <i>Journal of Geophysical Research</i> , 2007 , 112,		88
19	Retrievals of carbon monoxide profiles from MOPITT observations using lognormal a priori statistics. <i>Journal of Geophysical Research</i> , 2007 , 112,		46
18	Sensitivity of MOPITT observations to carbon monoxide in the lower troposphere. <i>Journal of Geophysical Research</i> , 2007 , 112,		105
17	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	6.8	51

16	Forward modeling and radiative transfer for the NASA EOS-Aura High Resolution Dynamics Limb Sounder (HIRDLS) instrument. <i>Journal of Geophysical Research</i> , 2006 , 111,		22
15	Satellite-observed pollution from Southern Hemisphere biomass burning. <i>Journal of Geophysical Research</i> , 2006 , 111,		215
14	Southern Hemisphere carbon monoxide interannual variability observed by Terra/Measurement of Pollution in the Troposphere (MOPITT). <i>Journal of Geophysical Research</i> , 2006 , 111,		63
13	Quantifying CO emissions from the 2004 Alaskan wildfires using MOPITT CO data. <i>Geophysical Research Letters</i> , 2005 , 32,	4.9	145
12	Effects of a Spectral Surface Reflectance on Measurements of Backscattered Solar Radiation: Application to the MOPITT Methane Retrieval. <i>Journal of Atmospheric and Oceanic Technology</i> , 2005 , 22, 566-574	2	38
11	Evaluation of operational radiances for the Measurements of Pollution in the Troposphere (MOPITT) instrument CO thermal band channels. <i>Journal of Geophysical Research</i> , 2004 , 109, n/a-n/a		35
10	Validation of Measurements of Pollution in the Troposphere (MOPITT) CO retrievals with aircraft in situ profiles. <i>Journal of Geophysical Research</i> , 2004 , 109, n/a-n/a		189
9	Application of a bias estimator for the improved assimilation of Measurements of Pollution in the Troposphere (MOPITT) carbon monoxide retrievals. <i>Journal of Geophysical Research</i> , 2004 , 109,		23
8	Vertical resolution and information content of CO profiles retrieved by MOPITT. <i>Geophysical Research Letters</i> , 2004 , 31,	4.9	125
7	Monthly CO surface sources inventory based on the 2000-2001 MOPITT satellite data. <i>Geophysical Research Letters</i> , 2004 , 31, n/a-n/a	4.9	150
6	Assimilation of the 2000-2001 CO MOPITT retrievals with optimized surface emissions. <i>Geophysical Research Letters</i> , 2004 , 31,	4.9	17
5	Evaluation of CO simulations and the analysis of the CO budget for Europe. <i>Journal of Geophysical Research</i> , 2004 , 109,		63
4	Observations of carbon monoxide and aerosols from the Terra satellite: Northern Hemisphere variability. <i>Journal of Geophysical Research</i> , 2004 , 109,		177
3	Operational carbon monoxide retrieval algorithm and selected results for the MOPITT instrument. <i>Journal of Geophysical Research</i> , 2003 , 108,		317
2	Identification of CO plumes from MOPITT data: Application to the August 2000 Idaho-Montana forest fires. <i>Geophysical Research Letters</i> , 2003 , 30,	4.9	34
1	Water-Vapour Continuum Absorption In the Tropics: Aircraft Measurements and Model Comparisons. <i>Quarterly Journal of the Royal Meteorological Society</i> , 1992 , 118, 715-748	6.4	23