

Merritt Deeter

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.

104
papers

4,677
citations

38
h-index

66
g-index

115
ext. papers

5,456
ext. citations

4.5
avg, IF

5
L-index

#	Paper	IF	Citations
104	Analysis of improvements in MOPITT observational coverage over Canada. <i>Atmospheric Measurement Techniques</i> , 2022 , 15, 701-719	4	1
103	The MOPITT Version 9 CO product: sampling enhancements and validation. <i>Atmospheric Measurement Techniques</i> , 2022 , 15, 2325-2344	4	1
102	New seasonal pattern of pollution emerges from changing North American wildfires.. <i>Nature Communications</i> , 2022 , 13, 2043	17.4	2
101	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
100	Assessing Measurements of Pollution in the Troposphere (MOPITT) carbon monoxide retrievals over urban versus non-urban regions. <i>Atmospheric Measurement Techniques</i> , 2020 , 13, 1337-1356	4	8
99	1.5 years of TROPOMI CO measurements: comparisons to MOPITT and ATom. <i>Atmospheric Measurement Techniques</i> , 2020 , 13, 4841-4864	4	14
98	Radiance-based retrieval bias mitigation for the MOPITT instrument: the version 8 product. <i>Atmospheric Measurement Techniques</i> , 2019 , 12, 4561-4580	4	37
97	Global atmospheric carbon monoxide budget 2000-2017 inferred from multi-species atmospheric inversions. <i>Earth System Science Data</i> , 2019 , 11, 1411-1436	10.5	51
96	Rapid decline in carbon monoxide emissions and export from East Asia between years 2005 and 2016. <i>Environmental Research Letters</i> , 2018 , 13, 044007	6.2	60
95	21st Century drought-related fires counteract the decline of Amazon deforestation carbon emissions. <i>Nature Communications</i> , 2018 , 9, 536	17.4	304
94	Satellite-Based Analysis of CO Seasonal and Interannual Variability Over the Amazon Basin. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018 , 123, 5641-5656	4.4	9
93	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
92	Monitoring emissions from the 2015 Indonesian fires using CO satellite data. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2018 , 373,	5.8	23
91	A climate-scale satellite record for carbon monoxide: the MOPITT Version 7 product. <i>Atmospheric Measurement Techniques</i> , 2017 , 10, 2533-2555	4	52
90	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
89	Quantification of CO emissions from the city of Madrid using MOPITT satellite retrievals and WRF simulations. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 14675-14694	6.8	11
88	A 15-year record of CO emissions constrained by MOPITT CO observations. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 4565-4583	6.8	69

87	Validation and analysis of MOPITT CO observations of the Amazon Basin. <i>Atmospheric Measurement Techniques</i> , 2016 , 9, 3999-4012	4	16
86	An examination of the long-term CO records from MOPITT and IASI: comparison of retrieval methodology 2015 ,		3
85	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
84	Quantifying pyroconvective injection heights using observations of fire energy: sensitivity of spaceborne observations of carbon monoxide. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 4339-4355	6.8	14
83	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
82	Description and evaluation of tropospheric chemistry and aerosols in the Community Earth System Model (CESM1.2). <i>Geoscientific Model Development</i> , 2015 , 8, 1395-1426	6.3	119
81	An examination of the long-term CO records from MOPITT and IASI: comparison of retrieval methodology. <i>Atmospheric Measurement Techniques</i> , 2015 , 8, 4313-4328	4	37
80	Comparison of upper tropospheric carbon monoxide from MOPITT, ACE-FTS, and HIPPO-QCLS. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 14,144-14,164	4.4	7
79	Validation of nine years of MOPITT V5 NIR using MOZAIC/IAGOS measurements: biases and long-term stability. <i>Atmospheric Measurement Techniques</i> , 2014 , 7, 3783-3799	4	10
78	The MOPITT Version 6 product: algorithm enhancements and validation. <i>Atmospheric Measurement Techniques</i> , 2014 , 7, 3623-3632	4	76
77	13 years of MOPITT operations: lessons from MOPITT retrieval algorithm development. <i>Annals of Geophysics</i> , 2014 ,	1.1	16
76	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
75	Averaging kernel prediction from atmospheric and surface state parameters based on multiple regression for nadir-viewing satellite measurements of carbon monoxide and ozone. <i>Atmospheric Measurement Techniques</i> , 2013 , 6, 1633-1646	4	18
74	Decadal record of satellite carbon monoxide observations. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 837-850	6.8	172
73	Averaging kernel prediction from atmospheric and surface state parameters based on multiple regression with MOPITT CO and TES-OMI O ₃ ; multispectral observations 2013 ,		1
72	Relative changes in CO emissions over megacities based on observations from space. <i>Geophysical Research Letters</i> , 2013 , 40, 3766-3771	4.9	47
71	Impact of model errors in convective transport on CO source estimates inferred from MOPITT CO retrievals. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 2073-2083	4.4	50
70	Comparing optimized CO emission estimates using MOPITT or NOAA surface network observations. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		35

69	Satellite-based estimates of reduced CO and CO ₂ emissions due to traffic restrictions during the 2008 Beijing Olympics. <i>Geophysical Research Letters</i> , 2012 , 39, n/a-n/a	4.9	38
68	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
67	Interannual variability of carbon monoxide emission estimates over South America from 2006 to 2010. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		25
66	The influence of boreal biomass burning emissions on the distribution of tropospheric ozone over North America and the North Atlantic during 2010. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 2077-2098	6.8	76
65	First satellite identification of volcanic carbon monoxide. <i>Geophysical Research Letters</i> , 2012 , 39, n/a-n/a	4.9	5
64	Ten years of CO emissions as seen from Measurements of Pollution in the Troposphere (MOPITT). <i>Journal of Geophysical Research</i> , 2011 , 116,		77
63	MOPITT multispectral CO retrievals: Origins and effects of geophysical radiance errors. <i>Journal of Geophysical Research</i> , 2011 , 116,		53
62	The MOPITT version 4 CO product: Algorithm enhancements, validation, and long-term stability. <i>Journal of Geophysical Research</i> , 2010 , 115,		115
61	Observations of near-surface carbon monoxide from space using MOPITT multispectral retrievals. <i>Journal of Geophysical Research</i> , 2010 , 115,		109
60	Wintertime pollution over the Eastern Indo-Gangetic Plains as observed from MOPITT, CALIPSO and tropospheric ozone residual data. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 12273-12283	6.8	47
59	CO retrievals based on MOPITT near-infrared observations. <i>Journal of Geophysical Research</i> , 2009 , 114,		47
58	A satellite observation system simulation experiment for carbon monoxide in the lowermost troposphere. <i>Journal of Geophysical Research</i> , 2009 , 114,		44
57	Measurements of Pollution In The Troposphere (MOPITT) validation through 2006. <i>Atmospheric Chemistry and Physics</i> , 2009 , 9, 1795-1803	6.8	102
56	Carbon monoxide pollution from cities and urban areas observed by the Terra/MOPITT mission. <i>Geophysical Research Letters</i> , 2008 , 35,	4.9	60
55	Measurement of low-altitude CO over the Indian subcontinent by MOPITT. <i>Journal of Geophysical Research</i> , 2008 , 113,		39
54	Retrievals of carbon monoxide profiles from MOPITT observations using lognormal a priori statistics. <i>Journal of Geophysical Research</i> , 2007 , 112,		46
53	Sensitivity of MOPITT observations to carbon monoxide in the lower troposphere. <i>Journal of Geophysical Research</i> , 2007 , 112,		105
52	A new satellite retrieval method for precipitable water vapor over land and ocean. <i>Geophysical Research Letters</i> , 2007 , 34,	4.9	50

51	Satellite-observed pollution from Southern Hemisphere biomass burning. <i>Journal of Geophysical Research</i> , 2006 , 111,		215
50	New dual-frequency microwave technique for retrieving liquid water path over land. <i>Journal of Geophysical Research</i> , 2006 , 111,		15
49	Carbon monoxide (CO) maximum over the Zagros mountains in the Middle East: Signature of mountain venting?. <i>Geophysical Research Letters</i> , 2006 , 33,	4-9	12
48	AMSU-B Observations of Mixed-Phase Clouds over Land. <i>Journal of Applied Meteorology and Climatology</i> , 2005 , 44, 72-85		14
47	Estimates of 4.7 μ m surface emissivity and their impact on the retrieval of tropospheric carbon monoxide by Measurements of Pollution in the Troposphere (MOPITT). <i>Journal of Geophysical Research</i> , 2005 , 110,		15
46	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
45	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
44	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
43	Spatial and temporal variation of MOPITT CO in Africa and South America: A comparison with SHADOZ ozone and MODIS aerosol. <i>Journal of Geophysical Research</i> , 2004 , 109,		35
42	Relationship between Measurements of Pollution in the Troposphere (MOPITT) and in situ observations of CO based on a large-scale feature sampled during TRACE-P. <i>Journal of Geophysical Research</i> , 2004 , 109,		14
41	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
40	Vertical resolution and information content of CO profiles retrieved by MOPITT. <i>Geophysical Research Letters</i> , 2004 , 31,	4-9	125
39	Assimilation of the 2000-2001 CO MOPITT retrievals with optimized surface emissions. <i>Geophysical Research Letters</i> , 2004 , 31,	4-9	17
38	Evidence of vertical transport of carbon monoxide from Measurements of Pollution in the Troposphere (MOPITT). <i>Geophysical Research Letters</i> , 2004 , 31,	4-9	79
37	Observations of carbon monoxide and aerosols from the Terra satellite: Northern Hemisphere variability. <i>Journal of Geophysical Research</i> , 2004 , 109,		177
36	Carbon monoxide total column retrievals by use of the measurements of pollution in the troposphere airborne test radiometer. <i>Applied Optics</i> , 2004 , 43, 4685-96	1-7	2
35	Tropospheric ozone over the tropical Atlantic: A satellite perspective. <i>Journal of Geophysical Research</i> , 2003 , 108,		98
34	Operational carbon monoxide retrieval algorithm and selected results for the MOPITT instrument. <i>Journal of Geophysical Research</i> , 2003 , 108,		317

33	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
32	Asian outflow and trans-Pacific transport of carbon monoxide and ozone pollution: An integrated satellite, aircraft, and model perspective. <i>Journal of Geophysical Research</i> , 2003 , 108, n/a-n/a		168
31	Operational Validation of the MOPITT Instrument Optical Filters*. <i>Journal of Atmospheric and Oceanic Technology</i> , 2002 , 19, 1772-1782	2	11
30	A Novel Ice-Cloud Retrieval Algorithm Based on the Millimeter-Wave Imaging Radiometer (MIR) 150- and 220-GHz Channels. <i>Journal of Applied Meteorology and Climatology</i> , 2000 , 39, 623-633		19
29	A HYBRID EDDINGTON-SINGLE SCATTERING RADIATIVE TRANSFER MODEL FOR COMPUTING RADIANCES FROM THERMALLY EMITTING ATMOSPHERES. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 1998 , 60, 635-648	2.1	35
28	Modeling of Submillimeter Passive Remote Sensing of Cirrus Clouds. <i>Journal of Applied Meteorology and Climatology</i> , 1998 , 37, 184-205		78
27	Mesoscale Variations of Water Vapor Inferred from the Millimeter-Wave Imaging Radiometer during TOGA COARE. <i>Journal of Applied Meteorology and Climatology</i> , 1997 , 36, 183-188		5
26	Fiber-optic Faraday-effect magnetic-field sensor based on flux concentrators. <i>Applied Optics</i> , 1996 , 35, 154-7	1.7	16
25	Molecular field theory analysis of magneto-optic sensitivity of gallium-substituted yttrium iron garnets. <i>Applied Physics Letters</i> , 1996 , 69, 702-704	3.4	4
24	Domain effects in Faraday effect sensors based on iron garnets. <i>Applied Optics</i> , 1995 , 34, 655-8	1.7	7
23	. <i>IEEE Transactions on Instrumentation and Measurement</i> , 1995 , 44, 464-467	5.2	4
22	Faraday effect current sensor with improved sensitivity - bandwidth product. <i>Optics Letters</i> , 1994 , 19, 1903	3	24
21	. <i>IEEE Transactions on Magnetics</i> , 1994 , 30, 4464-4466	2	24
20	Magneto-optic magnetic field sensor with 1.4 pT/(Hz) minimum detectable field at 1 kHz. <i>Electronics Letters</i> , 1993 , 29, 993-994	1.1	12
19	. <i>IEEE Transactions on Magnetics</i> , 1993 , 29, 3402-3404	2	11
18	Submicroampere-per-root-hertz current sensor based on the Faraday effect in Ga:YIG. <i>Optics Letters</i> , 1993 , 18, 1471-3	3	25
17	. <i>IEEE Transactions on Magnetics</i> , 1992 , 28, 3234-3236	2	3
16	High frequency magnetic field sensors based on the Faraday effect in garnet thick films. <i>Applied Physics Letters</i> , 1992 , 60, 2048-2050	3.4	19

15	Faraday-effect magnetic field sensors based on substituted iron garnets 1991 , 1367, 243		6
14	Sensitivity limits to ferrimagnetic Faraday effect magnetic field sensors. <i>Journal of Applied Physics</i> , 1991 , 70, 6407-6409	2.5	17
13	Temperature dependence of the Verdet constant in several diamagnetic glasses. <i>Applied Optics</i> , 1991 , 30, 1176-8	1.7	86
12	. <i>Journal of Lightwave Technology</i> , 1990 , 8, 1838-1842	4	58
11	Determination of effective optical constants of magnetic multilayers. <i>Applied Physics Letters</i> , 1989 , 54, 2059-2061	3.4	3
10	Jones matrix analysis of incident angle effects in magneto-optic storage media. <i>Applied Optics</i> , 1989 , 28, 335-9	1.7	1
9	Determination of optical constants by angle scanning reflectometry. <i>Applied Optics</i> , 1989 , 28, 2911-3	1.7	8
8	. <i>IEEE Transactions on Magnetics</i> , 1988 , 24, 2470-2472	2	13
7	Effects of incident angle on readout in magneto-optic storage media. <i>Applied Optics</i> , 1988 , 27, 713-6	1.7	9
6	Optical probing of magnetic inert layers. <i>Applied Optics</i> , 1987 , 26, 3153-7	1.7	4
5	Impact of deep convection on the tropical tropopause layer composition in Equatorial Brazil		1
4	Measurements of Pollution In The Troposphere (MOPITT) validation through 2006		4
3	The MOPITT Version 6 product: algorithm enhancements and validation		3
2	Quantifying pyroconvective injection heights using observations of fire energy: sensitivity of space-borne observations of carbon monoxide		2
1	Decadal record of satellite carbon monoxide observations		1