

Lawrence E Flynn

List of Publications by Year in descending order

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82
papers

2,808
citations

218677

26
h-index

189892

50
g-index

82
all docs

82
docs citations

82
times ranked

1989
citing authors

#	ARTICLE	IF	CITATIONS
1	Characterization and Correction of Intersensor Calibration Convolution Errors Between S-NPP OMPS Nadir Mapper and Metop-B GOME-2. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-14.	6.3	0
2	Optimized Umkehr profile algorithm for ozone trend analyses. Atmospheric Measurement Techniques, 2022, 15, 1849-1870.	3.1	4
3	New Reprocessing towards Life-Time Quality-Consistent Suomi NPP OMPS Nadir Sensor Data Records (SDR): Calibration Improvements and Impact Assessments on Long-Term Quality Stability of OMPS SDR Data Sets. Remote Sensing, 2022, 14, 3125.	4.0	1
4	Evaluation and Improvement of the Near-Real-Time Linear Fit SO ₂ Retrievals From Suomi NPP Ozone Mapping and Profiler Suite. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 101-113.	6.3	10
5	Performance of OMPS Nadir Profilersâ€™ Sensor Data Records. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 6885-6893.	6.3	6
6	Recent Improvements to NOAA-20 Ozone Mapper Profiler Suite Nadir Profiler Sensor Data Records. , 2021, , .		1
7	Lifetime Performance Assessment of SNPP OMPS Nadir MAPPER SDR Data Using Simultaneous Nadir Overpass Collocated Observations with Gome-2. , 2020, , .		2
8	Five decades observing Earthâ€™s atmospheric trace gases using ultraviolet and visible backscatter solar radiation from space. Journal of Quantitative Spectroscopy and Radiative Transfer, 2019, 238, 106478.	2.3	26
9	Suomi-NPP OMPS Nadir Mapperâ€™s Operational SDR Performance. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 1015-1024.	6.3	6
10	JPSS Atmospheric Composition Products for Environmental Monitoring and Applications. , 2019, , .		0
11	Spectral Calibration of NOAA-20 OMPS Sensor Data Record. , 2019, , .		1
12	Atmospheric Ozone Soundings From Space-Based Measurements. , 2018, , 3-41.		0
13	NOAA-20 OMPS Sensor Data Record from Early Orbit Operation. , 2018, , .		0
14	How long do satellites need to overlap? Evaluation of climate data stability from overlapping satellite records. Atmospheric Chemistry and Physics, 2017, 17, 15069-15093.	4.9	14
15	Spectral Performance and Calibration of the Suomi NPP OMPS Nadir Profiler Sensor. Earth and Space Science, 2017, 4, 737-745.	2.6	14
16	Testing and integration of JPSS Ozone Mapping and Profiler Suite (OMPS) algorithms using the Algorithm Development Library (ADL). , 2015, , .		0
17	Solar observation of Ozone Mapping and Profiler Suite nadir system during the first 3 years of on-orbit operation. Journal of Applied Remote Sensing, 2015, 9, 094095.	1.3	9
18	Postlaunch performance of the Suomi National Polar-orbiting Partnership Ozone Mapping and Profiler Suite (OMPS) nadir sensors. Journal of Geophysical Research D: Atmospheres, 2014, 119, 4413-4428.	3.3	70

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19	Characterization of in band stray light in SBUV/2 instruments. Atmospheric Measurement Techniques, 2014, 7, 267-278.	3.1	1
20	Post-launch performance evaluation of the OMPS Nadir Mapper and Nadir Profiler. Proceedings of SPIE, 2014, , .	0.8	0
21	Suomi National Polar-orbiting Partnership Ozone Mapping Profiler Suite Nadir instruments in-flight performance. Journal of Applied Remote Sensing, 2014, 8, 083499.	1.3	4
22	Performance of the Ozone Mapping and Profiler Suite (OMPS) products. Journal of Geophysical Research D: Atmospheres, 2014, 119, 6181-6195.	3.3	116
23	Evaluation of the Sensor Data Record from the nadir instruments of the Ozone Mapping Profiler Suite (OMPS). Journal of Geophysical Research D: Atmospheres, 2014, 119, 6170-6180.	3.3	17
24	S-NPP Ozone Mapping and Profiler Suite provisional operations performance. , 2013, , .		0
25	Performance and Calibration of the Nadir Suomi-NPP Ozone Mapping Profiler Suite From Early-Orbit Images. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2013, 6, 1539-1551.	4.9	20
26	Solar Backscatter UV (SBUV) total ozone and profile algorithm. Atmospheric Measurement Techniques, 2013, 6, 2533-2548.	3.1	121
27	Ozone mapper profiler suite early orbit linearity performance evaluation. , 2013, , .		0
28	The version 8.6 SBUV ozone data record: An overview. Journal of Geophysical Research D: Atmospheres, 2013, 118, 8032-8039.	3.3	104
29	Relative drifts and stability of satellite and ground-based stratospheric ozone profiles at NDACC lidar stations. Atmospheric Measurement Techniques, 2012, 5, 1301-1318.	3.1	46
30	Cross-Calibration of the Total Ozone Unit (TOU) With the Ozone Monitoring Instrument (OMI) and SBUV/2 for Environmental Applications. IEEE Transactions on Geoscience and Remote Sensing, 2012, 50, 4943-4955.	6.3	10
31	OMPS early orbit dark and bias evaluation and calibration. , 2012, , .		4
32	Radiometric Calibration of the Solar Backscatter Ultraviolet Sounder and Validation of Ozone Profile Retrievals. IEEE Transactions on Geoscience and Remote Sensing, 2012, 50, 4956-4964.	6.3	6
33	Validation of GOES-R Satellite Land Surface Temperature Algorithm Using SURFRAD Ground Measurements and Statistical Estimates of Error Properties. IEEE Transactions on Geoscience and Remote Sensing, 2012, 50, 704-713.	6.3	67
34	Coherence of long-term stratospheric ozone vertical distribution time series used for the study of ozone recovery at a northern mid-latitude station. Atmospheric Chemistry and Physics, 2011, 11, 4957-4975.	4.9	32
35	South Atlantic anomaly filter for satellite UV observation. , 2011, , .		0
36	Post-launch performance evaluation of the OMPS sensors on NPP. , 2011, , .		0

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37	Computing differential air mass factor lookup tables using DISORT radiative transfer model. , 2011, , .		0
38	Sensitivity of Dobson and Brewer Umkehr ozone profile retrievals to ozone cross-sections and stray light effects. Atmospheric Measurement Techniques, 2011, 4, 1841-1853.	3.1	33
39	NPOESS. Bulletin of the American Meteorological Society, 2010, 91, 727-740.	3.3	42
40	Validation of Ozone Monitoring Instrument level 1b data products. Journal of Geophysical Research, 2008, 113, .	3.3	84
41	Evaluation of Atmospheric Infrared Sounder ozone profiles and total ozone retrievals with matched ozonesonde measurements, ECMWF ozone data, and Ozone Monitoring Instrument retrievals. Journal of Geophysical Research, 2008, 113, .	3.3	37
42	Intercomparison of AIRS Ozone Profiles and Total Ozone Retrievals with Matched Ozonesonde Measurements and ECMWF Forecast Data. , 2007, , .		0
43	Examination of ozonesonde data for trends and trend changes incorporating solar and Arctic oscillation signals. Journal of Geophysical Research, 2006, 111, .	3.3	27
44	Evaluation of Global Ozone Monitoring Experiment (GOME) ozone profiles from nine different algorithms. Journal of Geophysical Research, 2006, 111, .	3.3	38
45	Validation of Atmospheric Infrared Sounder (AIRS) temperature, water vapor, and ozone retrievals with matched radiosonde and ozonesonde measurements and forecasts. , 2006, , .		6
46	The Ozone Mapping and Profiler Suite. , 2006, , 279-296.		29
47	Vertical Structure of the Anomalous 2002 Antarctic Ozone Hole. Journals of the Atmospheric Sciences, 2005, 62, 801-811.	1.7	18
48	Algorithm science to operations for the National Polar-orbiting Operational Environmental Satellite System (NPOESS) ozone mapping and profiler suite (OMPS). , 2005, 5890, 217.		0
49	Comparison and covalidation of ozone anomalies and variability observed in SBUV(I2) and Umkehr northern midlatitude ozone profile estimates. Geophysical Research Letters, 2005, 32, .	4.0	16
50	Trend analysis of total ozone data for turnaround and dynamical contributions. Journal of Geophysical Research, 2005, 110, .	3.3	145
51	Representation of Limb Profile Measurements from the Ozone Mapping and Profiler Suite (OMPS). , 2005, , .		0
52	On detection of turnaround and recovery in trend for ozone. Journal of Geophysical Research, 2002, 107, ACH 1-1-ACH 1-12.	3.3	108
53	A cohesive total ozone data set from the SBUV(I2) satellite system. Journal of Geophysical Research, 2002, 107, ACH 11-1-ACH 11-8.	3.3	40
54	Total ozone determinations from National Oceanic and Atmospheric Administration operational solar backscattered ultraviolet 2 instrument observations: An update. Journal of Geophysical Research, 2001, 106, 17471-17478.	3.3	6

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55	Upper-stratospheric ozone trends 1979-1998. <i>Journal of Geophysical Research</i> , 2000, 105, 14625-14636.	3.3	37
56	Uncertainties in upper stratospheric ozone trends from 1979 to 1996. <i>Journal of Geophysical Research</i> , 2000, 105, 4427-4444.	3.3	29
57	Update of Umkehr ozone profile data trend analysis through 1997. <i>Journal of Geophysical Research</i> , 1999, 104, 23881-23898.	3.3	13
58	Results from the 1995 Stratospheric Ozone Profile Intercomparison at Mauna Loa. <i>Journal of Geophysical Research</i> , 1999, 104, 30505-30514.	3.3	34
59	Information content of Umkehr and solar backscattered ultraviolet (SBUV) 2 satellite data for ozone trends and solar responses in the stratosphere. <i>Journal of Geophysical Research</i> , 1997, 102, 19257-19263.	3.3	16
60	Comment on "Wavelet analysis and visualization of the formation and evolution of low total ozone events in northern Sweden," by B.L. Weinberg, S.R. Drayson, and K. Freese. <i>Geophysical Research Letters</i> , 1997, 24, 1543-1544.	4.0	1
61	A new approach to the characterization of long-term changes in total atmospheric ozone: Determination and application of frequency distributions: Discussion. <i>Atmospheric Environment</i> , 1997, 31, 2375-2376.	4.1	0
62	Estimation of ozone with total ozone portable spectroradiometer instruments I Theoretical model and error analysis. <i>Applied Optics</i> , 1996, 35, 6076.	2.1	13
63	Estimation of ozone with total ozone portable spectroradiometer instruments II Practical operation and comparisons. <i>Applied Optics</i> , 1996, 35, 6084.	2.1	16
64	Intercomparison of UV spectrometer and polarimeter on SMM and Stratospheric Aerosol and Gas Experiment II ozone profiles and trends in the lower mesosphere. <i>Journal of Geophysical Research</i> , 1996, 101, 9023-9029.	3.3	1
65	Comment on "New evidence for ozone depletion in the upper stratosphere," by H. Claude, et al.. <i>Geophysical Research Letters</i> , 1996, 23, 411-412.	4.0	0
66	The mid-latitude total ozone trends in the northern hemisphere. <i>Geophysical Research Letters</i> , 1996, 23, 555-558.	4.0	81
67	Long-term ozone trends derived from the 16-year combined Nimbus 7/Meteor 3 TOMS Version 7 record. <i>Geophysical Research Letters</i> , 1996, 23, 3699-3702.	4.0	106
68	Comparisons of observed ozone trends and solar effects in the stratosphere through examination of ground-based Umkehr and combined solar backscattered ultraviolet (SBUV) and SBUV 2 satellite data. <i>Journal of Geophysical Research</i> , 1996, 101, 9017-9021.	3.3	22
69	Algorithm for the estimation of vertical ozone profiles from the backscattered ultraviolet technique. <i>Journal of Geophysical Research</i> , 1996, 101, 18793-18806.	3.3	217
70	Ozone trends deduced from combined Nimbus 7 SBUV and NOAA 11 SBUV/2 data. <i>Geophysical Research Letters</i> , 1995, 22, 905-908.	4.0	73
71	Comparison of SBUV and SAGE II ozone profiles: Implications for ozone trends. <i>Journal of Geophysical Research</i> , 1994, 99, 20513.	3.3	54
72	Record Low Global Ozone in 1992. <i>Science</i> , 1993, 260, 523-526.	12.6	326

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73	Altitude dependence of stratospheric ozone trends based on Nimbus 7 SBUV data. Geophysical Research Letters, 1993, 20, 2667-2670.	4.0	44
74	Factoring: a method for scheduling parallel loops. Communications of the ACM, 1992, 35, 90-101.	4.5	326
75	Aqueduct and Reservoir Capacities for Distribution Systems. Journal of Water Resources Planning and Management - ASCE, 1989, 115, 547-565.	2.6	4
76	Shape of a Roller-Coaster Track (John S. Lew). SIAM Review, 1989, 31, 320-324.	9.5	0
77	Joint Reservoir and Aqueduct Design and Operation. Journal of Water Resources Planning and Management - ASCE, 1988, 114, 179-196.	2.6	1
78	Optimal Aqueduct Capacity and Distribution Policy: Continuous Approach. Journal of Water Resources Planning and Management - ASCE, 1987, 113, 533-549.	2.6	6
79	Optimal Aqueduct Capacity and Distribution Policy: Discrete Approach. Journal of Water Resources Planning and Management - ASCE, 1987, 113, 550-562.	2.6	6
80	Canal Design: Optimal Cross-Sections. Journal of Irrigation and Drainage Engineering - ASCE, 1987, 113, 335-355.	1.0	19
81	Multiseasonal management of an agricultural pest II: the economic optimization problem. Journal of Environmental Economics and Management, 1985, 12, 45-61.	4.7	18
82	The Ozone Mapping and Profiler Suite-Assimilation Experiment (OMPS-AE). , 0, , .		4