

Lawrence E Flynn

List of Publications by Year in descending order

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82
papers

2,808
citations

218381

26
h-index

189595

50
g-index

82
all docs

82
docs citations

82
times ranked

1989
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Factoring: a method for scheduling parallel loops. Communications of the ACM, 1992, 35, 90-101. | 3.3 | 326 |
| 2 | Record Low Global Ozone in 1992. Science, 1993, 260, 523-526. | 6.0 | 326 |
| 3 | Algorithm for the estimation of vertical ozone profiles from the backscattered ultraviolet technique. Journal of Geophysical Research, 1996, 101, 18793-18806. | 3.3 | 217 |
| 4 | Trend analysis of total ozone data for turnaround and dynamical contributions. Journal of Geophysical Research, 2005, 110, . | 3.3 | 145 |
| 5 | Solar Backscatter UV (SBUV) total ozone and profile algorithm. Atmospheric Measurement Techniques, 2013, 6, 2533-2548. | 1.2 | 121 |
| 6 | Performance of the Ozone Mapping and Profiler Suite (OMPS) products. Journal of Geophysical Research D: Atmospheres, 2014, 119, 6181-6195. | 1.2 | 116 |
| 7 | 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 |
| 8 | Long-term ozone trends derived from the 16-year combined Nimbus 7/Meteor 3 TOMS Version 7 record. Geophysical Research Letters, 1996, 23, 3699-3702. | 1.5 | 106 |
| 9 | The version 8.6 SBUV ozone data record: An overview. Journal of Geophysical Research D: Atmospheres, 2013, 118, 8032-8039. | 1.2 | 104 |
| 10 | Validation of Ozone Monitoring Instrument level 1b data products. Journal of Geophysical Research, 2008, 113, . | 3.3 | 84 |
| 11 | The mid-latitude total ozone trends in the northern hemisphere. Geophysical Research Letters, 1996, 23, 555-558. | 1.5 | 81 |
| 12 | Ozone trends deduced from combined Nimbus 7 SBUV and NOAA 11 SBUV/2 data. Geophysical Research Letters, 1995, 22, 905-908. | 1.5 | 73 |
| 13 | 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. | 1.2 | 70 |
| 14 | 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. | 2.7 | 67 |
| 15 | Comparison of SBUV and SAGE II ozone profiles: Implications for ozone trends. Journal of Geophysical Research, 1994, 99, 20513. | 3.3 | 54 |
| 16 | Relative drifts and stability of satellite and ground-based stratospheric ozone profiles at NDACC lidar stations. Atmospheric Measurement Techniques, 2012, 5, 1301-1318. | 1.2 | 46 |
| 17 | Altitude dependence of stratospheric ozone trends based on Nimbus 7 SBUV data. Geophysical Research Letters, 1993, 20, 2667-2670. | 1.5 | 44 |
| 18 | NPOESS. Bulletin of the American Meteorological Society, 2010, 91, 727-740. | 1.7 | 42 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | A cohesive total ozone data set from the SBUV(/2) satellite system. Journal of Geophysical Research, 2002, 107, ACH 11-1-ACH 11-8. | 3.3 | 40 |
| 20 | Evaluation of Global Ozone Monitoring Experiment (GOME) ozone profiles from nine different algorithms. Journal of Geophysical Research, 2006, 111, . | 3.3 | 38 |
| 21 | Upper-stratospheric ozone trends 1979-1998. Journal of Geophysical Research, 2000, 105, 14625-14636. | 3.3 | 37 |
| 22 | 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 |
| 23 | Results from the 1995 Stratospheric Ozone Profile Intercomparison at Mauna Loa. Journal of Geophysical Research, 1999, 104, 30505-30514. | 3.3 | 34 |
| 24 | Sensitivity of Dobson and Brewer Umkehr ozone profile retrievals to ozone cross-sections and stray light effects. Atmospheric Measurement Techniques, 2011, 4, 1841-1853. | 1.2 | 33 |
| 25 | 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. | 1.9 | 32 |
| 26 | Uncertainties in upper stratospheric ozone trends from 1979 to 1996. Journal of Geophysical Research, 2000, 105, 4427-4444. | 3.3 | 29 |
| 27 | The Ozone Mapping and Profiler Suite. , 2006, , 279-296. | | 29 |
| 28 | Examination of ozonesonde data for trends and trend changes incorporating solar and Arctic oscillation signals. Journal of Geophysical Research, 2006, 111, . | 3.3 | 27 |
| 29 | Five decades observing Earth's atmospheric trace gases using ultraviolet and visible backscatter solar radiation from space. Journal of Quantitative Spectroscopy and Radiative Transfer, 2019, 238, 106478. | 1.1 | 26 |
| 30 | 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. Journal of Geophysical Research, 1996, 101, 9017-9021. | 3.3 | 22 |
| 31 | 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. | 2.3 | 20 |
| 32 | Canal Design: Optimal Cross-Sections. Journal of Irrigation and Drainage Engineering - ASCE, 1987, 113, 335-355. | 0.6 | 19 |
| 33 | Multiseasonal management of an agricultural pest II: the economic optimization problem. Journal of Environmental Economics and Management, 1985, 12, 45-61. | 2.1 | 18 |
| 34 | Vertical Structure of the Anomalous 2002 Antarctic Ozone Hole. Journals of the Atmospheric Sciences, 2005, 62, 801-811. | 0.6 | 18 |
| 35 | 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. | 1.2 | 17 |
| 36 | Estimation of ozone with total ozone portable spectroradiometer instruments II Practical operation and comparisons. Applied Optics, 1996, 35, 6084. | 2.1 | 16 |

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|----|--|-----|-----------|
| 37 | 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 |
| 38 | Comparison and covalidation of ozone anomalies and variability observed in SBUV(2) and Umkehr northern midlatitude ozone profile estimates. <i>Geophysical Research Letters</i> , 2005, 32, . | 1.5 | 16 |
| 39 | How long do satellites need to overlap? Evaluation of climate data stability from overlapping satellite records. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 15069-15093. | 1.9 | 14 |
| 40 | Spectral Performance and Calibration of the Suomi NPP OMPS Nadir Profiler Sensor. <i>Earth and Space Science</i> , 2017, 4, 737-745. | 1.1 | 14 |
| 41 | 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 |
| 42 | Update of Umkehr ozone profile data trend analysis through 1997. <i>Journal of Geophysical Research</i> , 1999, 104, 23881-23898. | 3.3 | 13 |
| 43 | Cross-Calibration of the Total Ozone Unit (TOU) With the Ozone Monitoring Instrument (OMI) and SBUV/2 for Environmental Applications. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2012, 50, 4943-4955. | 2.7 | 10 |
| 44 | Evaluation and Improvement of the Near-Real-Time Linear Fit SO ₂ Retrievals From Suomi NPP Ozone Mapping and Profiler Suite. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2021, 59, 101-113. | 2.7 | 10 |
| 45 | Solar observation of Ozone Mapping and Profiler Suite nadir system during the first 3 years of on-orbit operation. <i>Journal of Applied Remote Sensing</i> , 2015, 9, 094095. | 0.6 | 9 |
| 46 | Optimal Aqueduct Capacity and Distribution Policy: Continuous Approach. <i>Journal of Water Resources Planning and Management - ASCE</i> , 1987, 113, 533-549. | 1.3 | 6 |
| 47 | Optimal Aqueduct Capacity and Distribution Policy: Discrete Approach. <i>Journal of Water Resources Planning and Management - ASCE</i> , 1987, 113, 550-562. | 1.3 | 6 |
| 48 | Total ozone determinations from National Oceanic and Atmospheric Administration operational solar backscattered ultraviolet 2 instrument observations: An update. <i>Journal of Geophysical Research</i> , 2001, 106, 17471-17478. | 3.3 | 6 |
| 49 | Validation of Atmospheric Infrared Sounder (AIRS) temperature, water vapor, and ozone retrievals with matched radiosonde and ozonesonde measurements and forecasts. , 2006, , . | | 6 |
| 50 | Radiometric Calibration of the Solar Backscatter Ultraviolet Sounder and Validation of Ozone Profile Retrievals. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2012, 50, 4956-4964. | 2.7 | 6 |
| 51 | Suomi-NPP OMPS Nadir Mapper's Operational SDR Performance. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2019, 57, 1015-1024. | 2.7 | 6 |
| 52 | Performance of OMPS Nadir Profilers's Sensor Data Records. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2021, 59, 6885-6893. | 2.7 | 6 |
| 53 | Aqueduct and Reservoir Capacities for Distribution Systems. <i>Journal of Water Resources Planning and Management - ASCE</i> , 1989, 115, 547-565. | 1.3 | 4 |
| 54 | The Ozone Mapping and Profiler Suite-Assimilation Experiment (OMPS-AE). , 0, , . | | 4 |

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|----|---|-----|-----------|
| 55 | OMPS early orbit dark and bias evaluation and calibration. , 2012, , . | | 4 |
| 56 | Suomi National Polar-orbiting Partnership Ozone Mapping Profiler Suite Nadir instruments in-flight performance. Journal of Applied Remote Sensing, 2014, 8, 083499. | 0.6 | 4 |
| 57 | Optimized Umkehr profile algorithm for ozone trend analyses. Atmospheric Measurement Techniques, 2022, 15, 1849-1870. | 1.2 | 4 |
| 58 | Lifetime Performance Assessment of SNPP OMPS Nadir MAPPER SDR Data Using Simultaneous Nadir Overpass Collocated Observations with Gome-2. , 2020, , . | | 2 |
| 59 | Joint Reservoir and Aqueduct Design and Operation. Journal of Water Resources Planning and Management - ASCE, 1988, 114, 179-196. | 1.3 | 1 |
| 60 | Intercomparison of UV spectrometer and polarimeter on SMM and Stratospheric Aerosol and Gas Experiment II ozone profiles and trends in the lower mesosphere. Journal of Geophysical Research, 1996, 101, 9023-9029. | 3.3 | 1 |
| 61 | 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. Geophysical Research Letters, 1997, 24, 1543-1544. | 1.5 | 1 |
| 62 | Characterization of in band stray light in SBUV/2 instruments. Atmospheric Measurement Techniques, 2014, 7, 267-278. | 1.2 | 1 |
| 63 | Spectral Calibration of NOAA-20 OMPS Sensor Data Record. , 2019, , . | | 1 |
| 64 | Recent Improvements to NOAA-20 Ozone Mapper Profiler Suite Nadir Profiler Sensor Data Records. , 2021, , . | | 1 |
| 65 | 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. | 1.8 | 1 |
| 66 | Shape of a Roller-Coaster Track (John S. Lew). SIAM Review, 1989, 31, 320-324. | 4.2 | 0 |
| 67 | Comment on "New evidence for ozone depletion in the upper stratosphere," by H. Claude, et al.. Geophysical Research Letters, 1996, 23, 411-412. | 1.5 | 0 |
| 68 | A new approach to the characterization of long-term changes in total atmospheric ozone: Determination and application of frequency distributions: Discussion. Atmospheric Environment, 1997, 31, 2375-2376. | 1.9 | 0 |
| 69 | Algorithm science to operations for the National Polar-orbiting Operational Environmental Satellite System (NPOESS) ozone mapping and profiler suite (OMPS). , 2005, 5890, 217. | | 0 |
| 70 | South Atlantic anomaly filter for satellite UV observation. , 2011, , . | | 0 |
| 71 | Post-launch performance evaluation of the OMPS sensors on NPP. , 2011, , . | | 0 |
| 72 | Computing differential air mass factor lookup tables using DISORT radiative transfer model. , 2011, , . | | 0 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 73 | S-NPP Ozone Mapping and Profiler Suite provisional operations performance. , 2013, , . | | 0 |
| 74 | Ozone mapper profiler suite early orbit linearity performance evaluation. , 2013, , . | | 0 |
| 75 | Post-launch performance evaluation of the OMPS Nadir Mapper and Nadir Profiler. Proceedings of SPIE, 2014, , . | 0.8 | 0 |
| 76 | Testing and integration of JPSS Ozone Mapping and Profiler Suite (OMPS) algorithms using the Algorithm Development Library (ADL). , 2015, , . | | 0 |
| 77 | Atmospheric Ozone Soundings From Space-Based Measurements. , 2018, , 3-41. | | 0 |
| 78 | NOAA-20 OMPS Sensor Data Record from Early Orbit Operation. , 2018, , . | | 0 |
| 79 | JPSS Atmospheric Composition Products for Environmental Monitoring and Applications. , 2019, , . | | 0 |
| 80 | Representation of Limb Profile Measurements from the Ozone Mapping and Profiler Suite (OMPS). , 2005, , . | | 0 |
| 81 | Intercomparison of AIRS Ozone Profiles and Total Ozone Retrievals with Matched Ozone-sonde Measurements and ECMWF Forecast Data. , 2007, , . | | 0 |
| 82 | 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. | 2.7 | 0 |