List of Publications by Year in descending order

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<u>ΡΛΥΛΛΝ Κ ΒΗΛΡΤΙΛ</u>

#	Article	IF	CITATIONS
1	Aerosols and surface UV products from Ozone Monitoring Instrument observations: An overview. Journal of Geophysical Research, 2007, 112, .	3.3	685
2	Science objectives of the ozone monitoring instrument. IEEE Transactions on Geoscience and Remote Sensing, 2006, 44, 1199-1208.	6.3	439
3	Overview of the EOS aura mission. IEEE Transactions on Geoscience and Remote Sensing, 2006, 44, 1066-1074.	6.3	345
4	Tropospheric ozone determined from Aura OMI and MLS: Evaluation of measurements and comparison with the Global Modeling Initiative's Chemical Transport Model. Journal of Geophysical Research, 2006, 111, .	3.3	293
5	A new stratospheric and tropospheric NO ₂ retrieval algorithm for nadir-viewing satellite instruments: applications to OMI. Atmospheric Measurement Techniques, 2013, 6, 2607-2626.	3.1	269
6	The Ozone Monitoring Instrument: overview of 14 years in space. Atmospheric Chemistry and Physics, 2018, 18, 5699-5745.	4.9	259
7	Band residual difference algorithm for retrieval of SO/sub 2/ from the aura ozone monitoring instrument (OMI). IEEE Transactions on Geoscience and Remote Sensing, 2006, 44, 1259-1266.	6.3	253
8	Retrieval of large volcanic SO ₂ columns from the Aura Ozone Monitoring Instrument: Comparison and limitations. Journal of Geophysical Research, 2007, 112, .	3.3	186
9	A global climatology of tropospheric and stratospheric ozone derived from Aura OMI and MLS measurements. Atmospheric Chemistry and Physics, 2011, 11, 9237-9251.	4.9	168
10	A fast and sensitive new satellite SO ₂ retrieval algorithm based on principal component analysis: Application to the ozone monitoring instrument. Geophysical Research Letters, 2013, 40, 6314-6318.	4.0	165
11	New Era of Air Quality Monitoring from Space: Geostationary Environment Monitoring Spectrometer (GEMS). Bulletin of the American Meteorological Society, 2020, 101, E1-E22.	3.3	165
12	Validation of SO ₂ retrievals from the Ozone Monitoring Instrument over NE China. Journal of Geophysical Research, 2008, 113, .	3.3	139
13	Solar Backscatter UV (SBUV) total ozone and profile algorithm. Atmospheric Measurement Techniques, 2013, 6, 2533-2548.	3.1	121
14	Retrieval of Aerosol Optical Depth above Clouds from OMI Observations: Sensitivity Analysis and Case Studies. Journals of the Atmospheric Sciences, 2012, 69, 1037-1053.	1.7	118
15	A new interpretation of total column BrO during Arctic spring. Geophysical Research Letters, 2010, 37,	4.0	116
16	Rotational Raman scattering (Ring effect) in satellite backscatter ultraviolet measurements. Applied Optics, 1995, 34, 4513.	2.1	115
17	Past changes in the vertical distribution of ozone – Part 3: Analysis and interpretation of trends. Atmospheric Chemistry and Physics, 2015, 15, 9965-9982.	4.9	115
18	The version 8.6 SBUV ozone data record: An overview. Journal of Geophysical Research D: Atmospheres, 2013, 118, 8032-8039.	3.3	104

PAWAN K BHARTIA

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19	O3profiles retrieved from limb scatter measurements: Theory. Geophysical Research Letters, 2000, 27, 2601-2604.	4.0	101
20	Comparison of Ozone Monitoring Instrument UV Aerosol Products with Aqua/Moderate Resolution Imaging Spectroradiometer and Multiangle Imaging Spectroradiometer observations in 2006. Journal of Geophysical Research, 2008, 113, .	3.3	94
21	Evaluation of the OMI cloud pressures derived from rotational Raman scattering by comparisons with other satellite data and radiative transfer simulations. Journal of Geophysical Research, 2008, 113, .	3.3	93
22	Total Ozone Mapping Spectrometer measurements of aerosol absorption from space: Comparison to SAFARI 2000 ground-based observations. Journal of Geophysical Research, 2005, 110, .	3.3	91
23	Impact of the ozone monitoring instrument row anomaly on the long-term record of aerosol products. Atmospheric Measurement Techniques, 2018, 11, 2701-2715.	3.1	85
24	Photochemical Activity and Solar Ultraviolet Radiation (PAUR) Modulation Factors: An overview of the project. Journal of Geophysical Research, 2002, 107, PAU 1-1.	3.3	81
25	Long-term evolution of upper stratospheric ozone at selected stations of the Network for the Detection of Stratospheric Change (NDSC). Journal of Geophysical Research, 2006, 111, n/a-n/a.	3.3	79
26	Direct retrieval of sulfur dioxide amount and altitude from spaceborne hyperspectral UV measurements: Theory and application. Journal of Geophysical Research, 2010, 115, .	3.3	78
27	Tropical tropospheric ozone: Implications for dynamics and biomass burning. Journal of Geophysical Research, 2002, 107, ACH 3-1.	3.3	77
28	Recent biomass burning in the tropics and related changes in tropospheric ozone. Geophysical Research Letters, 2009, 36, .	4.0	68
29	Past changes in the vertical distribution of ozone – Part 1: Measurement techniques, uncertainties and availability. Atmospheric Measurement Techniques, 2014, 7, 1395-1427.	3.1	67
30	A Color Ratio Method for Simultaneous Retrieval of Aerosol and Cloud Optical Thickness of Above-Cloud Absorbing Aerosols From Passive Sensors: Application to MODIS Measurements. IEEE Transactions on Geoscience and Remote Sensing, 2013, 51, 3862-3870.	6.3	66
31	A 25-year data record of atmospheric ozone in the Pacific from Total Ozone Mapping Spectrometer (TOMS) cloud slicing: Implications for ozone trends in the stratosphere and troposphere. Journal of Geophysical Research, 2005, 110, .	3.3	65
32	OMPS Limb Profiler instrument performance assessment. Journal of Geophysical Research D: Atmospheres, 2014, 119, 4399-4412.	3.3	64
33	A comparison of 40 years of SBUV measurements of column ozone with data from the Dobson/Brewer network. Journal of Geophysical Research D: Atmospheres, 2013, 118, 7370-7378.	3.3	63
34	Comparing OMIâ€TOMS and OMIâ€DOAS total ozone column data. Journal of Geophysical Research, 2008, 113, .	3.3	62
35	Aerosol ultraviolet absorption experiment (2002 to 2004), part 2: absorption optical thickness, refractive index, and single scattering albedo. Optical Engineering, 2005, 44, 041005.	1.0	57
36	Variability and evolution of the midlatitude stratospheric aerosol budget from 22 years of ground-based lidar and satellite observations. Atmospheric Chemistry and Physics, 2017, 17, 1829-1845.	4.9	55

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37	Retrieval of cloud pressure and oceanic chlorophyll content using Raman scattering in GOME ultraviolet spectra. Journal of Geophysical Research, 2004, 109, .	3.3	53
38	New Umkehr ozone profile retrieval algorithm optimized for climatological studies. Geophysical Research Letters, 2005, 32, .	4.0	51
39	Improving retrieval of volcanic sulfur dioxide from backscattered UV satellite observations. Geophysical Research Letters, 2009, 36, .	4.0	48
40	Ocean Raman scattering in satellite backscatter UV measurements. Geophysical Research Letters, 2002, 29, 18-1-18-4.	4.0	45
41	Fast simulators for satellite cloud optical centroid pressure retrievals; evaluation of OMI cloud retrievals. Atmospheric Measurement Techniques, 2012, 5, 529-545.	3.1	44
42	The Ozone Mapping and Profiler Suite (OMPS) Limb Profiler (LP) Version 1 aerosol extinction retrieval algorithm: theoretical basis. Atmospheric Measurement Techniques, 2018, 11, 2633-2651.	3.1	42
43	Version 2 total ozone mapping spectrometer ultraviolet algorithm: problems and enhancements. Optical Engineering, 2002, 41, 3028.	1.0	41
44	Measuring the Antarctic ozone hole with the new Ozone Mapping and Profiler Suite (OMPS). Atmospheric Chemistry and Physics, 2014, 14, 2353-2361.	4.9	41
45	Assessment and applications of NASA ozone data products derived from Aura OMI/MLS satellite measurements in context of the GMI chemical transport model. Journal of Geophysical Research D: Atmospheres, 2014, 119, 5671-5699.	3.3	40
46	An assessment of the longâ€ŧerm drift in SBUV total ozone data, based on comparison with the Dobson network. Geophysical Research Letters, 1986, 13, 1359-1362.	4.0	39
47	Evaluation of Global Ozone Monitoring Experiment (GOME) ozone profiles from nine different algorithms. Journal of Geophysical Research, 2006, 111, .	3.3	38
48	Validation of ozone monthly zonal mean profiles obtained from the version 8.6 Solar Backscatter Ultraviolet algorithm. Atmospheric Chemistry and Physics, 2013, 13, 6887-6905.	4.9	38
49	Diurnal variations of stratospheric ozone measured by ground-based microwave remote sensing at the Mauna Loa NDACC site: measurement validation and GEOSCCM model comparison. Atmospheric Chemistry and Physics, 2014, 14, 7255-7272.	4.9	38
50	Effects of the 2004 El Niño on tropospheric ozone and water vapor. Geophysical Research Letters, 2007, 34, .	4.0	37
51	Aerosol ultraviolet absorption experiment (2002 to 2004), part 1: ultraviolet multifilter rotating shadowband radiometer calibration and intercomparison with CIMEL sunphotometers. Optical Engineering, 2005, 44, 041004.	1.0	34
52	Seven years of total ozone from the TOMS instrumentâ€A report on data quality. Geophysical Research Letters, 1986, 13, 1355-1358.	4.0	31
53	Comparisons between ground measurements of broadband ultraviolet irradiance (300 to 380 nm) and total ozone mapping spectrometer ultraviolet estimates at Moscow from 1979 to 2000. Optical Engineering, 2002, 41, 3070.	1.0	28
54	Description and sensitivity analysis of a limb scattering ozone retrieval algorithm. Journal of Geophysical Research, 2005, 110, .	3.3	28

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55	Improvement of stratospheric aerosol extinction retrieval from OMPS/LP using a new aerosol model. Atmospheric Measurement Techniques, 2018, 11, 6495-6509.	3.1	28
56	Validation of ozone profile retrievals derived from the OMPS LP versionÂ2.5 algorithm against correlative satellite measurements. Atmospheric Measurement Techniques, 2018, 11, 2837-2861.	3.1	27
57	Atmospheric products from the ozone monitoring instrument (OMI). , 2003, 5151, 619.		26
58	Temperature diurnal variations (migrating tides) in the stratosphere and lower mesosphere based on measurements from SABER on TIMED. Journal of Geophysical Research, 2010, 115, .	3.3	26
59	Errors resulting from assuming opaque Lambertian clouds in TOMS ozone retrieval. Journal of Quantitative Spectroscopy and Radiative Transfer, 2004, 85, 337-365.	2.3	25
60	Aerosol properties from EP-TOMS near UV observations. Advances in Space Research, 2002, 29, 1771-1780.	2.6	23
61	Improving total column ozone retrievals by using cloud pressures derived from Raman scattering in the UV. Geophysical Research Letters, 2004, 31, .	4.0	23
62	A new algorithm for detecting cloud height using OMPS/LP measurements. Atmospheric Measurement Techniques, 2016, 9, 1239-1246.	3.1	22
63	Interpreting SBUV smoothing errors: an example using the quasi-biennial oscillation. Atmospheric Measurement Techniques, 2013, 6, 2089-2099.	3.1	21
64	A cloud algorithm based on the O ₂ -O ₂ 477 nm absorption band featuring an advanced spectral fitting method and the use of surface geometry-dependent Lambertian-equivalent reflectivity. Atmospheric Measurement Techniques, 2018, 11,	3.1	21
65	4093-4107. Gauss–Seidel limb scattering (GSLS) radiative transfer model development in support of the Ozone Mapping and Profiler Suite (OMPS) limb profiler mission. Atmospheric Chemistry and Physics, 2015, 15, 3007-3020.	4.9	19
66	Vertical Structure of the Anomalous 2002 Antarctic Ozone Hole. Journals of the Atmospheric Sciences, 2005, 62, 801-811.	1.7	18
67	Observations over hurricanes from the ozone monitoring instrument. Geophysical Research Letters, 2006, 33, .	4.0	18
68	Intraâ€seasonal variability in tropospheric ozone and water vapor in the tropics. Geophysical Research Letters, 2007, 34, .	4.0	18
69	What do satellite backscatter ultraviolet and visible spectrometers see over snow and ice? A study of clouds and ozone using the A-train. Atmospheric Measurement Techniques, 2010, 3, 619-629.	3.1	18
70	An assessment of the longâ€ŧerm drift in TOMS total ozone data, based on comparison with the Dobson Network. Geophysical Research Letters, 1988, 15, 1133-1136.	4.0	17
71	Comparison of profile total ozone from SBUV (v8.6) with GOME-type and ground-based total ozone for a 16-year period (1996 to 2011). Atmospheric Measurement Techniques, 2014, 7, 1681-1692.	3.1	17
72	OMPS LP Observations of PSC Variability During the NH 2019–2020 Season. Geophysical Research Letters, 2020, 47, e2020GL090216.	4.0	17

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73	Comparison and covalidation of ozone anomalies and variability observed in SBUV(/2) and Umkehr northern midlatitude ozone profile estimates. Geophysical Research Letters, 2005, 32, .	4.0	16
74	Total Ozone from Backscattered Ultraviolet Measurements. , 2007, , 48-63.		15
75	A total ozoneâ€dependent ozone profile climatology based on ozonesondes and Aura MLS data. Journal of Geophysical Research D: Atmospheres, 2015, 120, 2537-2545.	3.3	14
76	Altitude registration of limb-scattered radiation. Atmospheric Measurement Techniques, 2017, 10, 167-178.	3.1	14
77	Derivation of tropospheric column ozone from the Earth Probe TOMS/GOES co-located data sets using the cloud slicing technique. Journal of Atmospheric and Solar-Terrestrial Physics, 2003, 65, 1127-1137.	1.6	13
78	A new discrete wavelength backscattered ultraviolet algorithm for consistent volcanic SO ₂ retrievals from multiple satellite missions. Atmospheric Measurement Techniques, 2019, 12, 5137-5153.	3.1	12
79	Model-based climatology of diurnal variability in stratospheric ozone as a data analysis tool. Atmospheric Measurement Techniques, 2020, 13, 2733-2749.	3.1	11
80	Evaluation of the OMPS/LP stratospheric aerosol extinction product using SAGE III/ISS observations. Atmospheric Measurement Techniques, 2020, 13, 3471-3485.	3.1	11
81	Algorithm for the charge-coupled-device scanning actinic flux spectroradiometer ozone retrieval in support of the Aura satellite validation. Journal of Applied Remote Sensing, 2007, 1, 013540.	1.3	10
82	<title>Version 2 TOMS UV algorithm: problems and enhancements</title> . , 2002, 4482, 82.		8
83	Inâ€flight validation of Aura MLS ozone with CAFS partial ozone columns. Journal of Geophysical Research, 2008, 113, .	3.3	6
84	A comparison of lognormal and gamma size distributions for characterizing the stratospheric aerosol phase function from optical particle counter measurements. Atmospheric Measurement Techniques, 2020, 13, 1071-1087.	3.1	6
85	<title>Monitoring atmospheric ozone from space limb-scatter measurements</title> . , 1995, 2582, 88.		5
86	A global ozone profile climatology for satellite retrieval algorithms based on Aura MLS measurements and the MERRA-2 GMI simulation. Atmospheric Measurement Techniques, 2021, 14, 6407-6418.	3.1	5
87	Spectral band calibration of the Total Ozone Mapping Spectrometer (TOMS) using a tunable laser technique. , 2000, , .		4
88	Early Data from Aura and Continuity from Uars and Toms. Space Science Reviews, 2007, 125, 417-430.	8.1	4
89	Recent results from the Ozone Monitoring Instrument (OMI) on EOS Aura. , 2006, , .		3
90	Global pictures of the ozone field, from high altitudes, from DE-I. Advances in Space Research, 1982, 2, 183-188.	2.6	2

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91	<title>Comparisons between ground measurements of UV irradiance 290 to 380nm and TOMS UV estimates over Moscow for 1979-2000</title> . , 2002, , .		2
92	Measuring aerosol UV absorption optical thickness by combining use of shadowband and almucantar techniques. , 2004, , .		2
93	Goddard UV aerosol absorption closure experiment (2002-03). , 2003, 5156, 54.		1
94	Role of Satellite Measurements in the Discovery of Stratospheric Ozone Depletion. , 2009, , 183-189.		1
95	<title>Prelaunch tests for the calibration of Total Ozone Mapping Spectrometer (TOMS) flight model 5 (FM-5)</title> . , 1999, , .		1
96	<title>Joint Russian-USA Meteor-3M(2)/TOMS-5 mission</title> ., 1998, 3498, 458.		0
97	Aerosol Absorption Measurements from Space Observations by the Auraâ€OMI Sensor. , 2009, , .		0
98	Interaction Between Particle Absorption and Rayleigh Scattering in the Nearâ \in UV. , 2009, , .		0
99	Nasa's Experience in Deriving Total Ozone from Satellites. , 2000, , 293-299.		0

100 Air-Quality Study from Geostationary/High-Altitude Orbits. , 0, , 23-37.