

# Christopher E Sioris

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/7740456/christopher-e-sioris-publications-by-year.pdf>

**Version:** 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

70  
papers

2,701  
citations

28  
h-index

51  
g-index

78  
ext. papers

3,057  
ext. citations

4.6  
avg, IF

4.28  
L-index

#	Paper	IF	Citations
70	Overview and update of the SPARC Data Initiative: comparison of stratospheric composition measurements from satellite limb sounders. <i>Earth System Science Data</i> , <b>2021</b> , 13, 1855-1903	10.5	3
69	Ammonia measurements from space with the Cross-track Infrared Sounder: characteristics and applications. <i>Atmospheric Chemistry and Physics</i> , <b>2020</b> , 20, 2277-2302	6.8	20
68	The Atmospheric Imaging Mission for Northern Regions: AIM-North. <i>Canadian Journal of Remote Sensing</i> , <b>2019</b> , 45, 423-442	1.8	10
67	Dry Deposition of Reactive Nitrogen From Satellite Observations of Ammonia and Nitrogen Dioxide Over North America. <i>Geophysical Research Letters</i> , <b>2018</b> , 45, 1157-1166	4.9	42
66	Reevaluating the Use of O <sub>2</sub> -A Band in Spaceborne Remote Sensing of Greenhouse Gases. <i>Geophysical Research Letters</i> , <b>2018</b> , 45, 5779-5787	4.9	11
65	Improved OSIRIS NO <sub>2</sub> retrieval algorithm: description and validation. <i>Atmospheric Measurement Techniques</i> , <b>2017</b> , 10, 1155-1168	4	7
64	Variability of Stratospheric Reactive Nitrogen and Ozone Related to the QBO. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2017</b> , 122, 10,103-10,118	4.4	11
63	AEROCAN, the Canadian sub-network of AERONET: Aerosol monitoring and air quality applications. <i>Atmospheric Environment</i> , <b>2017</b> , 167, 444-457	5.3	13
62	OMI satellite observations of decadal changes in ground-level sulfur dioxide over North America. <i>Atmospheric Chemistry and Physics</i> , <b>2017</b> , 17, 5921-5929	6.8	24
61	Assessment of the aerosol optical depths measured by satellite-based passive remote sensors in the Alberta oil sands region. <i>Atmospheric Chemistry and Physics</i> , <b>2017</b> , 17, 1931-1943	6.8	9
60	Direct injection of water vapor into the stratosphere by volcanic eruptions. <i>Geophysical Research Letters</i> , <b>2016</b> , 43, 7694-7700	4.9	9
59	Upper tropospheric water vapour variability at high latitudes [Part 1: Influence of the annular modes. <i>Atmospheric Chemistry and Physics</i> , <b>2016</b> , 16, 3265-3278	6.8	3
58	Water vapour variability in the high-latitude upper troposphere [Part 2: Impact of volcanic eruptions. <i>Atmospheric Chemistry and Physics</i> , <b>2016</b> , 16, 2207-2219	6.8	4
57	Stratospheric CH <sub>4</sub> and CO <sub>2</sub> profiles derived from SCIAMACHY solar occultation measurements. <i>Atmospheric Measurement Techniques</i> , <b>2016</b> , 9, 1485-1503 <sup>4</sup>		9
56	Assessing the quality of active-passive satellite retrievals using broad-band radiances. <i>Quarterly Journal of the Royal Meteorological Society</i> , <b>2015</b> , 141, 1294-1305	6.4	4
55	Intercomparison of vertically resolved merged satellite ozone data sets: interannual variability and long-term trends. <i>Atmospheric Chemistry and Physics</i> , <b>2015</b> , 15, 3021-3043	6.8	51
54	Trends in stratospheric ozone derived from merged SAGE II and Odin-OSIRIS satellite observations. <i>Atmospheric Chemistry and Physics</i> , <b>2014</b> , 14, 6983-6994	6.8	58

53	Trend and variability in ozone in the tropical lower stratosphere over 2.5 solar cycles observed by SAGE II and OSIRIS. <i>Atmospheric Chemistry and Physics</i> , <b>2014</b> , 14, 3479-3496	6.8	34
52	Assessment of Odin-OSIRIS ozone measurements from 2001 to the present using MLS, GOMOS, and ozonesondes. <i>Atmospheric Measurement Techniques</i> , <b>2014</b> , 7, 49-64	4	22
51	Retrieval of carbon dioxide vertical profiles from solar occultation observations and associated error budgets for ACE-FTS and CASS-FTS. <i>Atmospheric Measurement Techniques</i> , <b>2014</b> , 7, 2243-2262	4	17
50	Assessment of Odin-OSIRIS ozone measurements from 2001 to the present using MLS, GOMOS, and ozone sondes <b>2013</b> ,		7
49	A global tropospheric ozone climatology from trajectory-mapped ozone soundings. <i>Atmospheric Chemistry and Physics</i> , <b>2013</b> , 13, 10659-10675	6.8	40
48	Air quality over the Canadian oil sands: A first assessment using satellite observations. <i>Geophysical Research Letters</i> , <b>2012</b> , 39, n/a-n/a	4.9	108
47	OSIRIS: A Decade of Scattered Light. <i>Bulletin of the American Meteorological Society</i> , <b>2012</b> , 93, 1845-1863	6.1	27
46	Application of satellite observations for timely updates to global anthropogenic NO <sub>x</sub> emission inventories. <i>Geophysical Research Letters</i> , <b>2011</b> , 38, n/a-n/a	4.9	193
45	Analysis of reactive bromine production and ozone depletion in the Arctic boundary layer using 3-D simulations with GEM-AQ: inference from synoptic-scale patterns. <i>Atmospheric Chemistry and Physics</i> , <b>2011</b> , 11, 3949-3979	6.8	56
44	Fast NO <sub>2</sub> retrievals from Odin-OSIRIS limb scatter measurements. <i>Atmospheric Measurement Techniques</i> , <b>2011</b> , 4, 965-972	4	28
43	Odin/OSIRIS observations of stratospheric BrO: Retrieval methodology, climatology, and inferred Bry. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115,		31
42	High-resolution tropospheric ozone fields for INTEX and ARCTAS from IONS ozonesondes. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115,		31
41	Atmospheric Chemistry Experiment (ACE) observations of aerosol in the upper troposphere and lower stratosphere from the Kasatochi volcanic eruption. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115,		20
40	Ozone correlation lengths and measurement uncertainties from analysis of historical ozonesonde data in North America and Europe. <i>Journal of Geophysical Research</i> , <b>2009</b> , 114,		34
39	Comparison of weekly cycle of NO <sub>2</sub> satellite retrievals and NO <sub>x</sub> emission inventories for the continental United States. <i>Journal of Geophysical Research</i> , <b>2009</b> , 114,		35
38	Validation of Odin/OSIRIS stratospheric NO <sub>2</sub> profiles. <i>Journal of Geophysical Research</i> , <b>2007</b> , 112,		24
37	Space-based constraints on the production of nitric oxide by lightning. <i>Journal of Geophysical Research</i> , <b>2007</b> , 112,		157
36	OSIRIS observations of a tongue of NO <sub>x</sub> in the lower stratosphere at the Antarctic vortex edge: comparison with a high-resolution simulation from the Global Environmental Multiscale (GEM) model. <i>Canadian Journal of Physics</i> , <b>2007</b> , 85, 1195-1207	1.1	1

35	A stratospheric NO <sub>2</sub> climatology from Odin/OSIRIS limb-scatter measurements. <i>Canadian Journal of Physics</i> , <b>2007</b> , 85, 1253-1274	1.1	26
34	Impact of using different ozone cross sections on ozone profile retrievals from Global Ozone Monitoring Experiment (GOME) ultraviolet measurements. <i>Atmospheric Chemistry and Physics</i> , <b>2007</b> , 7, 3571-3578	6.8	48
33	Vertical profiles of lightning-produced NO <sub>2</sub> enhancements in the upper troposphere observed by OSIRIS. <i>Atmospheric Chemistry and Physics</i> , <b>2007</b> , 7, 4281-4294	6.8	18
32	Latitudinal and vertical distribution of bromine monoxide in the lower stratosphere from Scanning Imaging Absorption Spectrometer for Atmospheric Chartography limb scattering measurements. <i>Journal of Geophysical Research</i> , <b>2006</b> , 111,		62
31	First directly retrieved global distribution of tropospheric column ozone from GOME: Comparison with the GEOS-CHEM model. <i>Journal of Geophysical Research</i> , <b>2006</b> , 111,		48
30	Diurnal effects in limb scatter observations. <i>Journal of Geophysical Research</i> , <b>2006</b> , 111,		40
29	Evaluation of space-based constraints on global nitrogen oxide emissions with regional aircraft measurements over and downwind of eastern North America. <i>Journal of Geophysical Research</i> , <b>2006</b> , 111,		159
28	Intercomparison of GOME, ozonesonde, and SAGE II measurements of ozone: Demonstration of the need to homogenize available ozonesonde data sets. <i>Journal of Geophysical Research</i> , <b>2006</b> , 111,		26
27	Correction to First directly retrieved global distribution of tropospheric column ozone from GOME: Comparison with the GEOS-CHEM model. <i>Journal of Geophysical Research</i> , <b>2006</b> , 111, n/a-n/a		31
26	Tropospheric ozone profiles from a ground-based ultraviolet spectrometer: a new retrieval method. <i>Applied Optics</i> , <b>2006</b> , 45, 2352-9	1.7	4
25	Undersampling correction for array detector-based satellite spectrometers. <i>Applied Optics</i> , <b>2005</b> , 44, 1296-304	1.7	61
24	Mapping tropospheric ozone profiles from an airborne ultraviolet-visible spectrometer. <i>Applied Optics</i> , <b>2005</b> , 44, 3312-9	1.7	10
23	Sensitivity of ozone to bromine in the lower stratosphere. <i>Geophysical Research Letters</i> , <b>2005</b> , 32,	4.9	188
22	Polar vortex evolution during the 2002 Antarctic major warming as observed by the Odin satellite. <i>Journal of Geophysical Research</i> , <b>2005</b> , 110,		23
21	Ozone profile and tropospheric ozone retrievals from the Global Ozone Monitoring Experiment: Algorithm description and validation. <i>Journal of Geophysical Research</i> , <b>2005</b> , 110,		153
20	Sensitivity studies and first validation of stratospheric ozone profile retrievals from Odin/OSIRIS observations of limb-scattered solar radiation. <i>Canadian Journal of Physics</i> , <b>2005</b> , 83, 957-972	1.1	17
19	The OSIRIS instrument on the Odin spacecraft. <i>Canadian Journal of Physics</i> , <b>2004</b> , 82, 411-422	1.1	293
18	Retrieval of atmospheric ozone and nitrogen dioxide vertical distribution from SAGE III limb scattering measurements <b>2004</b> , 5235, 298		3

17	Retrieval of stratospheric O <sub>3</sub> and NO <sub>2</sub> profiles from Odin Optical Spectrograph and Infrared Imager System (OSIRIS) limb-scattered sunlight measurements. <i>Journal of Geophysical Research</i> , <b>2004</b> , 109,		55
16	Preliminary results for HCHO and BrO from the EOS-Aura Ozone Monitoring Instrument <b>2004</b> ,		22
15	Filling in of Fraunhofer lines by plant fluorescence: Simulations for a nadir-viewing satellite-borne instrument. <i>Journal of Geophysical Research</i> , <b>2003</b> , 108,		17
14	Stratospheric ozone profiles retrieved from limb scattered sunlight radiance spectra measured by the OSIRIS instrument on the Odin satellite. <i>Geophysical Research Letters</i> , <b>2003</b> , 30,	4.9	66
13	Stratospheric profiles of nitrogen dioxide observed by Optical Spectrograph and Infrared Imager System on the Odin satellite. <i>Journal of Geophysical Research</i> , <b>2003</b> , 108,		45
12	Ground-based Ring-effect measurements with the OSIRIS development model. <i>Canadian Journal of Physics</i> , <b>2002</b> , 80, 483-491	1.1	11
11	Remote sensing of solar-induced fluorescence of vegetation <b>2002</b> , 4542, 178		7
10	Impact of rotational Raman scattering in the O <sub>2</sub> A band. <i>Geophysical Research Letters</i> , <b>2000</b> , 27, 4085-4088	3.9	34
9	Filling in of Fraunhofer and gas-absorption lines in sky spectra as caused by rotational Raman scattering. <i>Applied Optics</i> , <b>1999</b> , 38, 2706-13	1.7	20
8	A global tropospheric ozone climatology from trajectory-mapped ozone soundings		1
7	Trend and variability in ozone in the tropical lower stratosphere over 2.5 solar cycles observed by SAGE II and OSIRIS		3
6	Intercomparison of vertically resolved merged satellite ozone data sets: interannual variability and long-term trends		3
5	Trends in stratospheric ozone derived from merged SAGE II and Odin-OSIRIS satellite observations		4
4	Upper tropospheric water vapour variability at high latitudes [Part 1: Influence of the annular modes		1
3	Vertical profiles of lightning-produced NO <sub>x</sub> enhancements in the upper troposphere observed by OSIRIS		2
2	Validation of water vapour profiles from the Atmospheric Chemistry Experiment (ACE)		45
1	Synoptic-scale meteorological control on reactive bromine production and ozone depletion in the Arctic boundary layer: 3-D simulation with the GEM-AQ model		1