

Christopher E Sioris

List of Publications by Citations

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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.

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	The OSIRIS instrument on the Odin spacecraft. <i>Canadian Journal of Physics</i> , 2004 , 82, 411-422	1.1	293
69	Application of satellite observations for timely updates to global anthropogenic NOx emission inventories. <i>Geophysical Research Letters</i> , 2011 , 38, n/a-n/a	4.9	193
68	Sensitivity of ozone to bromine in the lower stratosphere. <i>Geophysical Research Letters</i> , 2005 , 32,	4.9	188
67	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> , 2006 , 111,		159
66	Space-based constraints on the production of nitric oxide by lightning. <i>Journal of Geophysical Research</i> , 2007 , 112,		157
65	Ozone profile and tropospheric ozone retrievals from the Global Ozone Monitoring Experiment: Algorithm description and validation. <i>Journal of Geophysical Research</i> , 2005 , 110,		153
64	Air quality over the Canadian oil sands: A first assessment using satellite observations. <i>Geophysical Research Letters</i> , 2012 , 39, n/a-n/a	4.9	108
63	Stratospheric ozone profiles retrieved from limb scattered sunlight radiance spectra measured by the OSIRIS instrument on the Odin satellite. <i>Geophysical Research Letters</i> , 2003 , 30,	4.9	66
62	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> , 2006 , 111,		62
61	Undersampling correction for array detector-based satellite spectrometers. <i>Applied Optics</i> , 2005 , 44, 1296-304	1.7	61
60	Trends in stratospheric ozone derived from merged SAGE II and Odin-OSIRIS satellite observations. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 6983-6994	6.8	58
59	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> , 2011 , 11, 3949-3979	6.8	56
58	Retrieval of stratospheric O3 and NO2 profiles from Odin Optical Spectrograph and Infrared Imager System (OSIRIS) limb-scattered sunlight measurements. <i>Journal of Geophysical Research</i> , 2004 , 109,		55
57	Intercomparison of vertically resolved merged satellite ozone data sets: interannual variability and long-term trends. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 3021-3043	6.8	51
56	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> , 2007 , 7, 3571-3578	6.8	48
55	First directly retrieved global distribution of tropospheric column ozone from GOME: Comparison with the GEOS-CHEM model. <i>Journal of Geophysical Research</i> , 2006 , 111,		48
54	Stratospheric profiles of nitrogen dioxide observed by Optical Spectrograph and Infrared Imager System on the Odin satellite. <i>Journal of Geophysical Research</i> , 2003 , 108,		45

53	Validation of water vapour profiles from the Atmospheric Chemistry Experiment (ACE)		45
52	Dry Deposition of Reactive Nitrogen From Satellite Observations of Ammonia and Nitrogen Dioxide Over North America. <i>Geophysical Research Letters</i> , 2018 , 45, 1157-1166	4.9	42
51	A global tropospheric ozone climatology from trajectory-mapped ozone soundings. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 10659-10675	6.8	40
50	Diurnal effects in limb scatter observations. <i>Journal of Geophysical Research</i> , 2006 , 111,		40
49	Comparison of weekly cycle of NO ₂ satellite retrievals and NO _x emission inventories for the continental United States. <i>Journal of Geophysical Research</i> , 2009 , 114,		35
48	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> , 2014 , 14, 3479-3496	6.8	34
47	Ozone correlation lengths and measurement uncertainties from analysis of historical ozonesonde data in North America and Europe. <i>Journal of Geophysical Research</i> , 2009 , 114,		34
46	Impact of rotational Raman scattering in the O ₂ A band. <i>Geophysical Research Letters</i> , 2000 , 27, 4085-4088	3.9	34
45	Odin/OSIRIS observations of stratospheric BrO: Retrieval methodology, climatology, and inferred Bry. <i>Journal of Geophysical Research</i> , 2010 , 115,		31
44	High-resolution tropospheric ozone fields for INTEX and ARCTAS from IONS ozonesondes. <i>Journal of Geophysical Research</i> , 2010 , 115,		31
43	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> , 2006 , 111, n/a-n/a		31
42	Fast NO ₂ retrievals from Odin-OSIRIS limb scatter measurements. <i>Atmospheric Measurement Techniques</i> , 2011 , 4, 965-972	4	28
41	OSIRIS: A Decade of Scattered Light. <i>Bulletin of the American Meteorological Society</i> , 2012 , 93, 1845-1863	3.1	27
40	A stratospheric NO ₂ climatology from Odin/OSIRIS limb-scatter measurements. <i>Canadian Journal of Physics</i> , 2007 , 85, 1253-1274	1.1	26
39	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> , 2006 , 111,		26
38	OMI satellite observations of decadal changes in ground-level sulfur dioxide over North America. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 5921-5929	6.8	24
37	Validation of Odin/OSIRIS stratospheric NO ₂ profiles. <i>Journal of Geophysical Research</i> , 2007 , 112,		24
36	Polar vortex evolution during the 2002 Antarctic major warming as observed by the Odin satellite. <i>Journal of Geophysical Research</i> , 2005 , 110,		23

35	Assessment of Odin-OSIRIS ozone measurements from 2001 to the present using MLS, GOMOS, and ozonesondes. <i>Atmospheric Measurement Techniques</i> , 2014 , 7, 49-64	4	22
34	Preliminary results for HCHO and BrO from the EOS-Aura Ozone Monitoring Instrument 2004 ,		22
33	Ammonia measurements from space with the Cross-track Infrared Sounder: characteristics and applications. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 2277-2302	6.8	20
32	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> , 2010 , 115,		20
31	Filling in of Fraunhofer and gas-absorption lines in sky spectra as caused by rotational Raman scattering. <i>Applied Optics</i> , 1999 , 38, 2706-13	1.7	20
30	Vertical profiles of lightning-produced NO ₂ enhancements in the upper troposphere observed by OSIRIS. <i>Atmospheric Chemistry and Physics</i> , 2007 , 7, 4281-4294	6.8	18
29	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> , 2014 , 7, 2243-2262	4	17
28	Filling in of Fraunhofer lines by plant fluorescence: Simulations for a nadir-viewing satellite-borne instrument. <i>Journal of Geophysical Research</i> , 2003 , 108,		17
27	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> , 2005 , 83, 957-972	1.1	17
26	AEROCAN, the Canadian sub-network of AERONET: Aerosol monitoring and air quality applications. <i>Atmospheric Environment</i> , 2017 , 167, 444-457	5.3	13
25	Variability of Stratospheric Reactive Nitrogen and Ozone Related to the QBO. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017 , 122, 10,103-10,118	4.4	11
24	Ground-based Ring-effect measurements with the OSIRIS development model. <i>Canadian Journal of Physics</i> , 2002 , 80, 483-491	1.1	11
23	Reevaluating the Use of O ₂ Band in Spaceborne Remote Sensing of Greenhouse Gases. <i>Geophysical Research Letters</i> , 2018 , 45, 5779-5787	4.9	11
22	Mapping tropospheric ozone profiles from an airborne ultraviolet-visible spectrometer. <i>Applied Optics</i> , 2005 , 44, 3312-9	1.7	10
21	The Atmospheric Imaging Mission for Northern Regions: AIM-North. <i>Canadian Journal of Remote Sensing</i> , 2019 , 45, 423-442	1.8	10
20	Direct injection of water vapor into the stratosphere by volcanic eruptions. <i>Geophysical Research Letters</i> , 2016 , 43, 7694-7700	4.9	9
19	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> , 2017 , 17, 1931-1943	6.8	9
18	Stratospheric CH ₄ and CO ₂ profiles derived from SCIAMACHY solar occultation measurements. <i>Atmospheric Measurement Techniques</i> , 2016 , 9, 1485-1503 ⁴		9

17	Improved OSIRIS NO ₂ retrieval algorithm: description and validation. <i>Atmospheric Measurement Techniques</i> , 2017 , 10, 1155-1168	4	7
16	Assessment of Odin-OSIRIS ozone measurements from 2001 to the present using MLS, GOMOS, and ozone sondes 2013 ,		7
15	Remote sensing of solar-induced fluorescence of vegetation 2002 , 4542, 178		7
14	Water vapour variability in the high-latitude upper troposphere [Part 2: Impact of volcanic eruptions. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 2207-2219	6.8	4
13	Assessing the quality of active/passive satellite retrievals using broad-band radiances. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2015 , 141, 1294-1305	6.4	4
12	Tropospheric ozone profiles from a ground-based ultraviolet spectrometer: a new retrieval method. <i>Applied Optics</i> , 2006 , 45, 2352-9	1.7	4
11	Trends in stratospheric ozone derived from merged SAGE II and Odin-OSIRIS satellite observations		4
10	Upper tropospheric water vapour variability at high latitudes [Part 1: Influence of the annular modes. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 3265-3278	6.8	3
9	Retrieval of atmospheric ozone and nitrogen dioxide vertical distribution from SAGE III limb scattering measurements 2004 , 5235, 298		3
8	Trend and variability in ozone in the tropical lower stratosphere over 2.5 solar cycles observed by SAGE II and OSIRIS		3
7	Intercomparison of vertically resolved merged satellite ozone data sets: interannual variability and long-term trends		3
6	Overview and update of the SPARC Data Initiative: comparison of stratospheric composition measurements from satellite limb sounders. <i>Earth System Science Data</i> , 2021 , 13, 1855-1903	10.5	3
5	Vertical profiles of lightning-produced NO ₂ enhancements in the upper troposphere observed by OSIRIS		2
4	OSIRIS observations of a tongue of NO _x 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> , 2007 , 85, 1195-1207	1.1	1
3	A global tropospheric ozone climatology from trajectory-mapped ozone soundings		1
2	Upper tropospheric water vapour variability at high latitudes [Part 1: Influence of the annular modes		1
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