

# Chris A Mclinden

## List of Publications by Citations

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171  
papers

6,480  
citations

42  
h-index

75  
g-index

236  
ext. papers

7,664  
ext. citations

5.7  
avg, IF

5.59  
L-index

#	Paper	IF	Citations
171	Aura OMI observations of regional SO <sub>2</sub> and NO <sub>2</sub> pollution changes from 2005 to 2015. <i>Atmospheric Chemistry and Physics</i> , <b>2016</b> , 16, 4605-4629	6.8	428
170	Stratospheric ozone in 3-D models: A simple chemistry and the cross-tropopause flux. <i>Journal of Geophysical Research</i> , <b>2000</b> , 105, 14653-14665		386
169	The OSIRIS instrument on the Odin spacecraft. <i>Canadian Journal of Physics</i> , <b>2004</b> , 82, 411-422	1.1	293
168	Sensitivity of ozone to bromine in the lower stratosphere. <i>Geophysical Research Letters</i> , <b>2005</b> , 32,	4.9	188
167	India Is Overtaking China as the World's Largest Emitter of Anthropogenic Sulfur Dioxide. <i>Scientific Reports</i> , <b>2017</b> , 7, 14304	4.9	182
166	A decade of global volcanic SO emissions measured from space. <i>Scientific Reports</i> , <b>2017</b> , 7, 44095	4.9	175
165	Tropospheric Emissions: Monitoring of Pollution (TEMPO). <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , <b>2017</b> , 186, 17-39	2.1	163
164	The Ozone Monitoring Instrument: overview of 14 years in space. <i>Atmospheric Chemistry and Physics</i> , <b>2018</b> , 18, 5699-5745	6.8	163
163	A global catalogue of large SO <sub>2</sub> sources and emissions derived from the Ozone Monitoring Instrument. <i>Atmospheric Chemistry and Physics</i> , <b>2016</b> , 16, 11497-11519	6.8	148
162	Comparison of box-air-mass-factors and radiances for Multiple-Axis Differential Optical Absorption Spectroscopy (MAX-DOAS) geometries calculated from different UV/visible radiative transfer models. <i>Atmospheric Chemistry and Physics</i> , <b>2007</b> , 7, 1809-1833	6.8	135
161	Solar occultation satellite data and derived meteorological products: Sampling issues and comparisons with Aura Microwave Limb Sounder. <i>Journal of Geophysical Research</i> , <b>2007</b> , 112,		132
160	Evidence for bromine monoxide in the free troposphere during the Arctic polar sunrise. <i>Nature</i> , <b>1999</b> , 397, 338-341	50.4	132
159	Estimation of SO <sub>2</sub> emissions using OMI retrievals. <i>Geophysical Research Letters</i> , <b>2011</b> , 38, n/a-n/a	4.9	126
158	High resolution mapping of nitrogen dioxide with TROPOMI: First results and validation over the Canadian oil sands. <i>Geophysical Research Letters</i> , <b>2019</b> , 46, 1049-1060	4.9	117
157	Quantifying CO <sub>2</sub> Emissions From Individual Power Plants From Space. <i>Geophysical Research Letters</i> , <b>2017</b> , 44, 10,045	4.9	114
156	Lifetimes and emissions of SO <sub>2</sub> from point sources estimated from OMI. <i>Geophysical Research Letters</i> , <b>2015</b> , 42, 1969-1976	4.9	112
155	Validation of ozone measurements from the Atmospheric Chemistry Experiment (ACE). <i>Atmospheric Chemistry and Physics</i> , <b>2009</b> , 9, 287-343	6.8	112

154	Improved satellite retrievals of NO <sub>2</sub> and SO <sub>2</sub> over the Canadian oil sands and comparisons with surface measurements. <i>Atmospheric Chemistry and Physics</i> , <b>2014</b> , 14, 3637-3656	6.8	110
153	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
152	Space-based detection of missing sulfur dioxide sources of global air pollution. <i>Nature Geoscience</i> , <b>2016</b> , 9, 496-500	18.3	105
151	Application of OMI, SCIAMACHY, and GOME-2 satellite SO <sub>2</sub> retrievals for detection of large emission sources. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2013</b> , 118, 11,399-11,418	4.4	91
150	Disentangling the impact of the COVID-19 lockdowns on urban NO from natural variability. <i>Geophysical Research Letters</i> , <b>2020</b> , 47, e2020GL089269	4.9	88
149	A vector radiative-transfer model for the Odin/OSIRIS project. <i>Canadian Journal of Physics</i> , <b>2002</b> , 80, 375-393	1.1	83
148	The Relative Importance of Solar and Anthropogenic Forcing of Climate Change between the Maunder Minimum and the Present. <i>Journal of Climate</i> , <b>2004</b> , 17, 906-929	4.4	80
147	Effects of resolution and model physics on tracer transports in the NASA Goddard Institute for Space Studies general circulation models. <i>Journal of Geophysical Research</i> , <b>2007</b> , 112,		72
146	Stratospheric N <sub>2</sub> O/O <sub>3</sub> system: Testing uncertainties in a three-dimensional framework. <i>Journal of Geophysical Research</i> , <b>2001</b> , 106, 28771-28784		71
145	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
144	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
143	Validation of HNO <sub>3</sub> , ClONO <sub>2</sub> , and N <sub>2</sub> O <sub>5</sub> from the Atmospheric Chemistry Experiment Fourier Transform Spectrometer (ACE-FTS). <i>Atmospheric Chemistry and Physics</i> , <b>2008</b> , 8, 3529-3562	6.8	61
142	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
141	Global modeling of the isotopic analogues of N <sub>2</sub> O: Stratospheric distributions, budgets, and the <sup>17</sup> O/ <sup>18</sup> O mass-independent anomaly. <i>Journal of Geophysical Research</i> , <b>2003</b> , 108,		57
140	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
139	Validation of NO <sub>2</sub> and NO from the Atmospheric Chemistry Experiment (ACE). <i>Atmospheric Chemistry and Physics</i> , <b>2008</b> , 8, 5801-5841	6.8	54
138	The effects of forest canopy shading and turbulence on boundary layer ozone. <i>Nature Communications</i> , <b>2017</b> , 8, 15243	17.4	52
137	Enhanced Capabilities of TROPOMI NO: Estimating NO from North American Cities and Power Plants. <i>Environmental Science &amp; Technology</i> , <b>2019</b> , 53, 12594-12601	10.3	52

136	Relative changes in CO emissions over megacities based on observations from space. <i>Geophysical Research Letters</i> , <b>2013</b> , 40, 3766-3771	4.9	47
135	Changes of tracer distributions in the doubled CO <sub>2</sub> climate. <i>Journal of Geophysical Research</i> , <b>2001</b> , 106, 28061-28079		47
134	A Decade of Change in NO <sub>2</sub> and SO <sub>2</sub> over the Canadian Oil Sands As Seen from Space. <i>Environmental Science &amp; Technology</i> , <b>2016</b> , 50, 331-7	10.3	46
133	NH <sub>3</sub> emissions from large point sources derived from CrIS and IASI satellite observations. <i>Atmospheric Chemistry and Physics</i> , <b>2019</b> , 19, 12261-12293	6.8	46
132	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
131	A new global anthropogenic SO <sub>2</sub> emission inventory for the last decade: a mosaic of satellite-derived and bottom-up emissions. <i>Atmospheric Chemistry and Physics</i> , <b>2018</b> , 18, 16571-16586	6.8	45
130	Assessment of the magnitude and recent trends in satellite-derived ground-level nitrogen dioxide over North America. <i>Atmospheric Environment</i> , <b>2015</b> , 118, 236-245	5.3	43
129	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
128	Diurnal effects in limb scatter observations. <i>Journal of Geophysical Research</i> , <b>2006</b> , 111,		40
127	Assessment of the quality of TROPOMI high-spatial-resolution NO <sub>2</sub> data products in the Greater Toronto Area. <i>Atmospheric Measurement Techniques</i> , <b>2020</b> , 13, 2131-2159	4	39
126	Multi-source SO <sub>2</sub> emission retrievals and consistency of satellite and surface measurements with reported emissions. <i>Atmospheric Chemistry and Physics</i> , <b>2017</b> , 17, 12597-12616	6.8	37
125	Continuation of long-term global SO <sub>2</sub> pollution monitoring from OMI to OMPS. <i>Atmospheric Measurement Techniques</i> , <b>2017</b> , 10, 1495-1509	4	36
124	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
123	Attribution of observed changes in stratospheric ozone and temperature. <i>Atmospheric Chemistry and Physics</i> , <b>2011</b> , 11, 599-609	6.8	34
122	BrO vertical distributions from SCIAMACHY limb measurements: comparison of algorithms and retrieval results. <i>Atmospheric Measurement Techniques</i> , <b>2011</b> , 4, 1319-1359	4	33
121	Technical Note: A SAGE-corrected SBUV zonal-mean ozone data set. <i>Atmospheric Chemistry and Physics</i> , <b>2009</b> , 9, 7963-7972	6.8	32
120	Ultra-violet absorption cross sections of isotopically substituted nitrous oxide species: <sup>14</sup> N <sup>14</sup> NO, <sup>15</sup> N <sup>14</sup> NO, <sup>14</sup> N <sup>15</sup> NO and <sup>15</sup> N <sup>15</sup> NO	6.8	32
119	TROPOMI/S5P total ozone column data: global ground-based validation and consistency with other satellite missions. <i>Atmospheric Measurement Techniques</i> , <b>2019</b> , 12, 5263-5287	4	31

118	A global ozone climatology from ozone soundings via trajectory mapping: a stratospheric perspective. <i>Atmospheric Chemistry and Physics</i> , <b>2013</b> , 13, 11441-11464	6.8	31
117	Odin/OSIRIS observations of stratospheric BrO: Retrieval methodology, climatology, and inferred Bry. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115,		31
116	Climatology and trends of surface UV radiation: Survey article. <i>Atmosphere - Ocean</i> , <b>2003</b> , 41, 121-138	1.5	31
115	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
114	Odin stratospheric proxy NO <sub>y</sub> measurements and climatology. <i>Atmospheric Chemistry and Physics</i> , <b>2008</b> , 8, 5731-5754	6.8	28
113	OSIRIS: A Decade of Scattered Light. <i>Bulletin of the American Meteorological Society</i> , <b>2012</b> , 93, 1845-1863	3.1	27
112	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
111	Ab initio study of sulfur isotope fractionation in the reaction of OCS with OH. <i>Chemical Physics Letters</i> , <b>2008</b> , 450, 214-220	2.5	25
110	Drift-corrected Odin-OSIRIS ozone product: algorithm and updated stratospheric ozone trends. <i>Atmospheric Measurement Techniques</i> , <b>2018</b> , 11, 489-498	4	25
109	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
108	Tropospheric Emission Spectrometer (TES) satellite observations of ammonia, methanol, formic acid, and carbon monoxide over the Canadian oil sands: validation and model evaluation. <i>Atmospheric Measurement Techniques</i> , <b>2015</b> , 8, 5189-5211	4	24
107	Quantifying stratospheric ozone trends: Complications due to stratospheric cooling. <i>Geophysical Research Letters</i> , <b>2011</b> , 38, n/a-n/a	4.9	24
106	Validation of Odin/OSIRIS stratospheric NO <sub>2</sub> profiles. <i>Journal of Geophysical Research</i> , <b>2007</b> , 112,		24
105	Satellite-derived emissions of carbon monoxide, ammonia, and nitrogen dioxide from the 2016 Horse River wildfire in the Fort McMurray area. <i>Atmospheric Chemistry and Physics</i> , <b>2019</b> , 19, 2577-2599	6.8	23
104	Initial comparison of ozone and NO <sub>2</sub> profiles from ACE-MAESTRO with balloon and satellite data. <i>Journal of Geophysical Research</i> , <b>2007</b> , 112,		23
103	Zenith-sky observations of stratospheric gases: the sensitivity of air mass factors to geophysical parameters and the influence of tropospheric clouds. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , <b>2001</b> , 68, 657-677	2.1	23
102	Understanding trends in stratospheric NO <sub>y</sub> and NO <sub>2</sub> . <i>Journal of Geophysical Research</i> , <b>2001</b> , 106, 27787-27793		23
101	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

100	Severe 2011 ozone depletion assessed with 11 years of ozone, NO <sub>2</sub> , and OClO measurements at 80°N. <i>Geophysical Research Letters</i> , <b>2012</b> , 39, n/a-n/a	4.9	22
99	MANTRA - A Balloon Mission to Study the Odd-Nitrogen Budget of the Stratosphere. <i>Atmosphere - Ocean</i> , <b>2005</b> , 43, 283-299	1.5	22
98	Characterization of Odin-OSIRIS ozone profiles with the SAGE II dataset. <i>Atmospheric Measurement Techniques</i> , <b>2013</b> , 6, 1447-1459	4	21
97	Validation of ACE and OSIRIS ozone and NO <sub>2</sub> measurements using ground-based instruments at 80°N. <i>Atmospheric Measurement Techniques</i> , <b>2012</b> , 5, 927-953	4	21
96	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
95	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
94	Observations of Stratospheric Aerosol Using CPFM Polarized Limb Radiances. <i>Journals of the Atmospheric Sciences</i> , <b>1999</b> , 56, 233-240	2.1	20
93	Sulfur dioxide (SO <sub>2</sub> ) vertical column density measurements by Pandora spectrometer over the Canadian oil sands. <i>Atmospheric Measurement Techniques</i> , <b>2016</b> , 9, 2961-2976	4	20
92	Precision estimate for Odin-OSIRIS limb scatter retrievals. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a		19
91	Stratospheric BrO abundance measured by a balloon-borne submillimeterwave radiometer. <i>Atmospheric Chemistry and Physics</i> , <b>2013</b> , 13, 3307-3319	6.8	19
90	Sensitivity of tracer transports and stratospheric ozone to sea surface temperature patterns in the doubled CO <sub>2</sub> climate. <i>Journal of Geophysical Research</i> , <b>2002</b> , 107, ACL 25-1		19
89	The impact of the OSIRIS grating efficiency on radiance and trace-gas retrievals. <i>Canadian Journal of Physics</i> , <b>2002</b> , 80, 469-481	1.1	19
88	Aura OMI observations of regional SO <sub>2</sub> and NO <sub>2</sub> pollution changes from 2005 to 2014		19
87	Validation of ACE-FTS version 3.5 NO <sub>2</sub> species profiles using correlative satellite measurements. <i>Atmospheric Measurement Techniques</i> , <b>2016</b> , 9, 5781-5810	4	19
86	Evaluation of ACE-FTS and OSIRIS Satellite retrievals of ozone and nitric acid in the tropical upper troposphere: Application to ozone production efficiency. <i>Journal of Geophysical Research</i> , <b>2011</b> , 116,		18
85	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
84	Retrieval of vertical concentration profiles from OSIRIS UV-visible limb spectra. <i>Canadian Journal of Physics</i> , <b>2002</b> , 80, 409-434	1.1	18
83	Exploiting OMI NO satellite observations to infer fossil-fuel CO emissions from U.S. megacities. <i>Science of the Total Environment</i> , <b>2019</b> , 695, 133805	10.2	17

82	Validation of SCIAMACHY limb NO <sub>2</sub> profiles using solar occultation measurements. <i>Atmospheric Measurement Techniques</i> , <b>2012</b> , 5, 1059-1084	4	17
81	Inferring ground-level nitrogen dioxide concentrations at fine spatial resolution applied to the TROPOMI satellite instrument. <i>Environmental Research Letters</i> , <b>2020</b> , 15, 104013	6.2	17
80	A methodology to constrain carbon dioxide emissions from coal-fired power plants using satellite observations of co-emitted nitrogen dioxide. <i>Atmospheric Chemistry and Physics</i> , <b>2020</b> , 20, 99-116	6.8	16
79	Anthropogenic and volcanic point source SO <sub>2</sub> emissions derived from TROPOMI on board Sentinel-5 Precursor: first results. <i>Atmospheric Chemistry and Physics</i> , <b>2020</b> , 20, 5591-5607	6.8	16
78	A global inventory of stratospheric NO <sub>y</sub> from ACE-FTS. <i>Journal of Geophysical Research</i> , <b>2011</b> , 116,		16
77	Intercomparison of UV-visible measurements of ozone and NO <sub>2</sub> during the Canadian Arctic ACE validation campaigns: 2004-2006. <i>Atmospheric Chemistry and Physics</i> , <b>2008</b> , 8, 1763-1788	6.8	16
76	Toxic volatile organic air pollutants across Canada: multi-year concentration trends, regional air quality modelling and source apportionment. <i>Journal of Atmospheric Chemistry</i> , <b>2016</b> , 73, 137-164	3.2	15
75	Stratospheric ozone during the Last Glacial Maximum. <i>Geophysical Research Letters</i> , <b>2009</b> , 36,	4.9	15
74	Ground-based measurements of ozone and NO <sub>2</sub> during MANTRA 1998 using a Zenith-sky spectrometer. <i>Atmosphere - Ocean</i> , <b>2005</b> , 43, 325-338	1.5	14
73	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
72	An evaluation of Odin/OSIRIS limb pointing and stratospheric ozone through comparisons with ozonesondes. <i>Canadian Journal of Physics</i> , <b>2007</b> , 85, 1125-1141	1.1	13
71	Toronto area ozone: Long-term measurements and modeled sources of poor air quality events. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2015</b> , 120, 11,368-11,390	4.4	12
70	The spring 2011 final stratospheric warming above Eureka: anomalous dynamics and chemistry. <i>Atmospheric Chemistry and Physics</i> , <b>2013</b> , 13, 611-624	6.8	12
69	High vertical resolution water vapour profiles in the upper troposphere and lower stratosphere retrieved from MAESTRO solar occultation spectra. <i>Advances in Space Research</i> , <b>2010</b> , 46, 642-650	2.4	12
68	Semi-Lagrangian Advection of Stratospheric Ozone on a Yin-Yang Grid System. <i>Monthly Weather Review</i> , <b>2016</b> , 144, 1035-1050	2.4	11
67	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
66	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
65	Study of SO <sub>2</sub> Pollution in the Middle East Using MERRA-2, CAMS Data Assimilation Products, and High-Resolution WRF-Chem Simulations. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2020</b> , 125, e2019JD031993	1.4	10

64	The 2018 fire season in North America as seen by TROPOMI: aerosol layer height intercomparisons and evaluation of model-derived plume heights. <i>Atmospheric Measurement Techniques</i> , <b>2020</b> , 13, 1427-1445	4	10
63	Assessing snow extent data sets over North America to inform and improve trace gas retrievals from solar backscatter. <i>Atmospheric Measurement Techniques</i> , <b>2018</b> , 11, 2983-2994	4	10
62	Assessing the Impact of Corona-Virus-19 on Nitrogen Dioxide Levels over Southern Ontario, Canada. <i>Remote Sensing</i> , <b>2020</b> , 12, 4112	5	9
61	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
60	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
59	Derivation of polarization from Odin/OSIRIS limb spectra. <i>Geophysical Research Letters</i> , <b>2004</b> , 31,	4.9	9
58	Estimation of NO <sub>x</sub> and SO <sub>2</sub> emissions from Sarnia, Ontario, using a mobile MAX-DOAS (Multi-AXis Differential Optical Absorption Spectroscopy) and a NO <sub>x</sub> analyzer. <i>Atmospheric Chemistry and Physics</i> , <b>2019</b> , 19, 13871-13889	6.8	9
57	Effect of volcanic aerosol on stratospheric NO <sub>2</sub> and N <sub>2</sub> O <sub>5</sub> from 2002-2014 as measured by Odin-OSIRIS and Envisat-MIPAS. <i>Atmospheric Chemistry and Physics</i> , <b>2017</b> , 17, 8063-8080	6.8	8
56	New method for deriving total ozone from Brewer zenith sky observations. <i>Journal of Geophysical Research</i> , <b>2011</b> , 116,		8
55	A study of the Arctic NO <sub>y</sub> budget above Eureka, Canada. <i>Journal of Geophysical Research</i> , <b>2011</b> , 116, n/a-n/a		8
54	Global fine-scale changes in ambient NO during COVID-19 lockdowns.. <i>Nature</i> , <b>2022</b> , 601, 380-387	50.4	8
53	Limb-adir matching using non-coincident NO <sub>2</sub> observations: proof of concept and the OMI-minus-OSIRIS prototype product. <i>Atmospheric Measurement Techniques</i> , <b>2016</b> , 9, 4103-4122	4	8
52	Marked long-term decline in ambient CO mixing ratio in SE England, 1997-2014: evidence of policy success in improving air quality. <i>Scientific Reports</i> , <b>2016</b> , 6, 25661	4.9	8
51	Improved OSIRIS NO <sub>2</sub> retrieval algorithm: description and validation. <i>Atmospheric Measurement Techniques</i> , <b>2017</b> , 10, 1155-1168	4	7
50	Assessment of Odin-OSIRIS ozone measurements from 2001 to the present using MLS, GOMOS, and ozone sondes <b>2013</b> ,		7
49	A Systematic Error in Plane-Parallel Radiative Transfer Calculations. <i>Journals of the Atmospheric Sciences</i> , <b>2010</b> , 67, 1695-1699	2.1	7
48	Ozone and NO <sub>2</sub> variations measured during the 1 August 2008 solar eclipse above Eureka, Canada with a UV-visible spectrometer. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115,		7
47	Updated validation of ACE and OSIRIS ozone and NO <sub>2</sub> measurements in the Arctic using ground-based instruments at Eureka, Canada. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , <b>2019</b> , 238, 106571	2.1	6



46	Retrieval of total column and surface NO <sub>2</sub> from Pandora zenith-sky measurements. <i>Atmospheric Chemistry and Physics</i> , <b>2019</b> , 19, 10619-10642	6.8	6
45	NO <sub>2</sub> vertical profiles retrieved from ground-based measurements during spring 1999 in the Canadian Arctic. <i>Advances in Space Research</i> , <b>2004</b> , 34, 786-792	2.4	6
44	Disentangling the impact of the COVID-19 lockdowns on urban NO <sub>2</sub> from natural variability		6
43	An Observation-Based Correction for Aerosol Effects on Nitrogen Dioxide Column Retrievals Using the Absorbing Aerosol Index. <i>Geophysical Research Letters</i> , <b>2019</b> , 46, 8442-8452	4.9	5
42	Lightning-produced NO <sub>2</sub> observed by two ground-based UV-visible spectrometers at Vanscoy, Saskatchewan in August 2004. <i>Atmospheric Chemistry and Physics</i> , <b>2007</b> , 7, 1683-1692	6.8	5
41	A global catalogue of large SO <sub>2</sub> sources and emissions derived from the Ozone Monitoring Instrument <b>2016</b> ,		5
40	Application of satellite-based sulfur dioxide observations to support the cleantech sector: Detecting emission reduction from copper smelters. <i>Environmental Technology and Innovation</i> , <b>2018</b> , 12, 172-179	7	5
39	Odin/OSIRIS observations of stratospheric NO <sub>3</sub> through sunrise and sunset. <i>Atmospheric Chemistry and Physics</i> , <b>2008</b> , 8, 5529-5534	6.8	4
38	Comparison of OSIRIS stratospheric NO <sub>2</sub> and O <sub>3</sub> measurements with ground-based Fourier transform spectrometer measurements at the Toronto Atmospheric Observatory. <i>Canadian Journal of Physics</i> , <b>2007</b> , 85, 1301-1316	1.1	4
37	Trends in stratospheric ozone derived from merged SAGE II and Odin-OSIRIS satellite observations		4
36	Validation of ozone measurements from the Atmospheric Chemistry Experiment (ACE)		4
35	Drift corrected Odin-OSIRIS ozone product: algorithm and updated stratospheric ozone trends		4
34	Isolating the impact of COVID-19 lockdown measures on urban air quality in Canada. <i>Air Quality, Atmosphere and Health</i> , <b>2021</b> , 14, 1-22	5.6	4
33	Trends and Variability in Stratospheric NO <sub>x</sub> Derived From Merged SAGE II and OSIRIS Satellite Observations. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2020</b> , 125, e2019JD031798	4.4	4
32	Validation of MAX-DOAS retrievals of aerosol extinction, SO <sub>2</sub> , and NO <sub>2</sub> through comparison with lidar, sun photometer, active DOAS, and aircraft measurements in the Athabasca oil sands region. <i>Atmospheric Measurement Techniques</i> , <b>2020</b> , 13, 1129-1155	4	3
31	The Impact of Non-Lambertian Wavelength-Dependent Reflecting Surfaces on Stratospheric Radiation and Photochemistry. <i>Journal of Atmospheric Chemistry</i> , <b>1997</b> , 26, 29-64	3.2	3
30	A sulfur dioxide Covariance-Based Retrieval Algorithm (COBRA): application to TROPOMI reveals new emission sources. <i>Atmospheric Chemistry and Physics</i> , <b>2021</b> , 21, 16727-16744	6.8	3
29	Trend and variability in ozone in the tropical lower stratosphere over 2.5 solar cycles observed by SAGE II and OSIRIS		3

28	Improved satellite retrievals of NO <sub>2</sub> and SO <sub>2</sub> over the Canadian oil sands and comparisons with surface measurements		3
27	Tropospheric Emission Spectrometer (TES) satellite validations of ammonia, methanol, formic acid, and carbon monoxide over the Canadian oil sands		3
26	Inconsistencies in sulfur dioxide emissions from the Canadian oil sands and potential implications. <i>Environmental Research Letters</i> , <b>2021</b> , 16, 014012	6.2	3
25	The world Brewer reference triad – updated performance assessment and new double triad. <i>Atmospheric Measurement Techniques</i> , <b>2021</b> , 14, 2261-2283	4	3
24	Stratosphere–troposphere separation of nitrogen dioxide columns from the TEMPO geostationary satellite instrument. <i>Atmospheric Measurement Techniques</i> , <b>2018</b> , 11, 6271-6287	4	3
23	Optimizing UV Index determination from broadband irradiances. <i>Geoscientific Model Development</i> , <b>2018</b> , 11, 1093-1113	6.3	3
22	Tropospheric and Surface Nitrogen Dioxide Changes in the Greater Toronto Area during the First Two Years of the COVID-19 Pandemic. <i>Remote Sensing</i> , <b>2022</b> , 14, 1625	5	3
21	Biomass burning nitrogen dioxide emissions derived from space with TROPOMI: methodology and validation. <i>Atmospheric Measurement Techniques</i> , <b>2021</b> , 14, 7929-7957	4	3
20	The Ozone Monitoring Instrument: Overview of twelve years in space <b>2017</b> ,		2
19	Characterization of Odin-OSIRIS ozone profiles with the SAGE II dataset <b>2013</b> ,		2
18	BrO vertical distributions from SCIAMACHY limb measurements: comparison of algorithms and retrieval results <b>2010</b> ,		2
17	Vertical profiles of lightning-produced NO <sub>2</sub> enhancements in the upper troposphere observed by OSIRIS		2
16	TROPOMI/S5ptotal ozone column data: global ground-based validation & consistency with other satellite missions		2
15	Quantifying urban, industrial, and background changes in NO <sub>2</sub> during the COVID-19 lockdown period based on TROPOMI satellite observations. <i>Atmospheric Chemistry and Physics</i> , <b>2022</b> , 22, 4201-4236	6.8	2
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13	NH <sub>3</sub> emissions from large point sources derived from CrIS and IASI satellite observations <b>2019</b> ,		1
12	Validation of ACE and OSIRIS ozone and NO <sub>2</sub> measurements using ground-based instruments at 80°N <b>2012</b> ,		1
11	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

10	Validation of HNO <sub>3</sub> , ClONO <sub>2</sub> , and N <sub>2</sub> O <sub>5</sub> from the Atmospheric Chemistry Experiment Fourier Transform Spectrometer (ACE-FTS)		1
9	Intercomparison of UV-visible measurements of ozone and NO <sub>2</sub> during the Canadian Arctic ACE validation campaigns: 2004–2006		1
8	Odin stratospheric proxy NO <sub>y</sub> measurements and climatology		1
7	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
6	Impact of natural gas production on nitrogen dioxide and sulphur dioxide over Northeast British Columbia, Canada. <i>Atmospheric Environment</i> , <b>2020</b> , 223, 117231	5.3	1
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4	Development of aerosol optical properties for improving the MESSy photolysis module in the GEM-MACH v2.4 air quality model and application for calculating photolysis rates in a biomass burning plume. <i>Geoscientific Model Development</i> , <b>2022</b> , 15, 219-249	6.3	0
3	UV spectral measurements at moderately high resolution and of OH resonance scattering resolved by polarization during the MANTRA 2002–2004 stratospheric balloon flights. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , <b>2009</b> , 110, 205-222	2.1	
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