Chris A Mclinden

List of Publications by Year in Descending Order

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	Global fine-scale changes in ambient NO during COVID-19 lockdowns.. *Nature*, **2022**, 601, 380-387	50.4	8
170	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. *Geoscientific Model Development*, **2022**, 15, 219-249	6.3	0
169	Quantifying urban, industrial, and background changes in NO₂ during the COVID-19 lockdown period based on TROPOMI satellite observations. *Atmospheric Chemistry and Physics*, **2022**, 22, 4201-4236	6.8	2
168	Tropospheric and Surface Nitrogen Dioxide Changes in the Greater Toronto Area during the First Two Years of the COVID-19 Pandemic. *Remote Sensing*, **2022**, 14, 1625	5	3
167	Airborne Emission Rate Measurements Validate Remote Sensing Observations and Emission Inventories of Western U.S. Wildfires.. *Environmental Science & Technology*, **2022**,	10.3	2
166	A sulfur dioxide Covariance-Based Retrieval Algorithm (COBRA): application to TROPOMI reveals new emission sources. *Atmospheric Chemistry and Physics*, **2021**, 21, 16727-16744	6.8	3
165	Inconsistencies in sulfur dioxide emissions from the Canadian oil sands and potential implications. *Environmental Research Letters*, **2021**, 16, 014012	6.2	3
164	The world Brewer reference triad updated performance assessment and new double triad. *Atmospheric Measurement Techniques*, **2021**, 14, 2261-2283	4	3
163	Isolating the impact of COVID-19 lockdown measures on urban air quality in Canada. *Air Quality, Atmosphere and Health*, **2021**, 14, 1-22	5.6	4
162	Biomass burning nitrogen dioxide emissions derived from space with TROPOMI: methodology and validation. *Atmospheric Measurement Techniques*, **2021**, 14, 7929-7957	4	3
161	Assessing the Impact of Corona-Virus-19 on Nitrogen Dioxide Levels over Southern Ontario, Canada. *Remote Sensing*, **2020**, 12, 4112	5	9
160	Ammonia measurements from space with the Cross-track Infrared Sounder: characteristics and applications. *Atmospheric Chemistry and Physics*, **2020**, 20, 2277-2302	6.8	20
159	Validation of MAX-DOAS retrievals of aerosol extinction, SO₂, and NO₂ through comparison with lidar, sun photometer, active DOAS, and aircraft measurements in the Athabasca oil sands region. *Atmospheric Measurement Techniques*, **2020**, 13, 1129-1155	4	3
158	A methodology to constrain carbon dioxide emissions from coal-fired power plants using satellite observations of co-emitted nitrogen dioxide. *Atmospheric Chemistry and Physics*, **2020**, 20, 99-116	6.8	16
157	Anthropogenic and volcanic point source SO₂ emissions derived from TROPOMI on board Sentinel-5 Precursor: first results. *Atmospheric Chemistry and Physics*, **2020**, 20, 5591-5607	6.8	16
156	Assessment of the quality of TROPOMI high-spatial-resolution NO₂ data products in the Greater Toronto Area. *Atmospheric Measurement Techniques*, **2020**, 13, 2131-2159	4	39
155	Inferring ground-level nitrogen dioxide concentrations at fine spatial resolution applied to the TROPOMI satellite instrument. *Environmental Research Letters*, **2020**, 15, 104013	6.2	17

154	Impact of natural gas production on nitrogen dioxide and sulphur dioxide over Northeast British Columbia, Canada. *Atmospheric Environment*, **2020**, 223, 117231	5.3	1
153	Disentangling the impact of the COVID-19 lockdowns on urban NO from natural variability. *Geophysical Research Letters*, **2020**, 47, e2020GL089269	4.9	88
152	Study of SO Pollution in the Middle East Using MERRA-2, CAMS Data Assimilation Products, and High-Resolution WRF-Chem Simulations. *Journal of Geophysical Research D: Atmospheres*, **2020**, 125, e2019JD031993	4.4	10
151	The 2018 fire season in North America as seen by TROPOMI: aerosol layer height intercomparisons and evaluation of model-derived plume heights. *Atmospheric Measurement Techniques*, **2020**, 13, 1427-1445	4	10
150	Trends and Variability in Stratospheric NOx Derived From Merged SAGE II and OSIRIS Satellite Observations. *Journal of Geophysical Research D: Atmospheres*, **2020**, 125, e2019JD031798	4.4	4
149	NH₃ emissions from large point sources derived from CrIS and IASI satellite observations **2019**,		1
148	Updated validation of ACE and OSIRIS ozone and NO2 measurements in the Arctic using ground-based instruments at Eureka, Canada. *Journal of Quantitative Spectroscopy and Radiative Transfer*, **2019**, 238, 106571	2.1	6
147	Exploiting OMI NO satellite observations to infer fossil-fuel CO emissions from U.S. megacities. *Science of the Total Environment*, **2019**, 695, 133805	10.2	17
146	Satellite-derived emissions of carbon monoxide, ammonia, and nitrogen dioxide from the 2016 Horse River wildfire in the Fort McMurray area. *Atmospheric Chemistry and Physics*, **2019**, 19, 2577-2599	6.8	23
145	An Observation-Based Correction for Aerosol Effects on Nitrogen Dioxide Column Retrievals Using the Absorbing Aerosol Index. *Geophysical Research Letters*, **2019**, 46, 8442-8452	4.9	5
144	TROPOMI/S5P total ozone column data: global ground-based validation and consistency with other satellite missions. *Atmospheric Measurement Techniques*, **2019**, 12, 5263-5287	4	31
143	Retrieval of total column and surface NO₂ from Pandora zenith-sky measurements. *Atmospheric Chemistry and Physics*, **2019**, 19, 10619-10642	6.8	6
142	Enhanced Capabilities of TROPOMI NO: Estimating NO from North American Cities and Power Plants. *Environmental Science & Technology*, **2019**, 53, 12594-12601	10.3	52
141	NH₃ emissions from large point sources derived from CrIS and IASI satellite observations. *Atmospheric Chemistry and Physics*, **2019**, 19, 12261-12293	6.8	46
140	Estimation of NO_{<i>x</i>} and SO₂ emissions from Sarnia, Ontario, using a mobile MAX-DOAS (Multi-AXis Differential Optical Absorption Spectroscopy) and a NO_{<i>x</i>} analyzer. *Atmospheric Chemistry and Physics*, **2019**, 19, 13871-13889	6.8	9
139	The Atmospheric Imaging Mission for Northern Regions: AIM-North. *Canadian Journal of Remote Sensing*, **2019**, 45, 423-442	1.8	10
138	High resolution mapping of nitrogen dioxide with TROPOMI: First results and validation over the Canadian oil sands. *Geophysical Research Letters*, **2019**, 46, 1049-1060	4.9	117
137	Regional Chemical Transport Modelling with a Forest Canopy Parameterization. *Springer Proceedings in Complexity*, **2018**, 451-456	0.3	

136	Dry Deposition of Reactive Nitrogen From Satellite Observations of Ammonia and Nitrogen Dioxide Over North America. *Geophysical Research Letters*, **2018**, 45, 1157-1166	4.9	42
135	Stratosphere–troposphere separation of nitrogen dioxide columns from the TEMPO geostationary satellite instrument. *Atmospheric Measurement Techniques*, **2018**, 11, 6271-6287	4	3
134	Assessing snow extent data sets over North America to inform and improve trace gas retrievals from solar backscatter. *Atmospheric Measurement Techniques*, **2018**, 11, 2983-2994	4	10
133	A new global anthropogenic SO₂ emission inventory for the last decade: a mosaic of satellite-derived and bottom-up emissions. *Atmospheric Chemistry and Physics*, **2018**, 18, 16571-16586	6.8	45
132	Application of satellite-based sulfur dioxide observations to support the cleantech sector: Detecting emission reduction from copper smelters. *Environmental Technology and Innovation*, **2018**, 12, 172-179	7	5
131	Drift-corrected Odin-OSIRIS ozone product: algorithm and updated stratospheric ozone trends. *Atmospheric Measurement Techniques*, **2018**, 11, 489-498	4	25
130	The Ozone Monitoring Instrument: overview of 14 years in space. *Atmospheric Chemistry and Physics*, **2018**, 18, 5699-5745	6.8	163
129	Optimizing UV Index determination from broadband irradiances. *Geoscientific Model Development*, **2018**, 11, 1093-1113	6.3	3
128	A decade of global volcanic SO emissions measured from space. *Scientific Reports*, **2017**, 7, 44095	4.9	175
127	The effects of forest canopy shading and turbulence on boundary layer ozone. *Nature Communications*, **2017**, 8, 15243	17.4	52
126	Improved OSIRIS NO₂ retrieval algorithm: description and validation. *Atmospheric Measurement Techniques*, **2017**, 10, 1155-1168	4	7
125	The Ozone Monitoring Instrument: Overview of twelve years in space **2017**,		2
124	Continuation of long-term global SO₂ pollution monitoring from OMI to OMPS. *Atmospheric Measurement Techniques*, **2017**, 10, 1495-1509	4	36
123	Variability of Stratospheric Reactive Nitrogen and Ozone Related to the QBO. *Journal of Geophysical Research D: Atmospheres*, **2017**, 122, 10,103-10,118	4.4	11
122	AEROCAN, the Canadian sub-network of AERONET: Aerosol monitoring and air quality applications. *Atmospheric Environment*, **2017**, 167, 444-457	5.3	13
121	Quantifying CO2 Emissions From Individual Power Plants From Space. *Geophysical Research Letters*, **2017**, 44, 10,045	4.9	114
120	India Is Overtaking China as the World's Largest Emitter of Anthropogenic Sulfur Dioxide. *Scientific Reports*, **2017**, 7, 14304	4.9	182
119	Tropospheric Emissions: Monitoring of Pollution (TEMPO). *Journal of Quantitative Spectroscopy and Radiative Transfer*, **2017**, 186, 17-39	2.1	163

118	OMI satellite observations of decadal changes in ground-level sulfur dioxide over North America. *Atmospheric Chemistry and Physics*, **2017**, 17, 5921-5929	6.8	24
117	Multi-source SO₂ emission retrievals and consistency of satellite and surface measurements with reported emissions. *Atmospheric Chemistry and Physics*, **2017**, 17, 12597-12616	6.8	37
116	Assessment of the aerosol optical depths measured by satellite-based passive remote sensors in the Alberta oil sands region. *Atmospheric Chemistry and Physics*, **2017**, 17, 1931-1943	6.8	9
115	Effect of volcanic aerosol on stratospheric NO₂ and N₂O₅ from 2002–2014 as measured by Odin-OSIRIS and Envisat-MIPAS. *Atmospheric Chemistry and Physics*, **2017**, 17, 8063-8080	6.8	8
114	Direct injection of water vapor into the stratosphere by volcanic eruptions. *Geophysical Research Letters*, **2016**, 43, 7694-7700	4.9	9
113	Aura OMI observations of regional SO₂ and NO₂ pollution changes from 2005 to 2015. *Atmospheric Chemistry and Physics*, **2016**, 16, 4605-4629	6.8	428
112	A global catalogue of large SO₂ sources and emissions derived from the Ozone Monitoring Instrument. *Atmospheric Chemistry and Physics*, **2016**, 16, 11497-11519	6.8	148
111	Toxic volatile organic air pollutants across Canada: multi-year concentration trends, regional air quality modelling and source apportionment. *Journal of Atmospheric Chemistry*, **2016**, 73, 137-164	3.2	15
110	Space-based detection of missing sulfur dioxide sources of global air pollution. *Nature Geoscience*, **2016**, 9, 496-500	18.3	105
109	Semi-Lagrangian Advection of Stratospheric Ozone on a Yin–Yang Grid System. *Monthly Weather Review*, **2016**, 144, 1035-1050	2.4	11
108	A Decade of Change in NO2 and SO2 over the Canadian Oil Sands As Seen from Space. *Environmental Science & Technology*, **2016**, 50, 331-7	10.3	46
107	Validation of ACE-FTS version 3.5 NO_{<i>y</i>} species profiles using correlative satellite measurements. *Atmospheric Measurement Techniques*, **2016**, 9, 5781-5810	4	19
106	Sulfur dioxide (SO₂) vertical column density measurements by Pandora spectrometer over the Canadian oil sands. *Atmospheric Measurement Techniques*, **2016**, 9, 2961-2976	4	20
105	A global catalogue of large SO₂ sources and emissions derived from the Ozone Monitoring Instrument **2016**,		5
104	Limb–nadir matching using non-coincident NO₂ observations: proof of concept and the OMI-minus-OSIRIS prototype product. *Atmospheric Measurement Techniques*, **2016**, 9, 4103-4122	4	8
103	Marked long-term decline in ambient CO mixing ratio in SE England, 1997-2014: evidence of policy success in improving air quality. *Scientific Reports*, **2016**, 6, 25661	4.9	8
102	Optical Spectrograph and Infrared Imager System for Measurements of Atmospheric Composition and Emissions **2015**, 677-699		0
101	Assessment of the magnitude and recent trends in satellite-derived ground-level nitrogen dioxide over North America. *Atmospheric Environment*, **2015**, 118, 236-245	5.3	43

100	Toronto area ozone: Long-term measurements and modeled sources of poor air quality events. *Journal of Geophysical Research D: Atmospheres*, **2015**, 120, 11,368-11,390	4.4	12
99	Tropospheric Emission Spectrometer (TES) satellite observations of ammonia, methanol, formic acid, and carbon monoxide over the Canadian oil sands: validation and model evaluation. *Atmospheric Measurement Techniques*, **2015**, 8, 5189-5211	4	24
98	Lifetimes and emissions of SO2 from point sources estimated from OMI. *Geophysical Research Letters*, **2015**, 42, 1969-1976	4.9	112
97	Improved satellite retrievals of NO₂ and SO₂ over the Canadian oil sands and comparisons with surface measurements. *Atmospheric Chemistry and Physics*, **2014**, 14, 3637-3656	6.8	110
96	Trends in stratospheric ozone derived from merged SAGE II and Odin-OSIRIS satellite observations. *Atmospheric Chemistry and Physics*, **2014**, 14, 6983-6994	6.8	58
95	Trend and variability in ozone in the tropical lower stratosphere over 2.5 solar cycles observed by SAGE II and OSIRIS. *Atmospheric Chemistry and Physics*, **2014**, 14, 3479-3496	6.8	34
94	Assessment of Odin-OSIRIS ozone measurements from 2001 to the present using MLS, GOMOS, and ozonesondes. *Atmospheric Measurement Techniques*, **2014**, 7, 49-64	4	22
93	Characterization of Odin-OSIRIS ozone profiles with the SAGE II dataset. *Atmospheric Measurement Techniques*, **2013**, 6, 1447-1459	4	21
92	Characterization of Odin-OSIRIS ozone profiles with the SAGE II dataset **2013**,		2
91	Assessment of Odin-OSIRIS ozone measurements from 2001 to the present using MLS, GOMOS, and ozone sondes **2013**,		7
90	The spring 2011 final stratospheric warming above Eureka: anomalous dynamics and chemistry. *Atmospheric Chemistry and Physics*, **2013**, 13, 611-624	6.8	12
89	A global ozone climatology from ozone soundings via trajectory mapping: a stratospheric perspective. *Atmospheric Chemistry and Physics*, **2013**, 13, 11441-11464	6.8	31
88	Stratospheric BrO abundance measured by a balloon-borne submillimeterwave radiometer. *Atmospheric Chemistry and Physics*, **2013**, 13, 3307-3319	6.8	19
87	Application of OMI, SCIAMACHY, and GOME-2 satellite SO2 retrievals for detection of large emission sources. *Journal of Geophysical Research D: Atmospheres*, **2013**, 118, 11,399-11,418	4.4	91
86	Relative changes in CO emissions over megacities based on observations from space. *Geophysical Research Letters*, **2013**, 40, 3766-3771	4.9	47
85	Air quality over the Canadian oil sands: A first assessment using satellite observations. *Geophysical Research Letters*, **2012**, 39, n/a-n/a	4.9	108
84	Severe 2011 ozone depletion assessed with 11 years of ozone, NO2, and OClO measurements at 80°N. *Geophysical Research Letters*, **2012**, 39, n/a-n/a	4.9	22
83	Precision estimate for Odin-OSIRIS limb scatter retrievals. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a		19

82	Validation of ACE and OSIRIS ozone and NO₂ measurements using ground-based instruments at 80°N **2012**,		1
81	OSIRIS: A Decade of Scattered Light. *Bulletin of the American Meteorological Society*, **2012**, 93, 1845-1863	3.1	27
80	Validation of ACE and OSIRIS ozone and NO₂ measurements using ground-based instruments at 80°N. *Atmospheric Measurement Techniques*, **2012**, 5, 927-953	4	21
79	Validation of SCIAMACHY limb NO₂ profiles using solar occultation measurements. *Atmospheric Measurement Techniques*, **2012**, 5, 1059-1084	4	17
78	Quantifying stratospheric ozone trends: Complications due to stratospheric cooling. *Geophysical Research Letters*, **2011**, 38, n/a-n/a	4.9	24
77	Evaluation of ACE-FTS and OSIRIS Satellite retrievals of ozone and nitric acid in the tropical upper troposphere: Application to ozone production efficiency. *Journal of Geophysical Research*, **2011**, 116,		18
76	New method for deriving total ozone from Brewer zenith sky observations. *Journal of Geophysical Research*, **2011**, 116,		8
75	A global inventory of stratospheric NOy from ACE-FTS. *Journal of Geophysical Research*, **2011**, 116,		16
74	Estimation of SO2 emissions using OMI retrievals. *Geophysical Research Letters*, **2011**, 38, n/a-n/a	4.9	126
73	Attribution of observed changes in stratospheric ozone and temperature. *Atmospheric Chemistry and Physics*, **2011**, 11, 599-609	6.8	34
72	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. *Atmospheric Chemistry and Physics*, **2011**, 11, 3949-3979	6.8	56
71	A study of the Arctic NOy budget above Eureka, Canada. *Journal of Geophysical Research*, **2011**, 116, n/a-n/a		8
70	BrO vertical distributions from SCIAMACHY limb measurements: comparison of algorithms and retrieval results. *Atmospheric Measurement Techniques*, **2011**, 4, 1319-1359	4	33
69	Fast NO₂ retrievals from Odin-OSIRIS limb scatter measurements. *Atmospheric Measurement Techniques*, **2011**, 4, 965-972	4	28
68	BrO vertical distributions from SCIAMACHY limb measurements: comparison of algorithms and retrieval results **2010**,		2
67	A Systematic Error in Plane-Parallel Radiative Transfer Calculations. *Journals of the Atmospheric Sciences*, **2010**, 67, 1695-1699	2.1	7
66	Odin/OSIRIS observations of stratospheric BrO: Retrieval methodology, climatology, and inferred Bry. *Journal of Geophysical Research*, **2010**, 115,		31
65	Atmospheric Chemistry Experiment (ACE) observations of aerosol in the upper troposphere and lower stratosphere from the Kasatochi volcanic eruption. *Journal of Geophysical Research*, **2010**, 115,		20

64	Ozone and NO2 variations measured during the 1 August 2008 solar eclipse above Eureka, Canada with a UV-visible spectrometer. *Journal of Geophysical Research*, **2010**, 115,		7
63	High vertical resolution water vapour profiles in the upper troposphere and lower stratosphere retrieved from MAESTRO solar occultation spectra. *Advances in Space Research*, **2010**, 46, 642-650	2.4	12
62	UV spectral measurements at moderately high resolution and of OH resonance scattering resolved by polarization during the MANTRA 2002–2004 stratospheric balloon flights. *Journal of Quantitative Spectroscopy and Radiative Transfer*, **2009**, 110, 205-222	2.1	
61	Stratospheric ozone during the Last Glacial Maximum. *Geophysical Research Letters*, **2009**, 36,	4.9	15
60	Technical Note: A SAGE-corrected SBUV zonal-mean ozone data set. *Atmospheric Chemistry and Physics*, **2009**, 9, 7963-7972	6.8	32
59	Validation of ozone measurements from the Atmospheric Chemistry Experiment (ACE). *Atmospheric Chemistry and Physics*, **2009**, 9, 287-343	6.8	112
58	Validation of NO₂ and NO from the Atmospheric Chemistry Experiment (ACE). *Atmospheric Chemistry and Physics*, **2008**, 8, 5801-5841	6.8	54
57	Intercomparison of UV-visible measurements of ozone and NO₂ during the Canadian Arctic ACE validation campaigns: 2004–2006. *Atmospheric Chemistry and Physics*, **2008**, 8, 1763-1788	6.8	16
56	Corrigendum to "Lightning-produced NO₂ observed by two ground-based UV-visible spectrometers at Vanscoy, Saskatchewan in August 2004" published in Atmos. Chem. Phys., 7, 1683–1692, 2007. *Atmospheric Chemistry and Physics*, **2008**, 8, 5521-5523	6.8	
55	Odin stratospheric proxy NO_y measurements and climatology. *Atmospheric Chemistry and Physics*, **2008**, 8, 5731-5754	6.8	28
54	Validation of HNO₃, ClONO₂, and N₂O₅ from the Atmospheric Chemistry Experiment Fourier Transform Spectrometer (ACE-FTS). *Atmospheric Chemistry and Physics*, **2008**, 8, 3529-3562	6.8	61
53	Odin/OSIRIS observations of stratospheric NO₃ through sunrise and sunset. *Atmospheric Chemistry and Physics*, **2008**, 8, 5529-5534	6.8	4
52	Ab initio study of sulfur isotope fractionation in the reaction of OCS with OH. *Chemical Physics Letters*, **2008**, 450, 214-220	2.5	25
51	Effects of resolution and model physics on tracer transports in the NASA Goddard Institute for Space Studies general circulation models. *Journal of Geophysical Research*, **2007**, 112,		72
50	Validation of Odin/OSIRIS stratospheric NO2 profiles. *Journal of Geophysical Research*, **2007**, 112,		24
49	Initial comparison of ozone and NO2 profiles from ACE-MAESTRO with balloon and satellite data. *Journal of Geophysical Research*, **2007**, 112,		23
48	Solar occultation satellite data and derived meteorological products: Sampling issues and comparisons with Aura Microwave Limb Sounder. *Journal of Geophysical Research*, **2007**, 112,		132
47	OSIRIS observations of a tongue of NOx in the lower stratosphere at the Antarctic vortex edge: comparison with a high-resolution simulation from the Global Environmental Multiscale (GEM) model. *Canadian Journal of Physics*, **2007**, 85, 1195-1207	1.1	1

46	A stratospheric NO2 climatology from Odin/OSIRIS limb-scatter measurements. *Canadian Journal of Physics*, **2007**, 85, 1253-1274	1.1	26
45	Comparison of OSIRIS stratospheric NO2 and O3 measurements with ground-based Fourier transform spectrometer measurements at the Toronto Atmospheric Observatory. *Canadian Journal of Physics*, **2007**, 85, 1301-1316	1.1	4
44	An evaluation of Odin/OSIRIS limb pointing and stratospheric ozone through comparisons with ozonesondes. *Canadian Journal of Physics*, **2007**, 85, 1125-1141	1.1	13
43	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. *Atmospheric Chemistry and Physics*, **2007**, 7, 1809-1833	6.8	135
42	Vertical profiles of lightning-produced NO₂ enhancements in the upper troposphere observed by OSIRIS. *Atmospheric Chemistry and Physics*, **2007**, 7, 4281-4294	6.8	18
41	Lightning-produced NO₂ observed by two ground-based UV-visible spectrometers at Vanscoy, Saskatchewan in August 2004. *Atmospheric Chemistry and Physics*, **2007**, 7, 1683-1692	6.8	5
40	Latitudinal and vertical distribution of bromine monoxide in the lower stratosphere from Scanning Imaging Absorption Spectrometer for Atmospheric Chartography limb scattering measurements. *Journal of Geophysical Research*, **2006**, 111,		62
39	Diurnal effects in limb scatter observations. *Journal of Geophysical Research*, **2006**, 111,		40
38	MANTRA - A Balloon Mission to Study the Odd-Nitrogen Budget of the Stratosphere. *Atmosphere - Ocean*, **2005**, 43, 283-299	1.5	22
37	Ground-based measurements of ozone and NO2 during MANTRA 1998 using a Zenith-sky spectrometer. *Atmosphere - Ocean*, **2005**, 43, 325-338	1.5	14
36	Sensitivity of ozone to bromine in the lower stratosphere. *Geophysical Research Letters*, **2005**, 32,	4.9	188
35	The OSIRIS instrument on the Odin spacecraft. *Canadian Journal of Physics*, **2004**, 82, 411-422	1.1	293
34	NO2 vertical profiles retrieved from ground-based measurements during spring 1999 in the Canadian Arctic. *Advances in Space Research*, **2004**, 34, 786-792	2.4	6
33	Derivation of polarization from Odin/OSIRIS limb spectra. *Geophysical Research Letters*, **2004**, 31,	4.9	9
32	Ultra-violet absorption cross sections of isotopically substituted nitrous oxide species: ¹⁴N¹⁴NO, ¹⁵N¹⁴NO, ¹⁴N¹⁵NO and	6.8	32
31	The Relative Importance of Solar and Anthropogenic Forcing of Climate Change between the **2004**, Maunder Minimum and the Present. *Journal of Climate*, **2004**, 17, 906-929	4.4	80
30	Stratospheric ozone profiles retrieved from limb scattered sunlight radiance spectra measured by the OSIRIS instrument on the Odin satellite. *Geophysical Research Letters*, **2003**, 30,	4.9	66
29	Global modeling of the isotopic analogues of N2O: Stratospheric distributions, budgets, and the 17O18O mass-independent anomaly. *Journal of Geophysical Research*, **2003**, 108,		57

28	Stratospheric profiles of nitrogen dioxide observed by Optical Spectrograph and Infrared Imager System on the Odin satellite. *Journal of Geophysical Research*, **2003**, 108,		45
27	Climatology and trends of surface UV radiation: Survey article. *Atmosphere - Ocean*, **2003**, 41, 121-138	1.5	31
26	A vector radiative-transfer model for the Odin/OSIRIS project. *Canadian Journal of Physics*, **2002**, 80, 375-393	1.1	83
25	Sensitivity of tracer transports and stratospheric ozone to sea surface temperature patterns in the doubled CO2 climate. *Journal of Geophysical Research*, **2002**, 107, ACL 25-1		19
24	The impact of the OSIRIS grating efficiency on radiance and trace-gas retrievals. *Canadian Journal of Physics*, **2002**, 80, 469-481	1.1	19
23	Retrieval of vertical concentration profiles from OSIRIS UV?visible limb spectra. *Canadian Journal of Physics*, **2002**, 80, 409-434	1.1	18
22	Zenith-sky observations of stratospheric gases: the sensitivity of air mass factors to geophysical parameters and the influence of tropospheric clouds. *Journal of Quantitative Spectroscopy and Radiative Transfer*, **2001**, 68, 657-677	2.1	23
21	Changes of tracer distributions in the doubled CO2 climate. *Journal of Geophysical Research*, **2001**, 106, 28061-28079		47
20	Stratospheric N2O-NO y system: Testing uncertainties in a three-dimensional framework. *Journal of Geophysical Research*, **2001**, 106, 28771-28784		71
19	Understanding trends in stratospheric NOy and NO2. *Journal of Geophysical Research*, **2001**, 106, 27787-27793		23
18	Stratospheric ozone in 3-D models: A simple chemistry and the cross-tropopause flux. *Journal of Geophysical Research*, **2000**, 105, 14653-14665		386
17	Evidence for bromine monoxide in the free troposphere during the Arctic polar sunrise. *Nature*, **1999**, 397, 338-341	50.4	132
16	Observations of Stratospheric Aerosol Using CPFM Polarized Limb Radiances. *Journals of the Atmospheric Sciences*, **1999**, 56, 233-240	2.1	20
15	The Impact of Non-Lambertian Wavelength-Dependent Reflecting Surfaces on Stratospheric Radiation and Photochemistry. *Journal of Atmospheric Chemistry*, **1997**, 26, 29-64	3.2	3
14	Trend and variability in ozone in the tropical lower stratosphere over 2.5 solar cycles observed by SAGE II and OSIRIS		3
13	Improved satellite retrievals of NO₂ and SO₂ over the Canadian oil sands and comparisons with surface measurements		3
12	Trends in stratospheric ozone derived from merged SAGE II and Odin-OSIRIS satellite observations		4
11	Aura OMI observations of regional SO₂ and NO₂ pollution changes from 2005 to 2014		19

List of Publications

10	Vertical profiles of lightning-produced NO₂ enhancements in the upper troposphere observed by OSIRIS	2
9	Validation of HNO₃, ClONO₂, and N₂O₅ from the Atmospheric Chemistry Experiment Fourier Transform Spectrometer (ACE-FTS)	1
8	Validation of ozone measurements from the Atmospheric Chemistry Experiment (ACE)	4
7	Drift corrected Odin-OSIRIS ozone product: algorithm and updated stratospheric ozone trends	4
6	Tropospheric Emission Spectrometer (TES) satellite validations of ammonia, methanol, formic acid, and carbon monoxide over the Canadian oil sands	3
5	Intercomparison of UV-visible measurements of ozone and NO₂ during the Canadian Arctic ACE validation campaigns: 2004–2006	1
4	Odin stratospheric proxy NO_y measurements and climatology	1
3	TROPOMI/S5ptotal ozone column data: global ground-based validation & consistency with other satellite missions	2
2	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
1	Disentangling the impact of the COVID-19 lockdowns on urban NO2 from natural variability	6