Cora E Randall

List of Publications by Year
in descending order

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172 papers	7,539 citations	46918 47 h-index	79541 73 g-index
181 all docs	181 docs citations	181 times ranked	3680 citing authors

#	Article	IF	Citations
1	Sensitivity of chemical tracers to meteorological parameters in the MOZARTâ€3 chemical transport model. Journal of Geophysical Research, 2007, 112, .	3.3	395
2	Stratospheric effects of energetic particle precipitation in 2003â€“2004. Geophysical Research Letters, 2005, 32, .	1.5	227
3	Energetic particle precipitation effects on the Southern Hemisphere stratosphere in 1992â€“2005. Journal of Geophysical Research, 2007, 112, .	3.3	186
4	The Aeronomy of Ice in the Mesosphere (AIM) mission: Overview and early science results. Journal of Atmospheric and Solar-Terrestrial Physics, 2009, 71, 289-299.	0.6	179
5	Short- and medium-term atmospheric constituent effects of very large solar proton events. Atmospheric Chemistry and Physics, 2008, 8, 765-785.	1.9	156
6	Enhanced NOxin 2006 linked to strong upper stratospheric Arctic vortex. Geophysical Research Letters, 2006, 33, n/a-n/a.	1.5	152
7	Nanosecond photolysis of rhodopsin: evidence for a new blue-shifted intermediate. Biochemistry, 1990, 29, 1475-1485.	1.2	143
8	NO_x descent in the Arctic middle atmosphere in early 2009. Geophysical Research Letters, 2009, 36, .	1.5	143
9	Geomagnetic activity and polar surface air temperature variability. Journal of Geophysical Research, 2009, 114, .	3.3	135
10	Validation of ozone measurements from the Atmospheric Chemistry Experiment (ACE). Atmospheric Chemistry and Physics, 2009, 9, 287-343.	1.9	134
11	Comet nucleus size distributions from HST and Keck telescopes. Icarus, 2004, 170, 463-491.	1.1	128
12	Unusual stratospheric transport and mixing during the 2002 Antarctic winter. Geophysical Research Letters, 2003, 30, .	1.5	123
13	The nature of the primary photochemical events in rhodopsin and isorhodopsin. Biophysical Journal, 1988, 53, 367-385.	0.2	122
14	On recent interannual variability of the Arctic winter mesosphere: Implications for tracer descent. Geophysical Research Letters, 2007, 34, .	1.5	122
15	High Resolution Dynamics Limb Sounder: Experiment overview, recovery, and validation of initial temperature data. Journal of Geophysical Research, 2008, 113, .	3.3	114
16	Longâ€term middle atmospheric influence of very large solar proton events. Journal of Geophysical Research, 2009, 114, .	3.3	103
17	Arctic and Antarctic polar winter NOxand energetic particle precipitation in 2002â€“2006. Geophysical Research Letters, 2007, 34, .	1.5	97
18	An assessment of southern hemisphere stratospheric NOxenhancements due to transport from the upper atmosphere. Geophysical Research Letters, 2000, 27, 329-332.	1.5	96

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19	New technique for measuring circular dichroism changes on a nanosecond time scale. Application to (carbonmonoxy)myoglobin and (carbonmonoxy)hemoglobin. The Journal of Physical Chemistry, 1985, 89, 289-294.	2.9	93
20	Parameterization of monoenergetic electron impact ionization. Geophysical Research Letters, 2010, 37, .	1.5	93
21	Polar Ozone and Aerosol Measurement (POAM) II stratospheric NO2, 1993-1996. Journal of Geophysical Research, 1998, 103, 28361-28371.	3.3	91
22	Validation of ACE-FTS v2.2 measurements of HCl, HF, CCl₃F and CCl₂F₂ using space-, balloon- and ground-based instrument observations. Atmospheric Chemistry and Physics, 2008, 8, 6199-6221.	1.9	91
23	POAM III retrieval algorithm and error analysis. Journal of Geophysical Research, 2002, 107, ACH 5-1-ACH 5-32.	3.3	85
24	Validation of ACE-FTS v2.2 methane profiles from the upper troposphere to the lower mesosphere. Atmospheric Chemistry and Physics, 2008, 8, 2421-2435.	1.9	85
25	Electron impact ionization: A new parameterization for 100 eV to 1 MeV electrons. Journal of Geophysical Research, 2008, 113, .	3.3	84
26	Validation of POAM III ozone: Comparisons with ozonesonde and satellite data. Journal of Geophysical Research, 2003, 108, .	3.3	78
27	POAM III observations of the anomalous 2002 Antarctic ozone hole. Geophysical Research Letters, 2003, 30, .	1.5	73
28	The Polar Ozone and Aerosol Measurement instrument. Journal of Geophysical Research, 1996, 101, 14479-14487.	3.3	72
29	Simulations of Dynamics and Transport during the September 2002 Antarctic Major Warming. Journals of the Atmospheric Sciences, 2005, 62, 690-707.	0.6	71
30	Northern Hemisphere atmospheric influence of the solar proton events and ground level enhancement in January 2005. Atmospheric Chemistry and Physics, 2011, 11, 6153-6166.	1.9	71
31	Stratospheric NOxenhancements in the Southern Hemisphere Vortex in winter/spring of 2000. Geophysical Research Letters, 2001, 28, 2385-2388.	1.5	69
32	Phase functions of polar mesospheric cloud ice as observed by the CIPS instrument on the AIM satellite. Journal of Atmospheric and Solar-Terrestrial Physics, 2009, 71, 373-380.	0.6	66
33	The cloud imaging and particle size experiment on the aeronomy of ice in the mesosphere mission: Cloud morphology for the northern 2007 season. Journal of Atmospheric and Solar-Terrestrial Physics, 2009, 71, 356-364.	0.6	65
34	Validation of NO₂ and NO from the Atmospheric Chemistry Experiment (ACE). Atmospheric Chemistry and Physics, 2008, 8, 5801-5841.	1.9	64
35	A new photolysis intermediate in artificial and native visual pigments. Journal of the American Chemical Society, 1991, 113, 3473-3485.	6.6	63
36	The Goddard High Resolution Spectrograph: Instrument, goals, and science results. Publications of the Astronomical Society of the Pacific, 1994, 106, 890.	1.0	63

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37	Satellite observations of ozone in the upper mesosphere. Journal of Geophysical Research D: Atmospheres, 2013, 118, 5803-5821.	1.2	63
38	An upper stratospheric layer of enhanced HNO3following exceptional solar storms. Geophysical Research Letters, 2005, 32, n/a-n/a.	1.5	62
39	Initial validation comparisons for the Atmospheric Chemistry Experiment (ACE-FTS). Geophysical Research Letters, 2005, 32, .	1.5	62
40	POAM II retrieval algorithm and error analysis. Journal of Geophysical Research, 1997, 102, 23593-23614.	3.3	60
41	Retrieval of polar mesospheric cloud properties from CIPS: Algorithm description, error analysis and cloud detection sensitivity. Journal of Atmospheric and Solar-Terrestrial Physics, 2013, 104, 167-196.	0.6	60
42	What is the solar influence on climate? Overview of activities during CAWSES-II. Progress in Earth and Planetary Science, 2014, 1, .	1.1	59
43	HEPPA-II modelâ€“measurement intercomparison project: EPP indirect effects during the dynamically perturbed NH winter 2008â€“2009. Atmospheric Chemistry and Physics, 2017, 17, 3573-3604.	1.9	55
44	The Goddard High Resolution Spectrograph: In-Orbit Performance. Publications of the Astronomical Society of the Pacific, 1995, 107, 871.	1.0	55
45	Evaluation of Whole Atmosphere Community Climate Model simulations of ozone during Arctic winter 2004â€“2005. Journal of Geophysical Research D: Atmospheres, 2013, 118, 2673-2688.	1.2	53
46	Simulation of energetic particle precipitation effects during the 2003â€“2004 Arctic winter. Journal of Geophysical Research: Space Physics, 2015, 120, 5035-5048.	0.8	53
47	An analysis of POAM II solar occultation observations of polar mesospheric clouds in the southern hemisphere. Journal of Geophysical Research, 1997, 102, 1971-1981.	3.3	50
48	Numerical simulations of the threeâ€dimensional distribution of polar mesospheric clouds and comparisons with Cloud Imaging and Particle Size (CIPS) experiment and the Solar Occultation For Ice Experiment (SOFIE) observations. Journal of Geophysical Research, 2010, 115, .	3.3	50
49	Diagnostic Comparison of Meteorological Analyses during the 2002 Antarctic Winter. Monthly Weather Review, 2005, 133, 1261-1278.	0.5	49
50	Intraâ€seasonal variability of polar mesospheric clouds due to interâ€hemispheric coupling. Geophysical Research Letters, 2009, 36, .	1.5	49
51	Analysis of optical artifacts in ellipsometric measurements of time-resolved circular dichroism. The Journal of Physical Chemistry, 1991, 95, 4685-4694.	2.9	48
52	2002-2003 Arctic ozone loss deduced from POAM III satellite observations and the SLIMCAT chemical transport model. Atmospheric Chemistry and Physics, 2005, 5, 597-609.	1.9	48
53	Photolysis intermediates of the artificial visual pigment cis-5,6-dihydro-isorhodopsin. Biophysical Journal, 1989, 55, 233-241.	0.2	47
54	Seasonal variation of the quasi 5 day planetary wave: Causes and consequences for polar mesospheric cloud variability in 2007. Journal of Geophysical Research, 2010, 115, .	3.3	47

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55	Tidally induced variations of polar mesospheric cloud altitudes and ice water content using a data assimilation system. Journal of Geophysical Research, 2010, 115, .	3.3	45
56	The influence of major sudden stratospheric warming and elevated stratopause events on the effects of energetic particle precipitation in WACCM. Journal of Geophysical Research D: Atmospheres, 2013, 118, 11,636.	1.2	42
57	Validation of POAM III aerosols: Comparison to SAGE II and HALOE. Journal of Geophysical Research, 2001, 106, 27525-27536.	3.3	41
58	POES MEPED differential flux retrievals and electron channel contamination correction. Journal of Geophysical Research: Space Physics, 2015, 120, 4596-4612.	0.8	41
59	Nighttime secondary ozone layer during major stratospheric sudden warmings in specifiedâ€dynamics WACCM. Journal of Geophysical Research D: Atmospheres, 2013, 118, 8346-8358.	1.2	40
60	A multi tracer analysis of thermosphere to stratosphere descent triggered by the 2013 Stratospheric Sudden Warming. Geophysical Research Letters, 2014, 41, 5216-5222.	1.5	40
61	Middle atmospheric changes caused by the January and March 2012 solar proton events. Atmospheric Chemistry and Physics, 2014, 14, 1025-1038.	1.9	40
62	Comparison of polar mesospheric cloud measurements from the Cloud Imaging and Particle Size experiment and the solar backscatter ultraviolet instrument in 2007. Journal of Atmospheric and Solar-Terrestrial Physics, 2009, 71, 365-372.	0.6	39
63	Hemispheric distributions and interannual variability of NO_y produced by energetic particle precipitation in 2002â€“2012. Journal of Geophysical Research D: Atmospheres, 2014, 119, 13,565.	1.2	39
64	POAM III observations of arctic ozone loss for the 1999/2000 winter. Journal of Geophysical Research, 2002, 107, SOL 5-1.	3.3	38
65	Quantifying Arctic ozone loss during the 2004â€“2005 winter using satellite observations and a chemical transport model. Journal of Geophysical Research, 2007, 112, .	3.3	37
66	Comparison of POAM III ozone measurements with correlative aircraft and balloon data during SOLVE. Journal of Geophysical Research, 2002, 107, SOL 59-1-SOL 59-21.	3.3	36
67	Evidence that the excited-state geometry of diphenylbutadiene is nearly planar. The Journal of Physical Chemistry, 1983, 87, 380-382.	2.9	35
68	Transition dipole orientations in the early photolysis intermediates of rhodopsin. Biophysical Journal, 1989, 56, 1101-1111.	0.2	35
69	Reconstruction and Simulation of Stratospheric Ozone Distributions during the 2002 Austral Winter. Journals of the Atmospheric Sciences, 2005, 62, 748-764.	0.6	35
70	Response of the upper/middle atmosphere to coronal holes and powerful high-speed solar wind streams in 2003. Geophysical Monograph Series, 2006, , 319-340.	0.1	35
71	Modelling the effect of denitrification on polar ozone depletion for Arctic winter 2004/2005. Atmospheric Chemistry and Physics, 2011, 11, 6559-6573.	1.9	35
72	POAM II ozone observations in the Antarctic ozone hole in 1994, 1995, and 1996. Journal of Geophysical Research, 1997, 102, 23643-23657.	3.3	34

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73	Validation of Odin/OSIRIS stratospheric NO2profiles. Journal of Geophysical Research, 2007, 112, .	3.3	33
74	On the horizontal and temporal structure of noctilucent clouds as observed by satellite and lidar at ALOMAR (69N). Geophysical Research Letters, 2012, 39, .	1.5	33
75	Investigation of double tropopause spatial and temporal global variability utilizing High Resolution Dynamics Limb Sounder temperature observations. Journal of Geophysical Research, 2012, 117, .	3.3	33
76	Aerosol optical depth measurements by airborne sun photometer in SOLVE II: Comparisons to SAGE III, POAM III and airborne spectrometer measurements. Atmospheric Chemistry and Physics, 2005, 5, 1311-1339.	1.9	32
77	Breakdown of potential vorticityâ€"based equivalent latitude as a vortexâ€centered coordinate in the polar winter mesosphere. Journal of Geophysical Research, 2009, 114, .	3.3	32
78	Is a highâ€altitude meteorological analysis necessary to simulate thermosphereâ€stratosphere coupling?. Geophysical Research Letters, 2015, 42, 8225-8230.	1.5	32
79	Validation of POAM III NO2measurements. Journal of Geophysical Research, 2002, 107, ACH 6-1.	3.3	31
80	Validation of Polar Ozone and Aerosol Measurement (POAM) III version 4 stratospheric water vapor. Journal of Geophysical Research, 2006, 111, .	3.3	31
81	Initial validation of ozone measurements from the High Resolution Dynamics Limb Sounder. Journal of Geophysical Research, 2008, 113, .	3.3	31
82	Technical Note: Validation of Odin/SMR limb observations of ozone, comparisons with OSIRIS, POAM III, ground-based and balloon-borne instruments. Atmospheric Chemistry and Physics, 2008, 8, 3385-3409.	1.9	31
83	On the seasonal onset of polar mesospheric clouds and the breakdown of the stratospheric polar vortex in the Southern Hemisphere. Journal of Geophysical Research, 2011, 116, .	3.3	30
84	Birefringence effects in transient circular dichroism measurements with applications to the photolysis of carbon monoxyhemoglobin and carbon monoxymyoglobin. The Journal of Physical Chemistry, 1985, 89, 3845-3853.	2.9	29
85	Reconstruction of three-dimensional ozone fields using POAM III during SOLVE. Journal of Geophysical Research, 2002, 107, SOL 42-1.	3.3	29
86	An artificial visual pigment with restricted carbon-9-carbon-11 motion forms normal photolysis intermediates. Journal of the American Chemical Society, 1986, 108, 6440-6441.	6.6	28
87	Local and Remote Planetary Wave Effects on Polar Mesospheric Clouds in the Northern Hemisphere in 2014. Journal of Geophysical Research D: Atmospheres, 2018, 123, 5149-5162.	1.2	28
88	PMC Turbo: Studying Gravity Wave and Instability Dynamics in the Summer Mesosphere Using Polar Mesospheric Cloud Imaging and Profiling From a Stratospheric Balloon. Journal of Geophysical Research D: Atmospheres, 2019, 124, 6423-6443.	1.2	27
89	Comparison of Polar Ozone and Aerosol Measurement (POAM) II and Stratospheric Aerosol and Gas Experiment (SAGE) II aerosol measurements from 1994 to 1996. Journal of Geophysical Research, 2000, 105, 3929-3942.	3.3	26
90	Observations and analysis of polar stratospheric clouds detected by POAM III during the 1999/2000 Northern Hemisphere winter. Journal of Geophysical Research, 2002, 107, SOL 24-1.	3.3	25

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91	On the distribution of ozone in stratospheric anticyclones. Journal of Geophysical Research, 2004, 109, .	3.3	25
92	Initial comparison of ozone and NO‹sub›2‹/sub› profiles from ACEâ€MAESTRO with balloon and satellite data. Journal of Geophysical Research, 2007, 112, .	3.3	25
93	High Resolution Dynamics Limb Sounder observations of the gravity waveâ€driven elevated stratopause in 2006. Journal of Geophysical Research, 2012, 117, .	3.3	25
94	Nitrate ion spikes in ice cores not suitable as proxies for solar proton events. Journal of Geophysical Research D: Atmospheres, 2016, 121, 2994-3016.	1.2	25
95	Validation of ACE-FTS version 3.5 NO_{<i>y</i>} species profiles using correlative satellite measurements. Atmospheric Measurement Techniques, 2016, 9, 5781-5810.	1.2	25
96	Noise reduction in laser photolysis studies of photolabile samples using an optical multichannel analyzer. Review of Scientific Instruments, 1987, 58, 945-949.	0.6	24
97	Spectral and kinetic evidence for the existence of two forms of bathorhodopsin.. Proceedings of the National Academy of Sciences of the United States of America, 1987, 84, 3699-3703.	3.3	24
98	Preliminary results from POAM II: Stratospheric ozone at high northern latitudes. Geophysical Research Letters, 1995, 22, 2733-2736.	1.5	24
99	An Observational Study of the Final Breakdown of the Southern Hemisphere Stratospheric Vortex in 2002. Journals of the Atmospheric Sciences, 2005, 62, 735-747.	0.6	24
100	Ozone profiles in the high-latitude stratosphere and lower mesosphere measured by the Improved Limb Atmospheric Spectrometer (ILAS)-II: Comparison with other satellite sensors and ozonesondes. Journal of Geophysical Research, 2006, 111, .	3.3	24
101	Atmospheric Effects of >30â€keV Energetic Electron Precipitation in the Southern Hemisphere Winter During 2003. Journal of Geophysical Research: Space Physics, 2019, 124, 8138-8153.	0.8	24
102	Early photolysis intermediates of the artificial visual pigment 13-demethylrhodopsin. Biochemistry, 1990, 29, 1485-1491.	1.2	23
103	Validation of POAM ozone measurements with coincident MLS, HALOE, and SAGE II observations. Journal of Geophysical Research, 1997, 102, 23615-23627.	3.3	23
104	Recent observations of high mass density polar mesospheric clouds: A link to space traffic?. Geophysical Research Letters, 2013, 40, 2813-2817.	1.5	23
105	Retrieval of ozone column content from airborne Sun photometer measurements during SOLVE II: comparison with coincident satellite and aircraft measurements. Atmospheric Chemistry and Physics, 2005, 5, 2035-2054.	1.9	22
106	SAGE III aerosol extinction validation in the Arctic winter: comparisons with SAGE II and POAM III. Atmospheric Chemistry and Physics, 2007, 7, 1423-1433.	1.9	22
107	A climatology of stratopause temperature and height in the polar vortex and anticyclones. Journal of Geophysical Research, 2012, 117, .	3.3	22
108	First results from POAM II: The dissipation of the 1993 Antarctic Ozone Hole. Geophysical Research Letters, 1995, 22, 909-912.	1.5	21

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109	Microwave observations and modeling of O2(1Î”g) and O3diurnal variation in the mesosphere. Journal of Geophysical Research, 1997, 102, 9013-9028.	3.3	21
110	Morphology of polar mesospheric clouds as seen from space. Journal of Atmospheric and Solar-Terrestrial Physics, 2013, 104, 234-243.	0.6	21
111	Concentric gravity waves in polar mesospheric clouds from the Cloud Imaging and Particle Size experiment. Journal of Geophysical Research D: Atmospheres, 2014, 119, 5115-5127.	1.2	21
112	On the Upward Extension of the Polar Vortices Into the Mesosphere. Journal of Geophysical Research D: Atmospheres, 2018, 123, 9171-9191.	1.2	21
113	An overview of POAM II aerosol measurments at 1.06 Âµm. Geophysical Research Letters, 1996, 23, 3195-3198.	1.5	20
114	On the onset of polar mesospheric cloud seasons as observed by SBUV. Journal of Geophysical Research, 2012, 117, .	3.3	20
115	Understanding uncertainties in the retrieval of polar mesospheric clouds from the cloud imaging and particle size experiment in the presence of a bright Rayleigh background. Journal of Atmospheric and Solar-Terrestrial Physics, 2013, 104, 197-212.	0.6	19
116	Effects of the September 2005 Solar Flares and Solar Proton Events on the Middle Atmosphere in WACCM. Journal of Geophysical Research: Space Physics, 2018, 123, 5747-5763.	0.8	19
117	Evidence for a common batho-intermediate in the bleaching of rhodopsin and isorhodopsin. Vision Research, 1984, 24, 1465-1470.	0.7	18
118	Evaluation of AIM CIPS measurements of Polar Mesospheric Clouds by comparison with SBUV data. Journal of Atmospheric and Solar-Terrestrial Physics, 2011, 73, 2065-2072.	0.6	18
119	New AIM/CIPS global observations of gravity waves near 50â€“55Âkm. Geophysical Research Letters, 2017, 44, 7044-7052.	1.5	18
120	Evidence for a common batho intermediate of rhodopsin and isorhodopsin. Journal of the American Chemical Society, 1988, 110, 1998-1999.	6.6	17
121	A climatology of planetary waveâ€driven mesospheric inversion layers in the extratropical winter. Journal of Geophysical Research D: Atmospheres, 2015, 120, 399-413.	1.2	17
122	A comparative study of POAMII and electrochemical concentration cell ozonesonde measurements obtained over northern Europe. Journal of Geophysical Research, 1997, 102, 23629-23642.	3.3	16
123	First determination of the fractal perimeter dimension of noctilucent clouds. Geophysical Research Letters, 2011, 38, n/a-n/a.	1.5	16
124	Bright polar mesospheric clouds formed by main engine exhaust from the space shuttle's final launch. Journal of Geophysical Research, 2012, 117, .	3.3	16
125	Nitrate deposition to surface snow at Summit, Greenland, following the 9 November 2000 solar proton event. Journal of Geophysical Research D: Atmospheres, 2014, 119, 6938-6957.	1.2	16
126	HEPPA III Intercomparison Experiment on Electron Precipitation Impacts: 1. Estimated Ionization Rates During a Geomagnetic Active Period in April 2010. Journal of Geophysical Research: Space Physics, 2022, 127, .	0.8	16

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127	A Monte Carlo model of polarized thermal emission from particulate planetary surfaces. Icarus, 1992, 99, 51-62.	1.1	15
128	Comparing nadir and limb observations of polar mesospheric clouds: The effect of the assumed particle size distribution. Journal of Atmospheric and Solar-Terrestrial Physics, 2015, 127, 51-65.	0.6	15
129	Investigating seasonal gravity wave activity in the summer polar mesosphere. Journal of Atmospheric and Solar-Terrestrial Physics, 2015, 127, 8-20.	0.6	15
130	Global observations of HNO₃ from the High Resolution Dynamics Limb Sounder (HIRDLS): First results. Journal of Geophysical Research, 2008, 113, .	3.3	14
131	Northern PMC brightness zonal variability and its correlation with temperature and water vapor. Journal of Geophysical Research D: Atmospheres, 2014, 119, 2390-2408.	1.2	14
132	Simulated solar cycle effects on the middle atmosphere: WACCM3 Versus WACCM4. Journal of Advances in Modeling Earth Systems, 2015, 7, 806-822.	1.3	14
133	Solar-induced 27-day variations of polar mesospheric clouds from the AIM SOFIE and CIPS experiments. Journal of Atmospheric and Solar-Terrestrial Physics, 2017, 162, 122-135.	0.6	14
134	Lowâ€ozone pockets observed by EOSâ€MLS. Journal of Geophysical Research, 2008, 113, .	3.3	13
135	Case study of an ice void structure in polar mesospheric clouds. Journal of Atmospheric and Solar-Terrestrial Physics, 2013, 104, 224-233.	0.6	13
136	Simulations of the Boreal Winter Upper Mesosphere and Lower Thermosphere With Meteorological Specifications in SDâ€WACCMâ€X. Journal of Geophysical Research D: Atmospheres, 2018, 123, 3791-3811.	1.2	13
137	The AEPEX mission: Imaging energetic particle precipitation in the atmosphere through its bremsstrahlung X-ray signatures. Advances in Space Research, 2020, 66, 66-82.	1.2	13
138	An Atlas of Alpha Orionis Obtained with the Goddard High Resolution Spectrograph on the Hubble Space Telescope. Astronomical Journal, 1995, 109, 2706.	1.9	13
139	Atmospheric effects of energetic particle precipitation in the Arctic winter 1978â€“1979 revisited. Journal of Geophysical Research, 2012, 117, .	3.3	12
140	Chemical definition of the mesospheric polar vortex. Journal of Geophysical Research D: Atmospheres, 2015, 120, 10,166.	1.2	12
141	Evaluation of the Mesospheric Polar Vortices in WACCM. Journal of Geophysical Research D: Atmospheres, 2019, 124, 10626-10645.	1.2	12
142	A New MEPEDâ€Based Precipitating Electron Data Set. Journal of Geophysical Research: Space Physics, 2021, 126, .	0.8	12
143	Observations of 3C 273 with the Goddard High Resolution Spectrograph on the Hubble Space Telescope. Astronomical Journal, 1993, 105, 831.	1.9	11
144	The Disconnection Event of comet Halley on 1986 March 16.0. Astronomical Journal, 1994, 107, 1591.	1.9	11

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145	Space shuttle exhaust plumes in the lower thermosphere: Advective transport and diffusive spreading. Journal of Atmospheric and Solar-Terrestrial Physics, 2014, 108, 50-60.	0.6	10
146	The disconnection events of 1986 April 13-18 and the cessation of plasma tail activity in Comet Halley in 1986 May. Astrophysical Journal, 1993, 414, 883.	1.6	10
147	A new inversion for Stratospheric Aerosol and Gas Experiment II data. Journal of Geophysical Research, 1998, 103, 8465-8475.	3.3	9
148	Antarctic air over New Zealand following vortex breakdown in 1998. Annales Geophysicae, 2003, 21, 2175-2183.	0.6	9
149	Intercomparison of ILAS-II version 1.4 aerosol extinction coefficient at 780 nm with SAGE II, SAGE III, and POAM III. Journal of Geophysical Research, 2006, 111, .	3.3	9
150	Intercomparison of middle atmospheric meteorological analyses for the Northern Hemisphere winter 2009â€“2010. Atmospheric Chemistry and Physics, 2021, 21, 17577-17605.	1.9	9
151	On the existence of small comets and their interactions with planets. Earth, Moon and Planets, 1996, 72, 243-249.	0.3	8
152	Understanding the Effects of Polar Mesospheric Clouds on the Environment of the Upper Mesosphere and Lower Thermosphere. Journal of Geophysical Research D: Atmospheres, 2018, 123, 11,705.	1.2	8
153	Observations of 3C273 with the Goddard High Resolution Spectrograph on the Hubble Space Telescope. II.. Astronomical Journal, 1997, 114, 554.	1.9	8
154	Observations of Pole-to-Pole, Stratosphere-to-Ionosphere Connection. Frontiers in Astronomy and Space Sciences, 2022, 8, .	1.1	8
155	Comparison of high-latitude line-of-sight ozone column density with derived ozone fields and the effects of horizontal inhomogeneity. Atmospheric Chemistry and Physics, 2006, 6, 1843-1852.	1.9	7
156	Horizontal winds derived from the polar mesospheric cloud images as observed by the CIPS instrument on the AIM satellite. Journal of Geophysical Research D: Atmospheres, 2015, 120, 5564-5584.	1.2	7
157	Transport of Nitric Oxide Via Lagrangian Coherent Structures Into the Top of the Polar Vortex. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD034523.	1.2	7
158	Troposphereâ€Mesosphere Coupling by Convectively Forced Gravity Waves During Southern Hemisphere Monsoon Season as Viewed by AIM/CIPS. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029734.	0.8	7
159	The fractal perimeter dimension of noctilucent clouds: Sensitivity analysis of the areaâ€“perimeter method and results on the seasonal and hemispheric dependence of the fractal dimension. Journal of Atmospheric and Solar-Terrestrial Physics, 2015, 127, 66-72.	0.6	6
160	Making limb and nadir measurements comparable: A common volume study of PMC brightness observed by Odin OSIRIS and AIM CIPS. Journal of Atmospheric and Solar-Terrestrial Physics, 2018, 167, 66-73.	0.6	6
161	Universal power law of the gravity wave manifestation in the AIM CIPS polar mesospheric cloud images. Atmospheric Chemistry and Physics, 2018, 18, 883-899.	1.9	6
162	Albedo-Ice Regression method for determining ice water content of polar mesospheric clouds using ultraviolet observations from space. Atmospheric Measurement Techniques, 2019, 12, 1755-1766.	1.2	6

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163	Extreme stratospheric springs and their consequences for the onset of polar mesospheric clouds. Journal of Atmospheric and Solar-Terrestrial Physics, 2015, 132, 74-81.	0.6	5
164	Common volume satellite studies of polar mesospheric clouds with Odin/OSIRIS tomography and AIM/CIPS nadir imaging. Atmospheric Chemistry and Physics, 2019, 19, 12455-12475.	1.9	5
165	Two- and three-dimensional structures of the descent of mesospheric trace constituents after the 2013 sudden stratospheric warming elevated stratopause event. Atmospheric Chemistry and Physics, 2021, 21, 14059-14077.	1.9	5
166	Northern Midâ€Latitude Mesospheric Cloud Frequencies Observed by AIM/CIPS: Interannual Variability Driven by Space Traffic. Earth and Space Science, 2022, 9, .	1.1	5
167	Impact of the January 2012 solar proton event on polar mesospheric clouds. Journal of Geophysical Research D: Atmospheres, 2016, 121, 9165-9173.	1.2	4
168	Persistence of upper stratospheric wintertime tracer variability into the Arctic spring and summer. Atmospheric Chemistry and Physics, 2016, 16, 7957-7967.	1.9	3
169	Correction to â€œAn assessment of southern hemisphere stratospheric NOxenhancements due to transport from the upper atmosphereâ€• Geophysical Research Letters, 2000, 27, 975-975.	1.5	1
170	Comment on â€œAtmospheric ionization by highâ€fluence, hard spectrum solar proton events and their probable appearance in the ice core archiveâ€•by A. L. Melott et al.. Journal of Geophysical Research D: Atmospheres, 2016, 121, 12,484.	1.2	1
171	Sounding Rocket Observation of Nitric Oxide in the Polar Night. Journal of Geophysical Research: Space Physics, 2022, 127, .	0.8	1
172	The GLO (GFCR Limb Occultation) sensor: a new sensor concept for upper troposphere and lower stratosphere (UTLS) composition and transport studies. , 2019, , .		0