

# Cora E Randall

## List of Publications by Citations

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170  
papers

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45  
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70  
g-index

181  
ext. papers

7,008  
ext. citations

4.4  
avg, IF

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L-index

#	Paper	IF	Citations
170	Sensitivity of chemical tracers to meteorological parameters in the MOZART-3 chemical transport model. <i>Journal of Geophysical Research</i> , <b>2007</b> , 112,		338
169	Stratospheric effects of energetic particle precipitation in 2003-2004. <i>Geophysical Research Letters</i> , <b>2005</b> , 32,	4.9	200
168	Energetic particle precipitation effects on the Southern Hemisphere stratosphere in 1992-2005. <i>Journal of Geophysical Research</i> , <b>2007</b> , 112,		153
167	The Aeronomy of Ice in the Mesosphere (AIM) mission: Overview and early science results. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , <b>2009</b> , 71, 289-299	2	151
166	Short- and medium-term atmospheric constituent effects of very large solar proton events. <i>Atmospheric Chemistry and Physics</i> , <b>2008</b> , 8, 765-785	6.8	133
165	Enhanced NO <sub>x</sub> in 2006 linked to strong upper stratospheric Arctic vortex. <i>Geophysical Research Letters</i> , <b>2006</b> , 33, n/a-n/a	4.9	132
164	Nanosecond photolysis of rhodopsin: evidence for a new, blue-shifted intermediate. <i>Biochemistry</i> , <b>1990</b> , 29, 1475-85	3.2	131
163	NO <sub>x</sub> descent in the Arctic middle atmosphere in early 2009. <i>Geophysical Research Letters</i> , <b>2009</b> , 36,	4.9	130
162	Geomagnetic activity and polar surface air temperature variability. <i>Journal of Geophysical Research</i> , <b>2009</b> , 114, n/a-n/a		117
161	Comet nucleus size distributions from HST and Keck telescopes. <i>Icarus</i> , <b>2004</b> , 170, 463-491	3.8	117
160	The nature of the primary photochemical events in rhodopsin and isorhodopsin. <i>Biophysical Journal</i> , <b>1988</b> , 53, 367-85	2.9	116
159	On recent interannual variability of the Arctic winter mesosphere: Implications for tracer descent. <i>Geophysical Research Letters</i> , <b>2007</b> , 34,	4.9	114
158	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
157	Unusual stratospheric transport and mixing during the 2002 Antarctic winter. <i>Geophysical Research Letters</i> , <b>2003</b> , 30,	4.9	104
156	High Resolution Dynamics Limb Sounder: Experiment overview, recovery, and validation of initial temperature data. <i>Journal of Geophysical Research</i> , <b>2008</b> , 113,		98
155	Long-term middle atmospheric influence of very large solar proton events. <i>Journal of Geophysical Research</i> , <b>2009</b> , 114,		87
154	New technique for measuring circular dichroism changes on a nanosecond time scale. Application to (carbonmonoxy)myoglobin and (carbonmonoxy)hemoglobin. <i>The Journal of Physical Chemistry</i> , <b>1985</b> , 89, 289-294		86

153	Arctic and Antarctic polar winter NO <sub>x</sub> and energetic particle precipitation in 2002–2006. <i>Geophysical Research Letters</i> , <b>2007</b> , 34,	4.9	84
152	Polar Ozone and Aerosol Measurement (POAM) II stratospheric NO <sub>2</sub> , 1993–1996. <i>Journal of Geophysical Research</i> , <b>1998</b> , 103, 28361-28371		83
151	An assessment of southern hemisphere stratospheric NO <sub>x</sub> enhancements due to transport from the upper atmosphere. <i>Geophysical Research Letters</i> , <b>2000</b> , 27, 329-332	4.9	82
150	POAM III retrieval algorithm and error analysis. <i>Journal of Geophysical Research</i> , <b>2002</b> , 107, ACH 5-1-ACH 5-32		74
149	Validation of ACE-FTS v2.2 methane profiles from the upper troposphere to the lower mesosphere. <i>Atmospheric Chemistry and Physics</i> , <b>2008</b> , 8, 2421-2435	6.8	72
148	Validation of ACE-FTS v2.2 measurements of HCl, HF, CCl <sub>3</sub> F and CCl <sub>2</sub> F <sub>2</sub> using space-, balloon- and ground-based instrument observations. <i>Atmospheric Chemistry and Physics</i> , <b>2008</b> , 8, 6199-6221	6.8	69
147	Simulations of Dynamics and Transport during the September 2002 Antarctic Major Warming. <i>Journals of the Atmospheric Sciences</i> , <b>2005</b> , 62, 690-707	2.1	69
146	Validation of POAM III ozone: Comparisons with ozonesonde and satellite data. <i>Journal of Geophysical Research</i> , <b>2003</b> , 108,		67
145	POAM III observations of the anomalous 2002 Antarctic ozone hole. <i>Geophysical Research Letters</i> , <b>2003</b> , 30,	4.9	65
144	The Polar Ozone and Aerosol Measurement instrument. <i>Journal of Geophysical Research</i> , <b>1996</b> , 101, 14479-14487		64
143	Parameterization of monoenergetic electron impact ionization. <i>Geophysical Research Letters</i> , <b>2010</b> , 37, n/a-n/a	4.9	62
142	Stratospheric NO <sub>x</sub> enhancements in the Southern Hemisphere Vortex in winter/spring of 2000. <i>Geophysical Research Letters</i> , <b>2001</b> , 28, 2385-2388	4.9	61
141	Northern Hemisphere atmospheric influence of the solar proton events and ground level enhancement in January 2005. <i>Atmospheric Chemistry and Physics</i> , <b>2011</b> , 11, 6153-6166	6.8	60
140	Electron impact ionization: A new parameterization for 100 eV to 1 MeV electrons. <i>Journal of Geophysical Research</i> , <b>2008</b> , 113, n/a-n/a		60
139	An upper stratospheric layer of enhanced HNO <sub>3</sub> following exceptional solar storms. <i>Geophysical Research Letters</i> , <b>2005</b> , 32, n/a-n/a	4.9	60
138	The cloud imaging and particle size experiment on the aeronomy of ice in the mesosphere mission: Cloud morphology for the northern 2007 season. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , <b>2009</b> , 71, 356-364	2	57
137	The Goddard High Resolution Spectrograph: Instrument, goals, and science results. <i>Publications of the Astronomical Society of the Pacific</i> , <b>1994</b> , 106, 890	5	57
136	A new photolysis intermediate in artificial and native visual pigments. <i>Journal of the American Chemical Society</i> , <b>1991</b> , 113, 3473-3485	16.4	57

135	Phase functions of polar mesospheric cloud ice as observed by the CIPS instrument on the AIM satellite. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , <b>2009</b> , 71, 373-380	2	56
134	Satellite observations of ozone in the upper mesosphere. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2013</b> , 118, 5803-5821	4-4	55
133	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
132	Initial validation comparisons for the Atmospheric Chemistry Experiment (ACE-FTS). <i>Geophysical Research Letters</i> , <b>2005</b> , 32,	4-9	52
131	The Goddard High Resolution Spectrograph: In-Orbit Performance. <i>Publications of the Astronomical Society of the Pacific</i> , <b>1995</b> , 107, 871	5	52
130	Evaluation of Whole Atmosphere Community Climate Model simulations of ozone during Arctic winter 2004-2005. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2013</b> , 118, 2673-2688	4-4	48
129	Retrieval of polar mesospheric cloud properties from CIPS: Algorithm description, error analysis and cloud detection sensitivity. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , <b>2013</b> , 104, 167-196	2	47
128	What is the solar influence on climate? Overview of activities during CAWSES-II. <i>Progress in Earth and Planetary Science</i> , <b>2014</b> , 1,	3-9	47
127	POAM II retrieval algorithm and error analysis. <i>Journal of Geophysical Research</i> , <b>1997</b> , 102, 23593-23614		47
126	Seasonal variation of the quasi 5 day planetary wave: Causes and consequences for polar mesospheric cloud variability in 2007. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115,		46
125	Simulation of energetic particle precipitation effects during the 2003-2004 Arctic winter. <i>Journal of Geophysical Research: Space Physics</i> , <b>2015</b> , 120, 5035-5048	2.6	45
124	Analysis of optical artifacts in ellipsometric measurements of time-resolved circular dichroism. <i>The Journal of Physical Chemistry</i> , <b>1991</b> , 95, 4685-4694		45
123	An analysis of POAM II solar occultation observations of polar mesospheric clouds in the southern hemisphere. <i>Journal of Geophysical Research</i> , <b>1997</b> , 102, 1971-1981		44
122	Tidally induced variations of polar mesospheric cloud altitudes and ice water content using a data assimilation system. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115,		43
121	2002-2003 Arctic ozone loss deduced from POAM III satellite observations and the SLIMCAT chemical transport model. <i>Atmospheric Chemistry and Physics</i> , <b>2005</b> , 5, 597-609	6.8	43
120	Diagnostic Comparison of Meteorological Analyses during the 2002 Antarctic Winter. <i>Monthly Weather Review</i> , <b>2005</b> , 133, 1261-1278	2-4	43
119	Numerical simulations of the three-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. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115,		42
118	HEPPA-II model-measurement intercomparison project: EPP indirect effects during the dynamically perturbed NH winter 2008-2009. <i>Atmospheric Chemistry and Physics</i> , <b>2017</b> , 17, 3573-3604	6.8	41

117	Photolysis intermediates of the artificial visual pigment cis-5,6-dihydro-isorhodopsin. <i>Biophysical Journal</i> , <b>1989</b> , 55, 233-41	2.9	41
116	Validation of POAM III aerosols: Comparison to SAGE II and HALOE. <i>Journal of Geophysical Research</i> , <b>2001</b> , 106, 27525-27536		38
115	The influence of major sudden stratospheric warming and elevated stratopause events on the effects of energetic particle precipitation in WACCM. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2013</b> , 118, 11,636-11,646	4.4	36
114	Comparison of polar mesospheric cloud measurements from the Cloud Imaging and Particle Size experiment and the solar backscatter ultraviolet instrument in 2007. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , <b>2009</b> , 71, 365-372	2	36
113	Middle atmospheric changes caused by the January and March 2012 solar proton events. <i>Atmospheric Chemistry and Physics</i> , <b>2014</b> , 14, 1025-1038	6.8	35
112	Hemispheric distributions and interannual variability of NO <sub>y</sub> produced by energetic particle precipitation in 2002-2012. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2014</b> , 119, 13,565-13,582	4.4	34
111	Nighttime secondary ozone layer during major stratospheric sudden warmings in specified-dynamics WACCM. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2013</b> , 118, 8346-8358	4.4	34
110	Intra-seasonal variability of polar mesospheric clouds due to inter-hemispheric coupling. <i>Geophysical Research Letters</i> , <b>2009</b> , 36,	4.9	34
109	Evidence that the excited-state geometry of diphenylbutadiene is nearly planar. <i>The Journal of Physical Chemistry</i> , <b>1983</b> , 87, 380-382		34
108	A multi tracer analysis of thermosphere to stratosphere descent triggered by the 2013 Stratospheric Sudden Warming. <i>Geophysical Research Letters</i> , <b>2014</b> , 41, 5216-5222	4.9	33
107	Quantifying Arctic ozone loss during the 2004-2005 winter using satellite observations and a chemical transport model. <i>Journal of Geophysical Research</i> , <b>2007</b> , 112,		33
106	POAM III observations of arctic ozone loss for the 1999/2000 winter. <i>Journal of Geophysical Research</i> , <b>2002</b> , 107, SOL 5-1		33
105	Transition dipole orientations in the early photolysis intermediates of rhodopsin. <i>Biophysical Journal</i> , <b>1989</b> , 56, 1101-11	2.9	33
104	On the horizontal and temporal structure of noctilucent clouds as observed by satellite and lidar at ALOMAR (69N). <i>Geophysical Research Letters</i> , <b>2012</b> , 39, n/a-n/a	4.9	32
103	Aerosol optical depth measurements by airborne sun photometer in SOLVE II: Comparisons to SAGE III, POAM III and airborne spectrometer measurements. <i>Atmospheric Chemistry and Physics</i> , <b>2005</b> , 5, 1311-1339	6.8	31
102	Reconstruction and Simulation of Stratospheric Ozone Distributions during the 2002 Austral Winter. <i>Journals of the Atmospheric Sciences</i> , <b>2005</b> , 62, 748-764	2.1	31
101	Breakdown of potential vorticity based equivalent latitude as a vortex-centered coordinate in the polar winter mesosphere. <i>Journal of Geophysical Research</i> , <b>2009</b> , 114,		30
100	Initial validation of ozone measurements from the High Resolution Dynamics Limb Sounder. <i>Journal of Geophysical Research</i> , <b>2008</b> , 113,		30

99	POES MEPED differential flux retrievals and electron channel contamination correction. <i>Journal of Geophysical Research: Space Physics</i> , <b>2015</b> , 120, 4596-4612	2.6	29
98	Investigation of double tropopause spatial and temporal global variability utilizing High Resolution Dynamics Limb Sounder temperature observations. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a		29
97	POAM II ozone observations in the Antarctic ozone hole in 1994, 1995, and 1996. <i>Journal of Geophysical Research</i> , <b>1997</b> , 102, 23643-23657		29
96	Response of the Upper/Middle Atmosphere to Coronal Holes and Powerful High-Speed Solar Wind Streams in 2003. <i>Geophysical Monograph Series</i> , <b>2006</b> , 319-340	1.1	29
95	On the seasonal onset of polar mesospheric clouds and the breakdown of the stratospheric polar vortex in the Southern Hemisphere. <i>Journal of Geophysical Research</i> , <b>2011</b> , 116,		28
94	Modelling the effect of denitrification on polar ozone depletion for Arctic winter 2004/2005. <i>Atmospheric Chemistry and Physics</i> , <b>2011</b> , 11, 6559-6573	6.8	28
93	Comparison of POAM III ozone measurements with correlative aircraft and balloon data during SOLVE. <i>Journal of Geophysical Research</i> , <b>2002</b> , 107, SOL 59-1-SOL 59-21		28
92	Is a high-altitude meteorological analysis necessary to simulate thermosphere-stratosphere coupling?. <i>Geophysical Research Letters</i> , <b>2015</b> , 42, 8225-8230	4.9	27
91	Technical Note: Validation of Odin/SMR limb observations of ozone, comparisons with OSIRIS, POAM III, ground-based and balloon-borne instruments. <i>Atmospheric Chemistry and Physics</i> , <b>2008</b> , 8, 3385-3409 <sup>6.8</sup>		27
90	Validation of POAM III NO <sub>2</sub> measurements. <i>Journal of Geophysical Research</i> , <b>2002</b> , 107, ACH 6-1		27
89	Birefringence effects in transient circular dichroism measurements with applications to the photolysis of carbon monoxyhemoglobin and carbon monoxymyoglobin. <i>The Journal of Physical Chemistry</i> , <b>1985</b> , 89, 3845-3853		26
88	Reconstruction of three-dimensional ozone fields using POAM III during SOLVE. <i>Journal of Geophysical Research</i> , <b>2002</b> , 107, SOL 42-1		25
87	Validation of Odin/OSIRIS stratospheric NO <sub>2</sub> profiles. <i>Journal of Geophysical Research</i> , <b>2007</b> , 112,		24
86	On the distribution of ozone in stratospheric anticyclones. <i>Journal of Geophysical Research</i> , <b>2004</b> , 109,		24
85	Comparison of Polar Ozone and Aerosol Measurement (POAM) II and Stratospheric Aerosol and Gas Experiment (SAGE) II aerosol measurements from 1994 to 1996. <i>Journal of Geophysical Research</i> , <b>2000</b> , 105, 3929-3942		24
84	Noise reduction in laser photolysis studies of photolabile samples using an optical multichannel analyzer. <i>Review of Scientific Instruments</i> , <b>1987</b> , 58, 945-949	1.7	24
83	An artificial visual pigment with restricted carbon-9-carbon-11 motion forms normal photolysis intermediates. <i>Journal of the American Chemical Society</i> , <b>1986</b> , 108, 6440-6441	16.4	24
82	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

81	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. <i>Journal of Geophysical Research</i> , <b>2006</b> , 111,		23
80	Validation of Polar Ozone and Aerosol Measurement (POAM) III version 4 stratospheric water vapor. <i>Journal of Geophysical Research</i> , <b>2006</b> , 111,		23
79	Observations and analysis of polar stratospheric clouds detected by POAM III during the 1999/2000 Northern Hemisphere winter. <i>Journal of Geophysical Research</i> , <b>2002</b> , 107, SOL 24-1		23
78	An Observational Study of the Final Breakdown of the Southern Hemisphere Stratospheric Vortex in 2002. <i>Journals of the Atmospheric Sciences</i> , <b>2005</b> , 62, 735-747	2.1	22
77	Spectral and kinetic evidence for the existence of two forms of bathorhodopsin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>1987</b> , 84, 3699-703	11.5	22
76	Nitrate ion spikes in ice cores not suitable as proxies for solar proton events. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2016</b> , 121, 2994-3016	4.4	22
75	Concentric gravity waves in polar mesospheric clouds from the Cloud Imaging and Particle Size experiment. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2014</b> , 119, 5115-5127	4.4	21
74	Validation of POAM ozone measurements with coincident MLS, HALOE, and SAGE II observations. <i>Journal of Geophysical Research</i> , <b>1997</b> , 102, 23615-23627		21
73	Preliminary results from POAM II: Stratospheric ozone at high northern latitudes. <i>Geophysical Research Letters</i> , <b>1995</b> , 22, 2733-2736	4.9	21
72	Early photolysis intermediates of the artificial visual pigment 13-demethylrhodopsin. <i>Biochemistry</i> , <b>1990</b> , 29, 1485-91	3.2	21
71	On the onset of polar mesospheric cloud seasons as observed by SBUV. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a		20
70	High Resolution Dynamics Limb Sounder observations of the gravity wave-driven elevated stratopause in 2006. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117,		20
69	Microwave observations and modeling of O <sub>2</sub> (1 $\Sigma$ ) and O <sub>3</sub> diurnal variation in the mesosphere. <i>Journal of Geophysical Research</i> , <b>1997</b> , 102, 9013-9028		20
68	Local and Remote Planetary Wave Effects on Polar Mesospheric Clouds in the Northern Hemisphere in 2014. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2018</b> , 123, 5149-5162	4.4	19
67	First results from POAM II: The dissipation of the 1993 Antarctic Ozone Hole. <i>Geophysical Research Letters</i> , <b>1995</b> , 22, 909-912	4.9	19
66	An overview of POAM II aerosol measurements at 1.06 $\mu$ m. <i>Geophysical Research Letters</i> , <b>1996</b> , 23, 3195-3198		19
65	Validation of ACE-FTS version 3.5 NO <sub>x</sub> and O <sub>3</sub> species profiles using correlative satellite measurements. <i>Atmospheric Measurement Techniques</i> , <b>2016</b> , 9, 5781-5810	4	19
64	Morphology of polar mesospheric clouds as seen from space. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , <b>2013</b> , 104, 234-243	2	18

63	Recent observations of high mass density polar mesospheric clouds: A link to space traffic?. <i>Geophysical Research Letters</i> , <b>2013</b> , 40, 2813-2817	4.9	18
62	Evaluation of AIM CIPS measurements of Polar Mesospheric Clouds by comparison with SBUV data. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , <b>2011</b> , 73, 2065-2072	2	18
61	Retrieval of ozone column content from airborne Sun photometer measurements during SOLVE II: comparison with coincident satellite and aircraft measurements. <i>Atmospheric Chemistry and Physics</i> , <b>2005</b> , 5, 2035-2054	6.8	18
60	PMC Turbo: Studying Gravity Wave and Instability Dynamics in the Summer Mesosphere Using Polar Mesospheric Cloud Imaging and Profiling From a Stratospheric Balloon. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2019</b> , 124, 6423-6443	4.4	17
59	Evidence for a common BATHO-intermediate in the bleaching of rhodopsin and isorhodopsin. <i>Vision Research</i> , <b>1984</b> , 24, 1465-70	2.1	17
58	A climatology of stratopause temperature and height in the polar vortex and anticyclones. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a		16
57	SAGE III aerosol extinction validation in the Arctic winter: comparisons with SAGE II and POAM III. <i>Atmospheric Chemistry and Physics</i> , <b>2007</b> , 7, 1423-1433	6.8	16
56	Evidence for a common batho intermediate of rhodopsin and isorhodopsin. <i>Journal of the American Chemical Society</i> , <b>1988</b> , 110, 1998-1999	16.4	16
55	A comparative study of POAMII and electrochemical concentration cell ozonesonde measurements obtained over northern Europe. <i>Journal of Geophysical Research</i> , <b>1997</b> , 102, 23629-23642		15
54	Comparing nadir and limb observations of polar mesospheric clouds: The effect of the assumed particle size distribution. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , <b>2015</b> , 127, 51-65	2	14
53	Nitrate deposition to surface snow at Summit, Greenland, following the 9 November 2000 solar proton event. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2014</b> , 119, 6938-6957	4.4	14
52	Bright polar mesospheric clouds formed by main engine exhaust from the space shuttle's final launch. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a		14
51	A Monte Carlo model of polarized thermal emission from particulate planetary surfaces. <i>Icarus</i> , <b>1992</b> , 99, 51-62	3.8	14
50	Investigating seasonal gravity wave activity in the summer polar mesosphere. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , <b>2015</b> , 127, 8-20	2	13
49	Northern PMC brightness zonal variability and its correlation with temperature and water vapor. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2014</b> , 119, 2390-2408	4.4	13
48	A climatology of planetary wave-driven mesospheric inversion layers in the extratropical winter. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2015</b> , 120, 399-413	4.4	13
47	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. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , <b>2013</b> , 104, 197-212	2	12
46	Global observations of HNO <sub>3</sub> from the High Resolution Dynamics Limb Sounder (HIRDLS): First results. <i>Journal of Geophysical Research</i> , <b>2008</b> , 113,		12



45	Atmospheric Effects of >30-keV Energetic Electron Precipitation in the Southern Hemisphere Winter During 2003. <i>Journal of Geophysical Research: Space Physics</i> , <b>2019</b> , 124, 8138-8153	2.6	12
44	New AIM/CIPS global observations of gravity waves near 50–55 km. <i>Geophysical Research Letters</i> , <b>2017</b> , 44, 7044-7052	4.9	11
43	Atmospheric effects of energetic particle precipitation in the Arctic winter 1978–1979 revisited. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a		11
42	Low-ozone pockets observed by EOS-MLS. <i>Journal of Geophysical Research</i> , <b>2008</b> , 113,		11
41	Observations of 3C 273 with the Goddard High Resolution Spectrograph on the Hubble Space Telescope. <i>Astronomical Journal</i> , <b>1993</b> , 105, 831	4.9	11
40	The Disconnection Event of comet Halley on 1986 March 16.0. <i>Astronomical Journal</i> , <b>1994</b> , 107, 1591	4.9	11
39	An Atlas of Alpha Orionis Obtained with the Goddard High Resolution Spectrograph on the Hubble Space Telescope. <i>Astronomical Journal</i> , <b>1995</b> , 109, 2706	4.9	11
38	On the Upward Extension of the Polar Vortices Into the Mesosphere. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2018</b> , 123, 9171-9191	4.4	11
37	Solar-induced 27-day variations of polar mesospheric clouds from the AIM SOFIE and CIPS experiments. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , <b>2017</b> , 162, 122-135	2	10
36	The disconnection events of 1986 April 13-18 and the cessation of plasma tail activity in Comet Halley in 1986 May. <i>Astrophysical Journal</i> , <b>1993</b> , 414, 883	4.7	10
35	Simulations of the Boreal Winter Upper Mesosphere and Lower Thermosphere With Meteorological Specifications in SD-WACCM-X. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2018</b> , 123, 3791-3811	4.4	9
34	Case study of an ice void structure in polar mesospheric clouds. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , <b>2013</b> , 104, 224-233	2	9
33	Antarctic air over New Zealand following vortex breakdown in 1998. <i>Annales Geophysicae</i> , <b>2003</b> , 21, 2175-2183	5	9
32	Simulated solar cycle effects on the middle atmosphere: WACCM3 Versus WACCM4. <i>Journal of Advances in Modeling Earth Systems</i> , <b>2015</b> , 7, 806-822	7.1	8
31	Chemical definition of the mesospheric polar vortex. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2015</b> , 120, 10,166	4.4	8
30	First determination of the fractal perimeter dimension of noctilucent clouds. <i>Geophysical Research Letters</i> , <b>2011</b> , 38, n/a-n/a	4.9	8
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1	Troposphere-Mesosphere Coupling by Convectively Forced Gravity Waves During Southern Hemisphere Monsoon Season as Viewed by AIM/CIPS. <i>Journal of Geophysical Research: Space Physics</i> , <b>2021</b> , 126, e2021JA029734	2.6	0