

Daniel Marsh

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178
papers

9,744
citations

47
h-index

95
g-index

206
ext. papers

11,111
ext. citations

4.5
avg, IF

5.88
L-index

#	Paper	IF	Citations
178	The Community Earth System Model: A Framework for Collaborative Research. <i>Bulletin of the American Meteorological Society</i> , 2013 , 94, 1339-1360	6.1	1412
177	Climate Change from 1850 to 2005 Simulated in CESM1(WACCM). <i>Journal of Climate</i> , 2013 , 26, 7372-7391	4.4	561
176	Simulation of secular trends in the middle atmosphere, 1950-2003. <i>Journal of Geophysical Research</i> , 2007 , 112,		547
175	Assessment of temperature, trace species, and ozone in chemistry-climate model simulations of the recent past. <i>Journal of Geophysical Research</i> , 2006 , 111,		374
174	Sensitivity of chemical tracers to meteorological parameters in the MOZART-3 chemical transport model. <i>Journal of Geophysical Research</i> , 2007 , 112,		338
173	Multimodel projections of stratospheric ozone in the 21st century. <i>Journal of Geophysical Research</i> , 2007 , 112,		266
172	The HAMMONIA Chemistry Climate Model: Sensitivity of the Mesopause Region to the 11-Year Solar Cycle and CO2 Doubling. <i>Journal of Climate</i> , 2006 , 19, 3903-3931	4.4	211
171	Modeling the whole atmosphere response to solar cycle changes in radiative and geomagnetic forcing. <i>Journal of Geophysical Research</i> , 2007 , 112,		209
170	Long-term ozone changes and associated climate impacts in CMIP5 simulations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 5029-5060	4.4	200
169	Solar forcing for CMIP6 (v3.2). <i>Geoscientific Model Development</i> , 2017 , 10, 2247-2302	6.3	199
168	The hydrological impact of geoengineering in the Geoengineering Model Intercomparison Project (GeoMIP). <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 11,036-11,058	4.4	161
167	ENSO influence on zonal mean temperature and ozone in the tropical lower stratosphere. <i>Geophysical Research Letters</i> , 2009 , 36, n/a-n/a	4.9	144
166	Numerical simulations of the three-dimensional distribution of meteoric dust in the mesosphere and upper stratosphere. <i>Journal of Geophysical Research</i> , 2008 , 113,		136
165	Global volcanic aerosol properties derived from emissions, 1990-2014, using CESM1(WACCM). <i>Journal of Geophysical Research D: Atmospheres</i> , 2016 , 121, 2332-2348	4.4	135
164	Development and Validation of the Whole Atmosphere Community Climate Model With Thermosphere and Ionosphere Extension (WACCM-X 2.0). <i>Journal of Advances in Modeling Earth Systems</i> , 2018 , 10, 381-402	7.1	133
163	Short- and medium-term atmospheric constituent effects of very large solar proton events. <i>Atmospheric Chemistry and Physics</i> , 2008 , 8, 765-785	6.8	133
162	The Whole Atmosphere Community Climate Model Version 6 (WACCM6). <i>Journal of Geophysical Research D: Atmospheres</i> , 2019 , 124, 12380-12403	4.4	126

161	Dynamical Mechanism for the Increase in Tropical Upwelling in the Lowermost Tropical Stratosphere during Warm ENSO Events. <i>Journals of the Atmospheric Sciences</i> , 2010 , 67, 2331-2340	2.1	124
160	Coupled chemistry climate model simulations of the solar cycle in ozone and temperature. <i>Journal of Geophysical Research</i> , 2008 , 113,		124
159	Temporal variations of atomic oxygen in the upper mesosphere from SABER. <i>Journal of Geophysical Research</i> , 2010 , 115,		115
158	Composition changes after the "Halloween" solar proton event: the High Energy Particle Precipitation in the Atmosphere (HEPPA) model versus MIPAS data intercomparison study. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 9089-9139	6.8	113
157	Thermosphere extension of the Whole Atmosphere Community Climate Model. <i>Journal of Geophysical Research</i> , 2010 , 115, n/a-n/a		113
156	Northern winter climate change: Assessment of uncertainty in CMIP5 projections related to stratosphere-troposphere coupling. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 7979-7984	4.4	104
155	WACCM simulations of the mean circulation and trace species transport in the winter mesosphere. <i>Journal of Geophysical Research</i> , 2011 , 116,		98
154	Representation of the Community Earth System Model (CESM1) CAM4-chem within the Chemistry-Climate Model Initiative (CCMI). <i>Geoscientific Model Development</i> , 2016 , 9, 1853-1890	6.3	94
153	A global atmospheric model of meteoric iron. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 9456-9474	4.4	91
152	The Community Earth System Model: A Framework for Collaborative Research. <i>Bulletin of the American Meteorological Society</i> , 130204122247009	6.1	89
151	Long-term middle atmospheric influence of very large solar proton events. <i>Journal of Geophysical Research</i> , 2009 , 114,		87
150	Role of the QBO in modulating the influence of the 11 year solar cycle on the atmosphere using constant forcings. <i>Journal of Geophysical Research</i> , 2010 , 115,		81
149	The Chemistry Mechanism in the Community Earth System Model Version 2 (CESM2). <i>Journal of Advances in Modeling Earth Systems</i> , 2020 , 12, e2019MS001882	7.1	78
148	A global model of meteoric sodium. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 11,442-11,452	4.4	76
147	Empirical model of nitric oxide in the lower thermosphere. <i>Journal of Geophysical Research</i> , 2004 , 109,		76
146	On the distribution of CO ₂ and CO in the mesosphere and lower thermosphere. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 5700-5718	4.4	74
145	The existence of a tertiary ozone maximum in the high-latitude middle mesosphere. <i>Geophysical Research Letters</i> , 2001 , 28, 4531-4534	4.9	73
144	The impact of solar spectral irradiance variability on middle atmospheric ozone. <i>Geophysical Research Letters</i> , 2011 , 38, n/a-n/a	4.9	64

143	SABER observations of the OH Meinel airglow variability near the mesopause. <i>Journal of Geophysical Research</i> , 2006 , 111,		64
142	Northern Hemisphere atmospheric influence of the solar proton events and ground level enhancement in January 2005. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 6153-6166	6.8	60
141	Electron impact ionization: A new parameterization for 100 eV to 1 MeV electrons. <i>Journal of Geophysical Research</i> , 2008 , 113, n/a-n/a		60
140	Attribution of decadal variability in lower-stratospheric tropical ozone. <i>Geophysical Research Letters</i> , 2007 , 34,	4.9	55
139	Quantification of the SF6 lifetime based on mesospheric loss measured in the stratospheric polar vortex. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017 , 122, 4626-4638	4.4	54
138	Processes that account for the ozone maximum at the mesopause. <i>Journal of Geophysical Research</i> , 2005 , 110,		52
137	WACCM-D Whole Atmosphere Community Climate Model with D-region ion chemistry. <i>Journal of Advances in Modeling Earth Systems</i> , 2016 , 8, 954-975	7.1	52
136	The Specified Chemistry Whole Atmosphere Community Climate Model (SC-WACCM). <i>Journal of Advances in Modeling Earth Systems</i> , 2014 , 6, 883-901	7.1	50
135	A climatology of elevated stratopause events in the whole atmosphere community climate model. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 1234-1246	4.4	50
134	Mesospheric ozone response to changes in water vapor. <i>Journal of Geophysical Research</i> , 2003 , 108, n/a-n/a		50
133	Chemical Dynamical Coupling in the Mesosphere and Lower Thermosphere 2011 , 3-17		48
132	On the detection of the solar signal in the tropical stratosphere. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 5251-5269	6.8	47
131	Simulation of energetic particle precipitation effects during the 2003-2004 Arctic winter. <i>Journal of Geophysical Research: Space Physics</i> , 2015 , 120, 5035-5048	2.6	45
130	Whole Atmosphere Simulation of Anthropogenic Climate Change. <i>Geophysical Research Letters</i> , 2018 , 45, 1567-1576	4.9	44
129	Satellite observations of daytime and nighttime ozone in the mesosphere and lower thermosphere. <i>Journal of Geophysical Research</i> , 2003 , 108, n/a-n/a		44
128	Satellite observations of high nighttime ozone at the equatorial mesopause. <i>Journal of Geophysical Research</i> , 2008 , 113,		43
127	High Resolution Doppler Imager observations of ozone in the mesosphere and lower thermosphere. <i>Journal of Geophysical Research</i> , 2002 , 107, ACH 7-1		43
126	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> , 2010 , 115,		42

125	Two-day wave structure and mean flow interactions observed by radar and High Resolution Doppler Imager. <i>Journal of Geophysical Research</i> , 1999 , 104, 3953-3969		42
124	HEPPA-II model-measurement intercomparison project: EPP indirect effects during the dynamically perturbed NH winter 2008-2009. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 3573-3604	6.8	41
123	Inferring the global cosmic dust influx to the Earth's atmosphere from lidar observations of the vertical flux of mesospheric Na. <i>Journal of Geophysical Research: Space Physics</i> , 2014 , 119, 7870-7879	2.6	39
122	Mitigation of 21st century Antarctic sea ice loss by stratospheric ozone recovery. <i>Geophysical Research Letters</i> , 2012 , 39,	4.9	39
121	On the Dynamical Control of the Mesosphere-Lower Thermosphere by the Lower and Middle Atmosphere. <i>Journals of the Atmospheric Sciences</i> , 2017 , 74, 933-947	2.1	38
120	Resolving the strange behavior of extraterrestrial potassium in the upper atmosphere. <i>Geophysical Research Letters</i> , 2014 , 41, 4753-4760	4.9	36
119	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> , 2013 , 118, 11,636-11,646	4.4	36
118	A case study of an elevated stratopause generated in the Whole Atmosphere Community Climate Model. <i>Geophysical Research Letters</i> , 2011 , 38, n/a-n/a	4.9	36
117	Analysis and Hindcast Experiments of the 2009 Sudden Stratospheric Warming in WACCMX+DART. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 3131-3153	2.6	34
116	Wintertime Northern Hemisphere Response in the Stratosphere to the Pacific Decadal Oscillation Using the Whole Atmosphere Community Climate Model. <i>Journal of Climate</i> , 2016 , 29, 1031-1049	4.4	33
115	First Results From the Ionospheric Extension of WACCM-X During the Deep Solar Minimum Year of 2008. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 1534-1553	2.6	32
114	Clear sky UV simulations for the 21st century based on ozone and temperature projections from Chemistry-Climate Models. <i>Atmospheric Chemistry and Physics</i> , 2009 , 9, 1165-1172	6.8	32
113	A link between variability of the semidiurnal tide and planetary waves in the opposite hemisphere. <i>Geophysical Research Letters</i> , 2007 , 34,	4.9	32
112	Delay-line detectors for the UVCS and SUMER instruments on the SOHO Satellite 1994 ,		32
111	Could a future Grand Solar Minimum like the Maunder Minimum stop global warming?. <i>Geophysical Research Letters</i> , 2013 , 40, 1789-1793	4.9	31
110	Interaction of chemical heating and the diurnal tide in the mesosphere. <i>Journal of Geophysical Research</i> , 2003 , 108,		31
109	Polar Ozone Response to Energetic Particle Precipitation Over Decadal Time Scales: The Role of Medium-Energy Electrons. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018 , 123, 607-622	4.4	30
108	Determination of the atmospheric lifetime and global warming potential of sulfur hexafluoride using a three-dimensional model. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 883-898	6.8	30

107	Global investigation of the Mg atom and ion layers using SCIAMACHY/Envisat observations between 70 and 150 km altitude and WACCM-Mg model results. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 273-295	6.8	30
106	The 11 year solar cycle signal in transient simulations from the Whole Atmosphere Community Climate Model. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		30
105	Wintertime water vapor in the polar upper mesosphere and lower thermosphere: First satellite observations by Odin submillimeter radiometer. <i>Journal of Geophysical Research</i> , 2009 , 114,		29
104	Storm-time behaviors of O/N ₂ and NO variations. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2014 , 114, 42-49	2	28
103	Biases in southern hemisphere climate trends induced by coarsely specifying the temporal resolution of stratospheric ozone. <i>Geophysical Research Letters</i> , 2014 , 41, 8602-8610	4.9	28
102	Stratospheric ozone chemistry feedbacks are not critical for the determination of climate sensitivity in CESM1(WACCM). <i>Geophysical Research Letters</i> , 2016 , 43, 3928-3934	4.9	27
101	Atomic hydrogen in the mesopause region derived from SABER: Algorithm theoretical basis, measurement uncertainty, and results. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 3516-3526	4.4	27
100	The importance of time-varying forcing for QBO modulation of the atmospheric 11 year solar cycle signal. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 4435-4447	4.4	27
99	Rocket-borne in situ measurements of meteor smoke: Charging properties and implications for seasonal variation. <i>Journal of Geophysical Research</i> , 2010 , 115,		27
98	Evaluation of heterogeneous processes in the polar lower stratosphere in the Whole Atmosphere Community Climate Model. <i>Journal of Geophysical Research</i> , 2007 , 112,		27
97	WACCM-D Improved modeling of nitric acid and active chlorine during energetic particle precipitation. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016 , 121, 10,328-10,341	4.4	24
96	Mesospheric intrusion and anomalous chemistry during and after a major stratospheric sudden warming. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2012 , 78-79, 116-124	2	24
95	Effect of trends of middle atmosphere gases on the mesosphere and thermosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2013 , 118, 3846-3855	2.6	24
94	Agreement in late twentieth century Southern Hemisphere stratospheric temperature trends in observations and CCMVal-2, CMIP3, and CMIP5 models. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 605-613	4.4	24
93	Spatio-temporal observations of the tertiary ozone maximum. <i>Atmospheric Chemistry and Physics</i> , 2009 , 9, 4439-4445	6.8	24
92	The combined effects of ENSO and the 11 year solar cycle on the Northern Hemisphere polar stratosphere. <i>Journal of Geophysical Research</i> , 2011 , 116, n/a-n/a		23
91	Simulations of the response of mesospheric circulation and temperature to the Antarctic ozone hole. <i>Geophysical Research Letters</i> , 2010 , 37, n/a-n/a	4.9	23
90	A tidal explanation for the sunrise/sunset anomaly in HALOE low-latitude nitric oxide observations. <i>Geophysical Research Letters</i> , 2000 , 27, 3197-3200	4.9	23

89	Seasonal variations of the mesospheric Fe layer at Rothera, Antarctica (67.5°S, 68.0°W). <i>Journal of Geophysical Research</i> , 2011 , 116,		22
88	Ozone perturbation from medium-size asteroid impacts in the ocean. <i>Earth and Planetary Science Letters</i> , 2010 , 299, 263-272	5.3	22
87	Nitric Oxide Response to the April 2010 Electron Precipitation Event: Using WACCM and WACCM-D With and Without Medium-Energy Electrons. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 5232-5245	2.6	21
86	The Response of the Ozone Layer to Quadrupled CO ₂ Concentrations. <i>Journal of Climate</i> , 2018 , 31, 3893-3907	4.1	21
85	Momentum balance and gravity wave forcing in the mesosphere and lower thermosphere. <i>Geophysical Research Letters</i> , 2009 , 36, n/a-n/a	4.9	21
84	On the relationship of polar mesospheric cloud ice water content, particle radius and mesospheric temperature and its use in multi-dimensional models. <i>Atmospheric Chemistry and Physics</i> , 2009 , 9, 8889-8901	6.8	21
83	An Evaluation of the Large-Scale Atmospheric Circulation and Its Variability in CESM2 and Other CMIP Models. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020 , 125, e2020JD032835	4.4	21
82	Whole Atmosphere Climate Change: Dependence on Solar Activity. <i>Journal of Geophysical Research: Space Physics</i> , 2019 , 124, 3799-3809	2.6	20
81	Atmospheric changes caused by galactic cosmic rays over the period 1960-2010. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 5853-5866	6.8	20
80	On the secular trend of CO _x and CO ₂ in the lower thermosphere. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016 , 121, 3634-3644	4.4	19
79	World avoided simulations with the Whole Atmosphere Community Climate Model. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		19
78	Solar Forcing for CMIP6 (v3.1) 2016 ,		19
77	NO _x production due to energetic particle precipitation in the MLT region: Results from ion chemistry model studies. <i>Journal of Geophysical Research: Space Physics</i> , 2014 , 119, 2137-2148	2.6	18
76	Impact of January 2005 solar proton events on chlorine species. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 4159-4179	6.8	17
75	Observations and Modeling of Increased Nitric Oxide in the Antarctic Polar Middle Atmosphere Associated With Geomagnetic Storm-Driven Energetic Electron Precipitation. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 6009-6025	2.6	16
74	Atomic Oxygen Retrieved From the SABER 2.0- and 1.6- μ m Radiances Using New First-Principles Nighttime OH(ν) Model. <i>Geophysical Research Letters</i> , 2018 , 45, 5798-5803	4.9	16
73	Simulation of the 21 August 2017 Solar Eclipse Using the Whole Atmosphere Community Climate Model-eXtended. <i>Geophysical Research Letters</i> , 2018 , 45, 3793-3800	4.9	15
72	Reconciling modeled and observed temperature trends over Antarctica. <i>Geophysical Research Letters</i> , 2012 , 39, n/a-n/a	4.9	15

71	The Role of the Middle Atmosphere in Simulations of the Troposphere during Northern Hemisphere Winter: Differences between High- and Low-Top Models. <i>Journals of the Atmospheric Sciences</i> , 2010 , 67, 3048-3064	2.1	15
70	The representation of solar cycle signals in stratospheric ozone [Part 2]: Analysis of global models. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 11323-11343	6.8	14
69	The Surface-Pressure Signature of Atmospheric Tides in Modern Climate Models. <i>Journals of the Atmospheric Sciences</i> , 2011 , 68, 495-514	2.1	14
68	Temporal Variability of Atomic Hydrogen From the Mesopause to the Upper Thermosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 1006-1017	2.6	13
67	Solar cycle dependence of middle atmosphere temperatures. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 9615-9625	4.4	13
66	Examining the stratospheric response to the solar cycle in a coupled WACCM simulation with an internally generated QBO. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 4843-4856	6.8	12
65	Decreases in atomic hydrogen over the summer pole: Evidence for dehydration from polar mesospheric clouds?. <i>Geophysical Research Letters</i> , 2008 , 35,	4.9	12
64	Atmospheric Effects of >30-keV Energetic Electron Precipitation in the Southern Hemisphere Winter During 2003. <i>Journal of Geophysical Research: Space Physics</i> , 2019 , 124, 8138-8153	2.6	12
63	Production and transport mechanisms of NO in the polar upper mesosphere and lower thermosphere in observations and models. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 9075-9089	6.8	12
62	Future Directions for Whole Atmosphere Modeling: Developments in the Context of Space Weather. <i>Space Weather</i> , 2019 , 17, 1342-1350	3.7	11
61	Atmospheric Tides in the Latest Generation of Climate Models*. <i>Journals of the Atmospheric Sciences</i> , 2014 , 71, 1905-1913	2.1	11
60	Mesospheric Nitric Acid Enhancements During Energetic Electron Precipitation Events Simulated by WACCM-D. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018 , 123, 6984-6998	4.4	11
59	Impacts of a sudden stratospheric warming on the mesospheric metal layers. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2017 , 162, 162-171	2	10
58	The Upper Stratospheric Solar Cycle Ozone Response. <i>Geophysical Research Letters</i> , 2019 , 46, 1831-1841	4.9	10
57	Tidal influences on O2 atmospheric band dayglow: HRDI observations vs. model simulations. <i>Geophysical Research Letters</i> , 1999 , 26, 1369-1372	4.9	10
56	The Multi-Scale Infrastructure for Chemistry and Aerosols (MUSICA). <i>Bulletin of the American Meteorological Society</i> , 2020 , 101, E1743-E1760	6.1	10
55	Solar cycle response and long-term trends in the mesospheric metal layers. <i>Journal of Geophysical Research: Space Physics</i> , 2016 , 121, 7153-7165	2.6	10
54	Solar Cycle Variability of Nonmigrating Tides in the 5.3 and 15 μ m Infrared Cooling of the Thermosphere (100–50 km) from SABER. <i>Journal of Geophysical Research: Space Physics</i> , 2019 , 124, 2338-2356	2.6	9

53	Relative Importance of Nitric Oxide Physical Drivers in the Lower Thermosphere. <i>Geophysical Research Letters</i> , 2017 , 44, 10,081	4.9	9
52	Diurnal variation of the potassium layer in the upper atmosphere. <i>Geophysical Research Letters</i> , 2015 , 42, 3619-3626	4.9	9
51	Mesospheric temperatures and sodium properties measured with the ALOMAR Na lidar compared with WACCM. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2015 , 127, 111-119	2	9
50	Response of the mesosphere-thermosphere-ionosphere system to global change - CAUSES-II contribution. <i>Progress in Earth and Planetary Science</i> , 2014 , 1,	3.9	9
49	TIME-GCM simulations of lower-thermospheric nitric oxide seen by the halogen occultation experiment. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2002 , 64, 889-895	2	9
48	Simulated solar cycle effects on the middle atmosphere: WACCM3 Versus WACCM4. <i>Journal of Advances in Modeling Earth Systems</i> , 2015 , 7, 806-822	7.1	8
47	Middle atmosphere summer duration as an indicator of long-term circulation changes. <i>Advances in Space Research</i> , 2005 , 35, 1416-1422	2.4	8
46	Composition changes after the "Halloween" solar proton event: the High-Energy Particle Precipitation in the Atmosphere (HEPPA) model versus MIPAS data intercomparison study		7
45	&i&D&-region ion&neutral coupled chemistry (Sodankyl&Ion Chemistry, SIC) within the Whole Atmosphere Community Climate Model (WACCM 4) [WACCM-SIC and WACCM-rSIC. <i>Geoscientific Model Development</i> , 2016 , 9, 3123-3136	6.3	7
44	Interhemispheric transport of metallic ions within ionospheric sporadic &E& layers by the lower thermospheric meridional circulation. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 4219-4230	6.8	7
43	Climatology of mesopause region nocturnal temperature, zonal wind and sodium density observed by sodium lidar over Hefei, China (32&N, 117&E). <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 11683-11695	6.8	7
42	Error growth in the Mesosphere and Lower Thermosphere Based on Hindcast Experiments in a Whole Atmosphere Model. <i>Space Weather</i> , 2019 , 17, 1442-1460	3.7	6
41	The response of the ozone layer to quadrupled CO concentrations. <i>Journal of Climate</i> , 2019 , 32, 7629-7642	4.2	6
40	On the relative roles of dynamics and chemistry governing the abundance and diurnal variation of low-latitude thermospheric nitric oxide. <i>Annales Geophysicae</i> , 2019 , 37, 37-48	2	6
39	Comparison of global datasets of sodium densities in the mesosphere and lower thermosphere from GOMOS, SCIAMACHY and OSIRIS measurements and WACCM model simulations from 2008 to 2012. <i>Atmospheric Measurement Techniques</i> , 2017 , 10, 2989-3006	4	6
38	Effects of the September 2005 Solar Flares and Solar Proton Events on the Middle Atmosphere in WACCM. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 5747-5763	2.6	6
37	Estimating the Impacts of Radiation Belt Electrons on Atmospheric Chemistry Using FIREBIRD II and Van Allen Probes Observations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021 , 126, e2020JD033098	4.4	6
36	Role Of the Sun and the Middle atmosphere/thermosphere/ionosphere In Climate (ROSMIC): a retrospective and prospective view. <i>Progress in Earth and Planetary Science</i> , 2021 , 8,	3.9	6

35	Will Climate Change Impact Polar NO _x Produced by Energetic Particle Precipitation?. <i>Geophysical Research Letters</i> , 2020 , 47, e2020GL087041	4.9	5
34	Statistical response of middle atmosphere composition to solar proton events in WACCM-D simulations: the importance of lower ionospheric chemistry. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 8923-8938	6.8	5
33	Global investigation of the Mg atom and ion layers using SCIAMACHY/Envisat observations between 70 km and 150 km altitude and WACCM-Mg model results		5
32	Short- and medium-term atmospheric effects of very large solar proton events		5
31	Progress on high-efficiency photocathodes for soft x-ray, EUV, and FUV photon detection 1993 ,		4
30	Magnetic-local-time dependency of radiation belt electron precipitation: impact on ozone in the polar middle atmosphere. <i>Annales Geophysicae</i> , 2020 , 38, 833-844	2	4
29	SABER Observations of Daytime Atomic Oxygen and Ozone Variability in the Mesosphere 2011 , 75-82		4
28	Termination of Solar Cycles and Correlated Tropospheric Variability. <i>Earth and Space Science</i> , 2021 , 8, e2020EA001223	3.1	4
27	Production and transport mechanisms of NO in observations and models 2018 ,		4
26	Understanding the Effects of Polar Mesospheric Clouds on the Environment of the Upper Mesosphere and Lower Thermosphere. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018 , 123, 11,705-11,719	4.4	4
25	The 27-Day Solar Rotational Cycle Response in the Mesospheric Metal Layers at Low Latitudes. <i>Geophysical Research Letters</i> , 2019 , 46, 7199-7206	4.9	3
24	Photochemistry on the bottom side of the mesospheric Na layer. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 3769-3777	6.8	3
23	The representation of solar cycle signals in stratospheric ozone. Part II: Analysis of global models 2017 ,		3
22	Predictability of variable solar-terrestrial coupling. <i>Annales Geophysicae</i> , 2021 , 39, 1013-1035	2	3
21	On the detection of the solar signal in the tropical stratosphere		3
20	Atmospheric changes caused by galactic cosmic rays over the period 1960-2010		3
19	WACCM simulations: Decadal winter-to-spring climate impact on middle atmosphere and troposphere from medium energy electron precipitation. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2020 , 209, 105382	2	3
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4	A revised lower estimate of ozone columns during Earth's oxygenated history.. <i>Royal Society Open Science</i> , 2022 , 9, 211165	3.3	1
3	Northern Hemisphere atmospheric influence of the solar proton events and ground level enhancement in January 2005		1
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