

# R R Garcia

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

144  
papers

11,741  
citations

55  
h-index

107  
g-index

179  
ext. papers

13,217  
ext. citations

6.4  
avg, IF

6.13  
L-index

#	Paper	IF	Citations
144	Impact of Increased Vertical Resolution in WACCM on the Climatology of Major Sudden Stratospheric Warmings. <i>Atmosphere</i> , <b>2022</b> , 13, 546	2.7	0
143	Tropical Stratospheric Circulation and Ozone Coupled to Pacific Multi-Decadal Variability. <i>Geophysical Research Letters</i> , <b>2021</b> , 48, e2020GL092162	4.9	3
142	On the response of the middle atmosphere to anthropogenic forcing. <i>Annals of the New York Academy of Sciences</i> , <b>2021</b> , 1504, 25-43	6.5	0
141	Atmospheric Chemistry Signatures of an Equatorially Symmetric Matsuno-Gill Circulation Pattern. <i>Journals of the Atmospheric Sciences</i> , <b>2021</b> , 78, 107-116	2.1	
140	Upward transport into and within the Asian monsoon anticyclone as inferred from StratoClim trace gas observations. <i>Atmospheric Chemistry and Physics</i> , <b>2021</b> , 21, 1267-1285	6.8	12
139	The Montreal Protocol protects the terrestrial carbon sink. <i>Nature</i> , <b>2021</b> , 596, 384-388	50.4	12
138	The Brewer-Dobson circulation in CMIP6. <i>Atmospheric Chemistry and Physics</i> , <b>2021</b> , 21, 13571-13591	6.8	7
137	Long-Term Variability and Tendencies in Middle Atmosphere Temperature and Zonal Wind From WACCM6 Simulations During 1850-2014. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2020</b> , 125, e2020JD033579	4.4	1
136	An evaluation of tropical waves and wave forcing of the QBO in the QBOi models. <i>Quarterly Journal of the Royal Meteorological Society</i> , <b>2020</b> ,	6.4	14
135	The Community Earth System Model Version 2 (CESM2). <i>Journal of Advances in Modeling Earth Systems</i> , <b>2020</b> , 12, e2019MS001916	7.1	358
134	Future trends in stratosphere-to-troposphere transport in CCM1 models. <i>Atmospheric Chemistry and Physics</i> , <b>2020</b> , 20, 6883-6901	6.8	4
133	Evaluation of the Quasi-Biennial Oscillation in global climate models for the SPARC QBO-initiative. <i>Quarterly Journal of the Royal Meteorological Society</i> , <b>2020</b> ,	6.4	19
132	Causes and Climatic Consequences of the Impact Winter at the Cretaceous-Paleogene Boundary. <i>Geophysical Research Letters</i> , <b>2020</b> , 47, e60121	4.9	13
131	Response of the Quasi-Biennial Oscillation to a warming climate in global climate models. <i>Quarterly Journal of the Royal Meteorological Society</i> , <b>2020</b> ,	6.4	19
130	The Chemistry Mechanism in the Community Earth System Model Version 2 (CESM2). <i>Journal of Advances in Modeling Earth Systems</i> , <b>2020</b> , 12, e2019MS001882	7.1	78
129	Role of equatorial waves and convective gravity waves in the 2015/16 quasi-biennial oscillation disruption. <i>Atmospheric Chemistry and Physics</i> , <b>2020</b> , 20, 14669-14693	6.8	6
128	The equatorial stratospheric semiannual oscillation and time-mean winds in QBOi models. <i>Quarterly Journal of the Royal Meteorological Society</i> , <b>2020</b> ,	6.4	7

127	Long-Term Variability and Tendencies in Migrating Diurnal Tide From WACCM6 Simulations During 1850-2014. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2020</b> , 125, e2020JD033644	4.4	2
126	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> , <b>2020</b> , 125, e2020JD032835	4.4	21
125	The Whole Atmosphere Community Climate Model Version 6 (WACCM6). <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2019</b> , 124, 12380-12403	4.4	126
124	100 Years of Progress in Understanding the Stratosphere and Mesosphere. <i>Meteorological Monographs</i> , <b>2019</b> , 59, 27.1-27.62	5.7	22
123	Future trends in stratosphere-to-troposphere transport in CCM1 models <b>2019</b> ,		1
122	The influence of mixing on stratospheric age of air changes in the 21st century. <i>Atmospheric Chemistry and Physics</i> , <b>2019</b> , 19, 921-940	6.8	17
121	Middle Atmosphere Temperature Trends in the Twentieth and Twenty-First Centuries Simulated With the Whole Atmosphere Community Climate Model (WACCM). <i>Journal of Geophysical Research: Space Physics</i> , <b>2019</b> , 124, 7984-7993	2.6	16
120	The effect of atmospheric nudging on the stratospheric residual circulation in chemistry-climate models. <i>Atmospheric Chemistry and Physics</i> , <b>2019</b> , 19, 11559-11586	6.8	15
119	Increasing Water Vapor in the Stratosphere and Mesosphere After 2002. <i>Geophysical Research Letters</i> , <b>2019</b> , 46, 13452-13460	4.9	12
118	On the Momentum Budget of the Quasi-Biennial Oscillation in the Whole Atmosphere Community Climate Model. <i>Journals of the Atmospheric Sciences</i> , <b>2019</b> , 76, 69-87	2.1	34
117	Assessing the ability to derive rates of polar middle-atmospheric descent using trace gas measurements from remote sensors. <i>Atmospheric Chemistry and Physics</i> , <b>2018</b> , 18, 1457-1474	6.8	14
116	Significant Weakening of Brewer-Dobson Circulation Trends Over the 21st Century as a Consequence of the Montreal Protocol. <i>Geophysical Research Letters</i> , <b>2018</b> , 45, 401-409	4.9	42
115	Ozone sensitivity to varying greenhouse gases and ozone-depleting substances in CCM1-1 simulations. <i>Atmospheric Chemistry and Physics</i> , <b>2018</b> , 18, 1091-1114	6.8	37
114	Quantifying the effect of mixing on the mean age of air in CCMVal-2 and CCM1-1 models. <i>Atmospheric Chemistry and Physics</i> , <b>2018</b> , 18, 6699-6720	6.8	23
113	Response of Arctic ozone to sudden stratospheric warmings. <i>Atmospheric Chemistry and Physics</i> , <b>2018</b> , 18, 16499-16513	6.8	17
112	Effects of Different Stratospheric SO <sub>2</sub> Injection Altitudes on Stratospheric Chemistry and Dynamics. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2018</b> , 123, 4654-4673	4.4	37
111	Overview of experiment design and comparison of models participating in phase 1 of the SPARC Quasi-Biennial Oscillation initiative (QBOi). <i>Geoscientific Model Development</i> , <b>2018</b> , 11, 1009-1032	6.3	57
110	On Long-Term SABER CO <sub>2</sub> Trends and Effects Due to Nonuniform Space and Time Sampling. <i>Journal of Geophysical Research: Space Physics</i> , <b>2018</b> , 123, 7958-7967	2.6	11

109	Revisiting Southern Hemisphere polar stratospheric temperature trends in WACCM: The role of dynamical forcing. <i>Geophysical Research Letters</i> , <b>2017</b> , 44, 3402-3410	4.9	11
108	Variations of global gravity waves derived from 14 years of SABER temperature observations. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2017</b> , 122, 6231-6249	4.4	33
107	The Semiannual Oscillation of the Tropical Zonal Wind in the Middle Atmosphere Derived from Satellite Geopotential Height Retrievals. <i>Journals of the Atmospheric Sciences</i> , <b>2017</b> , 74, 2413-2425	2.1	22
106	Overview of experiment design and comparison of models participating in phase 1 of the SPARC Quasi-Biennial Oscillation initiative (QBOi) <b>2017</b> ,		1
105	Ozone sensitivity to varying greenhouse gases and ozone-depleting substances in CCMI simulations <b>2017</b> ,		2
104	Mirrored changes in Antarctic ozone and stratospheric temperature in the late 20th versus early 21st centuries. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2017</b> , 122, 8940-8950	4.4	26
103	On transient climate change at the Cretaceous-Paleogene boundary due to atmospheric soot injections. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, E7415-E7424	11.5	53
102	Validation of the MIPAS CO <sub>2</sub> volume mixing ratio in the mesosphere and lower thermosphere and comparison with WACCM simulations. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2017</b> , 122, 8345-8366	4.4	10
101	Using the Artificial Tracer e90 to Examine Present and Future UTLS Tracer Transport in WACCM. <i>Journals of the Atmospheric Sciences</i> , <b>2017</b> , 74, 3383-3403	2.1	21
100	Sensitivity of Sudden Stratospheric Warmings to Previous Stratospheric Conditions. <i>Journals of the Atmospheric Sciences</i> , <b>2017</b> , 74, 2857-2877	2.1	44
99	Modification of the Gravity Wave Parameterization in the Whole Atmosphere Community Climate Model: Motivation and Results. <i>Journals of the Atmospheric Sciences</i> , <b>2017</b> , 74, 275-291	2.1	134
98	Determination of the atmospheric lifetime and global warming potential of sulfur hexafluoride using a three-dimensional model. <i>Atmospheric Chemistry and Physics</i> , <b>2017</b> , 17, 883-898	6.8	30
97	Review of the global models used within phase 1 of the Chemistry Climate Model Initiative (CCMI). <i>Geoscientific Model Development</i> , <b>2017</b> , 10, 639-671	6.3	211
96	On the composite response of the MLT to major sudden stratospheric warming events with elevated stratopause. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2016</b> , 121, 4518-4537	4.4	61
95	The 11 year solar cycle signature on wave-driven dynamics in WACCM. <i>Journal of Geophysical Research: Space Physics</i> , <b>2016</b> , 121, 3484-3496	2.6	11
94	On the secular trend of CO <sub>x</sub> and CO <sub>2</sub> in the lower thermosphere. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2016</b> , 121, 3634-3644	4.4	19
93	Designing global climate and atmospheric chemistry simulations for 1 and 10 km diameter asteroid impacts using the properties of ejecta from the K-Pg impact. <i>Atmospheric Chemistry and Physics</i> , <b>2016</b> , 16, 13185-13212	6.8	18
92	Diagnosis of Middle-Atmosphere Climate Sensitivity by the Climate Feedback Response Analysis Method. <i>Journals of the Atmospheric Sciences</i> , <b>2016</b> , 73, 3-23	2.1	3

91	The Importance of the Montreal Protocol in Mitigating the Potential Intensity of Tropical Cyclones. <i>Journal of Climate</i> , <b>2016</b> , 29, 2275-2289	4.4	12
90	Review of the global models used within the Chemistry-Climate Model Initiative (CCMI) <b>2016</b> ,		4
89	Representation of the Community Earth System Model (CESM1) CAM4-chem within the Chemistry-Climate Model Initiative (CCMI). <i>Geoscientific Model Development</i> , <b>2016</b> , 9, 1853-1890	6.3	94
88	Monsoon circulations and tropical heterogeneous chlorine chemistry in the stratosphere. <i>Geophysical Research Letters</i> , <b>2016</b> , 43, 12,624	4.9	17
87	Validation of the global distribution of CO2 volume mixing ratio in the mesosphere and lower thermosphere from SABER. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2015</b> , 120, 12,067	4.4	24
86	Increasing carbon dioxide concentration in the upper atmosphere observed by SABER. <i>Geophysical Research Letters</i> , <b>2015</b> , 42, 7194-7199	4.9	28
85	Simulation of polar ozone depletion: An update. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2015</b> , 120, 7958-7974	4.4	110
84	On the distribution of CO2 and CO in the mesosphere and lower thermosphere. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2014</b> , 119, 5700-5718	4.4	74
83	Future Changes in the BrewerDobson Circulation under Different Greenhouse Gas Concentrations in WACCM4. <i>Journals of the Atmospheric Sciences</i> , <b>2014</b> , 71, 2962-2975	2.1	14
82	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> , <b>2013</b> , 118, 4435-4447	4.4	27
81	Secondary planetary waves in the middle and upper atmosphere following the stratospheric sudden warming event of January 2012. <i>Geophysical Research Letters</i> , <b>2013</b> , 40, 1861-1867	4.9	71
80	The lower thermosphere during the northern hemisphere winter of 2009: A modeling study using high-altitude data assimilation products in WACCM-X. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2013</b> , 118, 8954-8968	4.4	51
79	A climatology of elevated stratopause events in the whole atmosphere community climate model. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2013</b> , 118, 1234-1246	4.4	50
78	Simulation of polar stratospheric clouds in the specified dynamics version of the whole atmosphere community climate model. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2013</b> , 118, 4991-5002	4.4	41
77	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
76	Climatology and characteristics of stratospheric sudden warmings in the Whole Atmosphere Community Climate Model. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a		44
75	Reconciling modeled and observed temperature trends over Antarctica. <i>Geophysical Research Letters</i> , <b>2012</b> , 39, n/a-n/a	4.9	15
74	World avoided simulations with the Whole Atmosphere Community Climate Model. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a		19

73	Impact of very short-lived halogens on stratospheric ozone abundance and UV radiation in a geo-engineered atmosphere. <i>Atmospheric Chemistry and Physics</i> , <b>2012</b> , 12, 10945-10955	6.8	48
72	CO at 4080 km above Kiruna observed by the ground-based microwave radiometer KIMRA and simulated by the Whole Atmosphere Community Climate Model. <i>Atmospheric Chemistry and Physics</i> , <b>2012</b> , 12, 3261-3271	6.8	17
71	A case study of an elevated stratopause generated in the Whole Atmosphere Community Climate Model. <i>Geophysical Research Letters</i> , <b>2011</b> , 38, n/a-n/a	4.9	36
70	Multimodel climate and variability of the stratosphere. <i>Journal of Geophysical Research</i> , <b>2011</b> , 116,		122
69	Improved predictability of the troposphere using stratospheric final warmings. <i>Journal of Geophysical Research</i> , <b>2011</b> , 116,		54
68	WACCM simulations of the mean circulation and trace species transport in the winter mesosphere. <i>Journal of Geophysical Research</i> , <b>2011</b> , 116,		98
67	Attribution of observed changes in stratospheric ozone and temperature. <i>Atmospheric Chemistry and Physics</i> , <b>2011</b> , 11, 599-609	6.8	34
66	On the Determination of Age of Air Trends from Atmospheric Trace Species. <i>Journals of the Atmospheric Sciences</i> , <b>2011</b> , 68, 139-154	2.1	70
65	Decline and recovery of total column ozone using a multimodel time series analysis. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115,		64
64	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> , <b>2010</b> , 67, 3048-3064	2.1	15
63	Dynamical Mechanism for the Increase in Tropical Upwelling in the Lowermost Tropical Stratosphere during Warm ENSO Events. <i>Journals of the Atmospheric Sciences</i> , <b>2010</b> , 67, 2331-2340	2.1	124
62	Influences of the Indian Summer Monsoon on Water Vapor and Ozone Concentrations in the UTLS as Simulated by ChemistryClimate Models. <i>Journal of Climate</i> , <b>2010</b> , 23, 3525-3544	4.4	13
61	ChemistryClimate Model Simulations of Twenty-First Century Stratospheric Climate and Circulation Changes. <i>Journal of Climate</i> , <b>2010</b> , 23, 5349-5374	4.4	242
60	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> , <b>2010</b> , 115,		81
59	Anthropogenic forcing of the Northern Annular Mode in CCMVal-2 models. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115,		31
58	Stratosphere-troposphere coupling and annular mode variability in chemistry-climate models. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115,		96
57	Simulations of the response of mesospheric circulation and temperature to the Antarctic ozone hole. <i>Geophysical Research Letters</i> , <b>2010</b> , 37, n/a-n/a	4.9	23
56	Impact of stratospheric ozone on Southern Hemisphere circulation change: A multimodel assessment. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115,		239

55	Toward a Physically Based Gravity Wave Source Parameterization in a General Circulation Model. <i>Journals of the Atmospheric Sciences</i> , <b>2010</b> , 67, 136-156	2.1	300
54	The potential to narrow uncertainty in projections of stratospheric ozone over the 21st century. <i>Atmospheric Chemistry and Physics</i> , <b>2010</b> , 10, 9473-9486	6.8	20
53	Thermosphere extension of the Whole Atmosphere Community Climate Model. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115, n/a-n/a		113
52	Error Growth in a Whole Atmosphere Climate Model. <i>Journals of the Atmospheric Sciences</i> , <b>2009</b> , 66, 173-186	2.1	35
51	Wave Forcing of the Tropical Upwelling in the Lower Stratosphere under Increasing Concentrations of Greenhouse Gases. <i>Journals of the Atmospheric Sciences</i> , <b>2009</b> , 66, 3184-3196	2.1	34
50	The Impact of Stratospheric Ozone Recovery on Tropopause Height Trends. <i>Journal of Climate</i> , <b>2009</b> , 22, 429-445	4.4	58
49	Coupled chemistry climate model simulations of stratospheric temperatures and their trends for the recent past. <i>Geophysical Research Letters</i> , <b>2009</b> , 36,	4.9	26
48	ENSO influence on zonal mean temperature and ozone in the tropical lower stratosphere. <i>Geophysical Research Letters</i> , <b>2009</b> , 36, n/a-n/a	4.9	144
47	Long-term middle atmospheric influence of very large solar proton events. <i>Journal of Geophysical Research</i> , <b>2009</b> , 114,		87
46	Impact of geoengineered aerosols on the troposphere and stratosphere. <i>Journal of Geophysical Research</i> , <b>2009</b> , 114,		125
45	Climatology of mesopause region temperature, zonal wind, and meridional wind over Fort Collins, Colorado (41°N, 105°W), and comparison with model simulations. <i>Journal of Geophysical Research</i> , <b>2008</b> , 113,		34
44	Dynamics of the middle atmosphere as simulated by the Whole Atmosphere Community Climate Model, version 3 (WACCM3). <i>Journal of Geophysical Research</i> , <b>2008</b> , 113,		56
43	Forcing mechanism of the seasonally asymmetric quasi-biennial oscillation secondary circulation in ERA-40 and MAECHAM5. <i>Journal of Geophysical Research</i> , <b>2008</b> , 113,		9
42	Acceleration of the BrewerDobson Circulation due to Increases in Greenhouse Gases. <i>Journals of the Atmospheric Sciences</i> , <b>2008</b> , 65, 2731-2739	2.1	257
41	Dynamical Balances and Tropical Stratospheric Upwelling. <i>Journals of the Atmospheric Sciences</i> , <b>2008</b> , 65, 3584-3595	2.1	85
40	Massive global ozone loss predicted following regional nuclear conflict. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2008</b> , 105, 5307-12	11.5	92
39	The impact of stratospheric ozone recovery on the Southern Hemisphere westerly jet. <i>Science</i> , <b>2008</b> , 320, 1486-9	33.3	260
38	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

37	Structure of the migrating diurnal tide in the Whole Atmosphere Community Climate Model (WACCM). <i>Advances in Space Research</i> , <b>2008</b> , 41, 1398-1407	2.4	40
36	The ENSO signal in the stratosphere. <i>Annals of the New York Academy of Sciences</i> , <b>2008</b> , 1146, 16-31	6.5	14
35	Simulation of secular trends in the middle atmosphere, 1950-2003. <i>Journal of Geophysical Research</i> , <b>2007</b> , 112,		547
34	A set of diagnostics for evaluating chemistry-climate models in the extratropical tropopause region. <i>Journal of Geophysical Research</i> , <b>2007</b> , 112,		46
33	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
32	Modeling the whole atmosphere response to solar cycle changes in radiative and geomagnetic forcing. <i>Journal of Geophysical Research</i> , <b>2007</b> , 112,		209
31	Multimodel projections of stratospheric ozone in the 21st century. <i>Journal of Geophysical Research</i> , <b>2007</b> , 112,		266
30	Evaluation of heterogeneous processes in the polar lower stratosphere in the Whole Atmosphere Community Climate Model. <i>Journal of Geophysical Research</i> , <b>2007</b> , 112,		27
29	Attribution of decadal variability in lower-stratospheric tropical ozone. <i>Geophysical Research Letters</i> , <b>2007</b> , 34,	4.9	55
28	Observations of intermediate-scale diurnal waves in the equatorial mesosphere and lower thermosphere. <i>Journal of Geophysical Research</i> , <b>2006</b> , 111,		4
27	Propagation of ENSO temperature signals into the middle atmosphere: A comparison of two general circulation models and ERA-40 reanalysis data. <i>Journal of Geophysical Research</i> , <b>2006</b> , 111,		159
26	Assessment of temperature, trace species, and ozone in chemistry-climate model simulations of the recent past. <i>Journal of Geophysical Research</i> , <b>2006</b> , 111,		374
25	Implementation of a gravity wave source spectrum parameterization dependent on the properties of convection in the Whole Atmosphere Community Climate Model (WACCM). <i>Journal of Geophysical Research</i> , <b>2005</b> , 110,		99
24	Large-Scale Waves in the Mesosphere and Lower Thermosphere Observed by SABER. <i>Journals of the Atmospheric Sciences</i> , <b>2005</b> , 62, 4384-4399	2.1	114
23	Effect of El Niño/Southern Oscillation on the dynamical, thermal, and chemical structure of the middle atmosphere. <i>Journal of Geophysical Research</i> , <b>2004</b> , 109,		226
22	Analysis of the ENSO Signal in Tropospheric and Stratospheric Temperatures Observed by MSU, 1979-2000. <i>Journal of Climate</i> , <b>2004</b> , 17, 3934-3946	4.4	56
21	Longest continuous ground-based measurements of mesospheric CO. <i>Geophysical Research Letters</i> , <b>2003</b> , 30, n/a-n/a	4.9	30
20	On temperature inversions and the mesospheric surf zone. <i>Journal of Geophysical Research</i> , <b>2002</b> , 107, ACL 8-1		118



19	Time-Dependent Upwelling in the Tropical Lower Stratosphere Estimated from the Zonal-Mean Momentum Budget. <i>Journals of the Atmospheric Sciences</i> , <b>2002</b> , 59, 2141-2152	2.1	112
18	A review of CO <sub>2</sub> and CO abundances in the middle atmosphere. <i>Geophysical Monograph Series</i> , <b>2000</b> , 83-100	1.1	36
17	A detailed evaluation of the stratospheric heat budget: 2. Global radiation balance and diabatic circulations. <i>Journal of Geophysical Research</i> , <b>1999</b> , 104, 6039-6066		42
16	Climatology of the semiannual oscillation of the tropical middle atmosphere. <i>Journal of Geophysical Research</i> , <b>1997</b> , 102, 26019-26032		199
15	Role of aerosol variations in anthropogenic ozone depletion in the polar regions. <i>Journal of Geophysical Research</i> , <b>1996</b> , 101, 22991-23006		111
14	Downward Control of the Mean Meridional Circulation and Temperature Distribution of the Polar Winter Stratosphere. <i>Journals of the Atmospheric Sciences</i> , <b>1994</b> , 51, 2238-2245	2.1	182
13	Parameterization of Planetary Wave Breaking in the Middle Atmosphere. <i>Journals of the Atmospheric Sciences</i> , <b>1991</b> , 48, 1405-1419	2.1	82
12	Tracer Transport by the Diabatic Circulation Deduced from Satellite Observations. <i>Journals of the Atmospheric Sciences</i> , <b>1986</b> , 43, 1603-1617	2.1	106
11	On the depletion of Antarctic ozone. <i>Nature</i> , <b>1986</b> , 321, 755-758	50.4	1161
10	Photochemistry and Transport of Carbon Monoxide in the Middle Atmosphere. <i>Journals of the Atmospheric Sciences</i> , <b>1985</b> , 42, 1072-1083	2.1	97
9	The effect of breaking gravity waves on the dynamics and chemical composition of the mesosphere and lower thermosphere. <i>Journal of Geophysical Research</i> , <b>1985</b> , 90, 3850		645
8	A numerical model of the zonally averaged dynamical and chemical structure of the middle atmosphere. <i>Journal of Geophysical Research</i> , <b>1983</b> , 88, 1379		326
7	The Role of Planetary Waves in the Maintenance of the Zonally Averaged Ozone Distribution of the Upper Stratosphere. <i>Journals of the Atmospheric Sciences</i> , <b>1980</b> , 37, 2248-2264	2.1	28
6	A Mechanistic Model of Ozone Transport by Planetary Waves in the Stratosphere. <i>Journals of the Atmospheric Sciences</i> , <b>1979</b> , 36, 350-364	2.1	76
5	CO at 4080 km above Kiruna observed by the ground-based microwave radiometer KIMRA and simulated by the whole atmosphere community climate model		1
4	Short- and medium-term atmospheric effects of very large solar proton events		5
3	Representation of the Community Earth System Model (CESM1) CAM4-chem within the Chemistry-Climate Model Initiative (CCMI)		2
2	Impact of very short-lived halogens on stratospheric ozone abundance and UV radiation in a geo-engineered atmosphere		1

- 1 Teleconnections of the Quasi-Biennial Oscillation in a multi-model ensemble of QBO-resolving models. *Quarterly Journal of the Royal Meteorological Society*,

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