

# Steven Pawson

## 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.

182  
papers

16,082  
citations

53  
h-index

125  
g-index

201  
ext. papers

18,346  
ext. citations

4.8  
avg, IF

5.86  
L-index

#	Paper	IF	Citations
182	Regional impacts of COVID-19 on carbon dioxide detected worldwide from space. <i>Science Advances</i> , <b>2021</b> , 7, eabf9415	14.3	10
181	Grid-stretching capability for the GEOS-Chem 13.0.0 atmospheric chemistry model. <i>Geoscientific Model Development</i> , <b>2021</b> , 14, 5977-5997	6.3	0
180	Description of the NASA GEOS Composition Forecast Modeling System GEOS-CF v1.0. <i>Journal of Advances in Modeling Earth Systems</i> , <b>2021</b> , 13, e2020MS002413	7.1	11
179	Bias-correcting carbon fluxes derived from land-surface satellite data for retrospective and near-real-time assimilation systems. <i>Atmospheric Chemistry and Physics</i> , <b>2021</b> , 21, 9609-9628	6.8	6
178	Global impact of COVID-19 restrictions on the surface concentrations of nitrogen dioxide and ozone. <i>Atmospheric Chemistry and Physics</i> , <b>2021</b> , 21, 3555-3592	6.8	41
177	Impacts of the Eruption of Mount Pinatubo on Surface Temperatures and Precipitation Forecasts With the NASA GEOS Subseasonal-to-Seasonal System. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2021</b> , 126, e2021JD034830	4.4	1
176	Augmenting the Standard Operating Procedures of Health and Air Quality Stakeholders With NASA Resources. <i>GeoHealth</i> , <b>2021</b> , 5, e2021GH000451	5	1
175	Seasonality in Prediction Skill of the Madden-Julian Oscillation and Associated Dynamics in Version 2 of NASA's GEOS-S2S Forecast System. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2021</b> , 126, e2021JD034961	4.4	9
174	The impacts of fossil fuel emission uncertainties and accounting for 3-D chemical CO <sub>2</sub> production on inverse natural carbon flux estimates from satellite and in situ data. <i>Environmental Research Letters</i> , <b>2020</b> , 15, 085002	6.2	1
173	Mechanisms Linked to Recent Ozone Decreases in the Northern Hemisphere Lower Stratosphere. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2020</b> , 125, e2019JD031631	4.4	10
172	GEOS-S2S Version 2: The GMAO High Resolution Coupled Model and Assimilation System for Seasonal Prediction. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2020</b> , 125, e2019JD031767	4.4	34
171	Seasonal Variation of the Quasi-Biennial Oscillation Descent. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2020</b> , 125, e2020JD033077	4.4	2
170	Toward a Reanalysis of Stratospheric Ozone for Trend Studies: Assimilation of the Aura Microwave Limb Sounder and Ozone Mapping and Profiler Suite Limb Profiler Data. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2020</b> , 125, e2019JD031892	4.4	4
169	Air Pollution Monitoring for Health Research and Patient Care. An Official American Thoracic Society Workshop Report. <i>Annals of the American Thoracic Society</i> , <b>2019</b> , 16, 1207-1214	4.7	16
168	Global Assimilation of Loon Stratospheric Balloon Observations. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2019</b> , 124, 3005-3019	4.4	4
167	Effects of Greenhouse Gas Increase and Stratospheric Ozone Depletion on Stratospheric Mean Age of Air in 1960-2010. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2018</b> , 123, 2098-2110	4.4	11
166	The impact of SST-forced and unforced teleconnections on 2015/16 El Niño winter precipitation over the western United States. <i>Journal of Climate</i> , <b>2018</b> , 31, 5825-5844	4.4	6

165	Nonlinear response of tropical lower stratospheric temperature and water vapor to ENSO. <i>Atmospheric Chemistry and Physics</i> , <b>2018</b> , 18, 4597-4615	6.8	26
164	Global simulation of tropospheric chemistry at 12.5 km resolution: performance and evaluation of the GEOS-Chem chemical module (v10-1) within the NASA GEOS Earth System Model (GEOS-5 ESM) <b>2018</b> ,		1
163	Global simulation of tropospheric chemistry at 12.5 km resolution: performance and evaluation of the GEOS-Chem chemical module (v10-1) within the NASA GEOS Earth system model (GEOS-5 ESM). <i>Geoscientific Model Development</i> , <b>2018</b> , 11, 4603-4620	6.3	36
162	The Roles of Climate Change and Climate Variability in the 2017 Atlantic Hurricane Season. <i>Scientific Reports</i> , <b>2018</b> , 8, 16172	4.9	22
161	Recent decline in extratropical lower stratospheric ozone attributed to circulation changes. <i>Geophysical Research Letters</i> , <b>2018</b> , 45, 5166-5176	4.9	45
160	Evaluation of the Ozone Fields in NASA's MERRA-2 Reanalysis. <i>Journal of Climate</i> , <b>2017</b> , 30, 2961-2988	4.4	79
159	Dynamics of the Disrupted 2015-16 Quasi-Biennial Oscillation. <i>Journal of Climate</i> , <b>2017</b> , 30, 5661-5674	4.4	43
158	The Modern-Era Retrospective Analysis for Research and Applications, Version 2 (MERRA-2). <i>Journal of Climate</i> , <b>2017</b> , Volume 30, 5419-5454	4.4	2815
157	The 2015/2016 El Niño Event in Context of the MERRA-2 Reanalysis: A Comparison of the Tropical Pacific with 1982/1983 and 1997/1998. <i>Journal of Climate</i> , <b>2017</b> , 30, 4819-4842	4.4	37
156	An evaluation of gravity waves and gravity wave sources in the Southern Hemisphere in a 7 km global climate simulation. <i>Quarterly Journal of the Royal Meteorological Society</i> , <b>2017</b> , 143, 2481-2495	6.4	27
155	Reanalysis comparisons of upper tropospheric/lower stratospheric jets and multiple tropopauses. <i>Atmospheric Chemistry and Physics</i> , <b>2017</b> , 17, 11541-11566	6.8	18
154	Introduction to the SPARC Reanalysis Intercomparison Project (S-RIP) and overview of the reanalysis systems. <i>Atmospheric Chemistry and Physics</i> , <b>2017</b> , 17, 1417-1452	6.8	201
153	Large-Scale Atmospheric Transport in GEOS Replay Simulations. <i>Journal of Advances in Modeling Earth Systems</i> , <b>2017</b> , 9, 2545-2560	7.1	39
152	Machine learning and air quality modeling <b>2017</b> ,		4
151	Chemical Mechanisms and Their Applications in the Goddard Earth Observing System (GEOS) Earth System Model. <i>Journal of Advances in Modeling Earth Systems</i> , <b>2017</b> , 9, 3019-3044	7.1	32
150	Tropical Waves and the Quasi-Biennial Oscillation in a 7-km Global Climate Simulation. <i>Journals of the Atmospheric Sciences</i> , <b>2016</b> , 73, 3771-3783	2.1	34
149	Tropospheric column ozone response to ENSO in GEOS-5 assimilation of OMI and MLS ozone data. <i>Atmospheric Chemistry and Physics</i> , <b>2016</b> , 16, 7091-7103	6.8	19
148	Structure and Dynamics of the Quasi-Biennial Oscillation in MERRA-2. <i>Journal of Climate</i> , <b>2016</b> , 29, 5339-5354	4.5	60

147	Introduction to the SPARC Reanalysis Intercomparison Project (S-RIP) and overview of the reanalysis systems <b>2016</b> ,		2
146	Impacts of Interactive Stratospheric Chemistry on Antarctic and Southern Ocean Climate Change in the Goddard Earth Observing System - Version 5 (GEOS-5). <i>Journal of Climate</i> , <b>2016</b> , 29, 3199-3218	4.4	30
145	Challenges and Opportunities in NASA Weather Research. <i>Bulletin of the American Meteorological Society</i> , <b>2016</b> , 97, ES137-ES140	6.1	5
144	Isolating the roles of different forcing agents in global stratospheric temperature changes using model integrations with incrementally added single forcings. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2016</b> , 121, 8067-8082	4.4	30
143	The anomalous change in the QBO in 2015-2016. <i>Geophysical Research Letters</i> , <b>2016</b> , 43, 8791-8797	4.9	104
142	The Major Stratospheric Sudden Warming of January 2013: Analyses and Forecasts in the GEOS-5 Data Assimilation System. <i>Monthly Weather Review</i> , <b>2015</b> , 143, 491-510	2.4	32
141	Assessing the magnitude of CO <sub>2</sub> flux uncertainty in atmospheric CO <sub>2</sub> records using products from NASA's Carbon Monitoring Flux Pilot Project. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2015</b> , 120, 734-765	4.4	30
140	Impact of planetary boundary layer turbulence on model climate and tracer transport. <i>Atmospheric Chemistry and Physics</i> , <b>2015</b> , 15, 7269-7286	6.8	10
139	Development of a grid-independent GEOS-Chem chemical transport model (v9-02) as an atmospheric chemistry module for Earth system models. <i>Geoscientific Model Development</i> , <b>2015</b> , 8, 595-602	6.3	41
138	The global structure of upper troposphere-lower stratosphere ozone in GEOS-5: A multiyear assimilation of EOS Aura data. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2015</b> , 120, 2013-2036	4.4	39
137	Satellite data of atmospheric pollution for U.S. air quality applications: Examples of applications, summary of data end-user resources, answers to FAQs, and common mistakes to avoid. <i>Atmospheric Environment</i> , <b>2014</b> , 94, 647-662	5.3	148
136	HEMCO v1.0: a versatile, ESMF-compliant component for calculating emissions in atmospheric models. <i>Geoscientific Model Development</i> , <b>2014</b> , 7, 1409-1417	6.3	108
135	Climatology of Upper Tropospheric-Lower Stratospheric (UTLS) Jets and Tropopauses in MERRA. <i>Journal of Climate</i> , <b>2014</b> , 27, 3248-3271	4.4	47
134	Carbon monitoring system flux estimation and attribution: impact of ACOS-GOSAT XCO <sub>2</sub> sampling on the inference of terrestrial biospheric sources and sinks. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , <b>2014</b> , 66, 22486	3.3	76
133	Assessment and applications of NASA ozone data products derived from Aura OMI/MLS satellite measurements in context of the GMI chemical transport model. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2014</b> , 119, 5671-5699	4.4	34
132	Quantifying the impact of Boreal forest fires on Tropospheric oxidants over the Atlantic using Aircraft and Satellites (BORTAS) experiment: design, execution and science overview. <i>Atmospheric Chemistry and Physics</i> , <b>2013</b> , 13, 6239-6261	6.8	45
131	Evaluation of a new middle-lower tropospheric CO <sub>2</sub> product using data assimilation. <i>Atmospheric Chemistry and Physics</i> , <b>2013</b> , 13, 4487-4500	6.8	9
130	On the inclusion of Limb Infrared Monitor of the Stratosphere version 6 ozone in a data assimilation system. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2013</b> , 118, 7982-8000	4.4	6

129	Detection of carbon monoxide trends in the presence of interannual variability. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2013</b> , 118, 12,257-12,273	4.4	17
128	Seasonal variations of stratospheric age spectra in the Goddard Earth Observing System Chemistry Climate Model (GEOSCCM). <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a		26
127	The influence of internal model variability in GEOS-5 on interhemispheric CO <sub>2</sub> exchange. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a		3
126	Emission and transport of cesium-137 from boreal biomass burning in the summer of 2010. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a		15
125	The impact of greenhouse gases on past changes in tropospheric ozone. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a		7
124	CO <sub>2</sub> flux estimation errors associated with moist atmospheric processes. <i>Atmospheric Chemistry and Physics</i> , <b>2012</b> , 12, 6405-6416	6.8	21
123	Multimodel climate and variability of the stratosphere. <i>Journal of Geophysical Research</i> , <b>2011</b> , 116,		122
122	Using transport diagnostics to understand chemistry climate model ozone simulations. <i>Journal of Geophysical Research</i> , <b>2011</b> , 116,		64
121	Improved predictability of the troposphere using stratospheric final warmings. <i>Journal of Geophysical Research</i> , <b>2011</b> , 116,		54
120	An analysis of the impact of convective parameter sensitivity on simulated global atmospheric CO <sub>2</sub> distributions. <i>Journal of Geophysical Research</i> , <b>2011</b> , 116,		15
119	MERRA: NASA's Modern-Era Retrospective Analysis for Research and Applications. <i>Journal of Climate</i> , <b>2011</b> , 24, 3624-3648	4.4	354 <sup>8</sup>
118	The Impact of Stratospheric Ozone Changes on Downward Wave Coupling in the Southern Hemisphere*. <i>Journal of Climate</i> , <b>2011</b> , 24, 4210-4229	4.4	21
117	Reactive nitrogen, ozone and ozone production in the Arctic troposphere and the impact of stratosphere-troposphere exchange. <i>Atmospheric Chemistry and Physics</i> , <b>2011</b> , 11, 13181-13199	6.8	28
116	Modeling the Frozen-In Anticyclone in the 2005 Arctic Summer Stratosphere. <i>Atmospheric Chemistry and Physics</i> , <b>2011</b> , 11, 4557-4576	6.8	16
115	Jet characterization in the upper troposphere/lower stratosphere (UTLS): applications to climatology and transport studies. <i>Atmospheric Chemistry and Physics</i> , <b>2011</b> , 11, 6115-6137	6.8	70
114	El Niño Southern Oscillation in Tropical and Midlatitude Column Ozone. <i>Journals of the Atmospheric Sciences</i> , <b>2011</b> , 68, 1911-1921	2.1	11
113	Multi-model assessment of stratospheric ozone return dates and ozone recovery in CCMVal-2 models. <i>Atmospheric Chemistry and Physics</i> , <b>2010</b> , 10, 9451-9472	6.8	179
112	Decline and recovery of total column ozone using a multimodel time series analysis. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115,		64

111	Chemistry-Climate 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
110	Influence of the 2006 Indonesian biomass burning aerosols on tropical dynamics studied with the GEOS-5 AGCM. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115,		36
109	Five year (2004-2009) observations of upper tropospheric water vapor and cloud ice from MLS and comparisons with GEOS-5 analyses. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115,		36
108	Multimodel assessment of the upper troposphere and lower stratosphere: Tropics and global trends. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115,		150
107	Stratosphere-troposphere coupling and annular mode variability in chemistry-climate models. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115,		96
106	Narrowing of the upwelling branch of the Brewer-Dobson circulation and Hadley cell in chemistry-climate model simulations of the 21st century. <i>Geophysical Research Letters</i> , <b>2010</b> , 37, n/a-n/a	4.9	14
105	A new interpretation of total column BrO during Arctic spring. <i>Geophysical Research Letters</i> , <b>2010</b> , 37, n/a-n/a	4.9	102
104	Sensitivity of 21st century stratospheric ozone to greenhouse gas scenarios. <i>Geophysical Research Letters</i> , <b>2010</b> , 37, n/a-n/a	4.9	48
103	Multimodel assessment of the upper troposphere and lower stratosphere: Extratropics. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115,		56
102	Spatial structure of assimilated ozone in the upper troposphere and lower stratosphere. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115,		12
101	Relative Contribution of Greenhouse Gases and Ozone-Depleting Substances to Temperature Trends in the Stratosphere: A Chemistry-Climate Model Study. <i>Journal of Climate</i> , <b>2010</b> , 23, 28-42	4.4	43
100	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
99	Chemical Source Inversion Using Assimilated Constituent Observations in an Idealized Two-Dimensional System. <i>Monthly Weather Review</i> , <b>2009</b> , 137, 3013-3025	2.4	
98	Analysis of Convective Transport and Parameter Sensitivity in a Single Column Version of the Goddard Earth Observation System, Version 5, General Circulation Model. <i>Journals of the Atmospheric Sciences</i> , <b>2009</b> , 66, 627-646	2.1	25
97	Aura Microwave Limb Sounder observations of dynamics and transport during the record-breaking 2009 Arctic stratospheric major warming. <i>Geophysical Research Letters</i> , <b>2009</b> , 36,	4.9	310
96	Effect of zonal asymmetries in stratospheric ozone on simulated Southern Hemisphere climate trends. <i>Geophysical Research Letters</i> , <b>2009</b> , 36,	4.9	64
95	Data Mining Geophysical Content from Satellites and Global Climate Models <b>2009</b> ,		1
94	On the influence of anthropogenic forcings on changes in the stratospheric mean age. <i>Journal of Geophysical Research</i> , <b>2009</b> , 114,		69

93	Assimilation of SCIAMACHY total column CO observations: Global and regional analysis of data impact. <i>Journal of Geophysical Research</i> , <b>2009</b> , 114,		21
92	Impacts of climate change on stratospheric ozone recovery. <i>Geophysical Research Letters</i> , <b>2009</b> , 36, n/a-n/a		84
91	Intra-annual relationships between polar ozone and the SAM. <i>Geophysical Research Letters</i> , <b>2009</b> , 36,	4.9	17
90	What would have happened to the ozone layer if chlorofluorocarbons (CFCs) had not been regulated?. <i>Atmospheric Chemistry and Physics</i> , <b>2009</b> , 9, 2113-2128	6.8	128
89	Error correlation between CO <sub>2</sub> and CO as constraint for CO <sub>2</sub> flux inversions using satellite data. <i>Atmospheric Chemistry and Physics</i> , <b>2009</b> , 9, 7313-7323	6.8	29
88	Validation of the Aura Microwave Limb Sounder temperature and geopotential height measurements. <i>Journal of Geophysical Research</i> , <b>2008</b> , 113,		312
87	Assimilated ozone from EOS-Aura: Evaluation of the tropopause region and tropospheric columns. <i>Journal of Geophysical Research</i> , <b>2008</b> , 113,		65
86	The evolution of the stratopause during the 2006 major warming: Satellite data and assimilated meteorological analyses. <i>Journal of Geophysical Research</i> , <b>2008</b> , 113,		185
85	Goddard Earth Observing System chemistry-climate model simulations of stratospheric ozone-temperature coupling between 1950 and 2005. <i>Journal of Geophysical Research</i> , <b>2008</b> , 113,		129
84	Impact of stratospheric ozone hole recovery on Antarctic climate. <i>Geophysical Research Letters</i> , <b>2008</b> , 35,	4.9	165
83	Comparison of lower stratospheric tropical mean vertical velocities. <i>Journal of Geophysical Research</i> , <b>2008</b> , 113,		71
82	Understanding the Changes of Stratospheric Water Vapor in Coupled Chemistry-Climate Model Simulations. <i>Journals of the Atmospheric Sciences</i> , <b>2008</b> , 65, 3278-3291	2.1	40
81	Interannual Variability and Trends of Extratropical Ozone. Part II: Southern Hemisphere. <i>Journals of the Atmospheric Sciences</i> , <b>2008</b> , 65, 3030-3041	2.1	17
80	The impact of stratospheric ozone recovery on the Southern Hemisphere westerly jet. <i>Science</i> , <b>2008</b> , 320, 1486-9	33.3	260
79	Interannual Variability and Trends of Extratropical Ozone. Part I: Northern Hemisphere. <i>Journals of the Atmospheric Sciences</i> , <b>2008</b> , 65, 3013-3029	2.1	16
78	Precision requirements for space-based data. <i>Journal of Geophysical Research</i> , <b>2007</b> , 112,		269
77	Stratospheric transport using 6-h-averaged winds from a data assimilation system. <i>Journal of Geophysical Research</i> , <b>2007</b> , 112,		33
76	Stratospheric gravity wave simulation over Greenland during 24 January 2005. <i>Journal of Geophysical Research</i> , <b>2007</b> , 112,		20

75	Multimodel projections of stratospheric ozone in the 21st century. <i>Journal of Geophysical Research</i> , <b>2007</b> , 112,		266
74	Ice polar stratospheric clouds detected from assimilation of Atmospheric Infrared Sounder data. <i>Geophysical Research Letters</i> , <b>2007</b> , 34,	4.9	6
73	Solar occultation satellite data and derived meteorological products: Sampling issues and comparisons with Aura Microwave Limb Sounder. <i>Journal of Geophysical Research</i> , <b>2007</b> , 112,		132
72	A New Look at Stratospheric Sudden Warmings. Part II: Evaluation of Numerical Model Simulations. <i>Journal of Climate</i> , <b>2007</b> , 20, 470-488	4.4	115
71	Trends in Stratospheric Ozone: Lessons Learned from a 3D Chemical Transport Model. <i>Journals of the Atmospheric Sciences</i> , <b>2006</b> , 63, 1028-1041	2.1	87
70	Assimilation of ozone profiles from the Improved Limb Atmospheric Spectrometer-II: Study of Antarctic ozone. <i>Journal of Geophysical Research</i> , <b>2006</b> , 111,		10
69	An ozone increase in the Antarctic summer stratosphere: A dynamical response to the ozone hole. <i>Geophysical Research Letters</i> , <b>2006</b> , 33,	4.9	39
68	Alaskan and Canadian forest fires exacerbate ozone pollution over Houston, Texas, on 19 and 20 July 2004. <i>Journal of Geophysical Research</i> , <b>2006</b> , 111,		125
67	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
66	A test of sensitivity to convective transport in a global atmospheric CO <sub>2</sub> simulation. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , <b>2006</b> , 58, 463-475	3.3	7
65	Construction and application of covariance functions with variable length-fields. <i>Quarterly Journal of the Royal Meteorological Society</i> , <b>2006</b> , 132, 1815-1838	6.4	39
64	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
63	The remarkable 2003–2004 winter and other recent warm winters in the Arctic stratosphere since the late 1990s. <i>Journal of Geophysical Research</i> , <b>2005</b> , 110,		206
62	EOS Microwave Limb Sounder observations of the Antarctic polar vortex breakup in 2004. <i>Geophysical Research Letters</i> , <b>2005</b> , 32, n/a-n/a	4.9	29
61	Diagnostic Comparison of Meteorological Analyses during the 2002 Antarctic Winter. <i>Monthly Weather Review</i> , <b>2005</b> , 133, 1261-1278	2.4	43
60	Assimilation of ozone data from the Michelson Interferometer for Passive Atmospheric Sounding. <i>Quarterly Journal of the Royal Meteorological Society</i> , <b>2005</b> , 131, 2713-2734	6.4	28
59	A Strategy for Process-Oriented Validation of Coupled Chemistry–Climate Models. <i>Bulletin of the American Meteorological Society</i> , <b>2005</b> , 86, 1117-1134	6.1	118
58	Use of radon for evaluation of atmospheric transport models: sensitivity to emissions. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , <b>2004</b> , 56, 404-412	3.3	13



57	Use of radon for evaluation of atmospheric transport models: sensitivity to emissions. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , <b>2004</b> , 56, 404-412	3.3	17
56	Interannual variability of stratospheric trace gases: The role of extratropical wave driving. <i>Quarterly Journal of the Royal Meteorological Society</i> , <b>2004</b> , 130, 2459-2474	6.4	7
55	The Orbiting Carbon Observatory (OCO) mission. <i>Advances in Space Research</i> , <b>2004</b> , 34, 700-709	2.4	480
54	A case study of excessive subtropical transport in the stratosphere of a data assimilation system. <i>Journal of Geophysical Research</i> , <b>2004</b> , 109,		37
53	Monitoring of observation errors in the assimilation of satellite ozone data. <i>Journal of Geophysical Research</i> , <b>2004</b> , 109, n/a-n/a		25
52	Global CO2 transport simulations using meteorological data from the NASA data assimilation system. <i>Journal of Geophysical Research</i> , <b>2004</b> , 109,		86
51	High-Frequency Planetary Waves in the Polar Middle Atmosphere as Seen in a Data Assimilation System. <i>Journals of the Atmospheric Sciences</i> , <b>2003</b> , 60, 2975-2992	2.1	10
50	Tropical Cumulus Convection and Upward-Propagating Waves in Middle-Atmospheric GCMs. <i>Journals of the Atmospheric Sciences</i> , <b>2003</b> , 60, 2765-2782	2.1	89
49	Uncertainties and assessments of chemistry-climate models of the stratosphere. <i>Atmospheric Chemistry and Physics</i> , <b>2003</b> , 3, 1-27	6.8	239
48	Lower stratospheric temperature differences between meteorological analyses in two cold Arctic winters and their impact on polar processing studies. <i>Journal of Geophysical Research</i> , <b>2003</b> , 108,		41
47	A comparison of the lower stratospheric age spectra derived from a general circulation model and two data assimilation systems. <i>Journal of Geophysical Research</i> , <b>2003</b> , 108, n/a-n/a		132
46	Evaluation of transport in the lower tropical stratosphere in a global chemistry and transport model. <i>Journal of Geophysical Research</i> , <b>2003</b> , 108, n/a-n/a		63
45	The tropical upper troposphere and lower stratosphere in the GEOS-2 GCM. <i>Advances in Space Research</i> , <b>2001</b> , 27, 1457-1465	2.4	1
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