

Darryn W Waugh

List of Publications by Citations

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222
papers

10,600
citations

58
h-index

95
g-index

262
ext. papers

11,710
ext. citations

5.4
avg, IF

6.41
L-index

#	Paper	IF	Citations
222	Stratospheric Ozone Depletion: The Main Driver of Twentieth-Century Atmospheric Circulation Changes in the Southern Hemisphere. <i>Journal of Climate</i> , 2011 , 24, 795-812	4.4	437
221	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
220	AGE OF STRATOSPHERIC AIR: THEORY, OBSERVATIONS, AND MODELS. <i>Reviews of Geophysics</i> , 2002 , 40, 1-1	23.1	348
219	Upward Wave Activity Flux as a Precursor to Extreme Stratospheric Events and Subsequent Anomalous Surface Weather Regimes. <i>Journal of Climate</i> , 2004 , 17, 3548-3554	4.4	295
218	Multimodel projections of stratospheric ozone in the 21st century. <i>Journal of Geophysical Research</i> , 2007 , 112,		266
217	The impact of stratospheric ozone recovery on the Southern Hemisphere westerly jet. <i>Science</i> , 2008 , 320, 1486-9	33.3	260
216	ChemistryClimate Model Simulations of Twenty-First Century Stratospheric Climate and Circulation Changes. <i>Journal of Climate</i> , 2010 , 23, 5349-5374	4.4	242
215	Ozone database in support of CMIP5 simulations: results and corresponding radiative forcing. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 11267-11292	6.8	221
214	A new formulation of equivalent effective stratospheric chlorine (EESC). <i>Atmospheric Chemistry and Physics</i> , 2007 , 7, 4537-4552	6.8	203
213	Climatology of intrusions into the tropical upper troposphere. <i>Geophysical Research Letters</i> , 2000 , 27, 3857-3860	4.9	180
212	Multi-model assessment of stratospheric ozone return dates and ozone recovery in CCMVal-2 models. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 9451-9472	6.8	179
211	Climatology of Arctic and Antarctic Polar Vortices Using Elliptical Diagnostics. <i>Journals of the Atmospheric Sciences</i> , 1999 , 56, 1594-1613	2.1	171
210	Transport out of the lower stratospheric Arctic vortex by Rossby wave breaking. <i>Journal of Geophysical Research</i> , 1994 , 99, 1071		170
209	Persistence of the lower stratospheric polar vortices. <i>Journal of Geophysical Research</i> , 1999 , 104, 27191-27201		169
208	Anthropogenic CO ₂ in the oceans estimated using transit time distributions. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2006 , 58, 376-389	3.3	155
207	Quantification of the inelastic interaction of unequal vortices in two-dimensional vortex dynamics. <i>Physics of Fluids A, Fluid Dynamics</i> , 1992 , 4, 1737-1744		155
206	Evaluation of transport in stratospheric models. <i>Journal of Geophysical Research</i> , 1999 , 104, 18815-18839		154

205	Contour Advection with Surgery: A Technique for Investigating Finescale Structure in Tracer Transport. <i>Journals of the Atmospheric Sciences</i> , 1994 , 51, 530-540	2.1	154
204	Relationships among tracer ages. <i>Journal of Geophysical Research</i> , 2003 , 108,		149
203	Ozone hole and Southern Hemisphere climate change. <i>Geophysical Research Letters</i> , 2009 , 36, n/a-n/a	4.9	143
202	Review of the formulation of present-generation stratospheric chemistry-climate models and associated external forcings. <i>Journal of Geophysical Research</i> , 2010 , 115,		134
201	Mixing of polar vortex air into middle latitudes as revealed by tracer-tracer scatterplots. <i>Journal of Geophysical Research</i> , 1997 , 102, 13119-13134		125
200	Transport times and anthropogenic carbon in the subpolar North Atlantic Ocean. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2004 , 51, 1475-1491	2.5	119
199	Intrusions into the lower stratospheric Arctic vortex during the winter of 1991-1992. <i>Journal of Geophysical Research</i> , 1994 , 99, 1089		119
198	A Strategy for Process-Oriented Validation of Coupled Chemistry-Climate Models. <i>Bulletin of the American Meteorological Society</i> , 2005 , 86, 1117-1134	6.1	118
197	Observed connection between stratospheric sudden warmings and the Madden-Julian Oscillation. <i>Geophysical Research Letters</i> , 2012 , 39,	4.9	109
196	What Is the Polar Vortex and How Does It Influence Weather?. <i>Bulletin of the American Meteorological Society</i> , 2017 , 98, 37-44	6.1	107
195	Recent changes in the ventilation of the southern oceans. <i>Science</i> , 2013 , 339, 568-70	33.3	104
194	Anthropogenic carbon distributions in the Atlantic Ocean: data-based estimates from the Arctic to the Antarctic. <i>Biogeosciences</i> , 2009 , 6, 439-451	4.6	98
193	Influence of Barotropic Shear on the Poleward Advection of Upper-Tropospheric Air. <i>Journals of the Atmospheric Sciences</i> , 1996 , 53, 3013-3031	2.1	95
192	Does the Holton-Mann Mechanism Explain How the Quasi-Biennial Oscillation Modulates the Arctic Polar Vortex?. <i>Journals of the Atmospheric Sciences</i> , 2012 , 69, 1713-1733	2.1	94
191	On the Subtropical Edge of the Stratospheric Surf Zone. <i>Journals of the Atmospheric Sciences</i> , 1995 , 52, 1288-1309	2.1	93
190	The Effect of Tropospheric Jet Latitude on Coupling between the Stratospheric Polar Vortex and the Troposphere. <i>Journal of Climate</i> , 2013 , 26, 2077-2095	4.4	88
189	Inferring the concentration of anthropogenic carbon in the ocean from tracers. <i>Global Biogeochemical Cycles</i> , 2002 , 16, 78-1-78-15	5.9	88
188	Seasonal variation of isentropic transport out of the tropical stratosphere. <i>Journal of Geophysical Research</i> , 1996 , 101, 4007-4023		85

187	Impacts of climate change on stratospheric ozone recovery. <i>Geophysical Research Letters</i> , 2009 , 36, n/a-n/a	4.9	84
186	The effects of mixing on tracer relationships in the polar vortices. <i>Journal of Geophysical Research</i> , 2000 , 105, 10047-10062		82
185	Quantitative performance metrics for stratospheric-resolving chemistry-climate models. <i>Atmospheric Chemistry and Physics</i> , 2008 , 8, 5699-5713	6.8	81
184	An estimate of anthropogenic CO ₂ inventory from decadal changes in oceanic carbon content. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 3037-42	11.5	81
183	The response of tropical tropospheric ozone to ENSO. <i>Geophysical Research Letters</i> , 2011 , 38, n/a-n/a	4.9	78
182	Modifications of the quasi-biennial oscillation by a geoengineering perturbation of the stratospheric aerosol layer. <i>Geophysical Research Letters</i> , 2014 , 41, 1738-1744	4.9	77
181	The ozone response to ENSO in Aura satellite measurements and a chemistry-climate simulation. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 965-976	4.4	74
180	Are the teleconnections of Central Pacific and Eastern Pacific El Niño distinct in boreal wintertime?. <i>Climate Dynamics</i> , 2013 , 41, 1835-1852	4.2	70
179	Drivers of the Recent Tropical Expansion in the Southern Hemisphere: Changing SSTs or Ozone Depletion?. <i>Journal of Climate</i> , 2015 , 28, 6581-6586	4.4	70
178	Elliptical diagnostics of stratospheric polar vortices. <i>Quarterly Journal of the Royal Meteorological Society</i> , 1997 , 123, 1725-1748	6.4	70
177	Spatial Variations of Stirring in the Surface Ocean: A Case Study of the Tasman Sea. <i>Journal of Physical Oceanography</i> , 2006 , 36, 526-542	2.4	70
176	On the influence of anthropogenic forcings on changes in the stratospheric mean age. <i>Journal of Geophysical Research</i> , 2009 , 114,		69
175	Why might stratospheric sudden warmings occur with similar frequency in El Niño and La Niña winters?. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		68
174	Stirring in the global surface ocean. <i>Geophysical Research Letters</i> , 2008 , 35,	4.9	66
173	The efficiency of symmetric vortex merger. <i>Physics of Fluids A, Fluid Dynamics</i> , 1992 , 4, 1745-1758		65
172	Effect of zonal asymmetries in stratospheric ozone on simulated Southern Hemisphere climate trends. <i>Geophysical Research Letters</i> , 2009 , 36,	4.9	64
171	Subtropical stratospheric mixing linked to disturbances in the polar vortices. <i>Nature</i> , 1993 , 365, 535-537	50.4	64
170	Estimates of anthropogenic carbon in the Indian Ocean with allowance for mixing and time-varying air-sea CO ₂ disequilibrium. <i>Global Biogeochemical Cycles</i> , 2004 , 18, n/a-n/a	5.9	62

169	Impact of potential vorticity intrusions on subtropical upper tropospheric humidity. <i>Journal of Geophysical Research</i> , 2005 , 110,		60
168	Intrusions into the Tropical Upper Troposphere: Three-Dimensional Structure and Accompanying Ozone and OLR Distributions. <i>Journals of the Atmospheric Sciences</i> , 2003 , 60, 637-653	2.1	60
167	Three-dimensional simulations of long-lived tracers using winds from MACCM2. <i>Journal of Geophysical Research</i> , 1997 , 102, 21493-21513		59
166	Recent Hadley cell expansion: The role of internal atmospheric variability in reconciling modeled and observed trends. <i>Geophysical Research Letters</i> , 2015 , 42, 10,824-10,831	4.9	58
165	The Impact of Stratospheric Ozone Recovery on Tropopause Height Trends. <i>Journal of Climate</i> , 2009 , 22, 429-445	4.4	58
164	Use of SF6 to estimate anthropogenic CO2 in the upper ocean. <i>Journal of Geophysical Research</i> , 2008 , 113,		57
163	Connections between Potential Vorticity Intrusions and Convection in the Eastern Tropical Pacific. <i>Journals of the Atmospheric Sciences</i> , 2008 , 65, 987-1002	2.1	57
162	Interannual Variability in the Decay of Lower Stratospheric Arctic Vortices.. <i>Journal of the Meteorological Society of Japan</i> , 2002 , 80, 997-1012	2.8	57
161	A pause in Southern Hemisphere circulation trends due to the Montreal Protocol. <i>Nature</i> , 2020 , 579, 544-548	50.4	56
160	Impact of Rossby Wave Breaking on U.S. West Coast Winter Precipitation during ENSO Events. <i>Journal of Climate</i> , 2013 , 26, 6360-6382	4.4	56
159	Multimodel assessment of the factors driving stratospheric ozone evolution over the 21st century. <i>Journal of Geophysical Research</i> , 2010 , 115,		56
158	Recent Tropical Expansion: Natural Variability or Forced Response?. <i>Journal of Climate</i> , 2019 , 32, 1551-1574	17.4	56
157	High-altitude dust layers on Mars: Observations with the Thermal Emission Spectrometer. <i>Journal of Geophysical Research E: Planets</i> , 2013 , 118, 1177-1194	4.1	55
156	Reduced Urban Heat Island intensity under warmer conditions. <i>Environmental Research Letters</i> , 2018 , 13,	6.2	54
155	Timescales for the stratospheric circulation derived from tracers. <i>Journal of Geophysical Research</i> , 1997 , 102, 8991-9001		51
154	Tracer transport in the tropical stratosphere due to vertical diffusion and horizontal mixing. <i>Geophysical Research Letters</i> , 1997 , 24, 1383-1386	4.9	49
153	Revisiting the Relationship among Metrics of Tropical Expansion. <i>Journal of Climate</i> , 2018 , 31, 7565-7581	14.4	44
152	The link between cut-off lows and Rossby wave breaking in the Southern Hemisphere. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2010 , 136, 869-885	6.4	42

151	Understanding the Changes of Stratospheric Water Vapor in Coupled ChemistryClimate Model Simulations. <i>Journals of the Atmospheric Sciences</i> , 2008 , 65, 3278-3291	2.1	40
150	Large-Scale Atmospheric Transport in GEOS Replay Simulations. <i>Journal of Advances in Modeling Earth Systems</i> , 2017 , 9, 2545-2560	7.1	39
149	Temperature trends in the tropical upper troposphere and lower stratosphere: Connections with sea surface temperatures and implications for water vapor and ozone. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 9658-9672	4.4	38
148	Rossby Wave Breaking in the Southern Hemisphere Wintertime Upper Troposphere. <i>Monthly Weather Review</i> , 2003 , 131, 2623-2634	2.4	37
147	Stratospheric polar vortices. <i>Geophysical Monograph Series</i> , 2010 , 43-57	1.1	37
146	Air-mass origin in the tropical lower stratosphere: The influence of Asian boundary layer air. <i>Geophysical Research Letters</i> , 2015 , 42, 4240-4248	4.9	36
145	Contrasting upper and lower atmospheric metrics of tropical expansion in the Southern Hemisphere. <i>Geophysical Research Letters</i> , 2016 , 43, 10,496	4.9	36
144	Methods of Calculating Transport across the Polar Vortex Edge. <i>Journals of the Atmospheric Sciences</i> , 1997 , 54, 2241-2260	2.1	35
143	Influence of nonlocal chemistry on tracer distributions: Inferring the mean age of air from SF6. <i>Journal of Geophysical Research</i> , 1998 , 103, 13327-13336		35
142	The stability of filamentary vorticity in two-dimensional geophysical vortex-dynamics models. <i>Journal of Fluid Mechanics</i> , 1991 , 231, 575-598	3.7	35
141	Southern Hemisphere extratropical circulation: Recent trends and natural variability. <i>Geophysical Research Letters</i> , 2015 , 42, 5508-5515	4.9	34
140	Observations of planetary waves and nonmigrating tides by the Mars Climate Sounder. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		34
139	Temperature and heat in informal settlements in Nairobi. <i>PLoS ONE</i> , 2017 , 12, e0187300	3.7	33
138	Mechanisms and feedback causing changes in upper stratospheric ozone in the 21st century. <i>Journal of Geophysical Research</i> , 2010 , 115,		33
137	A Climatology of Rossby Wave Breaking on the Southern Hemisphere Tropopause. <i>Journals of the Atmospheric Sciences</i> , 2011 , 68, 798-811	2.1	33
136	Is upper stratospheric chlorine decreasing as expected?. <i>Geophysical Research Letters</i> , 2001 , 28, 1187-1190	4.9	32
135	Classification of atmospheric river events on the U.S. West Coast using a trajectory model. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015 , 120, 3007-3028	4.4	31
134	Viscoelastic response of a floating ice plate to a steadily moving load. <i>Journal of Fluid Mechanics</i> , 1988 , 196, 409-430	3.7	31

133	Tropospheric SF6: Age of air from the Northern Hemisphere midlatitude surface. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 11,429-11,441	4.4	30
132	On transit-time distributions in unsteady circulation models. <i>Ocean Modelling</i> , 2008 , 21, 35-45	3	30
131	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> , 2016 , 29, 3199-3218	4.4	30
130	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> , 2016 , 121, 8067-8082	4.4	30
129	The Impact of Ozone-Depleting Substances on Tropical Upwelling, as Revealed by the Absence of Lower-Stratospheric Cooling since the Late 1990s. <i>Journal of Climate</i> , 2017 , 30, 2523-2534	4.4	29
128	Response of trace gases to the disrupted 2015-2016 quasi-biennial oscillation. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 6813-6823	6.8	29
127	The impact of a realistic vertical dust distribution on the simulation of the Martian General Circulation. <i>Journal of Geophysical Research E: Planets</i> , 2013 , 118, 980-993	4.1	29
126	Stratospheric residence time and its relationship to mean age. <i>Journal of Geophysical Research</i> , 2000 , 105, 6773-6782		29
125	Contrasting Effects of Central Pacific and Eastern Pacific El Niño on stratospheric water vapor. <i>Geophysical Research Letters</i> , 2013 , 40, 4115-4120	4.9	27
124	Transit time distributions in Lake Issyk-Kul. <i>Geophysical Research Letters</i> , 2002 , 29, 84-1-84-4	4.9	27
123	Martian polar vortices: Comparison of reanalyses. <i>Journal of Geophysical Research E: Planets</i> , 2016 , 121, 1770-1785	4.1	26
122	Seasonal variations of stratospheric age spectra in the Goddard Earth Observing System Chemistry Climate Model (GEOSCCM). <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		26
121	Ventilation Rates Estimated from Tracers in the Presence of Mixing. <i>Journal of Physical Oceanography</i> , 2007 , 37, 2599-2611	2.4	26
120	Enhancement of Rossby Wave Breaking by Steep Potential Vorticity Gradients in the Winter Stratosphere. <i>Journals of the Atmospheric Sciences</i> , 2004 , 61, 904-918	2.1	26
119	Ozone database in support of CMIP5 simulations: results and corresponding radiative forcing		26
118	The TropD software package (v1): standardized methods for calculating tropical-width diagnostics. <i>Geoscientific Model Development</i> , 2018 , 11, 4339-4357	6.3	26
117	Tropospheric transport differences between models using the same large-scale meteorological fields. <i>Geophysical Research Letters</i> , 2017 , 44, 1068-1078	4.9	25
116	Air-mass origin as a diagnostic of tropospheric transport. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 1459-1470	4.4	25

115	A New Look at Modeling Surface Heterogeneity: Extending Its Influence in the Vertical. <i>Journal of Hydrometeorology</i> , 2003 , 4, 810-825	3.7	25
114	The Dependence of Rossby Wave Breaking on the Vertical Structure of the Polar Vortex. <i>Journals of the Atmospheric Sciences</i> , 1999 , 56, 2359-2375	2.1	25
113	Respiratory Effects of Indoor Heat and the Interaction with Air Pollution in Chronic Obstructive Pulmonary Disease. <i>Annals of the American Thoracic Society</i> , 2016 , 13, 2125-2131	4.7	25
112	Large-scale tropospheric transport in the ChemistryClimate Model Initiative (CCMI) simulations. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 7217-7235	6.8	25
111	The Global Modeling Initiative assessment model: Application to high-speed civil transport perturbation. <i>Journal of Geophysical Research</i> , 2001 , 106, 1693-1711		24
110	Nonlinear, Barotropic Response to a Localized Topographic Forcing: Formation of a Tropical Surf Zone and Its Effect on Interhemispheric Propagation. <i>Journals of the Atmospheric Sciences</i> , 1994 , 51, 1401-1416	2.1	24
109	Evaluating methods for spatial mapping: Applications for estimating ozone concentrations across the contiguous United States. <i>Environmental Technology and Innovation</i> , 2015 , 3, 1-10	7	23
108	Estimating changes in ocean ventilation from early 1990s CFC-12 and late 2000s SF6 measurements. <i>Geophysical Research Letters</i> , 2013 , 40, 927-932	4.9	23
107	What causes Mars' annular polar vortices?. <i>Geophysical Research Letters</i> , 2017 , 44, 71-78	4.9	22
106	Time-varying changes in the simulated structure of the BrewerDobson Circulation. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 1313-1327	6.8	22
105	Contour Surgery Simulations of a Forced Polar Vortex. <i>Journals of the Atmospheric Sciences</i> , 1993 , 50, 714-730	2.1	22
104	Seasonal variation of ozone in the tropical lower stratosphere: Southern tropics are different from northern tropics. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 6196-6206	4.4	21
103	Connections between summer air pollution and stagnation. <i>Environmental Research Letters</i> , 2018 , 13, 084001	6.2	21
102	The Transit-Time Distribution from the Northern Hemisphere Midlatitude Surface. <i>Journals of the Atmospheric Sciences</i> , 2016 , 73, 3785-3802	2.1	20
101	Long-term changes in stratospheric age spectra in the 21st century in the Goddard Earth Observing System Chemistry-Climate Model (GEOSCCM). <i>Journal of Geophysical Research</i> , 2012 , 117,		20
100	Impact of climate change on the frequency of Northern Hemisphere summer cyclones. <i>Journal of Geophysical Research</i> , 2011 , 116,		20
99	The potential to narrow uncertainty in projections of stratospheric ozone over the 21st century. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 9473-9486	6.8	20
98	Sensitivity of stratospheric inorganic chlorine to differences in transport. <i>Atmospheric Chemistry and Physics</i> , 2007 , 7, 4935-4941	6.8	20

97	Propagation of Tracer Signals in Boundary Currents. <i>Journal of Physical Oceanography</i> , 2005 , 35, 1538-1552	2.0
96	Robustness of the Simulated Tropospheric Response to Ozone Depletion. <i>Journal of Climate</i> , 2017 , 30, 2577-2585	4.4 19
95	The Transient Response of the Southern Ocean to Stratospheric Ozone Depletion. <i>Journal of Climate</i> , 2016 , 29, 7383-7396	4.4 19
94	Intraurban Temperature Variability in Baltimore. <i>Journal of Applied Meteorology and Climatology</i> , 2017 , 56, 159-171	2.7 19
93	Impact of future nitrous oxide and carbon dioxide emissions on the stratospheric ozone layer. <i>Environmental Research Letters</i> , 2015 , 10, 034011	6.2 19
92	The Stability of Mars's Annular Polar Vortex. <i>Journals of the Atmospheric Sciences</i> , 2017 , 74, 1533-1547	2.1 18
91	The effect of dust on the martian polar vortices. <i>Icarus</i> , 2016 , 278, 100-118	3.8 18
90	Interhemispheric transit time distributions and path-dependent lifetimes constrained by measurements of SF6, CFCs, and CFC replacements. <i>Geophysical Research Letters</i> , 2015 , 42, 4581-4589	4.9 17
89	Very low ozone episodes due to polar vortex displacement. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2000 , 52, 1123-1137	3.3 17
88	Sensitivity of mean age and long-lived tracers to transport parameters in a two-dimensional model. <i>Journal of Geophysical Research</i> , 1999 , 104, 30559-30569	17
87	A method for estimating the extent of denitrification of arctic polar vortex air from tracer-tracer scatter plots. <i>Journal of Geophysical Research</i> , 2002 , 107, ACH 6-1	16
86	Uncertainty in model predictions of <i>Vibrio vulnificus</i> response to climate variability and change: a Chesapeake Bay case study. <i>PLoS ONE</i> , 2014 , 9, e98256	3.7 16
85	Airmass Origin in the Arctic. Part I: Seasonality. <i>Journal of Climate</i> , 2015 , 28, 4997-5014	4.4 15
84	Diagnosing Ocean Stirring: Comparison of Relative Dispersion and Finite-Time Lyapunov Exponents. <i>Journal of Physical Oceanography</i> , 2012 , 42, 1173-1185	2.4 15
83	Very low ozone episodes due to polar vortex displacement. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2000 , 52, 1123-1137	3.3 15
82	Transient Response of the Southern Ocean to Changing Ozone: Regional Responses and Physical Mechanisms. <i>Journal of Climate</i> , 2017 , 30, 2463-2480	4.4 14
81	Response of Southern Ocean Ventilation to Changes in Midlatitude Westerly Winds. <i>Journal of Climate</i> , 2019 , 32, 5345-5361	4.4 14
80	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> , 2010 , 37, n/a-n/a	4.9 14

79	Variability of subtropical upper tropospheric humidity. <i>Atmospheric Chemistry and Physics</i> , 2008 , 8, 2643-2655	4.6	14
78	Variations in stratospheric inorganic chlorine between 1991 and 2006. <i>Geophysical Research Letters</i> , 2007 , 34,	4.9	14
77	Vacillations in a Shallow-Water Model of the Stratosphere. <i>Journals of the Atmospheric Sciences</i> , 2004 , 61, 1174-1185	2.1	14
76	Disentangling the Drivers of the Summertime Ozone-Temperature Relationship Over the United States. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019 , 124, 10503-10524	4.4	13
75	Changes in the ventilation of the southern oceans. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2014 , 372, 20130269	3	13
74	Tropospheric Rossby Wave Breaking and Variability of the Latitude of the Eddy-Driven Jet. <i>Journal of Climate</i> , 2014 , 27, 7069-7085	4.4	13
73	PDFs of Tropical Tropospheric Humidity: Measurements and Theory. <i>Journal of Climate</i> , 2009 , 22, 3357-3373	4.1	13
72	Fine-scale, poleward transport of tropical air during AASE 2. <i>Geophysical Research Letters</i> , 1994 , 21, 2603-2606	4.9	13
71	Spatial and temporal variability of interhemispheric transport times. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 7439-7452	6.8	12
70	The Influence of the Lower Stratosphere on Ridging Atlantic Ocean Anticyclones over South Africa. <i>Journal of Climate</i> , 2018 , 31, 6175-6187	4.4	12
69	The Impact on a GCM Climate of an Extended Mosaic Technique for the Land-Atmosphere Coupling. <i>Journal of Climate</i> , 2004 , 17, 3877-3891	4.4	12
68	Tropical Widening: From Global Variations to Regional Impacts. <i>Bulletin of the American Meteorological Society</i> , 2020 , 101, E897-E904	6.1	11
67	Spatial and temporal variation in the isotopic composition of Ethiopian precipitation. <i>Journal of Hydrology</i> , 2020 , 585, 124364	6	11
66	Age of martian air: Time scales for martian atmospheric transport. <i>Icarus</i> , 2019 , 317, 148-157	3.8	10
65	Chemistry-climate model simulations of recent trends in lower stratospheric temperature and stratospheric residual circulation. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		10
64	Antarctic ozone depletion and trends in tropopause Rossby wave breaking. <i>Atmospheric Science Letters</i> , 2012 , 13, 164-168	2.4	10
63	Connections between the Spring Breakup of the Southern Hemisphere Polar Vortex, Stationary Waves, and AirSea Roughness. <i>Journals of the Atmospheric Sciences</i> , 2013 , 70, 2137-2151	2.1	10
62	Predictive skill of an NWP system in the southern lower stratosphere. <i>Quarterly Journal of the Royal Meteorological Society</i> , 1998 , 124, 2181-2200	6.4	10

61	The Impact of Boreal Summer ENSO Events on Tropical Lower Stratospheric Ozone. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018 , 123, 9843-9857	4.4	10
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