Darryn W Waugh

List of Publications by Year
in descending order

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213	13,009	19657 61	30922 102
papers	citations	h-index	g-index

262	262	262	7868
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Very low ozone episodes due to polar vortex displacement. Tellus, Series B: Chemical and Physical Meteorology, 2022, 52, 1123.	1.6	24
2	Ventilation of the Southern Ocean Pycnocline. Annual Review of Marine Science, 2022, 14, 405-430.	11.6	21
3	Winter Weakening of Titan's Stratospheric Polar Vortices. Planetary Science Journal, 2022, 3, 73.	3.6	4
4	Dynamical Regimes of Polar Vortices on Terrestrial Planets with a Seasonal Cycle. Planetary Science Journal, 2022, 3, 94.	3.6	4
5	Surface Ozoneâ€Temperature Relationship: The Meridional Gradient Ratio Approximation. Geophysical Research Letters, 2022, 49, .	4.0	2
6	Jet Streamâ€Surface Tracer Relationships: Mechanism and Sensitivity to Source Region. Geophysical Research Letters, 2021, 48, .	4.0	3
7	Indoor heat exposure in Baltimore: does outdoor temperature matter?. International Journal of Biometeorology, 2021, 65, 479-488.	3.0	8
8	Interbasin Differences in Ocean Ventilation in Response to Variations in the Southern Annular Mode. Journal of Geophysical Research: Oceans, 2021, 126, e2020JC016540.	2.6	2
9	How Frequent Are Antarctic Sudden Stratospheric Warmings in Present and Future Climate?. Geophysical Research Letters, 2021, 48, e2021GL093215.	4.0	18
10	The Emergence of a Summer Hemisphere Jet in Planetary Atmospheres. Journals of the Atmospheric Sciences, 2021, 78, 3337-3348.	1.7	4
11	The Ekman Streamfunction and the Eulerian and Residual Overturning Circulations of the Southern Ocean. Geophysical Research Letters, 2021, 48, e2021GL093438.	4.0	2
12	Tropospheric Ageâ€ofâ€Air: Influence of SF₆ Emissions on Recent Surface Trends and Model Biases. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2021JD035451.	3.3	3
13	Monitoring intra-urban temperature with dense sensor networks: Fixed or mobile? An empirical study in Baltimore, MD. Urban Climate, 2021, 39, 100979.	5.7	6
14	Response of the Upperâ€Level Monsoon Anticyclones and Ozone to Abrupt CO₂ Changes. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2021JD034903.	3.3	0
15	Interannual SAM Modulation of Antarctic Sea Ice Extent Does Not Account for Its Longâ€Term Trends, Pointing to a Limited Role for Ozone Depletion. Geophysical Research Letters, 2021, 48, e2021GL094871.	4.0	12
16	Polar Vortices in Planetary Atmospheres. Reviews of Geophysics, 2021, 59, e2020RG000723.	23.0	7
17	Spatial and temporal variation in the isotopic composition of Ethiopian precipitation. Journal of Hydrology, 2020, 585, 124364.	5.4	20
18	Relationship between Age and Oxygen along Line W in the Northwest Atlantic Ocean. Ocean Science Journal, 2020, 55, 203-217.	1.3	1

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19	Contrasting Recent Trends in Southern Hemisphere Westerlies Across Different Ocean Basins. Geophysical Research Letters, 2020, 47, e2020GL088890.	4.0	13
20	Surface Ozoneâ€Meteorology Relationships: Spatial Variations and the Role of the Jet Stream. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2020JD032735.	3.3	12
21	Seasonality of the MJO Impact on Upper Troposphereâ€“Lower Stratosphere Temperature, Circulation, and Composition. Journals of the Atmospheric Sciences, 2020, 77, 1455-1473.	1.7	3
22	How Rapidly Do the Southern Subtropical Oceans Respond to Wind Stress Changes?. Journal of Geophysical Research: Oceans, 2020, 125, e2020JC016236.	2.6	4
23	Description and Evaluation of the specified-dynamics experiment in the Chemistry-Climate Model Initiative. Atmospheric Chemistry and Physics, 2020, 20, 3809-3840.	4.9	16
24	A pause in Southern Hemisphere circulation trends due to the Montreal Protocol. Nature, 2020, 579, 544-548.	27.8	106
25	Atmospheric transport into polar regions on Mars in different orbital epochs. Icarus, 2020, 347, 113816.	2.5	8
26	Forcing of the Martian polar annulus by Hadley cell transport and latent heating. Quarterly Journal of the Royal Meteorological Society, 2020, 146, 2174-2190.	2.7	8
27	Response of the Southern Ocean Overturning Circulation to Extreme Southern Annular Mode Conditions. Geophysical Research Letters, 2020, 47, e2020GL091103.	4.0	3
28	Tropical Widening: From Global Variations to Regional Impacts. Bulletin of the American Meteorological Society, 2020, 101, E897-E904.	3.3	31
29	Causes and Impacts of Tropical Widening. Bulletin of the American Meteorological Society, 2020, 101, 602-606.	3.3	0
30	Dependence of Atmospheric Transport Into the Arctic on the Meridional Extent of the Hadley Cell. Geophysical Research Letters, 2020, 47, .	4.0	2
31	Age of martian air: Time scales for martian atmospheric transport. Icarus, 2019, 317, 148-157.	2.5	14
32	Disentangling the Drivers of the Summertime Ozoneâ€Temperature Relationship Over the United States. Journal of Geophysical Research D: Atmospheres, 2019, 124, 10503-10524.	3.3	24
33	The Southern Ocean Sea Surface Temperature Response to Ozone Depletion: A Multimodel Comparison. Journal of Climate, 2019, 32, 5107-5121.	3.2	22
34	Using Project Loon Superpressure Balloon Observations to Investigate the Inertial Peak in the Intrinsic Wind Spectrum in the Midlatitude Stratosphere. Journal of Geophysical Research D: Atmospheres, 2019, 124, 8594-8604.	3.3	7
35	Disconnect Between Hadley Cell and Subtropical Jet Variability and Response to Increased CO₂. Geophysical Research Letters, 2019, 46, 7045-7053.	4.0	26
36	Evaluating Simulations of Interhemispheric Transport: Interhemispheric Exchange Time Versus SF₆ Age. Geophysical Research Letters, 2019, 46, 1113-1120.	4.0	12

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37	Response of Southern Ocean Ventilation to Changes in Midlatitude Westerly Winds. Journal of Climate, 2019, 32, 5345-5361.	3.2	23
38	Large-scale transport into the Arctic: the roles of the midlatitude jet and the Hadley Cell. Atmospheric Chemistry and Physics, 2019, 19, 5511-5528.	4.9	8
39	Recent Tropical Expansion: Natural Variability or Forced Response?. Journal of Climate, 2019, 32, 1551-1571.	3.2	87
40	Large Uncertainty in the Relative Rates of Dynamical and Hydrological Tropical Expansion. Geophysical Research Letters, 2018, 45, 1106-1113.	4.0	12
41	Relationship between Ocean Carbon and Heat Multidecadal Variability. Journal of Climate, 2018, 31, 1467-1482.	3.2	9
42	The TropD software package (v1): standardized methods for calculating tropical-width diagnostics. Geoscientific Model Development, 2018, 11, 4339-4357.	3.6	42
43	The Impact of Boreal Summer ENSO Events on Tropical Lower Stratospheric Ozone. Journal of Geophysical Research D: Atmospheres, 2018, 123, 9843-9857.	3.3	16
44	Large-scale tropospheric transport in the Chemistryâ€“Climate Model Initiative (CCMI) simulations. Atmospheric Chemistry and Physics, 2018, 18, 7217-7235.	4.9	32
45	Connections between summer air pollution and stagnation. Environmental Research Letters, 2018, 13, 084001.	5.2	30
46	Decoupling the Effects of Transport and Chemical Loss on Tropospheric Composition: A Model Study of Path-Dependent Lifetimes. Journal of Geophysical Research D: Atmospheres, 2018, 123, 2320-2335.	3.3	1
47	Reduced Urban Heat Island intensity under warmer conditions. Environmental Research Letters, 2018, 13, 064003.	5.2	77
48	Spatial and temporal variability of interhemispheric transport times. Atmospheric Chemistry and Physics, 2018, 18, 7439-7452.	4.9	18
49	Revisiting the Relationship among Metrics of Tropical Expansion. Journal of Climate, 2018, 31, 7565-7581.	3.2	61
50	The Influence of the Lower Stratosphere on Ridging Atlantic Ocean Anticyclones over South Africa. Journal of Climate, 2018, 31, 6175-6187.	3.2	15
51	What Is the Polar Vortex and How Does It Influence Weather?. Bulletin of the American Meteorological Society, 2017, 98, 37-44.	3.3	162
52	Transient Response of the Southern Ocean to Changing Ozone: Regional Responses and Physical Mechanisms. Journal of Climate, 2017, 30, 2463-2480.	3.2	19
53	The Stability of Marsâ€™s Annular Polar Vortex. Journals of the Atmospheric Sciences, 2017, 74, 1533-1547.	1.7	24
54	Robustness of the Simulated Tropospheric Response to Ozone Depletion. Journal of Climate, 2017, 30, 2577-2585.	3.2	21

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55	What causes Mars' annular polar vortices?. Geophysical Research Letters, 2017, 44, 71-78.	4.0	28
56	The role of monsoonâ€like zonally asymmetric heating in interhemispheric transport. Journal of Geophysical Research D: Atmospheres, 2017, 122, 3282-3298.	3.3	11
57	The Impact of Ozone-Depleting Substances on Tropical Upwelling, as Revealed by the Absence of Lower-Stratospheric Cooling since the Late 1990s. Journal of Climate, 2017, 30, 2523-2534.	3.2	36
58	Regional Responses to Black Carbon Aerosols: The Importance of Airâ€Sea Interaction. Journal of Geophysical Research D: Atmospheres, 2017, 122, 12,982.	3.3	4
59	Intraurban Temperature Variability in Baltimore. Journal of Applied Meteorology and Climatology, 2017, 56, 159-171.	1.5	23
60	Time-varying changes in the simulated structure of the Breweâ€“Dobson Circulation. Atmospheric Chemistry and Physics, 2017, 17, 1313-1327.	4.9	30
61	Response of trace gases to the disrupted 2015â€“2016 quasi-biennial oscillation. Atmospheric Chemistry and Physics, 2017, 17, 6813-6823.	4.9	39
62	Hemispheric differences in the annual cycle of tropical lower stratosphere transport and tracers. Journal of Geophysical Research D: Atmospheres, 2017, 122, 7183-7199.	3.3	3
63	Largeâ€Scale Atmospheric Transport in <scp>GEOS</scp> Replay Simulations. Journal of Advances in Modeling Earth Systems, 2017, 9, 2545-2560.	3.8	64
64	Tropospheric transport differences between models using the same largeâ€scale meteorological fields. Geophysical Research Letters, 2017, 44, 1068-1078.	4.0	34
65	Temperature and heat in informal settlements in Nairobi. PLoS ONE, 2017, 12, e0187300.	2.5	50
66	Impacts of Interactive Stratospheric Chemistry on Antarctic and Southern Ocean Climate Change in the Goddard Earth Observing System, Version 5 (GEOS-5). Journal of Climate, 2016, 29, 3199-3218.	3.2	36
67	The effect of dust on the martian polar vortices. Icarus, 2016, 278, 100-118.	2.5	26
68	Respiratory Effects of Indoor Heat and the Interaction with Air Pollution in Chronic Obstructive Pulmonary Disease. Annals of the American Thoracic Society, 2016, 13, 2125-2131.	3.2	45
69	Isolating the roles of different forcing agents in global stratospheric temperature changes using model integrations with incrementally added single forcings. Journal of Geophysical Research D: Atmospheres, 2016, 121, 8067-8082.	3.3	38
70	The Transient Response of the Southern Ocean to Stratospheric Ozone Depletion. Journal of Climate, 2016, 29, 7383-7396.	3.2	25
71	The Transit-Time Distribution from the Northern Hemisphere Midlatitude Surface. Journals of the Atmospheric Sciences, 2016, 73, 3785-3802.	1.7	26
72	Martian polar vortices: Comparison of reanalyses. Journal of Geophysical Research E: Planets, 2016, 121, 1770-1785.	3.6	35

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73	Contrasting upper and lower atmospheric metrics of tropical expansion in the Southern Hemisphere. Geophysical Research Letters, 2016, 43, 10,496.	4.0	48
74	Southern Hemisphere extratropical circulation: Recent trends and natural variability. Geophysical Research Letters, 2015, 42, 5508-5515.	4.0	42
75	Recent Hadley cell expansion: The role of internal atmospheric variability in reconciling modeled and observed trends. Geophysical Research Letters, 2015, 42, 10,824.	4.0	62
76	Interhemispheric transit time distributions and pathâ€dependent lifetimes constrained by measurements of SF₆, CFCs, and CFC replacements. Geophysical Research Letters, 2015, 42, 4581-4589.	4.0	21
77	Drivers of the Recent Tropical Expansion in the Southern Hemisphere: Changing SSTs or Ozone Depletion?. Journal of Climate, 2015, 28, 6581-6586.	3.2	83
78	Impact of future nitrous oxide and carbon dioxide emissions on the stratospheric ozone layer. Environmental Research Letters, 2015, 10, 034011.	5.2	28
79	Air-mass Origin in the Arctic. Part II: Response to Increases in Greenhouse Gases. Journal of Climate, 2015, 28, 9105-9120.	3.2	11
80	Classification of atmospheric river events on the U.S. West Coast using a trajectory model. Journal of Geophysical Research D: Atmospheres, 2015, 120, 3007-3028.	3.3	38
81	Seasonality in future tropical lower stratospheric temperature trends. Journal of Geophysical Research D: Atmospheres, 2015, 120, 980-991.	3.3	3
82	Variability and potential sources of summer PM2.5 in the Northeastern United States. Atmospheric Environment, 2015, 117, 259-270.	4.1	8
83	Airâ€mass origin in the tropical lower stratosphere: The influence of Asian boundary layer air. Geophysical Research Letters, 2015, 42, 4240-4248.	4.0	44
84	Airmass Origin in the Arctic. Part I: Seasonality. Journal of Climate, 2015, 28, 4997-5014.	3.2	18
85	Evaluating methods for spatial mapping: Applications for estimating ozone concentrations across the contiguous United States. Environmental Technology and Innovation, 2015, 3, 1-10.	6.1	28
86	Tropospheric Rossby Wave Breaking and Variability of the Latitude of the Eddy-Driven Jet. Journal of Climate, 2014, 27, 7069-7085.	3.2	16
87	Seasonal variation of ozone in the tropical lower stratosphere: Southern tropics are different from northern tropics. Journal of Geophysical Research D: Atmospheres, 2014, 119, 6196-6206.	3.3	30
88	Changes in the ventilation of the southern oceans. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2014, 372, 20130269.	3.4	14
89	Seasonal ventilation of the stratosphere: Robust diagnostics from oneâ€way flux distributions. Journal of Geophysical Research D: Atmospheres, 2014, 119, 293-306.	3.3	7
90	Modifications of the quasiâ€biennial oscillation by a geoengineering perturbation of the stratospheric aerosol layer. Geophysical Research Letters, 2014, 41, 1738-1744.	4.0	90

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91	Uncertainty in Model Predictions of Vibrio vulnificus Response to Climate Variability and Change: A Chesapeake Bay Case Study. PLoS ONE, 2014, 9, e98256.	2.5	20
92	Are the teleconnections of Central Pacific and Eastern Pacific El NiÃ±o distinct in boreal wintertime?. Climate Dynamics, 2013, 41, 1835-1852.	3.8	83
93	The Effect of Tropospheric Jet Latitude on Coupling between the Stratospheric Polar Vortex and the Troposphere. Journal of Climate, 2013, 26, 2077-2095.	3.2	98
94	Southern Hemisphere Stationary Wave Response to Changes of Ozone and Greenhouse Gases. Journal of Climate, 2013, 26, 10205-10217.	3.2	11
95	Contrasting Effects of Central Pacific and Eastern Pacific El NiÃ±o on stratospheric water vapor. Geophysical Research Letters, 2013, 40, 4115-4120.	4.0	33
96	The impact of a realistic vertical dust distribution on the simulation of the Martian General Circulation. Journal of Geophysical Research E: Planets, 2013, 118, 980-993.	3.6	37
97	Estimating changes in ocean ventilation from early 1990s CFCâ€12 and late 2000s SF₆ measurements. Geophysical Research Letters, 2013, 40, 927-932.	4.0	28
98	Connections between the Spring Breakup of the Southern Hemisphere Polar Vortex, Stationary Waves, and Airâ€“Sea Roughness. Journals of the Atmospheric Sciences, 2013, 70, 2137-2151.	1.7	10
99	Impact of Rossby Wave Breaking on U.S. West Coast Winter Precipitation during ENSO Events. Journal of Climate, 2013, 26, 6360-6382.	3.2	71
100	Recent Changes in the Ventilation of the Southern Oceans. Science, 2013, 339, 568-570.	12.6	129
101	The ozone response to ENSO in Aura satellite measurements and a chemistryâ€climate simulation. Journal of Geophysical Research D: Atmospheres, 2013, 118, 965-976.	3.3	98
102	Tropospheric SF₆: Age of air from the Northern Hemisphere midlatitude surface. Journal of Geophysical Research D: Atmospheres, 2013, 118, 11,429.	3.3	37
103	Highâ€altitude dust layers on Mars: Observations with the Thermal Emission Spectrometer. Journal of Geophysical Research E: Planets, 2013, 118, 1177-1194.	3.6	60
104	Airâ€mass origin as a diagnostic of tropospheric transport. Journal of Geophysical Research D: Atmospheres, 2013, 118, 1459-1470.	3.3	31
105	Temperature trends in the tropical upper troposphere and lower stratosphere: Connections with sea surface temperatures and implications for water vapor and ozone. Journal of Geophysical Research D: Atmospheres, 2013, 118, 9658-9672.	3.3	47
106	Does the Holtonâ€“Tan Mechanism Explain How the Quasi-Biennial Oscillation Modulates the Arctic Polar Vortex?. Journals of the Atmospheric Sciences, 2012, 69, 1713-1733.	1.7	135
107	Observed connection between stratospheric sudden warmings and the Maddenâ€Julian Oscillation. Geophysical Research Letters, 2012, 39, .	4.0	128
108	Diagnosing Ocean Stirring: Comparison of Relative Dispersion and Finite-Time Lyapunov Exponents. Journal of Physical Oceanography, 2012, 42, 1173-1185.	1.7	21

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109	Seasonal variations of stratospheric age spectra in the Goddard Earth Observing System Chemistry Climate Model (GEOSCCM). Journal of Geophysical Research, 2012, 117, .	3.3	29
110	Chemistryâ€climate model simulations of recent trends in lower stratospheric temperature and stratospheric residual circulation. Journal of Geophysical Research, 2012, 117, .	3.3	12
111	Observations of planetary waves and nonmigrating tides by the Mars Climate Sounder. Journal of Geophysical Research, 2012, 117, .	3.3	45
112	Why might stratospheric sudden warmings occur with similar frequency in El NiÃ±o and La NiÃ±a winters?. Journal of Geophysical Research, 2012, 117, .	3.3	75
113	Longâ€term changes in stratospheric age spectra in the 21st century in the Goddard Earth Observing System Chemistryâ€Climate Model (GEOSCCM). Journal of Geophysical Research, 2012, 117, .	3.3	24
114	The impact of greenhouse gases on past changes in tropospheric ozone. Journal of Geophysical Research, 2012, 117, .	3.3	9
115	Antarctic ozone depletion and trends in tropopause Rossby wave breaking. Atmospheric Science Letters, 2012, 13, 164-168.	1.9	13
116	How Good are Chemistry-Climate Models?. Research Topics in Aerospace, 2012, , 763-779.	0.7	0
117	Impact of climate change on the frequency of Northern Hemisphere summer cyclones. Journal of Geophysical Research, 2011, 116, .	3.3	25
118	The response of tropical tropospheric ozone to ENSO. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	90
119	Ozone database in support of CMIP5 simulations: results and corresponding radiative forcing. Atmospheric Chemistry and Physics, 2011, 11, 11267-11292.	4.9	244
120	Stratospheric Ozone Depletion: The Main Driver of Twentieth-Century Atmospheric Circulation Changes in the Southern Hemisphere. Journal of Climate, 2011, 24, 795-812.	3.2	529
121	A Climatology of Rossby Wave Breaking on the Southern Hemisphere Tropopause. Journals of the Atmospheric Sciences, 2011, 68, 798-811.	1.7	38
122	The potential to narrow uncertainty in projections of stratospheric ozone over the 21st century. Atmospheric Chemistry and Physics, 2010, 10, 9473-9486.	4.9	25
123	Tracer and timescale methods for understanding complex geophysical and environmental fluid flows. Environmental Fluid Mechanics, 2010, 10, 1-5.	1.6	7
124	The link between cut-off lows and Rossby wave breaking in the Southern Hemisphere. Quarterly Journal of the Royal Meteorological Society, 2010, 136, 869-885.	2.7	59
125	Multi-model assessment of stratospheric ozone return dates and ozone recovery in CCMVal-2 models. Atmospheric Chemistry and Physics, 2010, 10, 9451-9472.	4.9	215
126	Chemistryâ€“Climate Model Simulations of Twenty-First Century Stratospheric Climate and Circulation Changes. Journal of Climate, 2010, 23, 5349-5374.	3.2	280

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127	Mechanisms and feedback causing changes in upper stratospheric ozone in the 21st century. Journal of Geophysical Research, 2010, 115, .	3.3	40
128	Review of the formulation of presentâ€generation stratospheric chemistryâ€climate models and associated external forcings. Journal of Geophysical Research, 2010, 115, .	3.3	150
129	Narrowing of the upwelling branch of the Brewerâ€Dobson circulation and Hadley cell in chemistryâ€climate model simulations of the 21st century. Geophysical Research Letters, 2010, 37, .	4.0	15
130	Multimodel assessment of the factors driving stratospheric ozone evolution over the 21st century. Journal of Geophysical Research, 2010, 115, .	3.3	66
131	Stratospheric polar vortices. Geophysical Monograph Series, 2010, , 43-57.	0.1	54
132	Anthropogenic carbon distributions in the Atlantic Ocean: data-based estimates from the Arctic to the Antarctic. Biogeosciences, 2009, 6, 439-451.	3.3	121
133	PDFs of Tropical Tropospheric Humidity: Measurements and Theory. Journal of Climate, 2009, 22, 3357-3373.	3.2	17
134	The age of stratospheric air. Nature Geoscience, 2009, 2, 14-16.	12.9	53
135	The Impact of Stratospheric Ozone Recovery on Tropopause Height Trends. Journal of Climate, 2009, 22, 429-445.	3.2	68
136	Ozone hole and Southern Hemisphere climate change. Geophysical Research Letters, 2009, 36, .	4.0	167
137	Effect of zonal asymmetries in stratospheric ozone on simulated Southern Hemisphere climate trends. Geophysical Research Letters, 2009, 36, .	4.0	75
138	On the influence of anthropogenic forcings on changes in the stratospheric mean age. Journal of Geophysical Research, 2009, 114, .	3.3	75
139	Impacts of climate change on stratospheric ozone recovery. Geophysical Research Letters, 2009, 36, .	4.0	97
140	Middepth spreading in the subpolar North Atlantic Ocean: Reconciling CFCâ€11 and float observations. Journal of Geophysical Research, 2008, 113, .	3.3	6
141	Use of SF₆ to estimate anthropogenic CO₂ in the upper ocean. Journal of Geophysical Research, 2008, 113, .	3.3	63
142	On transit-time distributions in unsteady circulation models. Ocean Modelling, 2008, 21, 35-45.	2.4	35
143	Stirring in the global surface ocean. Geophysical Research Letters, 2008, 35, .	4.0	76
144	Connections between Potential Vorticity Intrusions and Convection in the Eastern Tropical Pacific. Journals of the Atmospheric Sciences, 2008, 65, 987-1002.	1.7	65

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145	Understanding the Changes of Stratospheric Water Vapor in Coupled Chemistryâ€“Climate Model Simulations. Journals of the Atmospheric Sciences, 2008, 65, 3278-3291.	1.7	51
146	Internal Variability of the Winter Stratosphere. Part II: Time-Dependent Forcing. Journals of the Atmospheric Sciences, 2008, 65, 2375-2388.	1.7	7
147	The Impact of Stratospheric Ozone Recovery on the Southern Hemisphere Westerly Jet. Science, 2008, 320, 1486-1489.	12.6	307
148	Quantitative performance metrics for stratospheric-resolving chemistry-climate models. Atmospheric Chemistry and Physics, 2008, 8, 5699-5713.	4.9	90
149	Variability of subtropical upper tropospheric humidity. Atmospheric Chemistry and Physics, 2008, 8, 2643-2655.	4.9	18
150	Ventilation Rates Estimated from Tracers in the Presence of Mixing. Journal of Physical Oceanography, 2007, 37, 2599-2611.	1.7	26
151	An estimate of anthropogenic CO2 inventory from decadal changes in oceanic carbon content. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 3037-3042.	7.1	92
152	A new formulation of equivalent effective stratospheric chlorine (EESC). Atmospheric Chemistry and Physics, 2007, 7, 4537-4552.	4.9	241
153	Sensitivity of stratospheric inorganic chlorine to differences in transport. Atmospheric Chemistry and Physics, 2007, 7, 4935-4941.	4.9	24
154	Multimodel projections of stratospheric ozone in the 21st century. Journal of Geophysical Research, 2007, 112, .	3.3	308
155	Variations in stratospheric inorganic chlorine between 1991 and 2006. Geophysical Research Letters, 2007, 34, .	4.0	18
156	Assessment of temperature, trace species, and ozone in chemistry-climate model simulations of the recent past. Journal of Geophysical Research, 2006, 111, .	3.3	414
157	Spatial Variations of Stirring in the Surface Ocean: A Case Study of the Tasman Sea. Journal of Physical Oceanography, 2006, 36, 526-542.	1.7	76
158	Anthropogenic CO2 in the oceans estimated using transit time distributions. Tellus, Series B: Chemical and Physical Meteorology, 2006, 58, 376-389.	1.6	181
159	Propagation of Tracer Signals in Boundary Currents. Journal of Physical Oceanography, 2005, 35, 1538-1552.	1.7	23
160	Relationships between Tracer Ages and Potential Vorticity in Unsteady Wind-Driven Circulations. Journal of Physical Oceanography, 2005, 35, 2250-2267.	1.7	3
161	A Strategy for Process-Oriented Validation of Coupled Chemistryâ€“Climate Models. Bulletin of the American Meteorological Society, 2005, 86, 1117-1134.	3.3	139
162	Impact of potential vorticity intrusions on subtropical upper tropospheric humidity. Journal of Geophysical Research, 2005, 110, .	3.3	72

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163	Interannual variability of stratospheric trace gases: The role of extratropical wave driving. Quarterly Journal of the Royal Meteorological Society, 2004, 130, 2459-2474.	2.7	10
164	Upward Wave Activity Flux as a Precursor to Extreme Stratospheric Events and Subsequent Anomalous Surface Weather Regimes. Journal of Climate, 2004, 17, 3548-3554.	3.2	355
165	Estimates of anthropogenic carbon in the Indian Ocean with allowance for mixing and time-varying air-sea CO2disequilibrium. Global Biogeochemical Cycles, 2004, 18, n/a-n/a.	4.9	65
166	Transport times and anthropogenic carbon in the subpolar North Atlantic Ocean. Deep-Sea Research Part I: Oceanographic Research Papers, 2004, 51, 1475-1491.	1.4	131
167	Vacillations in a Shallow-Water Model of the Stratosphere. Journals of the Atmospheric Sciences, 2004, 61, 1174-1185.	1.7	20
168	The Impact on a GCM Climate of an Extended Mosaic Technique for the Landâ€“Atmosphere Coupling. Journal of Climate, 2004, 17, 3877-3891.	3.2	14
169	Enhancement of Rossby Wave Breaking by Steep Potential Vorticity Gradients in the Winter Stratosphere. Journals of the Atmospheric Sciences, 2004, 61, 904-918.	1.7	28
170	Relationships among tracer ages. Journal of Geophysical Research, 2003, 108, .	3.3	168
171	Evaluation of the transport in the Goddard Space Flight Center threeâ€dimensional chemical transport model using the equivalent length diagnostic. Journal of Geophysical Research, 2003, 108, .	3.3	8
172	Rossby Wave Breaking in the Southern Hemisphere Wintertime Upper Troposphere. Monthly Weather Review, 2003, 131, 2623-2634.	1.4	38
173	A New Look at Modeling Surface Heterogeneity: Extending Its Influence in the Vertical. Journal of Hydrometeorology, 2003, 4, 810-825.	1.9	31
174	Intrusions into the Tropical Upper Troposphere: Three-Dimensional Structure and Accompanying Ozone and OLR Distributions. Journals of the Atmospheric Sciences, 2003, 60, 637-653.	1.7	68
175	A method for estimating the extent of denitrification of arctic polar vortex air from tracer-tracer scatter plots. Journal of Geophysical Research, 2002, 107, ACH 6-1.	3.3	18
176	Transit time distributions in Lake Issyk-Kul. Geophysical Research Letters, 2002, 29, 84-1-84-4.	4.0	33
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