

Lorenzo M Polvani

List of Publications by Year in descending order

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Version: 2024-02-01

201
papers

17,677
citations

17776

65
h-index

17891

125
g-index

230
all docs

230
docs citations

230
times ranked

11990
citing authors

#	ARTICLE	IF	CITATIONS
1	An initial-value problem for testing numerical models of the global shallow-water equations. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2022, 56, 429.	0.8	84
2	Improved representation of atmospheric dynamics in <scp>CMIP6</scp> models removes climate sensitivity dependence on Hadley cell climatological extent. <i>Atmospheric Science Letters</i> , 2022, 23, e1073.	0.8	3
3	Stronger Arctic amplification from ozone-depleting substances than from carbon dioxide. <i>Environmental Research Letters</i> , 2022, 17, 024010.	2.2	12
4	Separating the Influences of Low-Latitude Warming and Sea Ice Loss on Northern Hemisphere Climate Change. <i>Journal of Climate</i> , 2022, 35, 2327-2349.	1.2	9
5	The future intensification of the North Atlantic winter storm track: the key role of dynamic ocean coupling. <i>Journal of Climate</i> , 2022, , 1-44.	1.2	1
6	Long-range prediction and the stratosphere. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 2601-2623.	1.9	24
7	Arctic amplification, and its seasonal migration, over a wide range of abrupt CO ₂ forcing. <i>Npj Climate and Atmospheric Science</i> , 2022, 5, .	2.6	10
8	Asymmetric Warming/Cooling Response to CO ₂ Increase/Decrease Mainly Due To Non-Logarithmic Forcing, Not Feedbacks. <i>Geophysical Research Letters</i> , 2022, 49, .	1.5	6
9	New Insights on the Radiative Impacts of Ozone-Depleting Substances. <i>Geophysical Research Letters</i> , 2022, 49, .	1.5	6
10	Volcanic stratospheric injections up to 160 Tg(S) yield a Eurasian winter warming indistinguishable from internal variability. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 8843-8862.	1.9	6
11	Elucidating the Mechanisms Responsible for Hadley Cell Weakening Under 4-Å-Å CO ₂ Forcing. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL090348.	1.5	10
12	Non-Monotonic Response of the Climate System to Abrupt CO ₂ Forcing. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL090861.	1.5	10
13	Robust winter warming over Eurasia under stratospheric sulfate geoengineering – the role of stratospheric dynamics. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 6985-6997.	1.9	28
14	Stratospheric contraction caused by increasing greenhouse gases. <i>Environmental Research Letters</i> , 2021, 16, 064038.	2.2	33
15	Modeling evidence for large, ENSO-driven interannual wintertime AMOC variability. <i>Environmental Research Letters</i> , 2021, 16, 084038.	2.2	5
16	Arctic amplification of climate change: a review of underlying mechanisms. <i>Environmental Research Letters</i> , 2021, 16, 093003.	2.2	151
17	Quantifying the role of ocean coupling in Arctic amplification and sea-ice loss over the 21st century. <i>Npj Climate and Atmospheric Science</i> , 2021, 4, .	2.6	10
18	Interannual SAM Modulation of Antarctic Sea Ice Extent Does Not Account for Its Long-Term Trends, Pointing to a Limited Role for Ozone Depletion. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL094871.	1.5	12

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19	How well do we know the surface impact of sudden stratospheric warmings?. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL095493.	1.5	5
20	Low Antarctic continental climate sensitivity due to high ice sheet orography. <i>Npj Climate and Atmospheric Science</i> , 2020, 3, .	2.6	7
21	Using Multiple Large Ensembles to Elucidate the Discrepancy Between the 1979â€“2019 Modeled and Observed Antarctic Sea Ice Trends. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088339.	1.5	16
22	The vertical profile of recent tropical temperature trends: Persistent model biases in the context of internal variability. <i>Environmental Research Letters</i> , 2020, 15, 1040b4.	2.2	25
23	Nonâ€“Additivity of the Midlatitude Circulation Response to Regional Arctic Temperature Anomalies: The Role of the Stratosphere. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088057.	1.5	0
24	Arctic Amplification: A Rapid Response to Radiative Forcing. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL089933.	1.5	37
25	Contrasting Recent Trends in Southern Hemisphere Westerlies Across Different Ocean Basins. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088890.	1.5	13
26	Tropical climate responses to projected Arctic and Antarctic sea-ice loss. <i>Nature Geoscience</i> , 2020, 13, 275-281.	5.4	76
27	The Community Earth System Model Version 2 (CESM2). <i>Journal of Advances in Modeling Earth Systems</i> , 2020, 12, e2019MS001916.	1.3	935
28	A pause in Southern Hemisphere circulation trends due to the Montreal Protocol. <i>Nature</i> , 2020, 579, 544-548.	13.7	106
29	Identifying a human signal in the North Atlantic warming hole. <i>Nature Communications</i> , 2020, 11, 1540.	5.8	48
30	Linking midlatitudes eddy heat flux trends and polar amplification. <i>Npj Climate and Atmospheric Science</i> , 2020, 3, .	2.6	27
31	Uncertainty in the Response of Sudden Stratospheric Warmings and Stratosphereâ€“Troposphere Coupling to Quadrupled CO ₂ Concentrations in CMIP6 Models. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2019JD032345.	1.2	50
32	Substantial twentieth-century Arctic warming caused by ozone-depleting substances. <i>Nature Climate Change</i> , 2020, 10, 130-133.	8.1	66
33	Robust Arctic warming caused by projected Antarctic sea ice loss. <i>Environmental Research Letters</i> , 2020, 15, 104005.	2.2	20
34	Observed Temperature Changes in the Troposphere and Stratosphere from 1979 to 2018. <i>Journal of Climate</i> , 2020, 33, 8165-8194.	1.2	66
35	The effect of interactive ozone chemistry on weak and strong stratospheric polar vortex events. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 10531-10544.	1.9	26
36	Scant evidence for a volcanically forced winter warming over Eurasia following the Krakatau eruption of August 1883. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 13687-13700.	1.9	13

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37	Distinguishing the impacts of ozone and ozone-depleting substances on the recent increase in Antarctic surface mass balance. <i>Cryosphere</i> , 2020, 14, 4135-4144.	1.5	3
38	The Southern Ocean Sea Surface Temperature Response to Ozone Depletion: A Multimodel Comparison. <i>Journal of Climate</i> , 2019, 32, 5107-5121.	1.2	22
39	Little evidence of reduced global tropical cyclone activity following recent volcanic eruptions. <i>Npj Climate and Atmospheric Science</i> , 2019, 2, .	2.6	13
40	Separating and quantifying the distinct impacts of El Niño and sudden stratospheric warmings on North Atlantic and Eurasian wintertime climate. <i>Atmospheric Science Letters</i> , 2019, 20, e923.	0.8	11
41	The Whole Atmosphere Community Climate Model Version 6 (WACCM6). <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 12380-12403.	1.2	261
42	Exploiting the Abrupt 4 Å– CO ₂ Scenario to Elucidate Tropical Expansion Mechanisms. <i>Journal of Climate</i> , 2019, 32, 859-875.	1.2	41
43	The Response of the Ozone Layer to Quadrupled CO ₂ Concentrations: Implications for Climate. <i>Journal of Climate</i> , 2019, 32, 7629-7642.	1.2	17
44	Insignificant influence of the 11-year solar cycle on the North Atlantic Oscillation. <i>Nature Geoscience</i> , 2019, 12, 94-99.	5.4	42
45	The Effect of Arctic Sea Ice Loss on the Hadley Circulation. <i>Geophysical Research Letters</i> , 2019, 46, 963-972.	1.5	23
46	Opposite tropical circulation trends in climate models and in reanalyses. <i>Nature Geoscience</i> , 2019, 12, 528-532.	5.4	42
47	Northern Hemisphere continental winter warming following the 1991 Mt. Pinatubo eruption: reconciling models and observations. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 6351-6366.	1.9	37
48	Large Impacts, Past and Future, of Ozone-Depleting Substances on Brewer-Dobson Circulation Trends: A Multimodel Assessment. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 6669-6680.	1.2	28
49	Is interactive ozone chemistry important to represent polar cap stratospheric temperature variability in Earth-System Models?. <i>Environmental Research Letters</i> , 2019, 14, 044026.	2.2	15
50	Nonuniform Contribution of Internal Variability to Recent Arctic Sea Ice Loss. <i>Journal of Climate</i> , 2019, 32, 4039-4053.	1.2	69
51	Stratospheric water vapor: an important climate feedback. <i>Climate Dynamics</i> , 2019, 53, 1697-1710.	1.7	47
52	New Insights on the Impact of Ozone-Depleting Substances on the Brewer-Dobson Circulation. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 2435-2451.	1.2	26
53	The Key Role of Ozone-Depleting Substances in Weakening the Walker Circulation in the Second Half of the Twentieth Century. <i>Journal of Climate</i> , 2019, 32, 1411-1418.	1.2	3
54	Antarctic Sea Ice Expansion, Driven by Internal Variability, in the Presence of Increasing Atmospheric CO ₂ . <i>Geophysical Research Letters</i> , 2019, 46, 14762-14771.	1.5	17

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55	No Surface Cooling over Antarctica from the Negative Greenhouse Effect Associated with Instantaneous Quadrupling of CO ₂ Concentrations. <i>Journal of Climate</i> , 2018, 31, 317-323.	1.2	11
56	Significant Weakening of Brewer-Dobson Circulation Trends Over the 21st Century as a Consequence of the Montreal Protocol. <i>Geophysical Research Letters</i> , 2018, 45, 401-409.	1.5	50
57	Observational evidence of the downstream impact on tropical rainfall from stratospheric Kelvin waves. <i>Climate Dynamics</i> , 2018, 50, 3775-3782.	1.7	2
58	Historical forcings as main drivers of the Atlantic multidecadal variability in the CESM large ensemble. <i>Climate Dynamics</i> , 2018, 50, 3687-3698.	1.7	91
59	Model Uncertainty in Cloud-Circulation Coupling, and Cloud-Radiative Response to Increasing CO ₂ , Linked to Biases in Climatological Circulation. <i>Journal of Climate</i> , 2018, 31, 10013-10020.	1.2	3
60	No robust evidence of future changes in major stratospheric sudden warmings: a multi-model assessment from CCMI. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 11277-11287.	1.9	41
61	The Impact of Stratospheric Circulation Extremes on Minimum Arctic Sea Ice Extent. <i>Journal of Climate</i> , 2018, 31, 7169-7183.	1.2	28
62	Contrasting the Antarctic and Arctic Atmospheric Responses to Projected Sea Ice Loss in the Late Twenty-First Century. <i>Journal of Climate</i> , 2018, 31, 6353-6370.	1.2	43
63	Ocean Circulation Reduces the Hadley Cell Response to Increased Greenhouse Gases. <i>Geophysical Research Letters</i> , 2018, 45, 9197-9205.	1.5	14
64	The Response of the Ozone Layer to Quadrupled CO ₂ Concentrations. <i>Journal of Climate</i> , 2018, 31, 3893-3907.	1.2	32
65	Spatial patterns of recent Antarctic surface temperature trends and the importance of natural variability: lessons from multiple reconstructions and the CMIP5 models. <i>Climate Dynamics</i> , 2017, 48, 2653-2670.	1.7	39
66	What Is the Polar Vortex and How Does It Influence Weather?. <i>Bulletin of the American Meteorological Society</i> , 2017, 98, 37-44.	1.7	162
67	Reduced Southern Hemispheric circulation response to quadrupled CO ₂ due to stratospheric ozone feedback. <i>Geophysical Research Letters</i> , 2017, 44, 465-474.	1.5	27
68	Distinguishing Stratospheric Sudden Warmings from ENSO as Key Drivers of Wintertime Climate Variability over the North Atlantic and Eurasia. <i>Journal of Climate</i> , 2017, 30, 1959-1969.	1.2	77
69	Robustness of the Simulated Tropospheric Response to Ozone Depletion. <i>Journal of Climate</i> , 2017, 30, 2577-2585.	1.2	21
70	CMIP5 models' shortwave cloud radiative response and climate sensitivity linked to the climatological Hadley cell extent. <i>Geophysical Research Letters</i> , 2017, 44, 5739-5748.	1.5	34
71	Recent Trends in Extreme Precipitation and Temperature over Southeastern South America: The Dominant Role of Stratospheric Ozone Depletion in the CESM Large Ensemble. <i>Journal of Climate</i> , 2017, 30, 6433-6441.	1.2	19
72	Large Increase in Incident Shortwave Radiation due to the Ozone Hole Offset by High Climatological Albedo over Antarctica. <i>Journal of Climate</i> , 2017, 30, 4883-4890.	1.2	14

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73	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.	1.2	36
74	Troposphereâ€ˆStratosphere Temperature Trends Derived From Satellite Data Compared With Ensemble Simulations From WACCM. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 9651-9667.	1.2	51
75	Dependence of modelâ€™simulated response to ozone depletion on stratospheric polar vortex climatology. <i>Geophysical Research Letters</i> , 2017, 44, 6391-6398.	1.5	24
76	Understanding the Time Scales of the Tropospheric Circulation Response to Abrupt CO ₂ Forcing in the Southern Hemisphere: Seasonality and the Role of the Stratosphere. <i>Journal of Climate</i> , 2017, 30, 8497-8515.	1.2	38
77	Impact of the Montreal Protocol on Antarctic Surface Mass Balance and Implications for Global Sea Level Rise. <i>Journal of Climate</i> , 2017, 30, 7247-7253.	1.2	10
78	The United States â€™warming holeâ€™: Quantifying the forced aerosol response given large internal variability. <i>Geophysical Research Letters</i> , 2017, 44, 1928-1937.	1.5	29
79	Stratospheric Ozone Depletion: An Unlikely Driver of the Regional Trends in Antarctic Sea Ice in Austral Fall in the Late Twentieth Century. <i>Geophysical Research Letters</i> , 2017, 44, 11,062.	1.5	24
80	Anthropogenic impact on Antarctic surface mass balance, currently masked by natural variability, to emerge by mid-century. <i>Environmental Research Letters</i> , 2016, 11, 094001.	2.2	21
81	Highly Significant Responses to Anthropogenic Forcings of the Midlatitude Jet in the Southern Hemisphere. <i>Journal of Climate</i> , 2016, 29, 3463-3470.	1.2	18
82	Robust response of the Amundsen Sea Low to stratospheric ozone depletion. <i>Geophysical Research Letters</i> , 2016, 43, 8207-8213.	1.5	38
83	Revisiting the relationship between jet position, forced response, and annular mode variability in the southern midlatitudes. <i>Geophysical Research Letters</i> , 2016, 43, 2896-2903.	1.5	80
84	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.	1.2	38
85	A test case for the inviscid shallowâ€™water equations on the sphere. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2016, 142, 488-495.	1.0	10
86	New observational evidence for a positive cloud feedback that amplifies the Atlantic Multidecadal Oscillation. <i>Geophysical Research Letters</i> , 2016, 43, 9852-9859.	1.5	57
87	Stratospheric ozone chemistry feedbacks are not critical for the determination of climate sensitivity in CESM1(WACCM). <i>Geophysical Research Letters</i> , 2016, 43, 3928-3934.	1.5	33
88	Is climate sensitivity related to dynamical sensitivity?. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 5159-5176.	1.2	69
89	Contrasting upper and lower atmospheric metrics of tropical expansion in the Southern Hemisphere. <i>Geophysical Research Letters</i> , 2016, 43, 10,496.	1.5	48
90	Troposphereâ€™stratosphere dynamical coupling in the southern high latitudes and its linkage to the Amundsen Sea. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 3776-3789.	1.2	8

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91	Robust Wind and Precipitation Responses to the Mount Pinatubo Eruption, as Simulated in the CMIP5 Models. <i>Journal of Climate</i> , 2016, 29, 4763-4778.	1.2	30
92	Midlatitude cloud shifts, their primary link to the Hadley cell, and their diverse radiative effects. <i>Geophysical Research Letters</i> , 2016, 43, 4594-4601.	1.5	55
93	The Importance of the Montreal Protocol in Mitigating the Potential Intensity of Tropical Cyclones. <i>Journal of Climate</i> , 2016, 29, 2275-2289.	1.2	14
94	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.	1.5	62
95	The impact of ozone depleting substances on the circulation, temperature, and salinity of the Southern Ocean: An attribution study with CESM1(WACCM). <i>Geophysical Research Letters</i> , 2015, 42, 5547-5555.	1.5	39
96	Reexamining the Relationship between Climate Sensitivity and the Southern Hemisphere Radiation Budget in CMIP Models. <i>Journal of Climate</i> , 2015, 28, 9298-9312.	1.2	26
97	Drivers of the Recent Tropical Expansion in the Southern Hemisphere: Changing SSTs or Ozone Depletion?. <i>Journal of Climate</i> , 2015, 28, 6581-6586.	1.2	83
98	On the surface impact of Arctic stratospheric ozone extremes. <i>Environmental Research Letters</i> , 2015, 10, 094003.	2.2	79
99	Contrasting Short- and Long-Term Projections of the Hydrological Cycle in the Southern Extratropics. <i>Journal of Climate</i> , 2015, 28, 5845-5856.	1.2	3
100	CMIP5 Projections of Arctic Amplification, of the North American/North Atlantic Circulation, and of Their Relationship. <i>Journal of Climate</i> , 2015, 28, 5254-5271.	1.2	173
101	The Community Earth System Model (CESM) Large Ensemble Project: A Community Resource for Studying Climate Change in the Presence of Internal Climate Variability. <i>Bulletin of the American Meteorological Society</i> , 2015, 96, 1333-1349.	1.7	1,723
102	Effective stability in a moist baroclinic wave. <i>Atmospheric Science Letters</i> , 2015, 16, 56-62.	0.8	14
103	Distinguishing the impacts of ozone-depleting substances and well-mixed greenhouse gases on Arctic stratospheric ozone and temperature trends. <i>Geophysical Research Letters</i> , 2014, 41, 2652-2660.	1.5	17
104	Is climate sensitivity related to dynamical sensitivity? A Southern Hemisphere perspective. <i>Geophysical Research Letters</i> , 2014, 41, 534-540.	1.5	34
105	Biases in southern hemisphere climate trends induced by coarsely specifying the temporal resolution of stratospheric ozone. <i>Geophysical Research Letters</i> , 2014, 41, 8602-8610.	1.5	29
106	The surface impacts of Arctic stratospheric ozone anomalies. <i>Environmental Research Letters</i> , 2014, 9, 074015.	2.2	53
107	Southern Hemisphere Cloudâ€“Dynamics Biases in CMIP5 Models and Their Implications for Climate Projections. <i>Journal of Climate</i> , 2014, 27, 6074-6092.	1.2	76
108	The Specified Chemistry Whole Atmosphere Community Climate Model (SCâ€“WACCM). <i>Journal of Advances in Modeling Earth Systems</i> , 2014, 6, 883-901.	1.3	69

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109	Separating the stratospheric and tropospheric pathways of El Niño–Southern Oscillation teleconnections. <i>Environmental Research Letters</i> , 2014, 9, 024014.	2.2	136
110	Delayed Southern Hemisphere Climate Change Induced by Stratospheric Ozone Recovery, as Projected by the CMIP5 Models. <i>Journal of Climate</i> , 2014, 27, 852-867.	1.2	71
111	The response of extratropical cyclones in the Southern Hemisphere to stratospheric ozone depletion in the 20th century. <i>Atmospheric Science Letters</i> , 2014, 15, 29-36.	0.8	15
112	Stratospheric ozone depletion: a key driver of recent precipitation trends in South Eastern South America. <i>Climate Dynamics</i> , 2014, 42, 1775-1792.	1.7	62
113	Impact of the Tropopause Temperature on the Intensity of Tropical Cyclones: An Idealized Study Using a Mesoscale Model. <i>Journals of the Atmospheric Sciences</i> , 2014, 71, 4333-4348.	0.6	59
114	Climate system response to stratospheric ozone depletion and recovery. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2014, 140, 2401-2419.	1.0	127
115	The response of midlatitude jets to increased CO ₂ : Distinguishing the roles of sea surface temperature and direct radiative forcing. <i>Geophysical Research Letters</i> , 2014, 41, 6863-6871.	1.5	86
116	Seasonal ventilation of the stratosphere: Robust diagnostics from one-way flux distributions. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 293-306.	1.2	7
117	The ozone hole indirect effect: Cloud-radiative anomalies accompanying the poleward shift of the eddy-driven jet in the Southern Hemisphere. <i>Geophysical Research Letters</i> , 2013, 40, 3688-3692.	1.5	58
118	Midlatitude storms in a moister world: lessons from idealized baroclinic life cycle experiments. <i>Climate Dynamics</i> , 2013, 41, 787-802.	1.7	74
119	On the lack of stratospheric dynamical variability in low-top versions of the CMIP5 models. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 2494-2505.	1.2	268
120	Modeling evidence that ozone depletion has impacted extreme precipitation in the austral summer. <i>Geophysical Research Letters</i> , 2013, 40, 4054-4059.	1.5	20
121	Can natural variability explain observed Antarctic sea ice trends? New modeling evidence from CMIP5. <i>Geophysical Research Letters</i> , 2013, 40, 3195-3199.	1.5	143
122	Improved seasonal forecast using ozone hole variability?. <i>Geophysical Research Letters</i> , 2013, 40, 6231-6235.	1.5	45
123	Are recent Arctic ozone losses caused by increasing greenhouse gases?. <i>Geophysical Research Letters</i> , 2013, 40, 4437-4441.	1.5	32
124	The Antarctic Atmospheric Energy Budget. Part II: The Effect of Ozone Depletion and its Projected Recovery. <i>Journal of Climate</i> , 2013, 26, 9729-9744.	1.2	8
125	Response of the Midlatitude Jets, and of Their Variability, to Increased Greenhouse Gases in the CMIP5 Models. <i>Journal of Climate</i> , 2013, 26, 7117-7135.	1.2	380
126	Understanding Hadley Cell Expansion versus Contraction: Insights from Simplified Models and Implications for Recent Observations. <i>Journal of Climate</i> , 2013, 26, 4304-4321.	1.2	81

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127	The Importance of the Montreal Protocol in Protecting Earth's Hydroclimate. <i>Journal of Climate</i> , 2013, 26, 4049-4068.	1.2	28
128	Uncertainty in Climate Change Projections of the Hadley Circulation: The Role of Internal Variability. <i>Journal of Climate</i> , 2013, 26, 7541-7554.	1.2	49
129	Climate Change from 1850 to 2005 Simulated in CESM1 (WACCM). <i>Journal of Climate</i> , 2013, 26, 7372-7391.	1.2	706
130	Lifetime dependent flux into the lowermost stratosphere for idealized trace gases of surface origin. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 9367-9375.	1.2	1
131	Air mass origin as a diagnostic of tropospheric transport. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 1459-1470.	1.2	31
132	Assessing and Understanding the Impact of Stratospheric Dynamics and Variability on the Earth System. <i>Bulletin of the American Meteorological Society</i> , 2012, 93, 845-859.	1.7	146
133	Flux distributions as robust diagnostics of stratosphere-troposphere exchange. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	18
134	Comment on "Tropospheric temperature response to stratospheric ozone recovery in the 21st century" by Hu et al. (2011). <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 4893-4896.	1.9	4
135	The signature of ozone depletion on tropical temperature trends, as revealed by their seasonal cycle in model integrations with single forcings. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	28
136	Why might stratospheric sudden warmings occur with similar frequency in El Niño and La Niña winters?. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	75
137	Antarctic climate response to stratospheric ozone depletion in a fine resolution ocean climate model. <i>Geophysical Research Letters</i> , 2012, 39, .	1.5	112
138	Mitigation of 21st century Antarctic sea ice loss by stratospheric ozone recovery. <i>Geophysical Research Letters</i> , 2012, 39, .	1.5	44
139	Antarctic ozone depletion and trends in tropopause Rossby wave breaking. <i>Atmospheric Science Letters</i> , 2012, 13, 164-168.	0.8	13
140	Double tropopause formation in idealized baroclinic life cycles: The key role of an initial tropopause inversion layer. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	22
141	Large cancellation, due to ozone recovery, of future Southern Hemisphere atmospheric circulation trends. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	1.5	105
142	El Niño, La Niña, and stratospheric sudden warmings: A reevaluation in light of the observational record. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	1.5	111
143	The fine-scale structure of the global tropopause derived from COSMIC GPS radio occultation measurements. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	72
144	Impact of Polar Ozone Depletion on Subtropical Precipitation. <i>Science</i> , 2011, 332, 951-954.	6.0	220

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145	EQUATORIAL SUPERROTATION ON TIDALLY LOCKED EXOPLANETS. <i>Astrophysical Journal</i> , 2011, 738, 71.	1.6	316
146	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.	1.2	529
147	The Interannual Relationship between the Latitude of the Eddy-Driven Jet and the Edge of the Hadley Cell. <i>Journal of Climate</i> , 2011, 24, 563-568.	1.2	79
148	The Matsuno-Gill model and equatorial superrotation. <i>Geophysical Research Letters</i> , 2010, 37, .	1.5	70
149	Impact of stratospheric ozone on Southern Hemisphere circulation change: A multimodel assessment. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	280
150	The Impact of Stratospheric Ozone Recovery on Tropopause Height Trends. <i>Journal of Climate</i> , 2009, 22, 429-445.	1.2	68
151	Stratosphere-Troposphere Coupling in a Relatively Simple AGCM: The Importance of Stratospheric Variability. <i>Journal of Climate</i> , 2009, 22, 1920-1933.	1.2	126
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