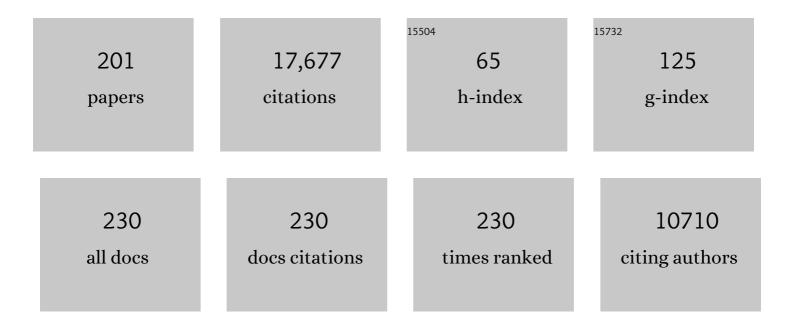
List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|---|------|-----------|
| 1 | The Community Earth System Model (CESM) Large Ensemble Project: A Community Resource for Studying Climate Change in the Presence of Internal Climate Variability. Bulletin of the American Meteorological Society, 2015, 96, 1333-1349. | 3.3 | 1,723 |
| 2 | The Community Earth System Model Version 2 (CESM2). Journal of Advances in Modeling Earth Systems, 2020, 12, e2019MS001916. | 3.8 | 935 |
| 3 | A New Look at Stratospheric Sudden Warmings. Part I: Climatology and Modeling Benchmarks. Journal of Climate, 2007, 20, 449-469. | 3.2 | 833 |
| 4 | Climate Change from 1850 to 2005 Simulated in CESM1(WACCM). Journal of Climate, 2013, 26, 7372-7391. | 3.2 | 706 |
| 5 | 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 |
| 6 | The Weak Temperature Gradient Approximation and Balanced Tropical Moisture Waves*. Journals of the Atmospheric Sciences, 2001, 58, 3650-3665. | 1.7 | 504 |
| 7 | The North Atlantic Oscillation: Past, present, and future. Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 12876-12877. | 7.1 | 449 |
| 8 | Response of the Midlatitude Jets, and of Their Variability, to Increased Greenhouse Gases in the CMIP5 Models. Journal of Climate, 2013, 26, 7117-7135. | 3.2 | 380 |
| 9 | 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 |
| 10 | EQUATORIAL SUPERROTATION ON TIDALLY LOCKED EXOPLANETS. Astrophysical Journal, 2011, 738, 71. | 4.5 | 316 |
| 11 | The Impact of Stratospheric Ozone Recovery on the Southern Hemisphere Westerly Jet. Science, 2008, 320, 1486-1489. | 12.6 | 307 |
| 12 | Impact of stratospheric ozone on Southern Hemisphere circulation change: A multimodel assessment. Journal of Geophysical Research, 2010, 115, . | 3.3 | 280 |
| 13 | Tropospheric response to stratospheric perturbations in a relatively simple general circulation model. Geophysical Research Letters, 2002, 29, 18-1. | 4.0 | 274 |
| 14 | On the lack of stratospheric dynamical variability in lowâ€ŧop versions of the CMIP5 models. Journal of Geophysical Research D: Atmospheres, 2013, 118, 2494-2505. | 3.3 | 268 |
| 15 | The Whole Atmosphere Community Climate Model Version 6 (WACCM6). Journal of Geophysical Research D: Atmospheres, 2019, 124, 12380-12403. | 3.3 | 261 |
| 16 | Impact of Polar Ozone Depletion on Subtropical Precipitation. Science, 2011, 332, 951-954. | 12.6 | 220 |
| 17 | Climatology of intrusions into the tropical upper troposphere. Geophysical Research Letters, 2000, 27, 3857-3860. | 4.0 | 206 |
| 18 | Blocking precursors to stratospheric sudden warming events. Geophysical Research Letters, 2009, 36, . | 4.0 | 198 |

| # | Article | IF | CITATIONS |
|----|--|------|-----------|
| 19 | The emergence of jets and vortices in freely evolving, shallowâ€water turbulence on a sphere. Physics of Fluids, 1996, 8, 1531-1552. | 4.0 | 191 |
| 20 | CMIP5 Projections of Arctic Amplification, of the North American/North Atlantic Circulation, and of Their Relationship. Journal of Climate, 2015, 28, 5254-5271. | 3.2 | 173 |
| 21 | Stratosphere–Troposphere Coupling in a Relatively Simple AGCM: The Role of Eddies. Journal of Climate, 2004, 17, 629-639. | 3.2 | 171 |
| 22 | Ozone hole and Southern Hemisphere climate change. Geophysical Research Letters, 2009, 36, . | 4.0 | 167 |
| 23 | What Is the Polar Vortex and How Does It Influence Weather?. Bulletin of the American Meteorological Society, 2017, 98, 37-44. | 3.3 | 162 |
| 24 | Arctic amplification of climate change: a review of underlying mechanisms. Environmental Research Letters, 2021, 16, 093003. | 5.2 | 151 |
| 25 | Assessing and Understanding the Impact of Stratospheric Dynamics and Variability on the Earth System. Bulletin of the American Meteorological Society, 2012, 93, 845-859. | 3.3 | 146 |
| 26 | Can natural variability explain observed Antarctic sea ice trends? New modeling evidence from CMIP5. Geophysical Research Letters, 2013, 40, 3195-3199. | 4.0 | 143 |
| 27 | Separating the stratospheric and tropospheric pathways of El Niño–Southern Oscillation teleconnections. Environmental Research Letters, 2014, 9, 024014. | 5.2 | 136 |
| 28 | A New Look at Stratospheric Sudden Warmings. Part II: Evaluation of Numerical Model Simulations. Journal of Climate, 2007, 20, 470-488. | 3.2 | 129 |
| 29 | Climate system response to stratospheric ozone depletion and recovery. Quarterly Journal of the Royal Meteorological Society, 2014, 140, 2401-2419. | 2.7 | 127 |
| 30 | Stratosphere–Troposphere Coupling in a Relatively Simple AGCM: The Importance of Stratospheric Variability. Journal of Climate, 2009, 22, 1920-1933. | 3.2 | 126 |
| 31 | A New Look at Stratospheric Sudden Warmings. Part III: Polar Vortex Evolution and Vertical Structure. Journal of Climate, 2009, 22, 1566-1585. | 3.2 | 124 |
| 32 | The Generation of Tripoles from Unstable Axisymmetric Isolated Vortex Structures. Europhysics Letters, 1989, 9, 339-344. | 2.0 | 121 |
| 33 | The coherent structures of shallowâ€water turbulence: Deformationâ€radius effects, cyclone/anticyclone asymmetry and gravityâ€wave generation. Chaos, 1994, 4, 177-186. | 2.5 | 117 |
| 34 | Antarctic climate response to stratospheric ozone depletion in a fine resolution ocean climate model. Geophysical Research Letters, 2012, 39, . | 4.0 | 112 |
| 35 | El Niño, La Niña, and stratospheric sudden warmings: A reevaluation in light of the observational record. Geophysical Research Letters, 2011, 38, n/a-n/a. | 4.0 | 111 |
| 36 | A pause in Southern Hemisphere circulation trends due to the Montreal Protocol. Nature, 2020, 579, 544-548. | 27.8 | 106 |

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| 37 | Large cancellation, due to ozone recovery, of future Southern Hemisphere atmospheric circulation trends. Geophysical Research Letters, 2011, 38, n/a-n/a. | 4.0 | 105 |
| 38 | Two-layer geostrophic vortex dynamics. Part 2. Alignment and two-layer V-states. Journal of Fluid Mechanics, 1991, 225, 241-270. | 3.4 | 102 |
| 39 | The Morphogenesis of Bands and Zonal Winds in the Atmospheres on the Giant Outer Planets. Science, 1996, 273, 335-337. | 12.6 | 101 |
| 40 | Wave and vortex dynamics on the surface of a sphere. Journal of Fluid Mechanics, 1993, 255, 35. | 3.4 | 99 |
| 41 | Forced-Dissipative Shallow-Water Turbulence on the Sphere and the Atmospheric Circulation of the Giant Planets. Journals of the Atmospheric Sciences, 2007, 64, 3158-3176. | 1.7 | 97 |
| 42 | The Effect of Lower Stratospheric Shear on Baroclinic Instability. Journals of the Atmospheric Sciences, 2007, 64, 479-496. | 1.7 | 94 |
| 43 | Historical forcings as main drivers of the Atlantic multidecadal variability in the CESM large ensemble. Climate Dynamics, 2018, 50, 3687-3698. | 3.8 | 91 |
| 44 | Two-layer geostrophic vortex dynamics. Part 1. Upper-layer V-states and merger. Journal of Fluid Mechanics, 1989, 205, 215. | 3.4 | 88 |
| 45 | Internal Variability of the Winter Stratosphere. Part I: Time-Independent Forcing. Journals of the Atmospheric Sciences, 2006, 63, 2758-2776. | 1.7 | 88 |
| 46 | Testing the Annular Mode Autocorrelation Time Scale in Simple Atmospheric General Circulation Models. Monthly Weather Review, 2008, 136, 1523-1536. | 1.4 | 88 |
| 47 | An initial-value problem for testing numerical models of the global shallow-water equations. Tellus, Series A: Dynamic Meteorology and Oceanography, 2004, 56, 429-440. | 1.7 | 88 |
| 48 | The response of midlatitude jets to increased CO ₂ : Distinguishing the roles of sea surface temperature and direct radiative forcing. Geophysical Research Letters, 2014, 41, 6863-6871. | 4.0 | 86 |
| 49 | An initial-value problem for testing numerical models of the global shallow-water equations. Tellus, Series A: Dynamic Meteorology and Oceanography, 2022, 56, 429. | 1.7 | 84 |
| 50 | Stratospheric influence on the tropospheric circulation revealed by idealized ensemble forecasts. Geophysical Research Letters, 2009, 36, . | 4.0 | 84 |
| 51 | 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 |
| 52 | Understanding Hadley Cell Expansion versus Contraction: Insights from Simplified Models and Implications for Recent Observations. Journal of Climate, 2013, 26, 4304-4321. | 3.2 | 81 |
| 53 | Revisiting the relationship between jet position, forced response, and annular mode variability in the southern midlatitudes. Geophysical Research Letters, 2016, 43, 2896-2903. | 4.0 | 80 |
| 54 | The Interannual Relationship between the Latitude of the Eddy-Driven Jet and the Edge of the Hadley Cell. Journal of Climate, 2011, 24, 563-568. | 3.2 | 79 |

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| 55 | On the surface impact of Arctic stratospheric ozone extremes. Environmental Research Letters, 2015, 10, 094003. | 5.2 | 79 |
| 56 | Distinguishing Stratospheric Sudden Warmings from ENSO as Key Drivers of Wintertime Climate Variability over the North Atlantic and Eurasia. Journal of Climate, 2017, 30, 1959-1969. | 3.2 | 77 |
| 57 | Southern Hemisphere Cloud–Dynamics Biases in CMIP5 Models and Their Implications for Climate Projections. Journal of Climate, 2014, 27, 6074-6092. | 3.2 | 76 |
| 58 | Tropical climate responses to projected Arctic and Antarctic sea-ice loss. Nature Geoscience, 2020, 13, 275-281. | 12.9 | 76 |
| 59 | Stratospheric control of upward wave flux near the tropopause. Geophysical Research Letters, 2004, 31, . | 4.0 | 75 |
| 60 | Annular mode time scales in the Intergovernmental Panel on Climate Change Fourth Assessment Report models. Geophysical Research Letters, 2008, 35, . | 4.0 | 75 |
| 61 | Why might stratospheric sudden warmings occur with similar frequency in El Niño and La Niña winters?. Journal of Geophysical Research, 2012, 117, . | 3.3 | 75 |
| 62 | Midlatitude storms in a moister world: lessons from idealized baroclinic life cycle experiments. Climate Dynamics, 2013, 41, 787-802. | 3.8 | 74 |
| 63 | The fine-scale structure of the global tropopause derived from COSMIC GPS radio occultation measurements. Journal of Geophysical Research, 2011, 116, . | 3.3 | 72 |
| 64 | Delayed Southern Hemisphere Climate Change Induced by Stratospheric Ozone Recovery, as Projected by the CMIP5 Models. Journal of Climate, 2014, 27, 852-867. | 3.2 | 71 |
| 65 | The Matsunoâ \in Gill model and equatorial superrotation. Geophysical Research Letters, 2010, 37, . | 4.0 | 70 |
| 66 | The Specified Chemistry Whole Atmosphere Community Climate Model (SCâ€WACCM). Journal of Advances in Modeling Earth Systems, 2014, 6, 883-901. | 3.8 | 69 |
| 67 | Is climate sensitivity related to dynamical sensitivity?. Journal of Geophysical Research D: Atmospheres, 2016, 121, 5159-5176. | 3.3 | 69 |
| 68 | Nonuniform Contribution of Internal Variability to Recent Arctic Sea Ice Loss. Journal of Climate, 2019, 32, 4039-4053. | 3.2 | 69 |
| 69 | The Impact of Stratospheric Ozone Recovery on Tropopause Height Trends. Journal of Climate, 2009, 22, 429-445. | 3.2 | 68 |
| 70 | Substantial twentieth-century Arctic warming caused by ozone-depleting substances. Nature Climate Change, 2020, 10, 130-133. | 18.8 | 66 |
| 71 | Observed Temperature Changes in the Troposphere and Stratosphere from 1979 to 2018. Journal of Climate, 2020, 33, 8165-8194. | 3.2 | 66 |
| 72 | The Three-Dimensional Structure of Breaking Rossby Waves in the Polar Wintertime Stratosphere. Journals of the Atmospheric Sciences, 2000, 57, 3663-3685. | 1.7 | 65 |

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| 73 | Simple Dynamical Models of Neptune's Great Dark Spot. Science, 1990, 249, 1393-1398. | 12.6 | 62 |
| 74 | Stratospheric ozone depletion: a key driver of recent precipitation trends in South Eastern South America. Climate Dynamics, 2014, 42, 1775-1792. | 3.8 | 62 |
| 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 | Transport and mixing of chemical air masses in idealized baroclinic life cycles. Journal of Geophysical Research, 2007, 112, . | 3.3 | 60 |
| 77 | Stratospheric influence on baroclinic lifecycles and its connection to the Arctic Oscillation. Geophysical Research Letters, 2004, 31, . | 4.0 | 59 |
| 78 | Impact of the Tropopause Temperature on the Intensity of Tropical Cyclones: An Idealized Study Using a Mesoscale Model. Journals of the Atmospheric Sciences, 2014, 71, 4333-4348. | 1.7 | 59 |
| 79 | The ozone hole indirect effect: Cloudâ€radiative anomalies accompanying the poleward shift of the eddyâ€driven jet in the Southern Hemisphere. Geophysical Research Letters, 2013, 40, 3688-3692. | 4.0 | 58 |
| 80 | The Contour-Advective Semi-Lagrangian Algorithm for the Shallow Water Equations. Monthly Weather Review, 1999, 127, 1551-1565. | 1.4 | 57 |
| 81 | New observational evidence for a positive cloud feedback that amplifies the Atlantic Multidecadal Oscillation. Geophysical Research Letters, 2016, 43, 9852-9859. | 4.0 | 57 |
| 82 | The tripole: A new coherent vortex structure of incompressible two-dimensional flows. Geophysical and Astrophysical Fluid Dynamics, 1990, 51, 87-102. | 1.2 | 56 |
| 83 | Equatorial superrotation in shallow atmospheres. Geophysical Research Letters, 2008, 35, . | 4.0 | 56 |
| 84 | Midlatitude cloud shifts, their primary link to the Hadley cell, and their diverse radiative effects. Geophysical Research Letters, 2016, 43, 4594-4601. | 4.0 | 55 |
| 85 | Numerically Converged Solutions of the Global Primitive Equations for Testing the Dynamical Core of Atmospheric GCMs. Monthly Weather Review, 2004, 132, 2539-2552. | 1.4 | 54 |
| 86 | The surface impacts of Arctic stratospheric ozone anomalies. Environmental Research Letters, 2014, 9, 074015. | 5.2 | 53 |
| 87 | Troposphereâ€Stratosphere Temperature Trends Derived From Satellite Data Compared With Ensemble Simulations From WACCM. Journal of Geophysical Research D: Atmospheres, 2017, 122, 9651-9667. | 3.3 | 51 |
| 88 | Significant Weakening of Brewerâ€Dobson Circulation Trends Over the 21st Century as a Consequence of the Montreal Protocol. Geophysical Research Letters, 2018, 45, 401-409. | 4.0 | 50 |
| 89 | Uncertainty in the Response of Sudden Stratospheric Warmings and Stratosphereâ€Troposphere Coupling to Quadrupled CO ₂ Concentrations in CMIP6 Models. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2019JD032345. | 3.3 | 50 |
| 90 | Uncertainty in Climate Change Projections of the Hadley Circulation: The Role of Internal Variability. Journal of Climate, 2013, 26, 7541-7554. | 3.2 | 49 |

| # | Article | IF | CITATIONS |
|-----|--|------|-----------|
| 91 | Contrasting upper and lower atmospheric metrics of tropical expansion in the Southern Hemisphere. Geophysical Research Letters, 2016, 43, 10,496. | 4.0 | 48 |
| 92 | Identifying a human signal in the North Atlantic warming hole. Nature Communications, 2020, 11, 1540. | 12.8 | 48 |
| 93 | Time-Dependent Fully Nonlinear Geostrophic Adjustment. Journal of Physical Oceanography, 1997, 27, 1614-1634. | 1.7 | 47 |
| 94 | Stratospheric water vapor: an important climate feedback. Climate Dynamics, 2019, 53, 1697-1710. | 3.8 | 47 |
| 95 | The frequency and dynamics of stratospheric sudden warmings in the 21st century. Journal of Geophysical Research, 2008, 113, . | 3.3 | 46 |
| 96 | The roll-up of vorticity strips on the surface of a sphere. Journal of Fluid Mechanics, 1992, 234, 47. | 3.4 | 45 |
| 97 | The Coupled Stratosphere–Troposphere Response to Impulsive Forcing from the Troposphere. Journals of the Atmospheric Sciences, 2005, 62, 3337-3352. | 1.7 | 45 |
| 98 | Improved seasonal forecast using ozone hole variability?. Geophysical Research Letters, 2013, 40, 6231-6235. | 4.0 | 45 |
| 99 | Mitigation of 21st century Antarctic sea ice loss by stratospheric ozone recovery. Geophysical Research Letters, 2012, 39, . | 4.0 | 44 |
| 100 | Contrasting the Antarctic and Arctic Atmospheric Responses to Projected Sea Ice Loss in the Late Twenty-First Century. Journal of Climate, 2018, 31, 6353-6370. | 3.2 | 43 |
| 101 | Insignificant influence of the 11-year solar cycle on the North Atlantic Oscillation. Nature Geoscience, 2019, 12, 94-99. | 12.9 | 42 |
| 102 | Opposite tropical circulation trends in climate models and in reanalyses. Nature Geoscience, 2019, 12, 528-532. | 12.9 | 42 |
| 103 | No robust evidence of future changes in major stratospheric sudden warmings: a multi-model assessment from CCMI. Atmospheric Chemistry and Physics, 2018, 18, 11277-11287. | 4.9 | 41 |
| 104 | Exploiting the Abrupt 4 × CO ₂ Scenario to Elucidate Tropical Expansion Mechanisms. Journal of Climate, 2019, 32, 859-875. | 3.2 | 41 |
| 105 | The impact of ozone depleting substances on the circulation, temperature, and salinity of the Southern Ocean: An attribution study with CESM1(WACCM). Geophysical Research Letters, 2015, 42, 5547-5555. | 4.0 | 39 |
| 106 | Spatial patterns of recent Antarctic surface temperature trends and the importance of natural variability: lessons from multiple reconstructions and the CMIP5 models. Climate Dynamics, 2017, 48, 2653-2670. | 3.8 | 39 |
| 107 | Nonlinear geostrophic adjustment, cyclone/anticyclone asymmetry, and potential vorticity rearrangement. Physics of Fluids, 2000, 12, 1087-1100. | 4.0 | 38 |
| 108 | Dynamical formation of an extra-tropical tropopause inversion layer in a relatively simple general circulation model. Geophysical Research Letters, 2007, 34, . | 4.0 | 38 |

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| 109 | Robust response of the Amundsen Sea Low to stratospheric ozone depletion. Geophysical Research Letters, 2016, 43, 8207-8213. | 4.0 | 38 |
| 110 | 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 |
| 111 | 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. Journal of Climate, 2017, 30, 8497-8515. | 3.2 | 38 |
| 112 | Northern Hemisphere continental winter warming following the 1991 Mt.ÂPinatubo eruption: reconciling models and observations. Atmospheric Chemistry and Physics, 2019, 19, 6351-6366. | 4.9 | 37 |
| 113 | Arctic Amplification: A Rapid Response to Radiative Forcing. Geophysical Research Letters, 2020, 47, e2020GL089933. | 4.0 | 37 |
| 114 | Chaotic Lagrangian trajectories around an elliptical vortex patch embedded in a constant and uniform background shear flow. Physics of Fluids A, Fluid Dynamics, 1990, 2, 123-126. | 1.6 | 36 |
| 115 | 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 |
| 116 | Is climate sensitivity related to dynamical sensitivity? A Southern Hemisphere perspective. Geophysical Research Letters, 2014, 41, 534-540. | 4.0 | 34 |
| 117 | CMIP5 models' shortwave cloud radiative response and climate sensitivity linked to the climatological Hadley cell extent. Geophysical Research Letters, 2017, 44, 5739-5748. | 4.0 | 34 |
| 118 | Barotropic vortex pairs on a rotating sphere. Journal of Fluid Mechanics, 1998, 358, 107-133. | 3.4 | 33 |
| 119 | Stratospheric ozone chemistry feedbacks are not critical for the determination of climate sensitivity in CESM1(WACCM). Geophysical Research Letters, 2016, 43, 3928-3934. | 4.0 | 33 |
| 120 | Stratospheric contraction caused by increasing greenhouse gases. Environmental Research Letters, 2021, 16, 064038. | 5.2 | 33 |
| 121 | Are recent Arctic ozone losses caused by increasing greenhouse gases?. Geophysical Research Letters, 2013, 40, 4437-4441. | 4.0 | 32 |
| 122 | The Response of the Ozone Layer to Quadrupled CO2 Concentrations. Journal of Climate, 2018, 31, 3893-3907. | 3.2 | 32 |
| 123 | On the Meridional Structure of Annular Modes. Journal of Climate, 2005, 18, 2119-2122. | 3.2 | 31 |
| 124 | Airâ€mass origin as a diagnostic of tropospheric transport. Journal of Geophysical Research D: Atmospheres, 2013, 118, 1459-1470. | 3.3 | 31 |
| 125 | Robust Wind and Precipitation Responses to the Mount Pinatubo Eruption, as Simulated in the CMIP5 Models. Journal of Climate, 2016, 29, 4763-4778. | 3.2 | 30 |
| 126 | Biases in southern hemisphere climate trends induced by coarsely specifying the temporal resolution of stratospheric ozone. Geophysical Research Letters, 2014, 41, 8602-8610. | 4.0 | 29 |

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| 127 | The United States "warming hole― Quantifying the forced aerosol response given large internal variability. Geophysical Research Letters, 2017, 44, 1928-1937. | 4.0 | 29 |
| 128 | The signature of ozone depletion on tropical temperature trends, as revealed by their seasonal cycle in model integrations with single forcings. Journal of Geophysical Research, 2012, 117, . | 3.3 | 28 |
| 129 | The Importance of the Montreal Protocol in Protecting Earth's Hydroclimate. Journal of Climate, 2013, 26, 4049-4068. | 3.2 | 28 |
| 130 | The Impact of Stratospheric Circulation Extremes on Minimum Arctic Sea Ice Extent. Journal of Climate, 2018, 31, 7169-7183. | 3.2 | 28 |
| 131 | Large Impacts, Past and Future, of Ozoneâ€Depleting Substances on Brewerâ€Dobson Circulation Trends: A Multimodel Assessment. Journal of Geophysical Research D: Atmospheres, 2019, 124, 6669-6680. | 3.3 | 28 |
| 132 | Robust winter warming over Eurasia under stratospheric sulfate geoengineering – the role of stratospheric dynamics. Atmospheric Chemistry and Physics, 2021, 21, 6985-6997. | 4.9 | 28 |
| 133 | The Antarctic stratospheric sudden warming of 2002: A self-tuned resonance?. Geophysical Research Letters, 2006, 33, . | 4.0 | 27 |
| 134 | Reduced Southern Hemispheric circulation response to quadrupled CO ₂ due to stratospheric ozone feedback. Geophysical Research Letters, 2017, 44, 465-474. | 4.0 | 27 |
| 135 | Linking midlatitudes eddy heat flux trends and polar amplification. Npj Climate and Atmospheric Science, 2020, 3, . | 6.8 | 27 |
| 136 | Reexamining the Relationship between Climate Sensitivity and the Southern Hemisphere Radiation Budget in CMIP Models. Journal of Climate, 2015, 28, 9298-9312. | 3.2 | 26 |
| 137 | New Insights on the Impact of Ozoneâ€Depleting Substances on the Brewerâ€Dobson Circulation. Journal of Geophysical Research D: Atmospheres, 2019, 124, 2435-2451. | 3.3 | 26 |
| 138 | The effect of interactive ozone chemistry on weak and strong stratospheric polar vortex events. Atmospheric Chemistry and Physics, 2020, 20, 10531-10544. | 4.9 | 26 |
| 139 | The vertical profile of recent tropical temperature trends: Persistent model biases in the context of internal variability. Environmental Research Letters, 2020, 15, 1040b4. | 5.2 | 25 |
| 140 | Dependence of modelâ€simulated response to ozone depletion on stratospheric polar vortex climatology. Geophysical Research Letters, 2017, 44, 6391-6398. | 4.0 | 24 |
| 141 | Stratospheric Ozone Depletion: An Unlikely Driver of the Regional Trends in Antarctic Sea Ice in Austral Fall in the Late Twentieth Century. Geophysical Research Letters, 2017, 44, 11,062. | 4.0 | 24 |
| 142 | Long-range prediction and the stratosphere. Atmospheric Chemistry and Physics, 2022, 22, 2601-2623. | 4.9 | 24 |
| 143 | A Very Large, Spontaneous Stratospheric Sudden Warming in a Simple AGCM: A Prototype for the Southern Hemisphere Warming of 2002?. Journals of the Atmospheric Sciences, 2005, 62, 890-897. | 1.7 | 23 |
| 144 | The Effect of Arctic Sea Ice Loss on the Hadley Circulation. Geophysical Research Letters, 2019, 46, 963-972. | 4.0 | 23 |

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| 145 | Double tropopause formation in idealized baroclinic life cycles: The key role of an initial tropopause inversion layer. Journal of Geophysical Research, 2011, 116, . | 3.3 | 22 |
| 146 | The Southern Ocean Sea Surface Temperature Response to Ozone Depletion: A Multimodel Comparison. Journal of Climate, 2019, 32, 5107-5121. | 3.2 | 22 |
| 147 | Anthropogenic impact on Antarctic surface mass balance, currently masked by natural variability, to emerge by mid-century. Environmental Research Letters, 2016, 11, 094001. | 5.2 | 21 |
| 148 | Robustness of the Simulated Tropospheric Response to Ozone Depletion. Journal of Climate, 2017, 30, 2577-2585. | 3.2 | 21 |
| 149 | Modeling evidence that ozone depletion has impacted extreme precipitation in the austral summer. Geophysical Research Letters, 2013, 40, 4054-4059. | 4.0 | 20 |
| 150 | Robust Arctic warming caused by projected Antarctic sea ice loss. Environmental Research Letters, 2020, 15, 104005. | 5.2 | 20 |
| 151 | Recent Trends in Extreme Precipitation and Temperature over Southeastern South America: The Dominant Role of Stratospheric Ozone Depletion in the CESM Large Ensemble. Journal of Climate, 2017, 30, 6433-6441. | 3.2 | 19 |
| 152 | Flux distributions as robust diagnostics of stratosphereâ€ŧroposphere exchange. Journal of Geophysical Research, 2012, 117, . | 3.3 | 18 |
| 153 | Highly Significant Responses to Anthropogenic Forcings of the Midlatitude Jet in the Southern Hemisphere. Journal of Climate, 2016, 29, 3463-3470. | 3.2 | 18 |
| 154 | Wave–vortex interaction in rotating shallow water. Part 1. One space dimension. Journal of Fluid Mechanics, 1999, 394, 1-27. | 3.4 | 17 |
| 155 | Distinguishing the impacts of ozone-depleting substances and well-mixed greenhouse gases on Arctic stratospheric ozone and temperature trends. Geophysical Research Letters, 2014, 41, 2652-2660. | 4.0 | 17 |
| 156 | The Response of the Ozone Layer to Quadrupled CO2 Concentrations: Implications for Climate. Journal of Climate, 2019, 32, 7629-7642. | 3.2 | 17 |
| 157 | Antarctic Sea Ice Expansion, Driven by Internal Variability, in the Presence of Increasing Atmospheric CO ₂ . Geophysical Research Letters, 2019, 46, 14762-14771. | 4.0 | 17 |
| 158 | Using Multiple Large Ensembles to Elucidate the Discrepancy Between the 1979–2019 Modeled and Observed Antarctic Sea Ice Trends. Geophysical Research Letters, 2020, 47, e2020GL088339. | 4.0 | 16 |
| 159 | The response of extratropical cyclones in the Southern Hemisphere to stratospheric ozone depletion in the 20th century. Atmospheric Science Letters, 2014, 15, 29-36. | 1.9 | 15 |
| 160 | ls interactive ozone chemistry important to represent polar cap stratospheric temperature variability in Earth-System Models?. Environmental Research Letters, 2019, 14, 044026. | 5.2 | 15 |
| 161 | Effective stability in a moist baroclinic wave. Atmospheric Science Letters, 2015, 16, 56-62. | 1.9 | 14 |
| 162 | The Importance of the Montreal Protocol in Mitigating the Potential Intensity of Tropical Cyclones. Journal of Climate, 2016, 29, 2275-2289. | 3.2 | 14 |

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| 163 | Large Increase in Incident Shortwave Radiation due to the Ozone Hole Offset by High Climatological Albedo over Antarctica. Journal of Climate, 2017, 30, 4883-4890. | 3.2 | 14 |
| 164 | Ocean Circulation Reduces the Hadley Cell Response to Increased Greenhouse Gases. Geophysical Research Letters, 2018, 45, 9197-9205. | 4.0 | 14 |
| 165 | Antarctic ozone depletion and trends in tropopause Rossby wave breaking. Atmospheric Science Letters, 2012, 13, 164-168. | 1.9 | 13 |
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