Amy H Butler

List of Publications by Year
in descending order

63 papers	4,601 citations	94433 37 h-index	118850 62 g-index
92 all docs	92 docs citations	92 times ranked	3485 citing authors

#	Article	IF	Citations
1	Defining Sudden Stratospheric Warmings. Bulletin of the American Meteorological Society, 2015, 96, 1913-1928.	3.3	327
2	The Steady-State Atmospheric Circulation Response to Climate Changeâ€"like Thermal Forcings in a Simple General Circulation Model. Journal of Climate, 2010, 23, 3474-3496.	3.2	269
3	On the lack of stratospheric dynamical variability in lowâ€top versions of the CMIP5 models. Journal of Geophysical Research D: Atmospheres, 2013, 118, 2494-2505.	3.3	268
4	A sudden stratospheric warming compendium. Earth System Science Data, 2017, 9, 63-76.	9.9	266
5	The Teleconnection of El NiÃ±o Southern Oscillation to the Stratosphere. Reviews of Geophysics, 2019, 57, 5-47.	23.0	245
6	Sudden Stratospheric Warmings. Reviews of Geophysics, 2021, 59, .	23.0	204
7	Seasonal winter forecasts and the stratosphere. Atmospheric Science Letters, 2016, 17, 51-56.	1.9	159
8	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
9	Separating the stratospheric and tropospheric pathways of El NiÃ±oâ€"Southern Oscillation teleconnections. Environmental Research Letters, 2014, 9, 024014.	5.2	136
10	Windows of Opportunity for Skillful Forecasts Subseasonal to Seasonal and Beyond. Bulletin of the American Meteorological Society, 2020, 101, E608-E625.	3.3	124
11	The Role of the Stratosphere in Subseasonal to Seasonal Prediction: 2. Predictability Arising From Stratosphereâ€Troposphere Coupling. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2019JD030923.	3.3	119
12	The Remarkably Strong Arctic Stratospheric Polar Vortex of Winter 2020: Links to Recordâ€Breaking Arctic Oscillation and Ozone Loss. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2020JD033271.	3.3	119
13	Current and Emerging Developments in Subseasonal to Decadal Prediction. Bulletin of the American Meteorological Society, 2020, 101, E869-E896.	3.3	116
14	El NiÃ±o, La NiÃ±a, and stratospheric sudden warmings: A reevaluation in light of the observational record. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	111
15	The mystery of recent stratospheric temperature trends. Nature, 2012, 491, 692-697.	27.8	106
16	Seasonal Predictability over Europe Arising from El NiÃ±o and Stratospheric Variability in the MPI-ESM Seasonal Prediction System. Journal of Climate, 2015, 28, 256-271.	3.2	100
17	The Climateâ€system Historical Forecast Project: do stratosphereâ€resolving models make better seasonal climate predictions in boreal winter?. Quarterly Journal of the Royal Meteorological Society, 2016, 142, 1413-1427.	2.7	91
18	CFSv2 ensemble prediction of the wintertime Arctic Oscillation. Climate Dynamics, 2013, 41, 1099-1116.	3.8	88

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19	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
20	The Role of the Stratosphere in Subseasonal to Seasonal Prediction: 1. Predictability of the Stratosphere. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2019JD030920.	3.3	78
21	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
22	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
23	Stratospheric drivers of extreme events at the Earthâ€™s surface. Communications Earth & Environment, 2020, 1, .	6.8	70
24	Extra-tropical atmospheric response to ENSO in the CMIP5 models. Climate Dynamics, 2014, 43, 3367-3376.	3.8	67
25	Eurasian snow cover variability and links to winter climate in the CMIP5 models. Climate Dynamics, 2015, 45, 2591-2605.	3.8	65
26	Observed Relationships Between Sudden Stratospheric Warmings and European Climate Extremes. Journal of Geophysical Research D: Atmospheres, 2019, 124, 13943-13961.	3.3	59
27	The 2019 Southern Hemisphere Stratospheric Polar Vortex Weakening and Its Impacts. Bulletin of the American Meteorological Society, 2021, 102, E1150-E1171.	3.3	55
28	Extratropical Atmospheric Predictability From the Quasiâ€Biennial Oscillation in Subseasonal Forecast Models. Journal of Geophysical Research D: Atmospheres, 2018, 123, 7855-7866.	3.3	53
29	Isentropic Slopes, Downgradient Eddy Fluxes, and the Extratropical Atmospheric Circulation Response to Tropical Tropospheric Heating. Journals of the Atmospheric Sciences, 2011, 68, 2292-2305.	1.7	52
30	Transport of ice into the stratosphere and the humidification of the stratosphere over the 21st century. Geophysical Research Letters, 2016, 43, 2323-2329.	4.0	50
31	Uncertainty in the Response of Sudden Stratospheric Warmings and Stratosphereâ€Troposphere Coupling to Quadrupled CO₂ Concentrations in CMIP6 Models. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2019JD032345.	3.3	50
32	The influence of the quasi-biennial oscillation on the Maddenâ€“Julian oscillation. Nature Reviews Earth & Environment, 2021, 2, 477-489.	29.7	50
33	Optimizing the Definition of a Sudden Stratospheric Warming. Journal of Climate, 2018, 31, 2337-2344.	3.2	49
34	Unusual extremes in the negative phase of the Arctic Oscillation during 2009. Geophysical Research Letters, 2010, 37, .	4.0	45
35	The Climate-System Historical Forecast Project: Providing Open Access to Seasonal Forecast Ensembles from Centers around the Globe. Bulletin of the American Meteorological Society, 2017, 98, 2293-2301.	3.3	41
36	Predictability of Northern Hemisphere Final Stratospheric Warmings and Their Surface Impacts. Geophysical Research Letters, 2019, 46, 10578-10588.	4.0	41

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37	Sub-seasonal Predictability and the Stratosphere. , 2019, , 223-241.		41
38	Diverse policy implications for future ozone and surface UV in a changing climate. Environmental Research Letters, 2016, 11, 064017.	5.2	37
39	Northern Hemisphere Stratospheric Pathway of Different El NiÃ±o Flavors in Stratosphere-Resolving CMIP5 Models. Journal of Climate, 2017, 30, 4351-4371.	3.2	34
40	The 2018â€“2019 Arctic stratospheric polar vortex. Weather, 2020, 75, 52-57.	0.7	33
41	Differences between the 2018 and 2019 stratospheric polar vortex split events. Quarterly Journal of the Royal Meteorological Society, 2020, 146, 3503-3521.	2.7	31
42	A Census of Atmospheric Variability From Seconds to Decades. Geophysical Research Letters, 2017, 44, 11,201.	4.0	28
43	Robust winter warming over Eurasia under stratospheric sulfate geoengineering â€“ the role of stratospheric dynamics. Atmospheric Chemistry and Physics, 2021, 21, 6985-6997.	4.9	28
44	Agreement in late twentieth century Southern Hemisphere stratospheric temperature trends in observations and CCMValâ€2, CMIP3, and CMIP5 models. Journal of Geophysical Research D: Atmospheres, 2013, 118, 605-613.	3.3	27
45	Mechanisms Governing Interannual Variability of Stratosphereâ€toâ€Troposphere Ozone Transport. Journal of Geophysical Research D: Atmospheres, 2018, 123, 234-260.	3.3	25
46	Long-range prediction and the stratosphere. Atmospheric Chemistry and Physics, 2022, 22, 2601-2623.	4.9	24
47	Seasonal Forecasts of the Exceptional Northern Hemisphere Winter of 2020. Geophysical Research Letters, 2020, 47, e2020GL090328.	4.0	23
48	A comparison of the momentum budget in reanalysis datasets during sudden stratospheric warming events. Atmospheric Chemistry and Physics, 2018, 18, 7169-7187.	4.9	21
49	The spring transition of the North Pacific jet and its relation to deep stratosphere-to-troposphere mass transport over western North America. Atmospheric Chemistry and Physics, 2021, 21, 2781-2794.	4.9	21
50	Strong Relations Between ENSO and the Arctic Oscillation in the North American Multimodel Ensemble. Geophysical Research Letters, 2017, 44, 11,654.	4.0	20
51	Observed relationships between the Southern Annular Mode and atmospheric carbon dioxide. Global Biogeochemical Cycles, 2007, 21, .	4.9	18
52	Rare forecasted climate event under way in the Southern Hemisphere. Nature, 2019, 573, 495-495.	27.8	18
53	Weakening of the Teleconnection From El NiÃ±oâ€“Southern Oscillation to the Arctic Stratosphere Over the Past Few Decades: What Can Be Learned From Subseasonal Forecast Models?. Journal of Geophysical Research D: Atmospheres, 2019, 124, 7683-7696.	3.3	17
54	The wave geometry of final stratospheric warming events. Weather and Climate Dynamics, 2021, 2, 453-474.	3.5	17

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55	Antarctica and the Southern Ocean. Bulletin of the American Meteorological Society, 2020, 101, S287-S320.	3.3	15
56	Analyzing ozone variations and uncertainties at high latitudes during sudden stratospheric warming events using MERRA-2. Atmospheric Chemistry and Physics, 2022, 22, 5435-5458.	4.9	11
57	Variability in QBO Temperature Anomalies on Annual and Decadal Time Scales. Journal of Climate, 2021, 34, 589-605.	3.2	8
58	What's in a Name? On the Use and Significance of the Term â€œPolar Vortexâ€. Geophysical Research Letters, 2022, 49, .	4.0	7
59	Stratospheric Nudging And Predictable Surface Impacts (SNAPSI): a protocol for investigating the role of stratospheric polar vortex disturbances in subseasonal to seasonal forecasts. Geoscientific Model Development, 2022, 15, 5073-5092.	3.6	6
60	Airborne observations of vegetation and implications for biogenic emission characterization. Journal of Environmental Monitoring, 2003, 5, 977.	2.1	4
61	Subseasonal prediction of springtime Pacificâ€“North American transport using upper-level wind forecasts. Weather and Climate Dynamics, 2021, 2, 433-452.	3.5	4
62	Forecasts of Opportunity: Opening Windows of Skill, Subseasonal and Beyond. Bulletin of the American Meteorological Society, 2020, 101, 597-601.	3.3	2
63	Best Practice Strategies for Process Studies Designed to Improve Climate Modeling. Bulletin of the American Meteorological Society, 2020, 101, E1842-E1850.	3.3	1