Amy H Butler

List of Publications by Year
in descending order

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Version: 2024-02-01

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	Long-range prediction and the stratosphere. Atmospheric Chemistry and Physics, 2022, 22, 2601-2623.	4.9	24
2	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
3	What's in a Name? On the Use and Significance of the Term â€œPolar Vortexâ€. Geophysical Research Letters, 2022, 49, .	4.0	7
4	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
5	Sudden Stratospheric Warmings. Reviews of Geophysics, 2021, 59, .	23.0	204
6	Variability in QBO Temperature Anomalies on Annual and Decadal Time Scales. Journal of Climate, 2021, 34, 589-605.	3.2	8
7	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
8	The wave geometry of final stratospheric warming events. Weather and Climate Dynamics, 2021, 2, 453-474.	3.5	17
9	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
10	Subseasonal prediction of springtime Pacificâ€“North American transport using upper-level wind forecasts. Weather and Climate Dynamics, 2021, 2, 433-452.	3.5	4
11	The influence of the quasi-biennial oscillation on the Maddenâ€“Julian oscillation. Nature Reviews Earth & Environment, 2021, 2, 477-489.	29.7	50
12	The 2019 Southern Hemisphere Stratospheric Polar Vortex Weakening and Its Impacts. Bulletin of the American Meteorological Society, 2021, 102, E1150-E1171.	3.3	55
13	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
14	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
15	The 2018â€“2019 Arctic stratospheric polar vortex. Weather, 2020, 75, 52-57.	0.7	33
16	Seasonal Forecasts of the Exceptional Northern Hemisphere Winter of 2020. Geophysical Research Letters, 2020, 47, e2020GL090328.	4.0	23
17	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
18	Stratospheric drivers of extreme events at the Earthâ€™s surface. Communications Earth & Environment, 2020, 1, .	6.8	70

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19	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
20	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
21	Current and Emerging Developments in Subseasonal to Decadal Prediction. Bulletin of the American Meteorological Society, 2020, 101, E869-E896.	3.3	116
22	Windows of Opportunity for Skillful Forecasts Subseasonal to Seasonal and Beyond. Bulletin of the American Meteorological Society, 2020, 101, E608-E625.	3.3	124
23	Antarctica and the Southern Ocean. Bulletin of the American Meteorological Society, 2020, 101, S287-S320.	3.3	15
24	Forecasts of Opportunity: Opening Windows of Skill, Subseasonal and Beyond. Bulletin of the American Meteorological Society, 2020, 101, 597-601.	3.3	2
25	Best Practice Strategies for Process Studies Designed to Improve Climate Modeling. Bulletin of the American Meteorological Society, 2020, 101, E1842-E1850.	3.3	1
26	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
27	Rare forecasted climate event under way in the Southern Hemisphere. Nature, 2019, 573, 495-495.	27.8	18
28	Predictability of Northern Hemisphere Final Stratospheric Warmings and Their Surface Impacts. Geophysical Research Letters, 2019, 46, 10578-10588.	4.0	41
29	Observed Relationships Between Sudden Stratospheric Warmings and European Climate Extremes. Journal of Geophysical Research D: Atmospheres, 2019, 124, 13943-13961.	3.3	59
30	The Teleconnection of El NiÃ±o Southern Oscillation to the Stratosphere. Reviews of Geophysics, 2019, 57, 5-47.	23.0	245
31	Sub-seasonal Predictability and the Stratosphere. , 2019, , 223-241.		41
32	Optimizing the Definition of a Sudden Stratospheric Warming. Journal of Climate, 2018, 31, 2337-2344.	3.2	49
33	Mechanisms Governing Interannual Variability of Stratosphereâ€toâ€Troposphere Ozone Transport. Journal of Geophysical Research D: Atmospheres, 2018, 123, 234-260.	3.3	25
34	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
35	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
36	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

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37	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
38	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
39	A Census of Atmospheric Variability From Seconds to Decades. Geophysical Research Letters, 2017, 44, 11,201.	4.0	28
40	Strong Relations Between ENSO and the Arctic Oscillation in the North American Multimodel Ensemble. Geophysical Research Letters, 2017, 44, 11,654.	4.0	20
41	A sudden stratospheric warming compendium. Earth System Science Data, 2017, 9, 63-76.	9.9	266
42	Diverse policy implications for future ozone and surface UV in a changing climate. Environmental Research Letters, 2016, 11, 064017.	5.2	37
43	Seasonal winter forecasts and the stratosphere. Atmospheric Science Letters, 2016, 17, 51-56.	1.9	159
44	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
45	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
46	Defining Sudden Stratospheric Warmings. Bulletin of the American Meteorological Society, 2015, 96, 1913-1928.	3.3	327
47	Eurasian snow cover variability and links to winter climate in the CMIP5 models. Climate Dynamics, 2015, 45, 2591-2605.	3.8	65
48	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
49	Separating the stratospheric and tropospheric pathways of El NiÃ±oâ€“Southern Oscillation teleconnections. Environmental Research Letters, 2014, 9, 024014.	5.2	136
50	Extra-tropical atmospheric response to ENSO in the CMIP5 models. Climate Dynamics, 2014, 43, 3367-3376.	3.8	67
51	CFSv2 ensemble prediction of the wintertime Arctic Oscillation. Climate Dynamics, 2013, 41, 1099-1116.	3.8	88
52	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
53	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
54	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

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55	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
56	The mystery of recent stratospheric temperature trends. Nature, 2012, 491, 692-697.	27.8	106
57	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
58	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
59	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
60	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
61	Unusual extremes in the negative phase of the Arctic Oscillation during 2009. Geophysical Research Letters, 2010, 37, .	4.0	45
62	Observed relationships between the Southern Annular Mode and atmospheric carbon dioxide. Global Biogeochemical Cycles, 2007, 21, .	4.9	18
63	Airborne observations of vegetation and implications for biogenic emission characterization. Journal of Environmental Monitoring, 2003, 5, 977.	2.1	4