

Sarah B Kapnick

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

55
papers

2,157
citations

23
h-index

46
g-index

62
ext. papers

2,606
ext. citations

5.7
avg, IF

5.05
L-index

#	Paper	IF	Citations
55	On the Seasonal Forecasting of Regional Tropical Cyclone Activity. <i>Journal of Climate</i> , 2014 , 27, 7994-8016	4.4	285
54	Simulating cold season snowpack: Impacts of snow albedo and multi-layer snow physics. <i>Climatic Change</i> , 2011 , 109, 95-117	4.5	254
53	Snowfall less sensitive to warming in Karakoram than in Himalayas due to a unique seasonal cycle. <i>Nature Geoscience</i> , 2014 , 7, 834-840	18.3	175
52	Improved Seasonal Prediction of Temperature and Precipitation over Land in a High-Resolution GFDL Climate Model. <i>Journal of Climate</i> , 2015 , 28, 2044-2062	4.4	133
51	Causes of recent changes in western North American snowpack. <i>Climate Dynamics</i> , 2012 , 38, 1885-1899	4.2	116
50	Managing living marine resources in a dynamic environment: The role of seasonal to decadal climate forecasts. <i>Progress in Oceanography</i> , 2017 , 152, 15-49	3.8	114
49	Rapid attribution of the August 2016 flood-inducing extreme precipitation in south Louisiana to climate change. <i>Hydrology and Earth System Sciences</i> , 2017 , 21, 897-921	5.5	104
48	Controls of Global Snow under a Changed Climate. <i>Journal of Climate</i> , 2013 , 26, 5537-5562	4.4	85
47	Weakening of the North American monsoon with global warming. <i>Nature Climate Change</i> , 2017 , 7, 806-812	12.4	73
46	Tropical cyclone sensitivities to CO2 doubling: roles of atmospheric resolution, synoptic variability and background climate changes. <i>Climate Dynamics</i> , 2019 , 53, 5999-6033	4.2	72
45	Our Skill in Modeling Mountain Rain and Snow is Bypassing the Skill of Our Observational Networks. <i>Bulletin of the American Meteorological Society</i> , 2019 , 100, 2473-2490	6.1	70
44	Observed Climate Snowpack Relationships in California and their Implications for the Future. <i>Journal of Climate</i> , 2010 , 23, 3446-3456	4.4	68
43	Seasonal Predictability of Extratropical Storm Tracks in GFDL's High-Resolution Climate Prediction Model. <i>Journal of Climate</i> , 2015 , 28, 3592-3611	4.4	62
42	The Resolution Dependence of Contiguous U.S. Precipitation Extremes in Response to CO2 Forcing. <i>Journal of Climate</i> , 2016 , 29, 7991-8012	4.4	57
41	SPEAR: The Next Generation GFDL Modeling System for Seasonal to Multidecadal Prediction and Projection. <i>Journal of Advances in Modeling Earth Systems</i> , 2020 , 12, e2019MS001895	7.1	40
40	Changes in orographic precipitation patterns caused by a shift from snow to rain. <i>Geophysical Research Letters</i> , 2012 , 39,	4.9	33
39	A New Estimate of North American Mountain Snow Accumulation From Regional Climate Model Simulations. <i>Geophysical Research Letters</i> , 2018 , 45, 1423-1432	4.9	31

38	Accumulation and melt dynamics of snowpack from a multiresolution regional climate model in the central Sierra Nevada, California. <i>Journal of Geophysical Research</i> , 2011 , 116,		29
37	What shapes mesoscale wind anomalies in coastal upwelling zones?. <i>Climate Dynamics</i> , 2011 , 36, 2037-2049	4.9	28
36	A top-down approach to projecting market impacts of climate change. <i>Nature Climate Change</i> , 2016 , 6, 51-55	21.4	26
35	Evaluation of snow cover fraction for regional climate simulations in the Sierra Nevada. <i>International Journal of Climatology</i> , 2015 , 35, 2472-2484	3.5	25
34	The Impact of Horizontal Resolution on North American Monsoon Gulf of California Moisture Surges in a Suite of Coupled Global Climate Models. <i>Journal of Climate</i> , 2016 , 29, 7911-7936	4.4	24
33	Changes in Extreme Precipitation and Landslides Over High Mountain Asia. <i>Geophysical Research Letters</i> , 2020 , 47, e2019GL085347	4.9	23
32	Impact of large-scale circulation changes in the North Atlantic sector on the current and future Mediterranean winter hydroclimate. <i>Climate Dynamics</i> , 2018 , 50, 2039-2059	4.2	23
31	Increasing risk of another Cape Town "Day Zero" drought in the 21st century. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 29495-29503	11.5	23
30	Potential for western US seasonal snowpack prediction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 1180-1185	11.5	21
29	Changes in the future summer Mediterranean climate: contribution of teleconnections and local factors. <i>Earth System Dynamics</i> , 2020 , 11, 161-181	4.8	17
28	Shifting patterns of mild weather in response to projected radiative forcing. <i>Climatic Change</i> , 2017 , 140, 649-658	4.5	15
27	Causes and Probability of Occurrence of Extreme Precipitation Events like Chennai 2015. <i>Journal of Climate</i> , 2018 , 31, 3831-3848	4.4	15
26	100-Year Lower Mississippi Floods in a Global Climate Model: Characteristics and Future Changes. <i>Journal of Hydrometeorology</i> , 2018 , 19, 1547-1563	3.7	15
25	On the seasonal prediction of the western United States El Niño precipitation pattern during the 2015/16 winter. <i>Climate Dynamics</i> , 2018 , 51, 3765-3783	4.2	12
24	The Influence of CO2 Forcing on North American Monsoon Moisture Surges. <i>Journal of Climate</i> , 2018 , 31, 7949-7968	4.4	11
23	The Impact of Sea Surface Temperature Biases on North American Precipitation in a High-Resolution Climate Model. <i>Journal of Climate</i> , 2020 , 33, 2427-2447	4.4	10
22	Effects of Anthropogenic Forcing and Natural Variability on the 2018 Heatwave in Northeast Asia. <i>Bulletin of the American Meteorological Society</i> , 2020 , 101, S77-S82	6.1	8
21	On the Mechanisms of the Active 2018 Tropical Cyclone Season in the North Pacific. <i>Geophysical Research Letters</i> , 2019 , 46, 12293-12302	4.9	8

20	On the Angola Low Interannual Variability and Its Role in Modulating ENSO Effects in Southern Africa. <i>Journal of Climate</i> , 2019 , 32, 4783-4803	4.4	7
19	Extreme Precipitation in the Himalayan Landslide Hotspot. <i>Advances in Global Change Research</i> , 2020 , 1087-1111	1.2	7
18	Effects of Climate Change on Wind-Driven Heavy-Snowfall Events over Eastern North America. <i>Journal of Climate</i> , 2018 , 31, 9037-9054	4.4	7
17	Seasonal Prediction Potential for Springtime Dustiness in the United States. <i>Geophysical Research Letters</i> , 2019 , 46, 9163-9173	4.9	5
16	High-Impact Extratropical Cyclones along the Northeast Coast of the United States in a Long Coupled Climate Model Simulation. <i>Journal of Climate</i> , 2019 , 32, 2131-2143	4.4	5
15	Changes in the future summer Mediterranean climate: contribution of teleconnections and local factors 2019 ,		3
14	Rapid attribution of the August 2016 flood-inducing extreme precipitation in south Louisiana to climate change		3
13	Seasonal prediction and predictability of regional Antarctic sea ice. <i>Journal of Climate</i> , 2021 , 1-68	4.4	3
12	Mechanisms of Regional Arctic Sea Ice Predictability in Two Dynamical Seasonal Forecast Systems. <i>Journal of Climate</i> , 2022 , 1-63	4.4	2
11	Natural variability vs forced signal in the 2015-2019 Central American drought. <i>Climatic Change</i> , 2021 , 168, 1	4.5	2
10	Mapping Large-Scale Climate Variability to Hydrological Extremes: An Application of the Linear Inverse Model to Subseasonal Prediction. <i>Journal of Climate</i> , 2021 , 34, 4207-4225	4.4	2
9	Addendum to Simulating cold season snowpack: Impacts of snow albedo and multi-layer snow physics Waliser, D., J. Kim, Y. Xue, Y. Chao, A. Eldering, R. Fovell, A. Hall, Q. Li, K. N. Liou, J. McWilliams, S. Kapnick, R. Vasic, F. De Sale, and Y. Yu (2011), <i>Climatic Change</i> , 109 (Suppl 1), 885-117, DOI:10.1007/s10584-011-0212-5. <i>Climatic Change</i> , 2012 , 111, 299-100	4.5	1
8	Seasonal predictability of baroclinic wave activity. <i>Npj Climate and Atmospheric Science</i> , 2021 , 4,	8	1
7	The Alaskan Summer 2019 Extreme Heat Event: The Role of Anthropogenic Forcing, and Projections of the Increasing Risk of Occurrence. <i>Earth's Future</i> , 2021 , 9, e2021EF002163	7.9	1
6	Are Multiseasonal Forecasts of Atmospheric Rivers Possible?. <i>Geophysical Research Letters</i> , 2021 , 48, e2021GL094000	4.9	1
5	Roles of Meridional Overturning in Subpolar Southern Ocean SST Trends: Insights from Ensemble Simulations. <i>Journal of Climate</i> , 2022 , 35, 1577-1596	4.4	1
4	Seasonal-to-decadal variability and prediction of the Kuroshio Extension in the GFDL Coupled Ensemble Reanalysis and Forecasting system. <i>Journal of Climate</i> , 2022 , 1-59	4.4	0
3	Skillful seasonal prediction of North American summertime heat extremes. <i>Journal of Climate</i> , 2022 , 1-43	4.4	0

- 2 Six Priorities for Investment in Snow Research and Product Development. *Bulletin of the American Meteorological Society*, **2020**, 101, E2025-E2029 6.1
- 1 Development of a Rapid Response Capability to Evaluate Causes of Extreme Temperature and Drought Events in the United States. *Bulletin of the American Meteorological Society*, **2022**, 103, S14-S20 6.1