Sarah N Sparrow

List of Publications by Year in Descending Order

60 papers	1,469 citations	18 h-index	37 g-index
81 ext. papers	1,864 ext. citations	6.8 avg, IF	4.61 L-index

#	Paper	IF	Citations
60	Trends in Europe storm surge extremes match the rate of sea-level rise.. *Nature*, **2022**, 603, 841-845	50.4	4
59	Attribution of April 2020 Exceptional Cold Spell over Northeast China. *Bulletin of the American Meteorological Society*, **2022**, 103, S61-S67	6.1	1
58	Resilient by design: Preventing wildfires and blackouts with microgrids. *Applied Energy*, **2022**, 313, 118793	10.7	0
57	Generating samples of extreme winters to support climate adaptation. *Weather and Climate Extremes*, **2022**, 36, 100419	6	0
56	Drivers behind the summer 2010 wave train leading to Russian heatwave and Pakistan flooding. *Npj Climate and Atmospheric Science*, **2021**, 4,	8	2
55	Attribution of the Australian bushfire risk to anthropogenic climate change. *Natural Hazards and Earth System Sciences*, **2021**, 21, 941-960	3.9	58
54	Larger Spatial Footprint of Wintertime Total Precipitation Extremes in a Warmer Climate. *Geophysical Research Letters*, **2021**, 48, e2020GL091990	4.9	5
53	OpenIFS@home version 1: a citizen science project for ensemble weather and climate forecasting. *Geoscientific Model Development*, **2021**, 14, 3473-3486	6.3	2
52	Anthropogenic climate change contribution to wildfire-prone weather conditions in the Cerrado and Arc of deforestation. *Environmental Research Letters*, **2021**, 16, 094051	6.2	1
51	Attribution of the Australian bushfire risk to anthropogenic climate change **2020**,		21
50	Climate change attribution and the economic costs of extreme weather events: a study on damages from extreme rainfall and drought. *Climatic Change*, **2020**, 162, 781-797	4.5	34
49	On High Precipitation in Mozambique, Zimbabwe and Zambia in February 2018. *Bulletin of the American Meteorological Society*, **2020**, 101, S47-S52	6.1	3
48	Anthropogenic Influence on the 2018 Summer Warm Spell in Europe: The Impact of Different Spatio-Temporal Scales. *Bulletin of the American Meteorological Society*, **2020**, 101, S41-S46	6.1	13
47	Learning from the 2018 heatwave in the context of climate change: are high-temperature extremes important for adaptation in Scotland?. *Environmental Research Letters*, **2020**, 15, 034051	6.2	5
46	Quantifying Human Impact on the 2018 Summer Longest Heat Wave in South Korea. *Bulletin of the American Meteorological Society*, **2020**, 101, S103-S108	6.1	9
45	A 1-Day Extreme Rainfall Event in Tasmania: Process Evaluation and Long Tail Attribution. *Bulletin of the American Meteorological Society*, **2020**, 101, S123-S128	6.1	0
44	A pan-South-America assessment of avoided exposure to dangerous extreme precipitation by limiting to 1.5 °C warming. *Environmental Research Letters*, **2020**, 15, 054005	6.2	8

43	Parametric Sensitivity of Vegetation Dynamics in the TRIFFID Model and the Associated Uncertainty in Projected Climate Change Impacts on Western U.S. Forests. *Journal of Advances in Modeling Earth Systems*, **2019**, 11, 2787-2813	7.1	6
42	Reducing climate model biases by exploring parameter space with large ensembles of climate model simulations and statistical emulation. *Geoscientific Model Development*, **2019**, 12, 3017-3043	6.3	9
41	Increasing mitigation ambition to meet the Paris Agreement's temperature goal avoids substantial heat-related mortality in U.S. cities. *Science Advances*, **2019**, 5, eaau4373	14.3	21
40	Attributing the 2017 Bangladesh floods from meteorological and hydrological perspectives. *Hydrology and Earth System Sciences*, **2019**, 23, 1409-1429	5.5	23
39	Anthropogenic Warming has Substantially Increased the Likelihood of July 2017–like Heat Waves over Central Eastern China. *Bulletin of the American Meteorological Society*, **2019**, 100, S91-S95	6.1	11
38	Contribution of Anthropogenic Climate Change to April–May 2017 Heavy Precipitation over the Uruguay River Basin. *Bulletin of the American Meteorological Society*, **2019**, 100, S37-S41	6.1	10
37	Anthropogenic Contribution to the 2017 Earliest Summer Onset in South Korea. *Bulletin of the American Meteorological Society*, **2019**, 100, S73-S77	6.1	5
36	Forced summer stationary waves: the opposing effects of direct radiative forcing and sea surface warming. *Climate Dynamics*, **2019**, 53, 4291-4309	4.2	5
35	Evaluation of a large ensemble regional climate modelling system for extreme weather events analysis over Bangladesh. *International Journal of Climatology*, **2019**, 39, 2845-2861	3.5	5
34	Biogeophysical Impacts of Land-Use Change on Climate Extremes in Low-Emission Scenarios: Results From HAPPI-Land. *Earth's Future*, **2018**, 6, 396-409	7.9	18
33	Finding Ocean States That Are Consistent with Observations from a Perturbed Physics Parameter Ensemble. *Journal of Climate*, **2018**, 31, 4639-4656	4.4	1
32	Higher CO2 concentrations increase extreme event risk in a 1.5 °C world. *Nature Climate Change*, **2018**, 8, 604-608	21.4	63
31	Impacts of Anthropogenic Forcings and El Niño on Chinese Extreme Temperatures. *Advances in Atmospheric Sciences*, **2018**, 35, 994-1002	2.9	14
30	Attributing human influence on the July 2017 Chinese heatwave: the influence of sea-surface temperatures. *Environmental Research Letters*, **2018**, 13, 114004	6.2	16
29	Flood event attribution and damage estimation using national-scale grid-based modelling: Winter 2013/2014 in Great Britain. *International Journal of Climatology*, **2018**, 38, 5205-5219	3.5	7
28	Ensemble of European regional climate simulations for the winter of 2013 and 2014 from HadAM3P-RM3P. *Scientific Data*, **2018**, 5, 180057	8.2	3
27	A large set of potential past, present and future hydro-meteorological time series for the UK. *Hydrology and Earth System Sciences*, **2018**, 22, 611-634	5.5	42
26	Seasonal spatial patterns of projected anthropogenic warming in complex terrain: a modeling study of the western US. *Climate Dynamics*, **2017**, 48, 2191-2213	4.2	32

25	Influence of the Ocean and Greenhouse Gases on Severe Drought Likelihood in the Central United States in 2012. *Journal of Climate*, **2017**, 30, 1789-1806	4.4	4
24	Assessing mid-latitude dynamics in extreme event attribution systems. *Climate Dynamics*, **2017**, 48, 3889-3901	4.2	25
23	weather@home 2: validation of an improved global-regional climate modelling system. *Geoscientific Model Development*, **2017**, 10, 1849-1872	6.3	56
22	Climate model forecast biases assessed with a perturbed physics ensemble. *Climate Dynamics*, **2017**, 49, 1729-1746	4.2	10
21	Recent Changes in the Moisture Source of Precipitation over the Tibetan Plateau. *Journal of Climate*, **2017**, 30, 1807-1819	4.4	97
20	A comparison of model ensembles for attributing 2012 West African rainfall. *Environmental Research Letters*, **2017**, 12, 014019	6.2	5
19	Half a degree additional warming, prognosis and projected impacts (HAPPI): background and experimental design. *Geoscientific Model Development*, **2017**, 10, 571-583	6.3	162
18	Half a degree Additional warming, Projections, Prognosis and Impacts (HAPPI): Background and Experimental Design **2016**,		4
17	Human influence on climate in the 2014 southern England winter floods and their impacts. *Nature Climate Change*, **2016**, 6, 627-634	21.4	189
16	The weather@home regional climate modelling project for Australia and New Zealand. *Geoscientific Model Development*, **2016**, 9, 3161-3176	6.3	12
15	Anthropogenic influence on the changing likelihood of an exceptionally warm summer in Texas, 2011. *Geophysical Research Letters*, **2015**, 42, 2392-2400	4.9	15
14	Explaining Extreme Events of 2012 from a Climate Perspective. *Bulletin of the American Meteorological Society*, **2013**, 94, S1-S74	6.1	198
13	The Impact of the State of the Troposphere on the Response to Stratospheric Heating in a Simplified GCM. *Journal of Climate*, **2010**, 23, 6166-6185	4.4	18
12	Annular Variability and Eddy–Zonal Flow Interactions in a Simplified Atmospheric GCM. Part I: Characterization of High- and Low-Frequency Behavior. *Journals of the Atmospheric Sciences*, **2009**, 66, 3075-3094	2.1	14
11	A Possible Transfer Mechanism for the 11-Year Solar Cycle to the Lower Stratosphere. *Space Science Reviews*, **2007**, 125, 357-370	7.5	20
10	Simulations of stratospheric flow regimes during northern hemisphere winter. *Advances in Space Research*, **2004**, 34, 337-342	2.4	2
9	Solar and QBO Influences on the Timing of Stratospheric Sudden Warmings. *Journals of the Atmospheric Sciences*, **2004**, 61, 2777-2796	2.1	116
8	Flow regimes in the winter stratosphere of the northern hemisphere. *Quarterly Journal of the Royal Meteorological Society*, **2003**, 129, 925-945	6.4	49

List of Publications

7	Physical processes of summer extreme rainfall interannual variability in eastern China: Part I□observational analysis. *Climate Dynamics*,1	4.2	0
6	Physical processes of summer extreme rainfall interannual variability in Eastern China□art II: evaluation of CMIP6 models. *Climate Dynamics*,1	4.2	1
5	A large set of potential past, present and future hydro-meteorological time series for the UK		2
4	Attributing the 2017 Bangladesh floods from meteorological and hydrological perspectives		3
3	Extreme rainfall and its impacts in the Brazilian Minas Gerais state in January 2020: Can we blame climate change?. *Climate Resilience and Sustainability*,		1
2	Identifying local-scale meteorological conditions favorable to large fires in Brazil. *Climate Resilience and Sustainability*,		2
1	Event attribution of Parna□a River floods in Northeastern Brazil. *Climate Resilience and Sustainability*,		1