

# Anna M Ukkola

## List of Publications by Year in descending order

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Version: 2024-02-01

41  
papers

2,335  
citations

279487

23  
h-index

264894

42  
g-index

70  
all docs

70  
docs citations

70  
times ranked

3111  
citing authors

#	ARTICLE	IF	CITATIONS
1	Connections of climate change and variability to large and extreme forest fires in southeast Australia. <i>Communications Earth &amp; Environment</i> , 2021, 2, .	2.6	341
2	Robust Future Changes in Meteorological Drought in <scp>CMIP6</scp> Projections Despite Uncertainty in Precipitation. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL087820.	1.5	239
3	Reduced streamflow in water-stressed climates consistent with CO2 effects on vegetation. <i>Nature Climate Change</i> , 2016, 6, 75-78.	8.1	230
4	The aridity Index under global warming. <i>Environmental Research Letters</i> , 2019, 14, 124006.	2.2	124
5	Global hotspots for the occurrence of compound events. <i>Nature Communications</i> , 2020, 11, 5956.	5.8	111
6	The role of climate variability in Australian drought. <i>Nature Climate Change</i> , 2020, 10, 177-179.	8.1	102
7	Land surface models systematically overestimate the intensity, duration and magnitude of seasonal-scale evaporative droughts. <i>Environmental Research Letters</i> , 2016, 11, 104012.	2.2	88
8	Intensification of precipitation extremes in the world's humid and water-limited regions. <i>Environmental Research Letters</i> , 2019, 14, 065003.	2.2	80
9	Identifying areas at risk of drought-induced tree mortality across South-Eastern Australia. <i>Global Change Biology</i> , 2020, 26, 5716-5733.	4.2	79
10	Increased occurrence of high impact compound events under climate change. <i>Npj Climate and Atmospheric Science</i> , 2022, 5, .	2.6	74
11	A worldwide analysis of trends in water-balance evapotranspiration. <i>Hydrology and Earth System Sciences</i> , 2013, 17, 4177-4187.	1.9	61
12	Do CMIP6 Climate Models Simulate Global or Regional Compound Events Skillfully?. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL091152.	1.5	60
13	Evaluating CMIP5 Model Agreement for Multiple Drought Metrics. <i>Journal of Hydrometeorology</i> , 2018, 19, 969-988.	0.7	59
14	Plant profit maximization improves predictions of European forest responses to drought. <i>New Phytologist</i> , 2020, 226, 1638-1655.	3.5	59
15	Asymmetric responses of primary productivity to altered precipitation simulated by ecosystem models across three long-term grassland sites. <i>Biogeosciences</i> , 2018, 15, 3421-3437.	1.3	55
16	Examining the evidence for decoupling between photosynthesis and transpiration during heat extremes. <i>Biogeosciences</i> , 2019, 16, 903-916.	1.3	54
17	Evaluating the Contribution of Land-Atmosphere Coupling to Heat Extremes in CMIP5 Models. <i>Geophysical Research Letters</i> , 2018, 45, 9003-9012.	1.5	50
18	Rainfall manipulation experiments as simulated by terrestrial biosphere models: Where do we stand?. <i>Global Change Biology</i> , 2020, 26, 3336-3355.	4.2	50

#	ARTICLE	IF	CITATIONS
19	Derived Optimal Linear Combination Evapotranspiration (DOLCE): a global gridded synthesis ET estimate. <i>Hydrology and Earth System Sciences</i> , 2018, 22, 1317-1336.	1.9	49
20	Annual precipitation explains variability in dryland vegetation greenness globally but not locally. <i>Global Change Biology</i> , 2021, 27, 4367-4380.	4.2	44
21	Modelling evapotranspiration during precipitation deficits: identifying critical processes in a land surface model. <i>Hydrology and Earth System Sciences</i> , 2016, 20, 2403-2419.	1.9	33
22	New turbulent resistance parameterization for soil evaporation based on a pore-scale model: Impact on surface fluxes in CABLE. <i>Journal of Advances in Modeling Earth Systems</i> , 2017, 9, 220-238.	1.3	30
23	Vegetation plays an important role in mediating future water resources. <i>Environmental Research Letters</i> , 2016, 11, 094022.	2.2	26
24	Exploring how groundwater buffers the influence of heatwaves on vegetation function during multi-year droughts. <i>Earth System Dynamics</i> , 2021, 12, 919-938.	2.7	18
25	CMIP6 MultiModel Evaluation of Present-Day Heatwave Attributes. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL095161.	1.5	18
26	Exploring the stationarity of Australian temperature, precipitation and pan evaporation records over the last century. <i>Environmental Research Letters</i> , 2019, 14, 124035.	2.2	17
27	Ten new insights in climate science 2020 – a horizon scan. <i>Global Sustainability</i> , 2021, 4, .	1.6	17
28	Evaluating a land surface model at a water-limited site: implications for land surface contributions to droughts and heatwaves. <i>Hydrology and Earth System Sciences</i> , 2021, 25, 447-471.	1.9	15
29	FluxnetLSM R package (v1.0): a community tool for processing FLUXNET data for use in land surface modelling. <i>Geoscientific Model Development</i> , 2017, 10, 3379-3390.	1.3	14
30	Bridge to the future: Important lessons from 20 years of ecosystem observations made by the OzFlux network. <i>Global Change Biology</i> , 2022, 28, 3489-3514.	4.2	14
31	Thirty-eight years of CO <sub>2</sub> fertilization has outpaced growing aridity to drive greening of Australian woody ecosystems. <i>Biogeosciences</i> , 2022, 19, 491-515.	1.3	13
32	Towards species-level forecasts of drought-induced tree mortality risk. <i>New Phytologist</i> , 2022, 235, 94-110.	3.5	12
33	Amplification of risks to water supply at 1.5 °C and 2 °C in drying climates: a case study for Melbourne, Australia. <i>Environmental Research Letters</i> , 2019, 14, 084028.	2.2	11
34	How representative are FLUXNET measurements of surface fluxes during temperature extremes?. <i>Biogeosciences</i> , 2019, 16, 1829-1844.	1.3	11
35	A flux tower dataset tailored for land model evaluation. <i>Earth System Science Data</i> , 2022, 14, 449-461.	3.7	11
36	Toward a Robust, Impact-Based, Predictive Drought Metric. <i>Water Resources Research</i> , 2022, 58, .	1.7	10

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37	High impact compound events in Australia. <i>Weather and Climate Extremes</i> , 2022, 36, 100457.	1.6	8
38	Evaluation of the CABLEv2.3.4 Land Surface Model Coupled to NUI-WRFv3.9.1.1 in Simulating Temperature and Precipitation Means and Extremes Over CORDEX AustralAsia Within a WRF Physics Ensemble. <i>Journal of Advances in Modeling Earth Systems</i> , 2019, 11, 4466-4488.	1.3	7
39	Reconciling historical changes in the hydrological cycle over land. <i>Npj Climate and Atmospheric Science</i> , 2022, 5, .	2.6	7
40	Hydrological evaluation of the LPX dynamic global vegetation model for small river catchments in the UK. <i>Hydrological Processes</i> , 2014, 28, 1939-1950.	1.1	5
41	How do groundwater dynamics influence heatwaves in southeast Australia?. <i>Weather and Climate Extremes</i> , 2022, 37, 100479.	1.6	3