Anna M Ukkola

List of Publications by Year
in descending order

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	Increased occurrence of high impact compound events under climate change. Npj Climate and Atmospheric Science, 2022, 5, .	2.6	74
2	Thirty-eight years of CO₂ fertilization has outpaced growing aridity to drive greening of Australian woody ecosystems. Biogeosciences, 2022, 19, 491-515.	1.3	13
3	Toward a Robust, Impactâ€Based, Predictive Drought Metric. Water Resources Research, 2022, 58, .	1.7	10
4	A flux tower dataset tailored for land model evaluation. Earth System Science Data, 2022, 14, 449-461.	3.7	11
5	Bridge to the future: Important lessons from 20Âyears of ecosystem observations made by the OzFlux network. Global Change Biology, 2022, 28, 3489-3514.	4.2	14
6	Reconciling historical changes in the hydrological cycle over land. Npj Climate and Atmospheric Science, 2022, 5, .	2.6	7
7	Towards speciesâ€level forecasts of droughtâ€induced tree mortality risk. New Phytologist, 2022, 235, 94-110.	3.5	12
8	High impact compound events in Australia. Weather and Climate Extremes, 2022, 36, 100457.	1.6	8
9	How do groundwater dynamics influence heatwaves in southeast Australia?. Weather and Climate Extremes, 2022, 37, 100479.	1.6	3
10	Do CMIP6 Climate Models Simulate Global or Regional Compound Events Skillfully?. Geophysical Research Letters, 2021, 48, e2020GL091152.	1.5	60
11	Evaluating a land surface model at a water-limited site: implications for land surface contributions to droughts and heatwaves. Hydrology and Earth System Sciences, 2021, 25, 447-471.	1.9	15
12	Ten new insights in climate science 2020 â€“ a horizon scan. Global Sustainability, 2021, 4, .	1.6	17
13	Annual precipitation explains variability in dryland vegetation greenness globally but not locally. Global Change Biology, 2021, 27, 4367-4380.	4.2	44
14	Exploring how groundwater buffers the influence of heatwaves on vegetation function during multi-year droughts. Earth System Dynamics, 2021, 12, 919-938.	2.7	18
15	Connections of climate change and variability to large and extreme forest fires in southeast Australia. Communications Earth & Environment, 2021, 2, .	2.6	341
16	CMIP6 MultiModel Evaluation of Presentâ€Day Heatwave Attributes. Geophysical Research Letters, 2021, 48, e2021GL095161.	1.5	18
17	Plant profit maximization improves predictions of European forest responses to drought. New Phytologist, 2020, 226, 1638-1655.	3.5	59
18	Global hotspots for the occurrence of compound events. Nature Communications, 2020, 11, 5956.	5.8	111

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19	Robust Future Changes in Meteorological Drought in <scp>CMIP6</scp> Projections Despite Uncertainty in Precipitation. Geophysical Research Letters, 2020, 47, e2020GL087820.	1.5	239
20	Identifying areas at risk of droughtâ€induced tree mortality across Southâ€Eastern Australia. Global Change Biology, 2020, 26, 5716-5733.	4.2	79
21	Rainfall manipulation experiments as simulated by terrestrial biosphere models: Where do we stand?. Global Change Biology, 2020, 26, 3336-3355.	4.2	50
22	The role of climate variability in Australian drought. Nature Climate Change, 2020, 10, 177-179.	8.1	102
23	Intensification of precipitation extremes in the worldâ€™s humid and water-limited regions. Environmental Research Letters, 2019, 14, 065003.	2.2	80
24	The aridity Index under global warming. Environmental Research Letters, 2019, 14, 124006.	2.2	124
25	Exploring the stationarity of Australian temperature, precipitation and pan evaporation records over the last century. Environmental Research Letters, 2019, 14, 124035.	2.2	17
26	Amplification of risks to water supply at 1.5 Â°C and 2 Â°C in drying climates: a case study for Melbourne, Australia. Environmental Research Letters, 2019, 14, 084028.	2.2	11
27	How representative are FLUXNET measurements of surface fluxes during temperature extremes?. Biogeosciences, 2019, 16, 1829-1844.	1.3	11
28	Examining the evidence for decoupling between photosynthesis and transpiration during heat extremes. Biogeosciences, 2019, 16, 903-916.	1.3	54
29	Evaluation of the CABLEv2.3.4 Land Surface Model Coupled to NUâ€WRFv3.9.1.1 in Simulating Temperature and Precipitation Means and Extremes Over CORDEX AustralAsia Within a WRF Physics Ensemble. Journal of Advances in Modeling Earth Systems, 2019, 11, 4466-4488.	1.3	7
30	Derived Optimal Linear Combination Evapotranspiration (DOLCE): aÂglobal gridded synthesis ET estimate. Hydrology and Earth System Sciences, 2018, 22, 1317-1336.	1.9	49
31	Asymmetric responses of primary productivity to altered precipitation simulated by ecosystem models across three long-term grassland sites. Biogeosciences, 2018, 15, 3421-3437.	1.3	55
32	Evaluating CMIP5 Model Agreement for Multiple Drought Metrics. Journal of Hydrometeorology, 2018, 19, 969-988.	0.7	59
33	Evaluating the Contribution of Landâ€Atmosphere Coupling to Heat Extremes in CMIP5 Models. Geophysical Research Letters, 2018, 45, 9003-9012.	1.5	50
34	New turbulent resistance parameterization for soil evaporation based on a poreâ€scale model: Impact on surface fluxes in <scp>CABLE</scp>. Journal of Advances in Modeling Earth Systems, 2017, 9, 220-238.	1.3	30
35	FluxnetLSM R package (v1.0): a community tool for processing FLUXNET data for use in land surface modelling. Geoscientific Model Development, 2017, 10, 3379-3390.	1.3	14
36	Land surface models systematically overestimate the intensity, duration and magnitude of seasonal-scale evaporative droughts. Environmental Research Letters, 2016, 11, 104012.	2.2	88

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37	Modelling evapotranspiration during precipitation deficits: identifying critical processes in a land surface model. Hydrology and Earth System Sciences, 2016, 20, 2403-2419.	1.9	33
38	Vegetation plays an important role in mediating future water resources. Environmental Research Letters, 2016, 11, 094022.	2.2	26
39	Reduced streamflow in water-stressed climates consistent with CO2 effects on vegetation. Nature Climate Change, 2016, 6, 75-78.	8.1	230
40	Hydrological evaluation of the LPX dynamic global vegetation model for small river catchments in the UK. Hydrological Processes, 2014, 28, 1939-1950.	1.1	5
41	A worldwide analysis of trends in water-balance evapotranspiration. Hydrology and Earth System Sciences, 2013, 17, 4177-4187.	1.9	61