Conrad Wasko

List of Publications by Year
in descending order

49 papers	2,751 citations	201674 27 h-index	206112 48 g-index
55 all docs	55 docs citations	55 times ranked	1871 citing authors

#	Article	IF	Citations
1	If Precipitation Extremes Are Increasing, Why Aren't Floods?. Water Resources Research, 2018, 54, 8545-8551.	4.2	299
2	Anthropogenic intensification of short-duration rainfall extremes. Nature Reviews Earth & Environment, 2021, 2, 107-122.	29.7	279
3	Global assessment of flood and storm extremes with increased temperatures. Scientific Reports, 2017, 7, 7945.	3.3	170
4	Steeper temporal distribution of rain intensity at higher temperatures within Australian storms. Nature Geoscience, 2015, 8, 527-529.	12.9	161
5	Influence of changes in rainfall and soil moisture on trends in flooding. Journal of Hydrology, 2019, 575, 432-441.	5.4	157
6	Increase in flood risk resulting from climate change in a developed urban watershed â€“ the role of storm temporal patterns. Hydrology and Earth System Sciences, 2018, 22, 2041-2056.	4.9	144
7	Reduced spatial extent of extreme storms at higher temperatures. Geophysical Research Letters, 2016, 43, 4026-4032.	4.0	129
8	Quantile regression for investigating scaling of extreme precipitation with temperature. Water Resources Research, 2014, 50, 3608-3614.	4.2	127
9	Does storm duration modulate the extreme precipitation-temperature scaling relationship?. Geophysical Research Letters, 2015, 42, 8783-8790.	4.0	100
10	Changes in Antecedent Soil Moisture Modulate Flood Seasonality in a Changing Climate. Water Resources Research, 2020, 56, e2019WR026300.	4.2	81
11	Atmospheric Moisture Measurements Explain Increases in Tropical Rainfall Extremes. Geophysical Research Letters, 2019, 46, 1375-1382.	4.0	76
12	Evidence of shorter more extreme rainfalls and increased flood variability under climate change. Journal of Hydrology, 2021, 603, 126994.	5.4	70
13	Relationship of extreme precipitation, dry-bulb temperature, and dew point temperature across Australia. Environmental Research Letters, 2018, 13, 074031.	5.2	66
14	Towards advancing scientific knowledge of climate change impacts on short-duration rainfall extremes. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2021, 379, 20190542.	3.4	56
15	Continuous rainfall generation for a warmer climate using observed temperature sensitivities. Journal of Hydrology, 2017, 544, 575-590.	5.4	51
16	Trends in Global Flood and Streamflow Timing Based on Local Water Year. Water Resources Research, 2020, 56, e2020WR027233.	4.2	50
17	A quasiâ€global assessment of changes in remotely sensed rainfall extremes with temperature. Geophysical Research Letters, 2016, 43, 12,659.	4.0	48
18	Intensification of short-duration rainfall extremes and implications for flood risk: current state of the art and future directions. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2021, 379, 20190541.	3.4	44

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19	Incorporating climate change in flood estimation guidance. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2021, 379, 20190548.	3.4	44
20	Resolving Inconsistencies in Extreme Precipitationâ€Temperature Sensitivities. Geophysical Research Letters, 2020, 47, e2020GL089723.	4.0	43
21	Can antecedent moisture conditions modulate the increase in flood risk due to climate change in urban catchments?. Journal of Hydrology, 2019, 571, 11-20.	5.4	41
22	The relationship of atmospheric air temperature and dew point temperature to extreme rainfall. Environmental Research Letters, 2019, 14, 074025.	5.2	39
23	Representing lowâ€frequency variability in continuous rainfall simulations: A hierarchical random <scp>B</scp>artlett <scp>L</scp>ewis continuous rainfall generation model. Water Resources Research, 2015, 51, 9995-10007.	4.2	37
24	Increases in temperature do not translate to increased flooding. Nature Communications, 2019, 10, 5676.	12.8	37
25	An Improved Covariate for Projecting Future Rainfall Extremes?. Water Resources Research, 2020, 56, e2019WR026924.	4.2	32
26	Understanding trends in hydrologic extremes across Australia. Journal of Hydrology, 2021, 593, 125877.	5.4	32
27	Humans, climate and streamflow. Nature Climate Change, 2021, 11, 725-726.	18.8	31
28	The local dependency of precipitation on historical changes in temperature. Climatic Change, 2019, 156, 105-120.	3.6	28
29	Improved spatial prediction: A combinatorial approach. Water Resources Research, 2013, 49, 3927-3935.	4.2	26
30	Linking Total Precipitable Water to Precipitation Extremes Globally. Earth's Future, 2022, 10, .	6.3	22
31	Impact of atmospheric circulation on the rainfall-temperature relationship in Australia. Environmental Research Letters, 2020, 15, 094098.	5.2	21
32	Review: Can temperature be used to inform changes to flood extremes with global warming?. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2021, 379, 20190551.	3.4	19
33	Can Regional Climate Modeling Capture the Observed Changes in Spatial Organization of Extreme Storms at Higher Temperatures?. Geophysical Research Letters, 2018, 45, 4475-4484.	4.0	18
34	Decreases in relative humidity across Australia. Environmental Research Letters, 2021, 16, 074023.	5.2	18
35	AWAPer: An R package for area weighted catchment daily meteorological data anywhere within Australia. Hydrological Processes, 2020, 34, 1301-1306.	2.6	15
36	Estimating design hydrologic extremes in a warming climate: alternatives, uncertainties and the way forward. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2021, 379, 20190623.	3.4	14

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37	Linking temperature to catastrophe damages from hydrologic and meteorological extremes. Journal of Hydrology, 2021, 602, 126731.	5.4	14
38	Eliminating the â€œhookâ€•in Precipitation-Temperature Scaling. Journal of Climate, 2021, , 1-42.	3.2	13
39	Do Longer Dry Spells Associated With Warmer Years Compound the Stress on Global Water Resources?. Earth's Future, 2022, 10, .	6.3	13
40	Understanding event runoff coefficient variability across Australia using the <i><scp>hydroEvents</scp> R</i> package. Hydrological Processes, 2022, 36, .	2.6	13
41	Rethinking urban storm water management through resilience â€“ The case for using green infrastructure in our warming world. Cities, 2022, 128, 103789.	5.6	13
42	A comprehensive urban floodplain dataset for model benchmarking. International Journal of River Basin Management, 2016, 14, 345-356.	2.7	11
43	Sensitivity of Australian roof drainage structures to design rainfall variability and climatic change. Building and Environment, 2019, 161, 106230.	6.9	11
44	Effect of solar variability on atmospheric moisture storage. Geophysical Research Letters, 2009, 36, .	4.0	7
45	Correction to â€œEffect of solar variability on atmospheric moisture storageâ€• Geophysical Research Letters, 2009, 36, n/a-n/a.	4.0	6
46	A global assessment of change in flood volume with surface air temperature. Advances in Water Resources, 2022, 165, 104241.	3.8	6
47	Automating rainfall recording: Ensuring homogeneity when instruments change. Journal of Hydrology, 2022, 609, 127758.	5.4	5
48	Trends and Changes in Streamflow With Climate. , 2019, , 275-304.		4
49	Implications of event-based loss model structure on simulating large floods. Journal of Hydrology, 2021, 595, 126008.	5.4	4