Ben I Cook

List of Publications by Year
in descending order

117 papers	12,593 citations	36271 51 h-index	25770 108 g-index
118 all docs	118 docs citations	118 times ranked	13904 citing authors

#	Article	IF	Citations
1	Unprecedented 21st century drought risk in the American Southwest and Central Plains. Science Advances, 2015, 1, e1400082.	4.7	1,092
2	Global warming and 21st century drying. Climate Dynamics, 2014, 43, 2607-2627.	1.7	782
3	Warming experiments underpredict plant phenological responses to climate change. Nature, 2012, 485, 494-497.	13.7	772
4	Large contribution from anthropogenic warming to an emerging North American megadrought. Science, 2020, 368, 314-318.	6.0	527
5	Contribution of anthropogenic warming to California drought during 2012â€"2014. Geophysical Research Letters, 2015, 42, 6819-6828.	1.5	464
6	Twentyâ€First Century Drought Projections in the CMIP6 Forcing Scenarios. Earth's Future, 2020, 8, e2019EF001461.	2.4	435
7	Divergent responses to spring and winter warming drive community level flowering trends. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 9000-9005.	3.3	318
8	Effects of global irrigation on the near-surface climate. Climate Dynamics, 2009, 33, 159-175.	1.7	314
9	Predicting phenology by integrating ecology, evolution and climate science. Global Change Biology, 2011, 17, 3633-3643.	4.2	314
10	Climate Change and Drought: From Past to Future. Current Climate Change Reports, 2018, 4, 164-179.	2.8	304
11	Amplification of the North American â€œDust Bowlâ€• drought through human-induced land degradation. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 4997-5001.	3.3	284
12	Spatiotemporal drought variability in the Mediterranean over the last 900Âyears. Journal of Geophysical Research D: Atmospheres, 2016, 121, 2060-2074.	1.2	284
13	Landâ€"atmosphere feedbacks exacerbate concurrent soil drought and atmospheric aridity. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 18848-18853.	3.3	283
14	Assessing the evolving fragility of the global food system. Environmental Research Letters, 2015, 10, 024007.	2.2	248
15	Effects of irrigation on global climate during the 20th century. Journal of Geophysical Research, 2010, 115, .	3.3	245
16	Rapid intensification of the emerging southwestern North American megadrought in 2020â€"2021. Nature Climate Change, 2022, 12, 232-234.	8.1	239
17	GISSâ€E2.1: Configurations and Climatology. Journal of Advances in Modeling Earth Systems, 2020, 12, e2019MS002025.	1.3	234
18	The Mexican Drought Atlas: Tree-ring reconstructions of the soil moisture balance during the late pre-Hispanic, colonial, and modern eras. Quaternary Science Reviews, 2016, 149, 34-60.	1.4	196

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19	Twentieth-century hydroclimate changes consistent with human influence. Nature, 2019, 569, 59-65.	13.7	192
20	Phylogenetic conservatism in plant phenology. Journal of Ecology, 2013, 101, 1520-1530.	1.9	182
21	Critical impact of vegetation physiology on the continental hydrologic cycle in response to increasing CO ₂. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 4093-4098.	3.3	179
22	Relative impacts of mitigation, temperature, and precipitation on 21st-century megadrought risk in the American Southwest. Science Advances, 2016, 2, e1600873.	4.7	168
23	The response of the North American Monsoon to increased greenhouse gas forcing. Journal of Geophysical Research D: Atmospheres, 2013, 118, 1690-1699.	1.2	156
24	Pan-Continental Droughts in North America over the Last Millennium*. Journal of Climate, 2014, 27, 383-397.	1.2	155
25	Temperatureâ€dependent shifts in phenology contribute to the success of exotic species with climate change. American Journal of Botany, 2013, 100, 1407-1421.	0.8	140
26	The legacy of episodic climatic events in shaping temperate, broadleaf forests. Ecological Monographs, 2014, 84, 599-620.	2.4	140
27	Soil moistureâ€"atmosphere feedbacks mitigate declining water availability in drylands. Nature Climate Change, 2021, 11, 38-44.	8.1	138
28	Influence of volcanic eruptions on the climate of the Asian monsoon region. Geophysical Research Letters, 2010, 37, .	1.5	137
29	Mid-latitude freshwater availability reduced by projected vegetation responses to climate change. Nature Geoscience, 2019, 12, 983-988.	5.4	132
30	Progress towards an interdisciplinary science of plant phenology: building predictions across space, time and species diversity. New Phytologist, 2014, 201, 1156-1162.	3.5	130
31	North American megadroughts in the Common Era: reconstructions and simulations. Wiley Interdisciplinary Reviews: Climate Change, 2016, 7, 411-432.	3.6	123
32	Drought variability in the eastern Australia and New Zealand summer drought atlas (ANZDA, CE) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 2 124002.	2.2	121
33	A reconstruction of global hydroclimate and dynamical variables over the Common Era. Scientific Data, 2018, 5, 180086.	2.4	114
34	Sensitivity of Spring Phenology to Warming Across Temporal and Spatial Climate Gradients in Two Independent Databases. Ecosystems, 2012, 15, 1283-1294.	1.6	107
35	Irrigation as an historical climate forcing. Climate Dynamics, 2015, 44, 1715-1730.	1.7	103
36	Irrigation induced surface cooling in the context of modern and increased greenhouse gas forcing. Climate Dynamics, 2011, 37, 1587-1600.	1.7	95

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37	The worst North American drought year of the last millennium: 1934. Geophysical Research Letters, 2014, 41, 7298-7305.	1.5	86
38	Climate change decouples drought from early wine grape harvests in France. Nature Climate Change, 2016, 6, 715-719.	8.1	78
39	The Curious Case of Projected Twenty-First-Century Drying but Greening in the American West. Journal of Climate, 2017, 30, 8689-8710.	1.2	74
40	The plant phenology monitoring design for The National Ecological Observatory Network. Ecosphere, 2016, 7, e01303.	1.0	72
41	Atmospheric circulation anomalies during two persistent north american droughts: 1932â€"1939 and 1948â€"1957. Climate Dynamics, 2011, 36, 2339-2355.	1.7	70
42	Stationarity of the tropical pacific teleconnection to North America in CMIP5/PMIP3 model simulations. Geophysical Research Letters, 2013, 40, 4927-4932.	1.5	68
43	Are Simulated Megadroughts in the North American Southwest Forced?*. Journal of Climate, 2015, 28, 124-142.	1.2	68
44	Dust and sea surface temperature forcing of the 1930s â€œDust Bowlâ€• drought. Geophysical Research Letters, 2008, 35, .	1.5	66
45	Clouds and temperature drive dynamic changes in tropical flower production. Nature Climate Change, 2013, 3, 838-842.	8.1	63
46	Preâ€Columbian deforestation as an amplifier of drought in Mesoamerica. Geophysical Research Letters, 2012, 39, .	1.5	59
47	Seven centuries of reconstructed Brahmaputra River discharge demonstrate underestimated high discharge and flood hazard frequency. Nature Communications, 2020, 11, 6017.	5.8	58
48	Dynamics, Variability, and Change in Seasonal Precipitation Reconstructions for North America. Journal of Climate, 2020, 33, 3173-3195.	1.2	58
49	Internal oceanâ€atmosphere variability drives megadroughts in Western North America. Geophysical Research Letters, 2016, 43, 9886-9894.	1.5	56
50	Megadroughts in Southwestern North America in ECHO-G Millennial Simulations and Their Comparison to Proxy Drought Reconstructions*. Journal of Climate, 2013, 26, 7635-7649.	1.2	55
51	Climate and the Global Famine of 1876â€"78. Journal of Climate, 2018, 31, 9445-9467.	1.2	55
52	Objective determination of monsoon season onset, withdrawal, and length. Journal of Geophysical Research, 2009, 114, .	3.3	54
53	Flowering date of taxonomic families predicts phenological sensitivity to temperature: Implications for forecasting the effects of climate change on unstudied taxa. American Journal of Botany, 2013, 100, 1381-1397.	0.8	54
54	Influences of the El NiÃ±o Southern Oscillation and the Pacific Decadal Oscillation on the timing of the North American spring. International Journal of Climatology, 2012, 32, 2301-2310.	1.5	52

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55	European and Mediterranean hydroclimate responses to tropical volcanic forcing over the last millennium. Geophysical Research Letters, 2017, 44, 5104-5112.	1.5	51
56	A double bootstrap approach to Superposed Epoch Analysis to evaluate response uncertainty. Dendrochronologia, 2019, 55, 119-124.	1.0	51
57	The 2016 Southeastern U.S. Drought: An Extreme Departure From Centennial Wetting and Cooling. Journal of Geophysical Research D: Atmospheres, 2017, 122, 10888-10905.	1.2	48
58	The response of the South Asian Summer Monsoon circulation to intensified irrigation in global climate model simulations. Climate Dynamics, 2014, 42, 21-36.	1.7	47
59	A Robust Null Hypothesis for the Potential Causes of Megadrought in Western North America. Journal of Climate, 2018, 31, 3-24.	1.2	47
60	On the Causes and Dynamics of the Early Twentieth-Century North American Pluvial. Journal of Climate, 2011, 24, 5043-5060.	1.2	46
61	North American Pancontinental Droughts in Model Simulations of the Last Millennium*. Journal of Climate, 2015, 28, 2025-2043.	1.2	46
62	Observed and Projected Changes to the Precipitation Annual Cycle. Journal of Climate, 2017, 30, 4983-4995.	1.2	46
63	Precipitation, Temperature, and Teleconnection Signals across the Combined North American, Monsoon Asia, and Old World Drought Atlases. Journal of Climate, 2017, 30, 7141-7155.	1.2	46
64	Blue Water Tradeâ€Offs With Vegetation in a CO₂â€Enriched Climate. Geophysical Research Letters, 2018, 45, 3115-3125.	1.5	46
65	Growing impact of wildfire on western US water supply. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	3.3	46
66	Phenological versus meteorological controls on landâ€atmosphere water and carbon fluxes. Journal of Geophysical Research G: Biogeosciences, 2013, 118, 14-29.	1.3	45
67	Oceanic and radiative forcing of medieval megadroughts in the American Southwest. Science Advances, 2019, 5, eaax0087.	4.7	45
68	Forced and unforced variability of twentieth century North American droughts and pluvials. Climate Dynamics, 2011, 37, 1097-1110.	1.7	44
69	Intensification of North American Megadroughts through Surface and Dust Aerosol Forcing*. Journal of Climate, 2013, 26, 4414-4430.	1.2	44
70	The North Atlantic Oscillation and regional phenology prediction over Europe. Global Change Biology, 2005, 11, 919-926.	4.2	43
71	Investigating the Causes of Increased Twentieth-Century Fall Precipitation over the Southeastern United States. Journal of Climate, 2019, 32, 575-590.	1.2	41
72	Bridging Past and Future Climate across Paleoclimatic Reconstructions, Observations, and Models: A Hydroclimate Case Study*. Journal of Climate, 2015, 28, 3212-3231.	1.2	40

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73	Six Centuries of Upper Indus Basin Streamflow Variability and Its Climatic Drivers. Water Resources Research, 2018, 54, 5687-5701.	1.7	40
74	Exacerbation of the 2013â€“2016 Panâ€Caribbean Drought by Anthropogenic Warming. Geophysical Research Letters, 2018, 45, 10619-10626.	1.5	39
75	Unprecedented Drought Challenges for Texas Water Resources in a Changing Climate: What Do Researchers and Stakeholders Need to Know?. Earth's Future, 2020, 8, e2020EF001552.	2.4	38
76	A Global Assessment of Long-Term Greening and Browning Trends in Pasture Lands Using the GIMMS LAI3g Dataset. Remote Sensing, 2013, 5, 2492-2512.	1.8	35
77	Effect of irrigation on humid heat extremes. Environmental Research Letters, 2020, 15, 094010.	2.2	33
78	The thermoinsulation effect of snow cover within a climate model. Climate Dynamics, 2008, 31, 107-124.	1.7	32
79	A crossâ€taxa phenological dataset from Mohonk Lake, NY and its relationship to climate. International Journal of Climatology, 2008, 28, 1369-1383.	1.5	30
80	20,000 years of societal vulnerability and adaptation to climate change in southwest Asia. Wiley Interdisciplinary Reviews: Water, 2019, 6, e1330.	2.8	30
81	Uncertainties, Limits, and Benefits of Climate Change Mitigation for Soil Moisture Drought in Southwestern North America. Earth's Future, 2021, 9, e2021EF002014.	2.4	30
82	Revisiting the Leading Drivers of Pacific Coastal Drought Variability in the Contiguous United States. Journal of Climate, 2018, 31, 25-43.	1.2	27
83	Distinct Influences of Land Cover and Land Management on Seasonal Climate. Journal of Geophysical Research D: Atmospheres, 2018, 123, 12017-12039.	1.2	26
84	Climate controls on tree growth in the Western Mediterranean. Holocene, 2017, 27, 1429-1442.	0.9	25
85	The paleoclimate context and future trajectory of extreme summer hydroclimate in eastern Australia. Journal of Geophysical Research D: Atmospheres, 2016, 121, 12820-12838.	1.2	24
86	Winterâ€toâ€summer precipitation phasing in southwestern North America: A multicentury perspective from paleoclimatic modelâ€data comparisons. Journal of Geophysical Research D: Atmospheres, 2015, 120, 8052-8064.	1.2	23
87	Climate Change Amplification of Natural Drought Variability: The Historic Mid-Twentieth-Century North American Drought in a Warmer World. Journal of Climate, 2019, 32, 5417-5436.	1.2	23
88	Ecological forecasting under climatic data uncertainty: a case study in phenological modeling. Environmental Research Letters, 2010, 5, 044014.	2.2	22
89	Future Climate Change Under SSP Emission Scenarios With GISSâ€E2.1. Journal of Advances in Modeling Earth Systems, 2022, 14, .	1.3	22
90	Competing Influences of Anthropogenic Warming, ENSO, and Plant Physiology on Future Terrestrial Aridity. Journal of Climate, 2017, 30, 6883-6904.	1.2	20

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91	Rapid vegetation responses and feedbacks amplify climate model response to snow cover changes. Climate Dynamics, 2008, 30, 391-406.	1.7	17
92	Divergent Regional Climate Consequences of Maintaining Current Irrigation Rates in the 21st Century. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2019JD031814.	1.2	17
93	Snow cover and precipitation impacts on dry season streamflow in the Lower Mekong Basin. Journal of Geophysical Research, 2012, 117, .	3.3	16
94	Tree Rings and Observations Suggest No Stable Cycles in Sierra Nevada Coolâ€Season Precipitation. Water Resources Research, 2021, 57, e2020WR028599.	1.7	16
95	New directions in tropical phenology. Trends in Ecology and Evolution, 2022, 37, 683-693.	4.2	16
96	Repurposing climate reconstructions for drought prediction in Southeast Asia. Climatic Change, 2011, 106, 691-698.	1.7	15
97	Cold Tropical Pacific Sea Surface Temperatures During the Late Sixteenthâ€Century North American Megadrought. Journal of Geophysical Research D: Atmospheres, 2018, 123, 11,307.	1.2	15
98	Oceanâ€"atmosphere interactions modulate irrigation's climate impacts. Earth System Dynamics, 2016, 7, 863-876.	2.7	15
99	Projected Changes to Hydroclimate Seasonality in the Continental United States. Earth's Future, 2021, 9, e2021EF002019.	2.4	14
100	Paleoclimate histories improve access and sustainability in index insurance programs. Global Environmental Change, 2013, 23, 774-781.	3.6	13
101	Climate change reshapes the drivers of false spring risk across European trees. New Phytologist, 2021, 229, 323-334.	3.5	12
102	Covariability of climate and streamflow in the Upper Rio Grande from interannual to interdecadal timescales. Journal of Hydrology: Regional Studies, 2017, 13, 58-71.	1.0	10
103	Coupled Modes of North Atlantic Oceanâ€Atmosphere Variability and the Onset of the Little Ice Age. Geophysical Research Letters, 2019, 46, 12417-12426.	1.5	10
104	Pacific Ocean Forcing and Atmospheric Variability Are the Dominant Causes of Spatially Widespread Droughts in the Contiguous United States. Journal of Geophysical Research D: Atmospheres, 2019, 124, 2507-2524.	1.2	10
105	Seasonality of biological and physical systems as indicators of climatic variation and change. Climatic Change, 2020, 163, 1755-1771.	1.7	9
106	Treeâ€Ring Reconstruction of the Atmospheric Ridging Feature That Causes Flash Drought in the Central United States Since 1500. Geophysical Research Letters, 2021, 48, e2020GL091271.	1.5	7
107	Statistical simulation of the influence of the NAO on European winter surface temperatures: Applications to phenological modeling. Journal of Geophysical Research, 2004, 109, .	3.3	6
108	A Homogeneous Record (1896â€"2006) of Daily Weather and Climate at Mohonk Lake, New York*. Journal of Applied Meteorology and Climatology, 2010, 49, 544-555.	0.6	6

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109	Disentangling the Regional Climate Impacts of Competing Vegetation Responses to Elevated Atmospheric CO 2. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD034108.	1.2	6
110	Placing the east-west North American aridity gradient in a multi-century context. Environmental Research Letters, 2021, 16, 114043.	2.2	6
111	The Sensitivity of Landâ€"Atmosphere Coupling to Modern Agriculture in the Northern Midlatitudes. Journal of Climate, 2019, 32, 465-484.	1.2	5
112	Dynamics and Variability of the Spring Dry Season in the United States Southwest as Observed in AmeriFlux and NLDAS-2 Data. Journal of Hydrometeorology, 2019, 20, 1081-1102.	0.7	4
113	A quantitative hydroclimatic context for the European Great Famine of 1315â€"1317. Communications Earth & Environment, 2020, 1, .	2.6	3
114	Moisture and temperature influences on nonlinear vegetation trends in Serengeti National Park. Environmental Research Letters, 2021, 16, 094049.	2.2	3
115	Reply to Comment on â€˜Drought variability in the eastern Australia and New Zealand summer drought atlas (ANZDA, CE 1500â€"2012) modulated by the Interdecadal Pacific Oscillationâ€™. Environmental Research Letters, 2017, 12, 068002.	2.2	0
116	Changing hydroclimate dynamics and the 19th to 20th century wetting trend in the English Channel region of northwest Europe. Climate Dynamics, 2022, 58, 1539-1553.	1.7	0
117	Dust Bowl. Encyclopedia of Earth Sciences Series, 2013, , 197-201.	0.1	0