

# A Park Williams

## List of Publications by Year in descending order

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Version: 2024-02-01

97  
papers

13,974  
citations

36303

51  
h-index

37204

96  
g-index

97  
all docs

97  
docs citations

97  
times ranked

13943  
citing authors

#	ARTICLE	IF	CITATIONS
1	Impact of anthropogenic climate change on wildfire across western US forests. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 11770-11775.	7.1	1,722
2	Temperature as a potent driver of regional forest drought stress and tree mortality. Nature Climate Change, 2013, 3, 292-297.	18.8	1,487
3	Pervasive drought legacies in forest ecosystems and their implications for carbon cycle models. Science, 2015, 349, 528-532.	12.6	836
4	Observed Impacts of Anthropogenic Climate Change on Wildfire in California. Earth's Future, 2019, 7, 892-910.	6.3	540
5	Large contribution from anthropogenic warming to an emerging North American megadrought. Science, 2020, 368, 314-318.	12.6	527
6	Contribution of anthropogenic warming to California drought during 2012–2014. Geophysical Research Letters, 2015, 42, 6819-6828.	4.0	464
7	Forest responses to increasing aridity and warmth in the southwestern United States. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 21289-21294.	7.1	442
8	Twenty-First Century Drought Projections in the CMIP6 Forcing Scenarios. Earth's Future, 2020, 8, e2019EF001461.	6.3	435
9	A westward extension of the warm pool leads to a westward extension of the Walker circulation, drying eastern Africa. Climate Dynamics, 2011, 37, 2417-2435.	3.8	412
10	Evaluating theories of drought-induced vegetation mortality using a multimodel experiment framework. New Phytologist, 2013, 200, 304-321.	7.3	340
11	Climate change is increasing the likelihood of extreme autumn wildfire conditions across California. Environmental Research Letters, 2020, 15, 094016.	5.2	322
12	Rapid warming accelerates tree growth decline in semi-arid forests of Inner Asia. Global Change Biology, 2013, 19, 2500-2510.	9.5	311
13	Global Emergence of Anthropogenic Climate Change in Fire Weather Indices. Geophysical Research Letters, 2019, 46, 326-336.	4.0	292
14	Land-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.	7.1	283
15	Rapid intensification of the emerging southwestern North American megadrought in 2020–2021. Nature Climate Change, 2022, 12, 232-234.	18.8	239
16	Projected increases in intensity, frequency, and terrestrial carbon costs of compound drought and aridity events. Science Advances, 2019, 5, eaau5740.	10.3	211
17	Sensitivity of grassland productivity to aridity controlled by stomatal and xylem regulation. Nature Geoscience, 2017, 10, 284-288.	12.9	200
18	Twentieth-century hydroclimate changes consistent with human influence. Nature, 2019, 569, 59-65.	27.8	192

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19	Global patterns of interannual climate–fire relationships. <i>Global Change Biology</i> , 2018, 24, 5164-5175.	9.5	191
20	Global satellite monitoring of climate-induced vegetation disturbances. <i>Trends in Plant Science</i> , 2015, 20, 114-123.	8.8	183
21	Global field observations of tree die-off reveal hotter-drought fingerprint for Earth’s forests. <i>Nature Communications</i> , 2022, 13, 1761.	12.8	171
22	Seasonal and episodic moisture controls on plant and microbial contributions to soil respiration. <i>Oecologia</i> , 2011, 167, 265-278.	2.0	169
23	Climate change, ecosystems and abrupt change: science priorities. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2020, 375, 20190105.	4.0	169
24	The critical amplifying role of increasing atmospheric moisture demand on tree mortality and associated regional die-off. <i>Frontiers in Plant Science</i> , 2013, 4, 266.	3.6	163
25	Climatology, Variability, and Trends in the U.S. Vapor Pressure Deficit, an Important Fire-Related Meteorological Quantity. <i>Journal of Applied Meteorology and Climatology</i> , 2015, 54, 1121-1141.	1.5	150
26	Soil moisture–atmosphere feedbacks mitigate declining water availability in drylands. <i>Nature Climate Change</i> , 2021, 11, 38-44.	18.8	138
27	Mid-latitude freshwater availability reduced by projected vegetation responses to climate change. <i>Nature Geoscience</i> , 2019, 12, 983-988.	12.9	132
28	Significance of summer fog and overcast for drought stress and ecological functioning of coastal California endemic plant species. <i>Journal of Biogeography</i> , 2009, 36, 783-799.	3.0	129
29	Recent summer precipitation trends in the Greater Horn of Africa and the emerging role of Indian Ocean sea surface temperature. <i>Climate Dynamics</i> , 2012, 39, 2307-2328.	3.8	129
30	Climate-driven regime shifts in a mangrove–salt marsh ecotone over the past 250 years. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 21602-21608.	7.1	127
31	North American megadroughts in the Common Era: reconstructions and simulations. <i>Wiley Interdisciplinary Reviews: Climate Change</i> , 2016, 7, 411-432.	8.1	123
32	Six hundred years of South American tree rings reveal an increase in severe hydroclimatic events since mid-20th century. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 16816-16823.	7.1	119
33	Correlations between components of the water balance and burned area reveal new insights for predicting forest fire area in the southwest United States. <i>International Journal of Wildland Fire</i> , 2015, 24, 14.	2.4	115
34	Integrating physiological threshold experiments with climate modeling to project mangrove species’ range expansion. <i>Global Change Biology</i> , 2015, 21, 1928-1938.	9.5	111
35	Recent Advances and Remaining Uncertainties in Resolving Past and Future Climate Effects on Global Fire Activity. <i>Current Climate Change Reports</i> , 2016, 2, 1-14.	8.6	110
36	Projected increases in western US forest fire despite growing fuel constraints. <i>Communications Earth &amp; Environment</i> , 2021, 2, .	6.8	102

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37	Light limitation regulates the response of autumn terrestrial carbon uptake to warming. <i>Nature Climate Change</i> , 2020, 10, 739-743.	18.8	94
38	Comparing proxy and model estimates of hydroclimate variability and change over the Common Era. <i>Climate of the Past</i> , 2017, 13, 1851-1900.	3.4	93
39	Projected Future Changes in Vegetation in Western North America in the Twenty-First Century. <i>Journal of Climate</i> , 2013, 26, 3671-3687.	3.2	81
40	Trends toward an earlier peak of the growing season in Northern Hemisphere mid-latitudes. <i>Global Change Biology</i> , 2016, 22, 2852-2860.	9.5	77
41	Empirical and process-based approaches to climate-induced forest mortality models. <i>Frontiers in Plant Science</i> , 2013, 4, 438.	3.6	76
42	Climatic influences on interannual variability in regional burn severity across western US forests. <i>International Journal of Wildland Fire</i> , 2017, 26, 269.	2.4	76
43	Urbanization causes increased cloud base height and decreased fog in coastal Southern California. <i>Geophysical Research Letters</i> , 2015, 42, 1527-1536.	4.0	74
44	The Curious Case of Projected Twenty-First-Century Drying but Greening in the American West. <i>Journal of Climate</i> , 2017, 30, 8689-8710.	3.2	74
45	Large and projected strengthening moisture limitation on end-of-season photosynthesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 9216-9222.	7.1	69
46	Warming weakens the night-time barrier to global fire. <i>Nature</i> , 2022, 602, 442-448.	27.8	66
47	Causes and Implications of Extreme Atmospheric Moisture Demand during the Record-Breaking 2011 Wildfire Season in the Southwestern United States. <i>Journal of Applied Meteorology and Climatology</i> , 2014, 53, 2671-2684.	1.5	65
48	Switching on the Big Burn of 2017. <i>Fire</i> , 2018, 1, 17.	2.8	65
49	The influence of summertime fog and overcast clouds on the growth of a coastal Californian pine: a tree-ring study. <i>Oecologia</i> , 2008, 156, 601-611.	2.0	60
50	Vegetation Responses to 2012–2016 Drought in Northern and Southern California. <i>Geophysical Research Letters</i> , 2019, 46, 3810-3821.	4.0	60
51	Dynamics, Variability, and Change in Seasonal Precipitation Reconstructions for North America. <i>Journal of Climate</i> , 2020, 33, 3173-3195.	3.2	58
52	Increasing Synchronous Fire Danger in Forests of the Western United States. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL091377.	4.0	53
53	SAR-enhanced mapping of live fuel moisture content. <i>Remote Sensing of Environment</i> , 2020, 245, 111797.	11.0	50
54	The 2016 Southeastern U.S. Drought: An Extreme Departure From Centennial Wetting and Cooling. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 10888-10905.	3.3	48

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55	Precipitation, Temperature, and Teleconnection Signals across the Combined North American, Monsoon Asia, and Old World Drought Atlases. <i>Journal of Climate</i> , 2017, 30, 7141-7155.	3.2	46
56	Blue Water Tradeoffs With Vegetation in a CO <sub>2</sub> -Enriched Climate. <i>Geophysical Research Letters</i> , 2018, 45, 3115-3125.	4.0	46
57	Growing impact of wildfire on western US water supply. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	7.1	46
58	Oceanic and radiative forcing of medieval megadroughts in the American Southwest. <i>Science Advances</i> , 2019, 5, eaax0087.	10.3	45
59	Cloud shading and fog drip influence the metabolism of a coastal pine ecosystem. <i>Global Change Biology</i> , 2013, 19, 484-497.	9.5	43
60	Using Tree Rings to Predict the Response of Tree Growth to Climate Change in the Continental United States during the Twenty-First Century. <i>Earth Interactions</i> , 2010, 14, 1-20.	1.5	40
61	Exacerbation of the 2013–2016 Pan-Caribbean Drought by Anthropogenic Warming. <i>Geophysical Research Letters</i> , 2018, 45, 10619-10626.	4.0	39
62	Rapid Growth of Large Forest Fires Drives the Exponential Response of Annual Forest Fire Area to Aridity in the Western United States. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	37
63	A range of possibilities: Assessing geographic variation in climate sensitivity of ponderosa pine using tree rings. <i>Forest Ecology and Management</i> , 2017, 402, 223-233.	3.2	34
64	Strengthened scientific support for the Endangerment Finding for atmospheric greenhouse gases. <i>Science</i> , 2019, 363, .	12.6	34
65	Improving operational land surface model canopy evapotranspiration in Africa using a direct remote sensing approach. <i>Hydrology and Earth System Sciences</i> , 2013, 17, 1079-1091.	4.9	34
66	A Euro-Mediterranean tree-ring reconstruction of the winter NAO index since 910 A.D. <i>Climate Dynamics</i> , 2019, 53, 1567-1580.	3.8	32
67	Uncertainties, Limits, and Benefits of Climate Change Mitigation for Soil Moisture Drought in Southwestern North America. <i>Earth's Future</i> , 2021, 9, e2021EF002014.	6.3	30
68	Fog drip maintains dry season ecological function in a California coastal pine forest. <i>Ecosphere</i> , 2016, 7, e01364.	2.2	28
69	Revisiting the Leading Drivers of Pacific Coastal Drought Variability in the Contiguous United States. <i>Journal of Climate</i> , 2018, 31, 25-43.	3.2	27
70	Increased Fall Precipitation in the Southeastern United States Driven by Higher Intensity, Frontal Precipitation. <i>Geophysical Research Letters</i> , 2019, 46, 8300-8309.	4.0	26
71	An alternate vegetation type proves resilient and persists for decades following forest conversion in the North American boreal biome. <i>Journal of Ecology</i> , 2021, 109, 85-98.	4.0	26
72	Bioclimatic Envelopes for Individual Demographic Events Driven by Extremes: Plant Mortality from Drought and Warming. <i>International Journal of Plant Sciences</i> , 2019, 180, 53-62.	1.3	25

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73	Effect of Reduced Summer Cloud Shading on Evaporative Demand and Wildfire in Coastal Southern California. <i>Geophysical Research Letters</i> , 2018, 45, 5653-5662.	4.0	23
74	Climate Change Amplification of Natural Drought Variability: The Historic Mid-Twentieth-Century North American Drought in a Warmer World. <i>Journal of Climate</i> , 2019, 32, 5417-5436.	3.2	23
75	Who is the new sheriff in town regulating boreal forest growth?. <i>Environmental Research Letters</i> , 2011, 6, 041004.	5.2	22
76	Will Landscape Fire Increase in the Future? A Systems Approach to Climate, Fire, Fuel, and Human Drivers. <i>Current Pollution Reports</i> , 2019, 5, 9-24.	6.6	22
77	Historical droughts recorded in extended <i>Juniperus procera</i> ring-width chronologies from the Ethiopian Highlands. <i>International Journal of Biometeorology</i> , 2020, 64, 739-753.	3.0	19
78	Divergent Regional Climate Consequences of Maintaining Current Irrigation Rates in the 21st Century. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2019JD031814.	3.3	17
79	Tree Rings and Observations Suggest No Stable Cycles in Sierra Nevada Cool-Season Precipitation. <i>Water Resources Research</i> , 2021, 57, e2020WR028599.	4.2	16
80	Cold Tropical Pacific Sea Surface Temperatures During the Late Sixteenth-Century North American Megadrought. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 11,307.	3.3	15
81	Radial Growth Patterns Associated with Tree Mortality in <i>Nothofagus pumilio</i> Forest. <i>Forests</i> , 2019, 10, 489.	2.1	15
82	Spatial Patterns and Trends of Summertime Low Cloudiness for the Pacific Northwest, 1996-2017. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088121.	4.0	15
83	Projected Changes to Hydroclimate Seasonality in the Continental United States. <i>Earth's Future</i> , 2021, 9, e2021EF002019.	6.3	14
84	How much have California winters warmed over the last century?. <i>Geophysical Research Letters</i> , 2017, 44, 8893-8900.	4.0	11
85	Traumatic Resin Ducts in Alaska Mountain Hemlock Trees Provide a New Proxy for Winter Storminess. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2019, 124, 1923-1938.	3.0	11
86	Sensitivity of Tropospheric Ozone Over the Southeast USA to Dry Deposition. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL087158.	4.0	11
87	Sea Surface Temperature Warming Patterns and Future Vegetation Change. <i>Journal of Climate</i> , 2015, 28, 7943-7961.	3.2	10
88	Pacific Ocean Forcing and Atmospheric Variability Are the Dominant Causes of Spatially Widespread Droughts in the Contiguous United States. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 2507-2524.	3.3	10
89	A 500-Year Tree Ring-Based Reconstruction of Extreme Cold-Season Precipitation and Number of Atmospheric River Landfalls Across the Southwestern United States. <i>Geophysical Research Letters</i> , 2018, 45, 5672-5680.	4.0	9
90	Reconstructing Extreme Precipitation in the Sacramento River Watershed Using Tree-Ring Based Proxies of Cold-Season Precipitation. <i>Water Resources Research</i> , 2021, 57, e2020WR028824.	4.2	9

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91	Tussocks Enduring or Shrubs Greening: Alternate Responses to Changing Fire Regimes in the Noatak River Valley, Alaska. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2021, 126, e2020JG006009.	3.0	8
92	Tree-Ring Reconstruction of the Atmospheric Ridging Feature That Causes Flash Drought in the Central United States Since 1500. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL091271.	4.0	7
93	Disentangling the Regional Climate Impacts of Competing Vegetation Responses to Elevated Atmospheric CO <sub>2</sub> . <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD034108.	3.3	6
94	Placing the east-west North American aridity gradient in a multi-century context. <i>Environmental Research Letters</i> , 2021, 16, 114043.	5.2	6
95	Large divergence in tropical hydrological projections caused by model spread in vegetation responses to elevated CO <sub>2</sub> . <i>Earth's Future</i> , 0, , .	6.3	5
96	Dynamics and Variability of the Spring Dry Season in the United States Southwest as Observed in AmeriFlux and NLDAS-2 Data. <i>Journal of Hydrometeorology</i> , 2019, 20, 1081-1102.	1.9	4
97	Influence of the South American Low-Level Jet on the Austral Summer Precipitation Trend in Southeastern South America. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	3