

# Richard Seager

## List of Publications by Year in descending order

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119  
papers

18,620  
citations

18482

62  
h-index

19749

117  
g-index

121  
all docs

121  
docs citations

121  
times ranked

15310  
citing authors

#	ARTICLE	IF	CITATIONS
1	Model Projections of an Imminent Transition to a More Arid Climate in Southwestern North America. <i>Science</i> , 2007, 316, 1181-1184.	12.6	1,792
2	Temperature as a potent driver of regional forest drought stress and tree mortality. <i>Nature Climate Change</i> , 2013, 3, 292-297.	18.8	1,487
3	Climate change in the Fertile Crescent and implications of the recent Syrian drought. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 3241-3246.	7.1	959
4	Global warming and 21st century drying. <i>Climate Dynamics</i> , 2014, 43, 2607-2627.	3.8	782
5	North American drought: Reconstructions, causes, and consequences. <i>Earth-Science Reviews</i> , 2007, 81, 93-134.	9.1	677
6	Thermodynamic and Dynamic Mechanisms for Large-Scale Changes in the Hydrological Cycle in Response to Global Warming*. <i>Journal of Climate</i> , 2010, 23, 4651-4668.	3.2	668
7	Forced and Internal Twentieth-Century SST Trends in the North Atlantic*. <i>Journal of Climate</i> , 2009, 22, 1469-1481.	3.2	493
8	An Ocean Dynamical Thermostat. <i>Journal of Climate</i> , 1996, 9, 2190-2196.	3.2	492
9	Contribution of anthropogenic warming to California drought during 2012-2014. <i>Geophysical Research Letters</i> , 2015, 42, 6819-6828.	4.0	464
10	Twentieth-Century Sea Surface Temperature Trends. <i>Science</i> , 1997, 275, 957-960.	12.6	443
11	Greenhouse warming and the 21st century hydroclimate of southwestern North America. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 21277-21282.	7.1	433
12	Old World megadroughts and pluvials during the Common Era. <i>Science Advances</i> , 2015, 1, e1500561.	10.3	403
13	Megadroughts in North America: placing IPCC projections of hydroclimatic change in a long-term palaeoclimate context. <i>Journal of Quaternary Science</i> , 2010, 25, 48-61.	2.1	392
14	Modeling of Tropical Forcing of Persistent Droughts and Pluvials over Western North America: 1856-2000*. <i>Journal of Climate</i> , 2005, 18, 4065-4088.	3.2	376
15	Mechanisms of Hemispherically Symmetric Climate Variability*. <i>Journal of Climate</i> , 2003, 16, 2960-2978.	3.2	330
16	Causes of the 2011-14 California Drought*. <i>Journal of Climate</i> , 2015, 28, 6997-7024.	3.2	317
17	Amplification of the North American "Dust Bowl" drought through human-induced land degradation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 4997-5001.	7.1	284
18	Drought in the Southeastern United States: Causes, Variability over the Last Millennium, and the Potential for Future Hydroclimate Change*. <i>Journal of Climate</i> , 2009, 22, 5021-5045.	3.2	283

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19	A U.S. CLIVAR Project to Assess and Compare the Responses of Global Climate Models to Drought-Related SST Forcing Patterns: Overview and Results. <i>Journal of Climate</i> , 2009, 22, 5251-5272.	3.2	282
20	Projections of declining surface-water availability for the southwestern United States. <i>Nature Climate Change</i> , 2013, 3, 482-486.	18.8	280
21	Strengthening tropical Pacific zonal sea surface temperature gradient consistent with rising greenhouse gases. <i>Nature Climate Change</i> , 2019, 9, 517-522.	18.8	270
22	North American Climate in CMIP5 Experiments: Part III: Assessment of Twenty-First-Century Projections*. <i>Journal of Climate</i> , 2014, 27, 2230-2270.	3.2	231
23	North American Droughts of the Last Millennium from a Gridded Network of Tree-Ring Data. <i>Journal of Climate</i> , 2007, 20, 1353-1376.	3.2	207
24	Wind-Driven Shifts in the Latitude of the Kuroshio-Oyashio Extension and Generation of SST Anomalies on Decadal Timescales*. <i>Journal of Climate</i> , 2001, 14, 4249-4265.	3.2	206
25	The Turn of the Century North American Drought: Global Context, Dynamics, and Past Analogs*. <i>Journal of Climate</i> , 2007, 20, 5527-5552.	3.2	206
26	Mechanisms of Tropical Atlantic SST Influence on North American Precipitation Variability*. <i>Journal of Climate</i> , 2010, 23, 5610-5628.	3.2	184
27	Robust features of Atlantic multi-decadal variability and its climate impacts. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	4.0	179
28	Atmosphere and Ocean Origins of North American Droughts*. <i>Journal of Climate</i> , 2014, 27, 4581-4606.	3.2	176
29	Blueprints for Medieval hydroclimate. <i>Quaternary Science Reviews</i> , 2007, 26, 2322-2336.	3.0	173
30	The Annual Cycle of East African Precipitation. <i>Journal of Climate</i> , 2015, 28, 2385-2404.	3.2	173
31	The East African Long Rains in Observations and Models. <i>Journal of Climate</i> , 2014, 27, 7185-7202.	3.2	168
32	A Diagnosis of the Seasonally and Longitudinally Varying Midlatitude Circulation Response to Global Warming*. <i>Journals of the Atmospheric Sciences</i> , 2014, 71, 2489-2515.	1.7	157
33	Pan-Continental Droughts in North America over the Last Millennium*. <i>Journal of Climate</i> , 2014, 27, 383-397.	3.2	155
34	Causes of Atlantic Ocean Climate Variability between 1958 and 1998*. <i>Journal of Climate</i> , 2000, 13, 2845-2862.	3.2	153
35	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
36	North American droughts of the mid to late nineteenth century: a history, simulation and implication for Mediaeval drought. <i>Holocene</i> , 2006, 16, 159-171.	1.7	147

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37	Diagnostic Computation of Moisture Budgets in the ERA-Interim Reanalysis with Reference to Analysis of CMIP-Archived Atmospheric Model Data*. Journal of Climate, 2013, 26, 7876-7901.	3.2	146
38	Observed Strengthening of the Zonal Sea Surface Temperature Gradient across the Equatorial Pacific Ocean*. Journal of Climate, 2009, 22, 4316-4321.	3.2	141
39	Causes of Increasing Aridification of the Mediterranean Region in Response to Rising Greenhouse Gases*. Journal of Climate, 2014, 27, 4655-4676.	3.2	137
40	Climate Variability and Change of Mediterranean-Type Climates. Journal of Climate, 2019, 32, 2887-2915.	3.2	132
41	Mid-latitude freshwater availability reduced by projected vegetation responses to climate change. Nature Geoscience, 2019, 12, 983-988.	12.9	132
42	Does Global Warming Cause Intensified Interannual Hydroclimate Variability?. Journal of Climate, 2012, 25, 3355-3372.	3.2	129
43	A model of the tropical Pacific sea surface temperature climatology. Journal of Geophysical Research, 1988, 93, 1265-1280.	3.3	126
44	Is an Epic Pluvial Masking the Water Insecurity of the Greater New York City Region?*,+. Journal of Climate, 2013, 26, 1339-1354.	3.2	126
45	Dynamical and Thermodynamical Causes of Large-Scale Changes in the Hydrological Cycle over North America in Response to Global Warming*. Journal of Climate, 2014, 27, 7921-7948.	3.2	124
46	North American megadroughts in the Common Era: reconstructions and simulations. Wiley Interdisciplinary Reviews: Climate Change, 2016, 7, 411-432.	8.1	123
47	Causes of change in Northern Hemisphere winter meridional winds and regional hydroclimate. Nature Climate Change, 2016, 6, 65-70.	18.8	108
48	Changes in storm tracks and energy transports in a warmer climate simulated by the GFDL CM2.1 model. Climate Dynamics, 2011, 37, 53-72.	3.8	104
49	Dynamical Causes of the 2010/11 Texasâ€™Northern Mexico Drought*. Journal of Hydrometeorology, 2014, 15, 39-68.	1.9	101
50	Would Advance Knowledge of 1930s SSTs Have Allowed Prediction of the Dust Bowl Drought?*. Journal of Climate, 2008, 21, 3261-3281.	3.2	94
51	The worst North American drought year of the last millennium: 1934. Geophysical Research Letters, 2014, 41, 7298-7305.	4.0	86
52	Tropical Oceanic Causes of Interannual to Multidecadal Precipitation Variability in Southeast South America over the Past Century*. Journal of Climate, 2010, 23, 5517-5539.	3.2	81
53	Tropical Pacific Forcing of North American Medieval Megadroughts: Testing the Concept with an Atmosphere Model Forced by Coral-Reconstructed SSTs*. Journal of Climate, 2008, 21, 6175-6190.	3.2	77
54	Dynamical Structure of Extreme Floods in the U.S. Midwest and the United Kingdom. Journal of Hydrometeorology, 2013, 14, 485-504.	1.9	76

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55	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
56	Are Glacials Dry? Consequences for Paleoclimatology and for Greenhouse Warming. <i>Journal of Climate</i> , 2017, 30, 6593-6609.	3.2	73
57	Early 21st-Century Drought in Mexico. <i>Eos</i> , 2009, 90, 89-90.	0.1	71
58	The relative contributions of radiative forcing and internal climate variability to the late 20th Century winter drying of the Mediterranean region. <i>Climate Dynamics</i> , 2012, 38, 2001-2015.	3.8	69
59	Are Simulated Megadroughts in the North American Southwest Forced?*. <i>Journal of Climate</i> , 2015, 28, 124-142.	3.2	68
60	The 1960s Drought and the Subsequent Shift to a Wetter Climate in the Catskill Mountains Region of the New York City Watershed*. <i>Journal of Climate</i> , 2012, 25, 6721-6742.	3.2	67
61	Dust and sea surface temperature forcing of the 1930s "Dust Bowl" drought. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	66
62	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
63	The 1976/77 transition in precipitation over the Americas and the influence of tropical sea surface temperature. <i>Climate Dynamics</i> , 2005, 24, 721-740.	3.8	64
64	Stratospheric ozone depletion: a key driver of recent precipitation trends in South Eastern South America. <i>Climate Dynamics</i> , 2014, 42, 1775-1792.	3.8	62
65	The Rainfall Annual Cycle Bias over East Africa in CMIP5 Coupled Climate Models. <i>Journal of Climate</i> , 2015, 28, 9789-9802.	3.2	58
66	Megadroughts in Southwestern North America in ECHO-G Millennial Simulations and Their Comparison to Proxy Drought Reconstructions*. <i>Journal of Climate</i> , 2013, 26, 7635-7649.	3.2	55
67	The global footprint of persistent extra-tropical drought in the instrumental era. <i>International Journal of Climatology</i> , 2008, 28, 1761-1774.	3.5	50
68	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
69	On the Causes and Dynamics of the Early Twentieth-Century North American Pluvial. <i>Journal of Climate</i> , 2011, 24, 5043-5060.	3.2	46
70	North American Pancontinental Droughts in Model Simulations of the Last Millennium*. <i>Journal of Climate</i> , 2015, 28, 2025-2043.	3.2	46
71	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
72	Blue Water Trade-Offs With Vegetation in a CO <sub>2</sub> -Enriched Climate. <i>Geophysical Research Letters</i> , 2018, 45, 3115-3125.	4.0	46

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73	Oceanic and radiative forcing of medieval megadroughts in the American Southwest. <i>Science Advances</i> , 2019, 5, eaax0087.	10.3	45
74	Forced and unforced variability of twentieth century North American droughts and pluvials. <i>Climate Dynamics</i> , 2011, 37, 1097-1110.	3.8	44
75	Intensification of North American Megadroughts through Surface and Dust Aerosol Forcing*. <i>Journal of Climate</i> , 2013, 26, 4414-4430.	3.2	44
76	A Mechanisms-Based Approach to Detecting Recent Anthropogenic Hydroclimate Change*. <i>Journal of Climate</i> , 2012, 25, 236-261.	3.2	41
77	A Pacific Centennial Oscillation Predicted by Coupled GCMs*. <i>Journal of Climate</i> , 2012, 25, 5943-5961.	3.2	41
78	Investigating the Causes of Increased Twentieth-Century Fall Precipitation over the Southeastern United States. <i>Journal of Climate</i> , 2019, 32, 575-590.	3.2	41
79	Persistent Discrepancies between Observed and Modeled Trends in the Tropical Pacific Ocean. <i>Journal of Climate</i> , 2022, 35, 4571-4584.	3.2	39
80	Mechanism of Future Spring Drying in the Southwestern United States in CMIP5 Models. <i>Journal of Climate</i> , 2018, 31, 4265-4279.	3.2	35
81	The Downward Influence of Uncertainty in the Northern Hemisphere Stratospheric Polar Vortex Response to Climate Change. <i>Journal of Climate</i> , 2018, 31, 6371-6391.	3.2	35
82	The improbable but unexceptional occurrence of megadrought clustering in the American West during the Medieval Climate Anomaly. <i>Environmental Research Letters</i> , 2016, 11, 074025.	5.2	34
83	Commentary on the Syria case: Climate as a contributing factor. <i>Political Geography</i> , 2017, 60, 245-247.	2.5	32
84	Decadal Drought Variability Over North America: Mechanisms and Predictability. <i>Current Climate Change Reports</i> , 2017, 3, 141-149.	8.6	31
85	Role of tropical Pacific SSTs in global medieval hydroclimate: A modeling study. <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	28
86	The Importance of the Montreal Protocol in Protecting Earth's Hydroclimate. <i>Journal of Climate</i> , 2013, 26, 4049-4068.	3.2	28
87	Predictability of Tropical Pacific Decadal Variability in an Intermediate Model*. <i>Journal of Climate</i> , 2004, 17, 2842-2850.	3.2	27
88	Dynamical and Thermodynamic Elements of Modeled Climate Change at the East African Margin of Convection. <i>Geophysical Research Letters</i> , 2018, 45, 992-1000.	4.0	27
89	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
90	Whither the 100th Meridian? The Once and Future Physical and Human Geography of America's Arid-Humid Divide. Part I: The Story So Far. <i>Earth Interactions</i> , 2018, 22, 1-22.	1.5	26

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91	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
92	Mechanisms of Winter Precipitation Variability in the European-Mediterranean Region Associated with the North Atlantic Oscillation. <i>Journal of Climate</i> , 2020, 33, 7179-7196.	3.2	26
93	Life cycles of agriculturally relevant <scp>ENSO</scp> teleconnections in North and South America. <i>International Journal of Climatology</i> , 2017, 37, 3297-3318.	3.5	23
94	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
95	Whither the 100th Meridian? The Once and Future Physical and Human Geography of America's Arid-Humid Divide. Part II: The Meridian Moves East. <i>Earth Interactions</i> , 2018, 22, 1-24.	1.5	21
96	Western boundary currents and climate change. <i>Journal of Geophysical Research: Oceans</i> , 2016, 121, 7212-7214.	2.6	18
97	A Simple Model of the Climatology and Variability of the Low-Level Wind Field in the Tropics. <i>Journal of Climate</i> , 1991, 4, 164-179.	3.2	17
98	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
99	ENSO-driven coupled megadroughts in North and South America over the last millennium. <i>Nature Geoscience</i> , 2021, 14, 739-744.	12.9	14
100	Intermodel Spread in the Northern Hemisphere Stratospheric Polar Vortex Response to Climate Change in the CMIP5 Models. <i>Geophysical Research Letters</i> , 2019, 46, 13290-13298.	4.0	11
101	Covariability of climate and streamflow in the Upper Rio Grande from interannual to interdecadal timescales. <i>Journal of Hydrology: Regional Studies</i> , 2017, 13, 58-71.	2.4	10
102	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
103	Comparing Twentieth- and Twenty-First-Century Patterns of Interannual Precipitation Variability over the Western United States and Northern Mexico*. <i>Journal of Hydrometeorology</i> , 2012, 13, 366-378.	1.9	9
104	Causes of interannual to decadal variability of Gila River streamflow over the past century. <i>Journal of Hydrology: Regional Studies</i> , 2015, 3, 494-508.	2.4	9
105	Categorical representation of North American precipitation projections. <i>Scientific Reports</i> , 2016, 6, 23888.	3.3	8
106	Predictability and prediction of persistent cool states of the Tropical Pacific Ocean. <i>Climate Dynamics</i> , 2017, 49, 2291-2307.	3.8	8
107	Oceanic Drivers of Widespread Summer Droughts in the United States Over the Common Era. <i>Geophysical Research Letters</i> , 2019, 46, 8271-8280.	4.0	8
108	Framing the frame: Cause and effect in climate-related migration. <i>World Development</i> , 2022, 158, 106016.	4.9	7

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109	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
110	Placing the east-west North American aridity gradient in a multi-century context. <i>Environmental Research Letters</i> , 2021, 16, 114043.	5.2	6
111	Decadal Hydroclimate Variability Across the Americas. <i>World Scientific Series on Asia-Pacific Weather and Climate</i> , 2015, , 235-254.	0.2	5
112	Future Summer Drying in the U.S. Corn Belt and the Role of Midlatitude Storm Tracks. <i>Journal of Climate</i> , 2021, , 1-33.	3.2	5
113	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
114	Prediction of Seasonal Meteorological Drought Onset and Termination over the Southern Great Plains in the North American Multimodel Ensemble. <i>Journal of Hydrometeorology</i> , 2020, 21, 2237-2255.	1.9	4
115	A quantitative hydroclimatic context for the European Great Famine of 1315–1317. <i>Communications Earth &amp; Environment</i> , 2020, 1, .	6.8	3
116	Quantifying atmosphere and ocean origins of North American precipitation variability. <i>Climate Dynamics</i> , 2021, 56, 4051-4074.	3.8	3
117	Observational analysis of decadal and long-term hydroclimate drivers in the Mediterranean region: role of the ocean–atmosphere system and anthropogenic forcing. <i>Climate Dynamics</i> , 0, , 1.	3.8	3
118	How Does Sea Surface Temperature Drive the Intertropical Convergence Zone in the Southern Indian Ocean?. <i>Journal of Climate</i> , 2022, 35, 5415-5432.	3.2	1
119	Changing hydroclimate dynamics and the 19th to 20th century wetting trend in the English Channel region of northwest Europe. <i>Climate Dynamics</i> , 2022, 58, 1539-1553.	3.8	0