

# Jason E Smerdon

## List of Publications by Year in descending order

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84  
papers

7,522  
citations

81900  
39  
h-index

56724  
83  
g-index

86  
all docs

86  
docs citations

86  
times ranked

7859  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Large infrequent rain events dominate the hydroclimate of Rapa Nui (Easter Island). <i>Climate Dynamics</i> , 2022, 59, 595-608.	3.8	4
3	The Role of Internal Variability in ITCZ Changes Over the Last Millennium. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	6
4	Rapid intensification of the emerging southwestern North American megadrought in 2020â€“2021. <i>Nature Climate Change</i> , 2022, 12, 232-234.	18.8	239
5	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
6	Regional Signatures of Forced North Atlantic SST Variability: A Limited Role for Aerosols and Greenhouse Gases. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	7
7	Influence of the South American Lowâ€“Level Jet on the Austral Summer Precipitation Trend in Southeastern South America. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	3
8	Progress and uncertainties in global and hemispheric temperature reconstructions of the Common Era. <i>Quaternary Science Reviews</i> , 2022, 286, 107537.	3.0	23
9	Drivers of Coral Reconstructed Salinity in the South China Sea and Maritime Continent: The Influence of the 1976 Indoâ€“Pacific Climate Shift. <i>Journal of Geophysical Research: Oceans</i> , 2022, 127, .	2.6	2
10	Global hydroclimatic response to tropical volcanic eruptions over the last millennium. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	33
11	Disentangling the Regional Climate Impacts of Competing Vegetation Responses to Elevated Atmospheric CO 2. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD034108.	3.3	6
12	Global Temperature Responses to Large Tropical Volcanic Eruptions in Paleo Data Assimilation Products and Climate Model Simulations Over the Last Millennium. <i>Paleoceanography and Paleoclimatology</i> , 2021, 36, e2020PA004128.	2.9	14
13	Gross Discrepancies between Observed and Simulated Twentieth-to-Twenty-First-Century Precipitation Trends in Southeastern South America. <i>Journal of Climate</i> , 2021, 34, 6441-6457.	3.2	6
14	ENSO-driven coupled megadroughts in North and South America over the last millennium. <i>Nature Geoscience</i> , 2021, 14, 739-744.	12.9	14
15	Projected Changes to Hydroclimate Seasonality in the Continental United States. <i>Earth's Future</i> , 2021, 9, e2021EF002019.	6.3	14
16	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
17	A pseudoproxy assessment of why climate field reconstruction methods perform the way they do in time and space. <i>Climate of the Past</i> , 2021, 17, 2583-2605.	3.4	5
18	A quantitative hydroclimatic context for the European Great Famine of 1315â€“1317. <i>Communications Earth &amp; Environment</i> , 2020, 1, .	6.8	3

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19	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
20	Twenty-first Century Drought Projections in the CMIP6 Forcing Scenarios. <i>Earth's Future</i> , 2020, 8, e2019EF001461.	6.3	435
21	Large contribution from anthropogenic warming to an emerging North American megadrought. <i>Science</i> , 2020, 368, 314-318.	12.6	527
22	Dynamical and hydrological changes in climate simulations of the last millennium. <i>Climate of the Past</i> , 2020, 16, 1285-1307.	3.4	4
23	Paleoclimate Constraints on the Spatiotemporal Character of Past and Future Droughts. <i>Journal of Climate</i> , 2020, 33, 9883-9903.	3.2	13
24	Oceanic and radiative forcing of medieval megadroughts in the American Southwest. <i>Science Advances</i> , 2019, 5, eaax0087.	10.3	45
25	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
26	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
27	Twentieth-century hydroclimate changes consistent with human influence. <i>Nature</i> , 2019, 569, 59-65.	27.8	192
28	Characterization of Air and Ground Temperature Relationships within the CMIP5 Historical and Future Climate Simulations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 3903-3929.	3.3	25
29	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
30	Mid-latitude freshwater availability reduced by projected vegetation responses to climate change. <i>Nature Geoscience</i> , 2019, 12, 983-988.	12.9	132
31	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
32	A Robust Null Hypothesis for the Potential Causes of Megadrought in Western North America. <i>Journal of Climate</i> , 2018, 31, 3-24.	3.2	47
33	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
34	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
35	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
36	Coupled Model Biases Breed Spurious Low-Frequency Variability in the Tropical Pacific Ocean. <i>Geophysical Research Letters</i> , 2018, 45, 10,609.	4.0	13

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37	A reconstruction of global hydroclimate and dynamical variables over the Common Era. <i>Scientific Data</i> , 2018, 5, 180086.	5.3	114
38	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
39	Influence of internal variability on population exposure to hydroclimatic changes. <i>Environmental Research Letters</i> , 2017, 12, 044007.	5.2	22
40	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
41	Temperature Covariance in Tree Ring Reconstructions and Model Simulations Over the Past Millennium. <i>Geophysical Research Letters</i> , 2017, 44, 9458-9469.	4.0	25
42	A new archive of large volcanic events over the past millennium derived from reconstructed summer temperatures. <i>Environmental Research Letters</i> , 2017, 12, 094005.	5.2	28
43	Projected drought risk in 1.5°C and 2°C warmer climates. <i>Geophysical Research Letters</i> , 2017, 44, 7419-7428.	4.0	227
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	Impacts of the Last Glacial Cycle on ground surface temperature reconstructions over the last millennium. <i>Geophysical Research Letters</i> , 2017, 44, 355-364.	4.0	5
46	A pseudoproxy assessment of data assimilation for reconstructing the atmosphere-ocean dynamics of hydroclimate extremes. <i>Climate of the Past</i> , 2017, 13, 1435-1449.	3.4	16
47	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
48	North American megadroughts in the Common Era: reconstructions and simulations. <i>Wiley Interdisciplinary Reviews: Climate Change</i> , 2016, 7, 411-432.	8.1	123
49	Reconstructing Earth's surface temperature over the past 2000 years: the science behind the headlines. <i>Wiley Interdisciplinary Reviews: Climate Change</i> , 2016, 7, 746-771.	8.1	43
50	First assessment of continental energy storage in CMIP5 simulations. <i>Geophysical Research Letters</i> , 2016, 43, 5326-5335.	4.0	24
51	Internal ocean-atmosphere variability drives megadroughts in Western North America. <i>Geophysical Research Letters</i> , 2016, 43, 9886-9894.	4.0	56
52	Relative impacts of mitigation, temperature, and precipitation on 21st-century megadrought risk in the American Southwest. <i>Science Advances</i> , 2016, 2, e1600873.	10.3	168
53	Model-dependent spatial skill in pseudoproxy experiments testing climate field reconstruction methods for the Common Era. <i>Climate Dynamics</i> , 2016, 46, 1921-1942.	3.8	27
54	European summer temperatures since Roman times. <i>Environmental Research Letters</i> , 2016, 11, 024001.	5.2	260

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55	Revising midlatitude summer temperatures back to A.D. 600 based on a wood density network. <i>Geophysical Research Letters</i> , 2015, 42, 4556-4562.	4.0	134
56	Winter-to-summer precipitation phasing in southwestern North America: A multicentury perspective from paleoclimatic model-data comparisons. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 8052-8064.	3.3	23
57	Ground surface temperature and continental heat gain: uncertainties from underground. <i>Environmental Research Letters</i> , 2015, 10, 014009.	5.2	15
58	Contribution of anthropogenic warming to California drought during 2012-2014. <i>Geophysical Research Letters</i> , 2015, 42, 6819-6828.	4.0	464
59	Unprecedented 21st century drought risk in the American Southwest and Central Plains. <i>Science Advances</i> , 2015, 1, e1400082.	10.3	1,092
60	Bridging Past and Future Climate across Paleoclimatic Reconstructions, Observations, and Models: A Hydroclimate Case Study*. <i>Journal of Climate</i> , 2015, 28, 3212-3231.	3.2	40
61	Are Simulated Megadroughts in the North American Southwest Forced?*. <i>Journal of Climate</i> , 2015, 28, 124-142.	3.2	68
62	Signals and memory in tree-ring width and density data. <i>Dendrochronologia</i> , 2015, 35, 62-70.	2.2	112
63	Impact of borehole depths on reconstructed estimates of ground surface temperature histories and energy storage. <i>Journal of Geophysical Research F: Earth Surface</i> , 2015, 120, 763-778.	2.8	8
64	North American Pancontinental Droughts in Model Simulations of the Last Millennium*. <i>Journal of Climate</i> , 2015, 28, 2025-2043.	3.2	46
65	Evaluating climate field reconstruction techniques using improved emulations of real-world conditions. <i>Climate of the Past</i> , 2014, 10, 1-19.	3.4	81
66	Numerical studies on the Impact of the Last Glacial Cycle on recent borehole temperature profiles: implications for terrestrial energy balance. <i>Climate of the Past</i> , 2014, 10, 1693-1706.	3.4	10
67	Pan-Continental Droughts in North America over the Last Millennium*. <i>Journal of Climate</i> , 2014, 27, 383-397.	3.2	155
68	Global warming and 21st century drying. <i>Climate Dynamics</i> , 2014, 43, 2607-2627.	3.8	782
69	The worst North American drought year of the last millennium: 1934. <i>Geophysical Research Letters</i> , 2014, 41, 7298-7305.	4.0	86
70	Late winter temperature response to large tropical volcanic eruptions in temperate western North America: Relationship to ENSO phases. <i>Global and Planetary Change</i> , 2014, 122, 238-250.	3.5	44
71	Stationarity of the tropical pacific teleconnection to North America in CMIP5/PMIP3 model simulations. <i>Geophysical Research Letters</i> , 2013, 40, 4927-4932.	4.0	68
72	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

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73	A Pacific Centennial Oscillation Predicted by Coupled GCMs*. Journal of Climate, 2012, 25, 5943-5961.	3.2	41
74	Spatial performance of four climate field reconstruction methods targeting the Common Era. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	56
75	Impact of maximum borehole depths on inverted temperature histories in borehole paleoclimatology. Climate of the Past, 2011, 7, 745-756.	3.4	23
76	Characterizing land surface processes: A quantitative analysis using air-ground thermal orbits. Journal of Geophysical Research, 2009, 114, .	3.3	21
77	Daily, seasonal, and annual relationships between air and subsurface temperatures. Journal of Geophysical Research, 2006, 111, .	3.3	79
78	Variable seasonal coupling between air and ground temperatures: A simple representation in terms of subsurface thermal diffusivity. Geophysical Research Letters, 2005, 32, .	4.0	46
79	Borehole climate reconstructions: Spatial structure and hemispheric averages. Journal of Geophysical Research, 2004, 109, .	3.3	128
80	Air-ground temperature coupling and subsurface propagation of annual temperature signals. Journal of Geophysical Research, 2004, 109, n/a-n/a.	3.3	96
81	Surface temperature trends in Russia over the past five centuries reconstructed from borehole temperatures. Journal of Geophysical Research, 2003, 108, .	3.3	24
82	Conduction-dominated heat transport of the annual temperature signal in soil. Journal of Geophysical Research, 2003, 108, .	3.3	66
83	A model study of the effects of climatic precipitation changes on ground temperatures. Journal of Geophysical Research, 2003, 108, .	3.3	34
84	Continental heat gain in the global climate system. Geophysical Research Letters, 2002, 29, 8-1-8-3.	4.0	79