Thomas M Smith

List of Publications by Year
in descending order

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60 papers	20,499 citations	117625 34 h-index	149698 56 g-index
60 all docs	60 docs citations	60 times ranked	13735 citing authors

#	Article	IF	Citations
1	An Improved In Situ and Satellite SST Analysis for Climate. Journal of Climate, 2002, 15, 1609-1625.	3.2	3,798
2	Daily High-Resolution-Blended Analyses for Sea Surface Temperature. Journal of Climate, 2007, 20, 5473-5496.	3.2	3,371
3	Improvements to NOAAâ€™s Historical Merged Landâ€“Ocean Surface Temperature Analysis (1880â€“2006). Journal of Climate, 2008, 21, 2283-2296.	3.2	2,748
4	Improved Global Sea Surface Temperature Analyses Using Optimum Interpolation. Journal of Climate, 1994, 7, 929-948.	3.2	2,507
5	Extended Reconstructed Sea Surface Temperature, Version 5 (ERSSTv5): Upgrades, Validations, and Intercomparisons. Journal of Climate, 2017, 30, 8179-8205.	3.2	1,841
6	Improved Extended Reconstruction of SST (1854â€“1997). Journal of Climate, 2004, 17, 2466-2477.	3.2	937
7	Extended Reconstructed Sea Surface Temperature Version 4 (ERSST.v4). Part I: Upgrades and Intercomparisons. Journal of Climate, 2015, 28, 911-930.	3.2	847
8	Reconstruction of Historical Sea Surface Temperatures Using Empirical Orthogonal Functions. Journal of Climate, 1996, 9, 1403-1420.	3.2	585
9	Extended Reconstruction of Global Sea Surface Temperatures Based on COADS Data (1854â€“1997). Journal of Climate, 2003, 16, 1495-1510.	3.2	547
10	A long-term record of blended satellite and in situ sea-surface temperature for climate monitoring, modeling and environmental studies. Earth System Science Data, 2016, 8, 165-176.	9.9	431
11	A High-Resolution Global Sea Surface Temperature Climatology. Journal of Climate, 1995, 8, 1571-1583.	3.2	345
12	A Global Merged Landâ€“Airâ€“Sea Surface Temperature Reconstruction Based on Historical Observations (1880â€“1997). Journal of Climate, 2005, 18, 2021-2036.	3.2	289
13	Interdecadal Changes of 30-Yr SST Normals during 1871â€“2000. Journal of Climate, 2003, 16, 1601-1612.	3.2	224
14	NOAA's Merged Landâ€“Ocean Surface Temperature Analysis. Bulletin of the American Meteorological Society, 2012, 93, 1677-1685.	3.3	205
15	Extended Reconstructed Sea Surface Temperature Version 4 (ERSST.v4): Part II. Parametric and Structural Uncertainty Estimations. Journal of Climate, 2015, 28, 931-951.	3.2	195
16	Further Exploring and Quantifying Uncertainties for Extended Reconstructed Sea Surface Temperature (ERSST) Version 4 (v4). Journal of Climate, 2016, 29, 3119-3142.	3.2	151
17	Specification and Prediction of Global Surface Temperature and Precipitation from Global SST Using CCA. Journal of Climate, 1996, 9, 2660-2697.	3.2	150
18	Bias Corrections for Historical Sea Surface Temperatures Based on Marine Air Temperatures. Journal of Climate, 2002, 15, 73-87.	3.2	94

#	Article	IF	Citations
19	A High-Resolution Global Sea Surface Temperature Climatology for the 1961â€“90 Base Period. Journal of Climate, 1998, 11, 3320-3323.	3.2	78
20	Covariability of Aspects of North American Climate with Global Sea Surface Temperatures on Interannual to Interdecadal Timescales. Journal of Climate, 1999, 12, 289-302.	3.2	78
21	Improved Estimation of Proxy Sea Surface Temperature in the Arctic. Journal of Atmospheric and Oceanic Technology, 2020, 37, 341-349.	1.3	70
22	A Call for New Approaches to Quantifying Biases in Observations of Sea Surface Temperature. Bulletin of the American Meteorological Society, 2017, 98, 1601-1616.	3.3	69
23	Optimal Averaging of Seasonal Sea Surface Temperatures and Associated Confidence Intervals (1860â€“1989). Journal of Climate, 1994, 7, 949-964.	3.2	67
24	Estimating Bias of Satellite-Based Precipitation Estimates. Journal of Hydrometeorology, 2006, 7, 841-856.	1.9	59
25	Improved Reconstruction of Global Precipitation since 1900. Journal of Atmospheric and Oceanic Technology, 2012, 29, 1505-1517.	1.3	59
26	Global precipitation trends in 1900â€“2005 from a reconstruction and coupled model simulations. Journal of Geophysical Research D: Atmospheres, 2013, 118, 1679-1689.	3.3	56
27	Reconstruction of Monthly Mean Oceanic Sea Level Pressure Based on COADS and Station Data (1854â€“1997). Journal of Atmospheric and Oceanic Technology, 2004, 21, 1272-1282.	1.3	51
28	Detection of recent regional sea surface temperature warming in the Caribbean and surrounding region. Geophysical Research Letters, 2015, 42, 6785-6792.	4.0	48
29	The observed sensitivity of the global hydrological cycle to changes in surface temperature. Environmental Research Letters, 2010, 5, 035201.	5.2	47
30	Merged Statistical Analyses of Historical Monthly Precipitation Anomalies Beginning 1900. Journal of Climate, 2010, 23, 5755-5770.	3.2	45
31	Reconstruction of nearâ€global annual precipitation using correlations with sea surface temperature and sea level pressure. Journal of Geophysical Research, 2009, 114, .	3.3	43
32	An Improved Method for Analyzing Sparse and Irregularly Distributed SST Data on a Regular Grid: The Tropical Pacific Ocean. Journal of Climate, 1998, 11, 1717-1729.	3.2	37
33	Considerations for Use of the Barnett and Preisendorfer (1987) Algorithm for Canonical Correlation Analysis of Climate Variations. Journal of Climate, 1999, 12, 303-305.	3.2	37
34	Ocean Model Response to Temperature Data Assimilation and Varying Surface Wind Stress: Intercomparisons and Implications for Climate Forecast. Monthly Weather Review, 1995, 123, 1811-1821.	1.4	36
35	Variations in annual global precipitation (1979â€“2004), based on the Global Precipitation Climatology Project 2.5Â° analysis. Geophysical Research Letters, 2006, 33, .	4.0	35
36	GCM Systematic Error Correction and Specification of the Seasonal Mean Pacificâ€“North America Region Atmosphere from Global SSTs. Journal of Climate, 1999, 12, 273-288.	3.2	32

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37	Impacts ofin situ and additional satellite data on the accuracy of a sea-surface temperature analysis for climate. International Journal of Climatology, 2005, 25, 857-864.	3.5	32
38	A New High-Resolution Satellite-Derived Precipitation Dataset for Climate Studies. Journal of Hydrometeorology, 2009, 10, 935-952.	1.9	27
39	Bias characteristics in the AVHRR sea surface temperature. Geophysical Research Letters, 2004, 31, .	4.0	26
40	An Optimal Regional Averaging Method with Error Estimates and a Test Using Tropical Pacific SST Data. Journal of Climate, 1998, 11, 2340-2350.	3.2	24
41	Interdecadal Trend of Prediction Skill in an Ensemble AMIP-Type Experiment. Journal of Climate, 2004, 17, 2881-2889.	3.2	21
42	New surface temperature analyses for climate monitoring. Geophysical Research Letters, 2005, 32, n/a-n/a.	4.0	18
43	Multivariate Regression Reconstruction and Its Sampling Error for the Quasi-Global Annual Precipitation from 1900 to 2011. Journals of the Atmospheric Sciences, 2014, 71, 3250-3268.	1.7	17
44	Quantifying Southern Oscillationâ€“Precipitation Relationships from an Atmospheric GCM. Journal of Climate, 1997, 10, 2277-2284.	3.2	16
45	Tropical Pacific Sea Level Variations (1948â€“98). Journal of Climate, 2000, 13, 2757-2769.	3.2	16
46	CLIMATE MODELING: How Accurate Are Climate Simulations?. Science, 2002, 296, 483-484.	12.6	14
47	Adequacy of the In Situ Observing System in the Satellite Era for Climate SST. Journal of Atmospheric and Oceanic Technology, 2006, 23, 107-120.	1.3	14
48	Historical reconstruction of monthly oceanic precipitation (1900â€“2006). Journal of Geophysical Research, 2008, 113, .	3.3	13
49	Interannual and Decadal Variability in Tropical Pacific Chlorophyll from a Statistical Reconstruction: 1958â€“2008. Journal of Climate, 2017, 30, 7293-7315.	3.2	13
50	Estimating Monthly Precipitation Reconstruction Uncertainty Beginning in 1900. Journal of Atmospheric and Oceanic Technology, 2013, 30, 1107-1122.	1.3	11
51	The Annual Cycle in the Tropical Pacific Ocean Based on Assimilated Ocean Data from 1983 to 1992. Journal of Climate, 1995, 8, 1600-1614.	3.2	6
52	Improved Historical Analysis of Oceanic Total Precipitable Water*. Journal of Climate, 2015, 28, 3099-3121.	3.2	6
53	HHT ANALYSIS OF THE GLOBAL AVERAGE MONTHLY PRECIPITATION DATA. Advances in Adaptive Data Analysis, 2012, 04, 1250018.	0.6	5
54	Tropical Convection in the Caribbean and Surrounding Region during a Regional, Warming Sea-Surface Temperature Period, 1982â€“2020. Hydrology, 2021, 8, 56.	3.0	5

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55	The Global Climate for Marchâ€“May 1993: Mature ENSO Conditions Persist and a Blizzard Blankets the Eastern United States. Journal of Climate, 1994, 7, 1772-1793.	3.2	2
56	Superensemble Statistical Forecasting of Monthly Precipitation over the Contiguous United States, with Improvements from Ocean-Area Precipitation Predictors. Journal of Hydrometeorology, 2016, 17, 2699-2711.	1.9	1
57	Reconstructions Improvements Using Iteratively Adjusted Statistics, Demonstrated Using Model-Output Annual SST Anomalies and Historical Sampling. Journal of Atmospheric and Oceanic Technology, 2016, 33, 2289-2303.	1.3	0
58	Developing a Historical Precipitation Record. , 2013, , 95-106.		0
59	Global Precipitation Monitoring. , 2013, , 81-93.		0
60	Sea-Surface Temperature. , 2014, , 71-76.		0