

Thomas M Smith

List of Publications by Year in descending order

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Version: 2024-02-01

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	Tropical Convection in the Caribbean and Surrounding Region during a Regional, Warming Sea-Surface Temperature Period, 1982â€“2020. <i>Hydrology</i> , 2021, 8, 56.	3.0	5
2	Improved Estimation of Proxy Sea Surface Temperature in the Arctic. <i>Journal of Atmospheric and Oceanic Technology</i> , 2020, 37, 341-349.	1.3	70
3	A Call for New Approaches to Quantifying Biases in Observations of Sea Surface Temperature. <i>Bulletin of the American Meteorological Society</i> , 2017, 98, 1601-1616.	3.3	69
4	Extended Reconstructed Sea Surface Temperature, Version 5 (ERSSTv5): Upgrades, Validations, and Intercomparisons. <i>Journal of Climate</i> , 2017, 30, 8179-8205.	3.2	1,841
5	Interannual and Decadal Variability in Tropical Pacific Chlorophyll from a Statistical Reconstruction: 1958â€“2008. <i>Journal of Climate</i> , 2017, 30, 7293-7315.	3.2	13
6	Reconstructions Improvements Using Iteratively Adjusted Statistics, Demonstrated Using Model-Output Annual SST Anomalies and Historical Sampling. <i>Journal of Atmospheric and Oceanic Technology</i> , 2016, 33, 2289-2303.	1.3	0
7	Superensemble Statistical Forecasting of Monthly Precipitation over the Contiguous United States, with Improvements from Ocean-Area Precipitation Predictors. <i>Journal of Hydrometeorology</i> , 2016, 17, 2699-2711.	1.9	1
8	Further Exploring and Quantifying Uncertainties for Extended Reconstructed Sea Surface Temperature (ERSST) Version 4 (v4). <i>Journal of Climate</i> , 2016, 29, 3119-3142.	3.2	151
9	A long-term record of blended satellite and in situ sea-surface temperature for climate monitoring, modeling and environmental studies. <i>Earth System Science Data</i> , 2016, 8, 165-176.	9.9	431
10	Detection of recent regional sea surface temperature warming in the Caribbean and surrounding region. <i>Geophysical Research Letters</i> , 2015, 42, 6785-6792.	4.0	48
11	Extended Reconstructed Sea Surface Temperature Version 4 (ERSST.v4): Part II. Parametric and Structural Uncertainty Estimations. <i>Journal of Climate</i> , 2015, 28, 931-951.	3.2	195
12	Extended Reconstructed Sea Surface Temperature Version 4 (ERSST.v4). Part I: Upgrades and Intercomparisons. <i>Journal of Climate</i> , 2015, 28, 911-930.	3.2	847
13	Improved Historical Analysis of Oceanic Total Precipitable Water*. <i>Journal of Climate</i> , 2015, 28, 3099-3121.	3.2	6
14	Multivariate Regression Reconstruction and Its Sampling Error for the Quasi-Global Annual Precipitation from 1900 to 2011. <i>Journals of the Atmospheric Sciences</i> , 2014, 71, 3250-3268.	1.7	17
15	Sea-Surface Temperature. , 2014, , 71-76.		0
16	Global precipitation trends in 1900â€“2005 from a reconstruction and coupled model simulations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 1679-1689.	3.3	56
17	Estimating Monthly Precipitation Reconstruction Uncertainty Beginning in 1900. <i>Journal of Atmospheric and Oceanic Technology</i> , 2013, 30, 1107-1122.	1.3	11
18	Developing a Historical Precipitation Record. , 2013, , 95-106.		0

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19	Global Precipitation Monitoring. , 2013, , 81-93.		0
20	NOAA's Merged Land—Ocean Surface Temperature Analysis. Bulletin of the American Meteorological Society, 2012, 93, 1677-1685.	3.3	205
21	Improved Reconstruction of Global Precipitation since 1900. Journal of Atmospheric and Oceanic Technology, 2012, 29, 1505-1517.	1.3	59
22	HHT ANALYSIS OF THE GLOBAL AVERAGE MONTHLY PRECIPITATION DATA. Advances in Adaptive Data Analysis, 2012, 04, 1250018.	0.6	5
23	The observed sensitivity of the global hydrological cycle to changes in surface temperature. Environmental Research Letters, 2010, 5, 035201.	5.2	47
24	Merged Statistical Analyses of Historical Monthly Precipitation Anomalies Beginning 1900. Journal of Climate, 2010, 23, 5755-5770.	3.2	45
25	A New High-Resolution Satellite-Derived Precipitation Dataset for Climate Studies. Journal of Hydrometeorology, 2009, 10, 935-952.	1.9	27
26	Reconstruction of near—global annual precipitation using correlations with sea surface temperature and sea level pressure. Journal of Geophysical Research, 2009, 114, .	3.3	43
27	Improvements to NOAA’s Historical Merged Land—Ocean Surface Temperature Analysis (1880—2006). Journal of Climate, 2008, 21, 2283-2296.	3.2	2,748
28	Historical reconstruction of monthly oceanic precipitation (1900—2006). Journal of Geophysical Research, 2008, 113, .	3.3	13
29	Daily High-Resolution-Blended Analyses for Sea Surface Temperature. Journal of Climate, 2007, 20, 5473-5496.	3.2	3,371
30	Variations in annual global precipitation (1979—2004), based on the Global Precipitation Climatology Project 2.5‗ analysis. Geophysical Research Letters, 2006, 33, .	4.0	35
31	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
32	Estimating Bias of Satellite-Based Precipitation Estimates. Journal of Hydrometeorology, 2006, 7, 841-856.	1.9	59
33	A Global Merged Land—Air—Sea Surface Temperature Reconstruction Based on Historical Observations (1880—1997). Journal of Climate, 2005, 18, 2021-2036.	3.2	289
34	Impacts of in 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
35	New surface temperature analyses for climate monitoring. Geophysical Research Letters, 2005, 32, n/a-n/a.	4.0	18
36	Bias characteristics in the AVHRR sea surface temperature. Geophysical Research Letters, 2004, 31, .	4.0	26

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37	Improved Extended Reconstruction of SST (1854–1997). <i>Journal of Climate</i> , 2004, 17, 2466-2477.	3.2	937
38	Interdecadal Trend of Prediction Skill in an Ensemble AMIP-Type Experiment. <i>Journal of Climate</i> , 2004, 17, 2881-2889.	3.2	21
39	Reconstruction of Monthly Mean Oceanic Sea Level Pressure Based on COADS and Station Data (1854–1997). <i>Journal of Atmospheric and Oceanic Technology</i> , 2004, 21, 1272-1282.	1.3	51
40	Interdecadal Changes of 30-Yr SST Normals during 1871–2000. <i>Journal of Climate</i> , 2003, 16, 1601-1612.	3.2	224
41	Extended Reconstruction of Global Sea Surface Temperatures Based on COADS Data (1854–1997). <i>Journal of Climate</i> , 2003, 16, 1495-1510.	3.2	547
42	An Improved In Situ and Satellite SST Analysis for Climate. <i>Journal of Climate</i> , 2002, 15, 1609-1625.	3.2	3,798
43	CLIMATE MODELING: How Accurate Are Climate Simulations?. <i>Science</i> , 2002, 296, 483-484.	12.6	14
44	Bias Corrections for Historical Sea Surface Temperatures Based on Marine Air Temperatures. <i>Journal of Climate</i> , 2002, 15, 73-87.	3.2	94
45	Tropical Pacific Sea Level Variations (1948–98). <i>Journal of Climate</i> , 2000, 13, 2757-2769.	3.2	16
46	GCM Systematic Error Correction and Specification of the Seasonal Mean Pacific–North America Region Atmosphere from Global SSTs. <i>Journal of Climate</i> , 1999, 12, 273-288.	3.2	32
47	Covariability of Aspects of North American Climate with Global Sea Surface Temperatures on Interannual to Interdecadal Timescales. <i>Journal of Climate</i> , 1999, 12, 289-302.	3.2	78
48	Considerations for Use of the Barnett and Preisendorfer (1987) Algorithm for Canonical Correlation Analysis of Climate Variations. <i>Journal of Climate</i> , 1999, 12, 303-305.	3.2	37
49	An Improved Method for Analyzing Sparse and Irregularly Distributed SST Data on a Regular Grid: The Tropical Pacific Ocean. <i>Journal of Climate</i> , 1998, 11, 1717-1729.	3.2	37
50	A High-Resolution Global Sea Surface Temperature Climatology for the 1961–90 Base Period. <i>Journal of Climate</i> , 1998, 11, 3320-3323.	3.2	78
51	An Optimal Regional Averaging Method with Error Estimates and a Test Using Tropical Pacific SST Data. <i>Journal of Climate</i> , 1998, 11, 2340-2350.	3.2	24
52	Quantifying Southern Oscillation–Precipitation Relationships from an Atmospheric GCM. <i>Journal of Climate</i> , 1997, 10, 2277-2284.	3.2	16
53	Reconstruction of Historical Sea Surface Temperatures Using Empirical Orthogonal Functions. <i>Journal of Climate</i> , 1996, 9, 1403-1420.	3.2	585
54	Specification and Prediction of Global Surface Temperature and Precipitation from Global SST Using CCA. <i>Journal of Climate</i> , 1996, 9, 2660-2697.	3.2	150

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55	The Annual Cycle in the Tropical Pacific Ocean Based on Assimilated Ocean Data from 1983 to 1992. <i>Journal of Climate</i> , 1995, 8, 1600-1614.	3.2	6
56	Ocean Model Response to Temperature Data Assimilation and Varying Surface Wind Stress: Intercomparisons and Implications for Climate Forecast. <i>Monthly Weather Review</i> , 1995, 123, 1811-1821.	1.4	36
57	A High-Resolution Global Sea Surface Temperature Climatology. <i>Journal of Climate</i> , 1995, 8, 1571-1583.	3.2	345
58	Improved Global Sea Surface Temperature Analyses Using Optimum Interpolation. <i>Journal of Climate</i> , 1994, 7, 929-948.	3.2	2,507
59	Optimal Averaging of Seasonal Sea Surface Temperatures and Associated Confidence Intervals (1860â€“1989). <i>Journal of Climate</i> , 1994, 7, 949-964.	3.2	67
60	The Global Climate for Marchâ€“May 1993: Mature ENSO Conditions Persist and a Blizzard Blankets the Eastern United States. <i>Journal of Climate</i> , 1994, 7, 1772-1793.	3.2	2