Siegfried D Schubert

List of Publications by Year
in descending order

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114 papers	17,296 citations	53660 45 h-index	22102 113 g-index
115 all docs	115 docs citations	115 times ranked	15961 citing authors

#	Article	IF	Citations
1	The Modern-Era Retrospective Analysis for Research and Applications, Version 2 (MERRA-2). Journal of Climate, 2017, 30, 5419-5454.	1.2	4,520
2	MERRA: NASAâ€™s Modern-Era Retrospective Analysis for Research and Applications. Journal of Climate, 2011, 24, 3624-3648.	1.2	4,118
3	The North American Multimodel Ensemble: Phase-1 Seasonal-to-Interannual Prediction; Phase-2 toward Developing Intraseasonal Prediction. Bulletin of the American Meteorological Society, 2014, 95, 585-601.	1.7	756
4	Tropical Intraseasonal Variability in 14 IPCC AR4 Climate Models. Part I: Convective Signals. Journal of Climate, 2006, 19, 2665-2690.	1.2	664
5	On the Cause of the 1930s Dust Bowl. Science, 2004, 303, 1855-1859.	6.0	494
6	An Assimilated Dataset for Earth Science Applications. Bulletin of the American Meteorological Society, 1993, 74, 2331-2342.	1.7	476
7	Monitoring and Understanding Changes in Heat Waves, Cold Waves, Floods, and Droughts in the United States: State of Knowledge. Bulletin of the American Meteorological Society, 2013, 94, 821-834.	1.7	365
8	Vertical structure and physical processes of the Maddenâ€Julian oscillation: Exploring key model physics in climate simulations. Journal of Geophysical Research D: Atmospheres, 2015, 120, 4718-4748.	1.2	332
9	Causes of the 2011â€“14 California Drought*. Journal of Climate, 2015, 28, 6997-7024.	1.2	317
10	Causes of Long-Term Drought in the U.S. Great Plains. Journal of Climate, 2004, 17, 485-503.	1.2	307
11	A U.S. CLIVAR Project to Assess and Compare the Responses of Global Climate Models to Drought-Related SST Forcing Patterns: Overview and Results. Journal of Climate, 2009, 22, 5251-5272.	1.2	282
12	Climatology of the Simulated Great Plains Low-Level Jet and Its Contribution to the Continental Moisture Budget of the United States. Journal of Climate, 1995, 8, 784-806.	1.2	223
13	Water Vapor Tracers as Diagnostics of the Regional Hydrologic Cycle. Journal of Hydrometeorology, 2002, 3, 149-165.	0.7	197
14	Northern Eurasian Heat Waves and Droughts. Journal of Climate, 2014, 27, 3169-3207.	1.2	178
15	Warm Season Subseasonal Variability and Climate Extremes in the Northern Hemisphere: The Role of Stationary Rossby Waves. Journal of Climate, 2011, 24, 4773-4792.	1.2	166
16	Global Meteorological Drought: A Synthesis of Current Understanding with a Focus on SST Drivers of Precipitation Deficits. Journal of Climate, 2016, 29, 3989-4019.	1.2	161
17	Hurricanes and Climate: The U.S. CLIVAR Working Group on Hurricanes. Bulletin of the American Meteorological Society, 2015, 96, 997-1017.	1.7	158
18	Toward Global Drought Early Warning Capability: Expanding International Cooperation for the Development of a Framework for Monitoring and Forecasting. Bulletin of the American Meteorological Society, 2013, 94, 776-785.	1.7	142

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19	On the Nature of the 1994 East Asian Summer Drought. Journal of Climate, 1997, 10, 1056-1070.	1.2	128
20	Windows of Opportunity for Skillful Forecasts Subseasonal to Seasonal and Beyond. Bulletin of the American Meteorological Society, 2020, 101, E608-E625.	1.7	124
21	Intercomparison and analyses of the climatology of the West African Monsoon in the West African Monsoon Modeling and Evaluation project (WAMME) first model intercomparison experiment. Climate Dynamics, 2010, 35, 3-27.	1.7	123
22	Subseasonal Variability Associated with Asian Summer Monsoon Simulated by 14 IPCC AR4 Coupled GCMs. Journal of Climate, 2008, 21, 4541-4567.	1.2	116
23	Global Changes of the Water Cycle Intensity. Journal of Climate, 2005, 18, 1591-1608.	1.2	108
24	The NAME 2004 Field Campaign and Modeling Strategy. Bulletin of the American Meteorological Society, 2006, 87, 79-94.	1.7	98
25	Attribution of the Seasonality and Regionality in Climate Trends over the United States during 1950â€“2000. Journal of Climate, 2009, 22, 2571-2590.	1.2	96
26	An Analysis of the Warm-Season Diurnal Cycle over the Continental United States and Northern Mexico in General Circulation Models. Journal of Hydrometeorology, 2007, 8, 344-366.	0.7	93
27	Impacts of Local Soil Moisture Anomalies on the Atmospheric Circulation and on Remote Surface Meteorological Fields during Boreal Summer: A Comprehensive Analysis over North America. Journal of Climate, 2016, 29, 7345-7364.	1.2	93
28	Sensitivity to Horizontal Resolution in the AGCM Simulations of Warm Season Diurnal Cycle of Precipitation over the United States and Northern Mexico. Journal of Climate, 2007, 20, 1862-1881.	1.2	86
29	Investigation of the Summer Climate of the Contiguous United States and Mexico Using the Regional Atmospheric Modeling System (RAMS). Part II: Model Climate Variability. Journal of Climate, 2007, 20, 3866-3887.	1.2	80
30	Assessing the Skill of an All-Season Statistical Forecast Model for the Maddenâ€“Julian Oscillation. Monthly Weather Review, 2008, 136, 1940-1956.	0.5	74
31	Warm Season Variations in the Low-Level Circulation and Precipitation over the Central United States in Observations, AMIP Simulations, and Idealized SST Experiments. Journal of Climate, 2009, 22, 5401-5420.	1.2	74
32	Prospects for Advancing Drought Understanding, Monitoring, and Prediction. Journal of Hydrometeorology, 2015, 16, 1636-1657.	0.7	72
33	Potential Predictability of Long-Term Drought and Pluvial Conditions in the U.S. Great Plains. Journal of Climate, 2008, 21, 802-816.	1.2	70
34	Differing Trends in the Tropical Surface Temperatures and Precipitation over Land and Oceans. Journal of Climate, 2004, 17, 653-664.	1.2	68
35	On the Role of SST Forcing in the 2011 and 2012 Extreme U.S. Heat and Drought: A Study in Contrasts. Journal of Hydrometeorology, 2014, 15, 1255-1273.	0.7	65
36	An Analysis of Tropopause Pressure and Total Ozone Correlations. Monthly Weather Review, 1988, 116, 569-582.	0.5	61

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37	ENSO and Wintertime Extreme Precipitation Events over the Contiguous United States. Journal of Climate, 2008, 21, 22-39.	1.2	61
38	Low-Frequency Intraseasonal Tropical-Extratropical Interactions. Journals of the Atmospheric Sciences, 1991, 48, 629-650.	0.6	60
39	Precipitation Recycling over the Central United States Diagnosed from the GEOS-1 Data Assimilation System. Journal of Hydrometeorology, 2001, 2, 26-35.	0.7	59
40	The Development of the South Asian Summer Monsoon and the Intraseasonal Oscillation. Journal of Climate, 1999, 12, 2054-2075.	1.2	57
41	Prediction of the Arctic Oscillation in boreal winter by dynamical seasonal forecasting systems. Geophysical Research Letters, 2014, 41, 3577-3585.	1.5	57
42	GEOSâ€S2S Version 2: The GMAO Highâ€Resolution Coupled Model and Assimilation System for Seasonal Prediction. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2019JD031767.	1.2	52
43	The Experimental MJO Prediction Project. Bulletin of the American Meteorological Society, 2006, 87, 425-431.	1.7	50
44	Forced and Free Intraseasonal Variability over the South Asian Monsoon Region Simulated by 10 AGCMs. Journal of Climate, 2002, 15, 2862-2880.	1.2	48
45	Subseasonal Variations in Warm-Season Moisture Transport and Precipitation over the Central and Eastern United States. Journal of Climate, 1998, 11, 2530-2555.	1.2	47
46	Impact of soil moisture initialization on boreal summer subseasonal forecasts: mid-latitude surface air temperature and heat wave events. Climate Dynamics, 2019, 52, 1695-1709.	1.7	47
47	Dynamical Predictability in a Simple General Circulation Model: Average Error Growth. Journals of the Atmospheric Sciences, 1989, 46, 353-370.	0.6	46
48	African Easterly Jet: Structure and Maintenance. Journal of Climate, 2009, 22, 4459-4480.	1.2	46
49	A Mechanism for Landâ€“Atmosphere Feedback Involving Planetary Wave Structures. Journal of Climate, 2014, 27, 9290-9301.	1.2	46
50	How Well Do Global Climate Models Simulate the Variability of Atlantic Tropical Cyclones Associated with ENSO?. Journal of Climate, 2014, 27, 5673-5692.	1.2	45
51	Sensitivity of Tropical Cyclones to Parameterized Convection in the NASA GEOS-5 Model. Journal of Climate, 2015, 28, 551-573.	1.2	45
52	Maintenance of Austral Summertime Upper-Tropospheric Circulation over Tropical South America: The Bolivian Highâ€“Nordeste Low System. Journals of the Atmospheric Sciences, 1999, 56, 2081-2100.	0.6	44
53	Predictability of Zonal Means during Boreal Summer. Journal of Climate, 2002, 15, 420-434.	1.2	43
54	The Physical Mechanisms by Which the Leading Patterns of SST Variability Impact U.S. Precipitation. Journal of Climate, 2010, 23, 1815-1836.	1.2	43

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55	An Objective Method for Inferring Sources of Model Error. Monthly Weather Review, 1996, 124, 325-340.	0.5	41
56	Predictability Studies of the Intraseasonal Oscillation with the ECHAM5 GCM. Journals of the Atmospheric Sciences, 2005, 62, 3320-3336.	0.6	40
57	West African monsoon decadal variability and surface-related forcings: second West African Monsoon Modeling and Evaluation Project Experiment (WAMME II). Climate Dynamics, 2016, 47, 3517-3545.	1.7	39
58	Seasonality and Meridional Propagation of the MJO. Journal of Climate, 2006, 19, 1901-1921.	1.2	36
59	Decadal prediction skill in the GEOS-5 forecast system. Climate Dynamics, 2014, 42, 1-20.	1.7	36
60	North American Monsoon and Convectively Coupled Equatorial Waves Simulated by IPCC AR4 Coupled GCMs. Journal of Climate, 2008, 21, 2919-2937.	1.2	33
61	An Assessment of Multimodel Simulations for the Variability of Western North Pacific Tropical Cyclones and Its Association with ENSO. Journal of Climate, 2016, 29, 6401-6423.	1.2	31
62	African Easterly Jet: Barotropic Instability, Waves, and Cyclogenesis. Journal of Climate, 2012, 25, 1489-1510.	1.2	26
63	Atmospheric summer teleconnections and Greenland Ice Sheet surface mass variations: insights from MERRA-2. Environmental Research Letters, 2016, 11, 024002.	2.2	26
64	A Characterization of African Easterly Waves on 2.5â€“6-Day and 6â€“9-Day Time Scales. Journal of Climate, 2013, 26, 6750-6774.	1.2	25
65	The Climate Signal in Regional Moisture Fluxes: A Comparison of Three Global Data Assimilation Products. Journal of Climate, 1997, 10, 2623-2642.	1.2	23
66	Representation of tropical subseasonal variability of precipitation in global reanalyses. Climate Dynamics, 2014, 43, 517-534.	1.7	23
67	Prediction Skill of the 2012 U.S. Great Plains Flash Drought in Subseasonal Experiment (SubX) Models. Journal of Climate, 2020, 33, 6229-6253.	1.2	23
68	Distinct Hydrological Signatures in Observed Historical Temperature Fields. Journal of Hydrometeorology, 2006, 7, 1061-1075.	0.7	22
69	Role of tropical atlantic SST variability as a modulator of El NiÃ±o teleconnections. Asia-Pacific Journal of Atmospheric Sciences, 2014, 50, 247-261.	1.3	21
70	An intensified seasonal transition in the Central U.S. that enhances summer drought. Journal of Geophysical Research D: Atmospheres, 2015, 120, 8804-8816.	1.2	21
71	Predictability of the Seasonal Mean Atmospheric Circulation during Autumn, Winter, and Spring. Journal of Climate, 2003, 16, 3629-3649.	1.2	20
72	The Impact of ENSO on Extratropical Low-Frequency Noise in Seasonal Forecasts. Journal of Climate, 2001, 14, 2351-2365.	1.2	19

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73	Simulation of the intraseasonal variability over the Eastern Pacific ITCZ in climate models. Climate Dynamics, 2012, 39, 617-636.	1.7	19
74	Advancing Drought Understanding, Monitoring, and Prediction. Bulletin of the American Meteorological Society, 2013, 94, ES186-ES188.	1.7	19
75	Persistence and Predictability in a Perfect Model. Journals of the Atmospheric Sciences, 1992, 49, 256-269.	0.6	18
76	Mechanisms of diurnal precipitation over the US Great Plains: a cloud resolving model perspective. Climate Dynamics, 2010, 34, 419-437.	1.7	17
77	Drought-Induced Warming in the Continental United States under Different SST Regimes. Journal of Climate, 2009, 22, 5385-5400.	1.2	16
78	On the Development and Demise of the Fall 2019 Southeast U.S. Flash Drought: Links to an Extreme Positive IOD. Journal of Climate, 2021, 34, 1701-1723.	1.2	16
79	Investigation of the 2016 Eurasia heat wave as an event of the recent warming. Environmental Research Letters, 2020, 15, 114018.	2.2	16
80	Boreal winter predictions with the GEOS-2 GCM: The role of boundary forcing and initial conditions. Quarterly Journal of the Royal Meteorological Society, 2000, 126, 2293-2321.	1.0	16
81	An Analysis of Moisture Fluxes into the Gulf of California. Journal of Climate, 2009, 22, 2216-2239.	1.2	15
82	Influence of SST Forcing on Stochastic Characteristics of Simulated Precipitation and Drought. Journal of Hydrometeorology, 2010, 11, 754-769.	0.7	15
83	High-resolution subtropical summer precipitation derived from dynamical downscaling of the NCEP/DOE reanalysis: how much small-scale information is added by a regional model?. Climate Dynamics, 2011, 37, 1061-1080.	1.7	15
84	Large-Scale Controls on Atlantic Tropical Cyclone Activity on Seasonal Time Scales. Journal of Climate, 2016, 29, 6727-6749.	1.2	15
85	Phase Locking of the Boreal Summer Atmospheric Response to Dry Land Surface Anomalies in the Northern Hemisphere. Journal of Climate, 2019, 32, 1081-1099.	1.2	15
86	Optimal Initial Perturbations for Ensemble Prediction of the Maddenâ€“Julian Oscillation during Boreal Winter. Journal of Climate, 2012, 25, 4932-4945.	1.2	14
87	An assessment of the ENSO forecast skill of GEOS-5 system. Climate Dynamics, 2014, 43, 2415-2430.	1.7	14
88	Regional Earth-Atmosphere Energy Balance Estimates Based on Assimilations with a GCM. Journal of Climate, 1990, 3, 15-31.	1.2	13
89	Remotely Forced Intraseasonal Oscillations over the Tropical Atlantic. Journals of the Atmospheric Sciences, 1993, 50, 89-103.	0.6	12
90	Supplement to Predicting Drought on Seasonal-to-Decadal Time Scales: A National Drought Attribution and Prediction Consortium. Bulletin of the American Meteorological Society, 2007, 88, S9-S10.	1.7	12

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91	Modes of variability of Southern Hemisphere atmospheric circulation estimated by AGCMs. Climate Dynamics, 2011, 36, 473-490.	1.7	11
92	Dynamically Stratified Monte Carlo Forecasting. Monthly Weather Review, 1992, 120, 1077-1088.	0.5	10
93	Predictability of the 1997 and 1998 South Asian Summer Monsoon Low-Level Winds. Journal of Climate, 2001, 14, 3173-3191.	1.2	10
94	The Precipitation Response over the Continental United States to Cold Tropical Pacific Sea Surface Temperatures. Journal of Climate, 2014, 27, 5036-5055.	1.2	10
95	The Impact of SST-Forced and Unforced Teleconnections on 2015/16 El NiÃ±o Winter Precipitation over the Western United States. Journal of Climate, 2018, 31, 5825-5844.	1.2	9
96	Using a Simple Water Balance Framework to Quantify the Impact of Soil Moisture Initialization on Subseasonal Evapotranspiration and Air Temperature Forecasts. Journal of Hydrometeorology, 2020, 21, 1705-1722.	0.7	9
97	Seasonal variation of global surface pressure and water vapor. Tellus, Series A: Dynamic Meteorology and Oceanography, 1997, 49, 613-621.	0.8	8
98	Hydrologic Processes Associated with Cyclone Systems over the United States. Bulletin of the American Meteorological Society, 1996, 77, 1557-1567.	1.7	7
99	Diurnal Variation of Pressure-Heights: A Vertical Phase Shift. Journal of Climate, 2001, 14, 3793-3797.	1.2	6
100	North Pacific decadal variability: insights from a biennial ENSO environment. Climate Dynamics, 2017, 49, 1379-1397.	1.7	6
101	Length Scales of Hydrological Variability as Inferred from SMAP Soil Moisture Retrievals. Journal of Hydrometeorology, 2019, 20, 2129-2146.	0.7	6
102	Seasonal Variability in the Mechanisms behind the 2020 Siberian Heatwaves. Journal of Climate, 2022, 35, 3075-3090.	1.2	6
103	A Modeling Study of the Causes and Predictability of the Spring 2011 Extreme U.S. Weather Activity. Journal of Climate, 2016, 29, 7869-7887.	1.2	5
104	Interâ€annual variation of tropical cyclones simulated by GEOSâ€5 AGCM with modified convection scheme. International Journal of Climatology, 2019, 39, 4041-4057.	1.5	5
105	Using Observed Spatial Correlation Structures to Increase the Skill of Subseasonal Forecasts. Monthly Weather Review, 2008, 136, 1923-1930.	0.5	4
106	Attribution of the Extreme U.S. East Coast Snowstorm Activity of 2010. Journal of Climate, 2012, 25, 3771-3791.	1.2	4
107	Representation of Tropical Cyclones by the Modern-Era Retrospective Analysis for Research and Applications Version 2. Asia-Pacific Journal of Atmospheric Sciences, 2021, 57, 35-49.	1.3	4
108	Non-stationarity of the signal and noise characteristics of seasonal precipitation anomalies. Climate Dynamics, 2011, 36, 739-752.	1.7	3

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109	Representation of tropical storms in the northwestern pacific by the Modern-Era Retrospective analysis for research and applications. Asia-Pacific Journal of Atmospheric Sciences, 2011, 47, 245-253.	1.3	3
110	Asymmetry in Subseasonal Surface Air Temperature Forecast Error with Respect to Soil Moisture Initialization. Journal of Hydrometeorology, 2021, 22, 2505-2519.	0.7	2
111	Forecasts of Opportunity: Opening Windows of Skill, Subseasonal and Beyond. Bulletin of the American Meteorological Society, 2020, 101, 597-601.	1.7	2
112	The role of DYNAMO in situ observations in improving NASA CERESâ€like daily surface and atmospheric radiative flux estimates. Earth and Space Science, 2017, 4, 164-183.	1.1	1
113	The Boreal Winter El NiÃ±o Precipitation Response over North America: Insights into Why January Is More Difficult to Predict Than February. Journal of Climate, 2020, 33, 8651-8670.	1.2	1
114	Continental Patterns of Bird Migration Linked to Climate Variability. Bulletin of the American Meteorological Society, 2022, 103, E536-E547.	1.7	1