Youmin Tang

List of Publications by Year
in descending order

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Version: 2024-02-01

116 papers	2,541 citations	257450 24 h-index	233421 45 g-index
117 all docs	117 docs citations	117 times ranked	2039 citing authors

#	Article	IF	Citations
1	Toward an optimal observational array for improving two flavors of El NiÃ±o predictions in the whole Pacific. Climate Dynamics, 2023, 60, 831-850.	3.8	8
2	ENSO Predictability over the Past 137 Years Based on a CESM Ensemble Prediction System. Journal of Climate, 2022, 35, 763-777.	3.2	19
3	The Interannual Variability of Eddy Kinetic Energy in the Kuroshio Large Meander Region and Its Relationship to the Kuroshio Latitudinal Position at 140Â°E. Journal of Geophysical Research: Oceans, 2022, 127, .	2.6	5
4	The SSTâ€“Wind Causal Relationship during the Development of the IOD in Observations and Model Simulations. Remote Sensing, 2022, 14, 1064.	4.0	2
5	A two-stage inflation method in parameter estimation to compensate for constant parameter evolution in Community Earth System Model. Acta Oceanologica Sinica, 2022, 41, 91-102.	1.0	5
6	Predictability of Indian Ocean Dipole Over 138 Years Using a CESM Ensembleâ€Prediction System. Journal of Geophysical Research: Oceans, 2022, 127, .	2.6	5
7	A new nudging scheme for the current operational climate prediction system of the National Marine Environmental Forecasting Center of China. Acta Oceanologica Sinica, 2022, 41, 51-64.	1.0	11
8	Decadal variation of the rainfall predictability over the maritime continent in the wet season. Journal of Climate, 2022, , 1-21.	3.2	1
9	The predictability study of the two flavors of ENSO in the CESM model from 1881 to 2017. Climate Dynamics, 2022, 59, 3343-3358.	3.8	3
10	Decadal variation of predictability of the Indian Ocean Dipole during 1880â€“2017 using an ensemble prediction system. Journal of Climate, 2022, , 1-29.	3.2	0
11	Investigating the ENSO prediction skills of the Beijing Climate Center climate prediction system version 2. Acta Oceanologica Sinica, 2022, 41, 99-109.	1.0	2
12	Rapid Growth of Outer Size of Tropical Cyclones: A New Perspective on Their Destructive Potential. Geophysical Research Letters, 2022, 49, .	4.0	4
13	A theoretical relationship between probabilistic relative operating characteristic skill and deterministic correlation skill in dynamical seasonal climate prediction. Climate Dynamics, 2021, 56, 3909-3932.	3.8	6
14	Effects of Wave-Induced Sea Ice Break-Up and Mixing in a High-Resolution Coupled Ice-Ocean Model. Journal of Marine Science and Engineering, 2021, 9, 365.	2.6	16
15	On the Localization in Strongly Coupled Ensemble Data Assimilation Using a Twoâ€Scale Lorenz Model. Earth and Space Science, 2021, 8, e2020EA001465.	2.6	4
16	The Influence of Wind-Induced Waves on ENSO Simulations. Journal of Marine Science and Engineering, 2021, 9, 457.	2.6	0
17	Predictable Mode of Tropical Intraseasonal Variability in Boreal Summer. Journal of Climate, 2021, 34, 3355-3366.	3.2	1
18	Multidecadal Variability in Mediterranean Sea Surface Temperature and Its Sources. Geophysical Research Letters, 2021, 48, e2020GL091814.	4.0	0

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19	Intercomparison of Arctic sea ice simulation in ROMS-CICE and ROMS-Budgell. Polar Science, 2021, 29, 100716.	1.2	5
20	Impact of Westerly Wind Bursts on ENSO Based on a Hybrid Coupled Model: Part I â€“ ENSO Simulation. Atmosphere - Ocean, 2021, 59, 233-245.	1.6	1
21	A local sigma-point unscented Kalman filter for geophysical data assimilation. Physica D: Nonlinear Phenomena, 2021, 425, 132979.	2.8	0
22	Parameter Estimation Based on a Local Ensemble Transform Kalman Filter Applied to El NiÃ±oâ€“Southern Oscillation Ensemble Prediction. Remote Sensing, 2021, 13, 3923.	4.0	5
23	Forecasting the Indian Ocean Dipole With Deep Learning Techniques. Geophysical Research Letters, 2021, 48, e2021GL094407.	4.0	18
24	Predictable Pattern of Precipitation Over Asian Summer Monsoon Regions. Geophysical Research Letters, 2021, 48, e2021GL095824.	4.0	3
25	A study of the effects of westerly wind bursts on ENSO based on CESM. Climate Dynamics, 2020, 54, 885-899.	3.8	20
26	A review of progress in coupled ocean-atmosphere model developments for ENSO studies in China. Journal of Oceanology and Limnology, 2020, 38, 930-961.	1.3	62
27	An extension of LDEO5 model for ENSO ensemble predictions. Climate Dynamics, 2020, 55, 2979-2991.	3.8	8
28	A Flowâ€Dependent Targeted Observation Method for Ensemble Kalman Filter Assimilation Systems. Earth and Space Science, 2020, 7, e2020EA001149.	2.6	6
29	Effects of Semistochastic Westerly Wind Bursts on ENSO Predictability. Geophysical Research Letters, 2020, 47, e2019GL086828.	4.0	14
30	Optimal error analysis of MJO prediction associated with uncertainties in sea surface temperature over Indian Ocean. Climate Dynamics, 2020, 54, 4331-4350.	3.8	4
31	Predictable Patterns of Wintertime Surface Air Temperature in Northern Hemisphere and Their Predictability Sources in the SEAS5. Journal of Climate, 2020, 33, 10743-10754.	3.2	9
32	Roles of atmospheric physics and model resolution in the simulation of two types of El NiÃ±o. Ocean Modelling, 2019, 143, 101468.	2.4	5
33	The relationship among probabilistic, deterministic and potential skills in predicting the ENSO for the past 161Âyears. Climate Dynamics, 2019, 53, 6947-6960.	3.8	16
34	Reply to Comment by Michael K. Tippett on â€œOn the Relationship Between Probabilistic and Deterministic Skills in Dynamical Seasonal Climate Predictionâ€• Journal of Geophysical Research D: Atmospheres, 2019, 124, 3982-3983.	3.3	1
35	Seasonal predictability of the tropical Indian Ocean SST in the North American multimodel ensemble. Climate Dynamics, 2019, 53, 3361-3372.	3.8	15
36	Uncertainty of the Linear Trend in the Zonal SST Gradient Across the Equatorial Pacific Since 1881. Atmosphere - Ocean, 2019, 57, 61-72.	1.6	1

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37	Investigating the Uncertainty in Global SST Trends Due to Internal Variations Using an Improved Trend Estimator. Journal of Geophysical Research: Oceans, 2018, 123, 1877-1895.	2.6	5
38	Summer Predictability Barrier of Indian Ocean Dipole Events and Corresponding Error Growth Dynamics. Journal of Geophysical Research: Oceans, 2018, 123, 3635-3650.	2.6	3
39	Westerly wind bursts simulated in CAM4 and CCSM4. Climate Dynamics, 2018, 50, 1353-1371.	3.8	19
40	On the Relationship Between Probabilistic and Deterministic Skills in Dynamical Seasonal Climate Prediction. Journal of Geophysical Research D: Atmospheres, 2018, 123, 5261-5283.	3.3	16
41	Decadal Variation in IOD Predictability During 1881â€“2016. Geophysical Research Letters, 2018, 45, 12,948.	4.0	9
42	An intermediate coupled model for the tropical ocean-atmosphere system. Science China Earth Sciences, 2018, 61, 1859-1874.	5.2	9
43	Tropical Pacific trends under global warming: El NiÃ±o-like or La NiÃ±a-like?. National Science Review, 2018, 5, 810-812.	9.5	31
44	Linkage Between Westerly Wind Bursts and Tropical Cyclones. Geophysical Research Letters, 2018, 45, 11,431.	4.0	26
45	Progress in ENSO prediction and predictability study. National Science Review, 2018, 5, 826-839.	9.5	151
46	Net Modulation of Upper Ocean Thermal Structure by Typhoon Kalmaegi (2014). Journal of Geophysical Research: Oceans, 2018, 123, 7154-7171.	2.6	52
47	Impacts of the IOD-associated temperature and salinity anomalies on the intermittent equatorial undercurrent anomalies. Climate Dynamics, 2018, 51, 1391-1409.	3.8	18
48	Simulation of different types of ENSO impacts on South Asian Monsoon in CCSM4. Climate Dynamics, 2017, 48, 893-911.	3.8	3
49	A Central Indian Ocean Mode and Heavy Precipitation during the Indian Summer Monsoon. Journal of Climate, 2017, 30, 2055-2067.	3.2	25
50	The predictability of atmospheric and oceanic motions: Retrospect and prospects. Science China Earth Sciences, 2017, 60, 2001-2012.	5.2	19
51	Seasonal and Interannual Variabilities of the Central Indian Ocean Mode. Journal of Climate, 2017, 30, 6505-6520.	3.2	16
52	Effects of Singular-Vector-Type Initial Errors on the Short-Range Prediction of Kuroshio Extension Transition Processes. Journal of Climate, 2017, 30, 5961-5983.	3.2	10
53	A new formulation of vector weights in localized particle filters. Quarterly Journal of the Royal Meteorological Society, 2017, 143, 3269-3278.	2.7	7
54	An Optimization Strategy for Identifying Parameter Sensitivity in Atmospheric and Oceanic Models. Monthly Weather Review, 2017, 145, 3293-3305.	1.4	6

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55	Frequency-specified EOF analysis and its application to Pacific decadal oscillation. Science China Earth Sciences, 2017, 60, 341-347.	5.2	4
56	Genesis of the 2014â€“2016 El NiÃ±o events. Science China Earth Sciences, 2017, 60, 1589-1600.	5.2	47
57	Predictability of the Indian Ocean Dipole in the coupled models. Climate Dynamics, 2017, 48, 2005-2024.	3.8	39
58	On the â€œspring predictability barrierâ€•for strong El NiÃ±o events as derived from an intermediate coupled model ensemble prediction system. Science China Earth Sciences, 2017, 60, 1614-1631.	5.2	8
59	Probabilistic versus deterministic skill in predicting the western North Pacificâ€East Asian summer monsoon variability with multimodel ensembles. Journal of Geophysical Research D: Atmospheres, 2016, 121, 1079-1103.	3.3	22
60	Assessment of the simulation of I ndian O cean D ipole in the C ESMâ€”Impacts of atmospheric physics and model resolution. Journal of Advances in Modeling Earth Systems, 2016, 8, 1932-1952.	3.8	19
61	A new dipole index of the salinity anomalies of the tropical Indian Ocean. Scientific Reports, 2016, 6, 24260.	3.3	26
62	Comparison and combination of EAKF and SIR-PF in the Bayesian filter framework. Acta Oceanologica Sinica, 2016, 35, 69-78.	1.0	6
63	Optimal error growth of South Asian monsoon forecast associated with the uncertainties in the sea surface temperature. Climate Dynamics, 2016, 46, 1953-1975.	3.8	4
64	Assessment of Maddenâ€“Julian oscillation simulations with various configurations of CESM. Climate Dynamics, 2016, 47, 2667-2690.	3.8	15
65	Evaluation of two modified Kalman gain algorithms for radar data assimilation in the WRF model. Tellus, Series A: Dynamic Meteorology and Oceanography, 2015, 67, 25950.	1.7	2
66	Potential predictability of Northern America surface temperature in AGCMs and CGCMs. Climate Dynamics, 2015, 45, 353-374.	3.8	5
67	A modified ensemble Kalman particle filter for nonâ€Gaussian systems with nonlinear measurement functions. Journal of Advances in Modeling Earth Systems, 2015, 7, 50-66.	3.8	27
68	Strong influence of westerly wind bursts on El NiÃ±o diversity. Nature Geoscience, 2015, 8, 339-345.	12.9	277
69	Reduced-Rank Sigma-Point Kalman Filter and Its Application in ENSO Model. Journal of Atmospheric and Oceanic Technology, 2014, 31, 2350-2366.	1.3	4
70	A practical scheme of the sigmaâ€point Kalman filter for highâ€dimensional systems. Journal of Advances in Modeling Earth Systems, 2014, 6, 21-37.	3.8	9
71	A theoretical investigation of the tropical Indo-Pacific tripole mode. Science China Earth Sciences, 2014, 57, 174-188.	5.2	28
72	Nonlinear measurement function in the ensemble Kalman filter. Advances in Atmospheric Sciences, 2014, 31, 551-558.	4.3	24

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73	Effects of westerly wind bursts on El NiÃ±o: A new perspective. Geophysical Research Letters, 2014, 41, 3522-3527.	4.0	98
74	Asian monsoon simulations by Community Climate Models CAM4 and CCSM4. Climate Dynamics, 2013, 41, 2617-2642.	3.8	23
75	An analysis of multiâ€model ensembles for seasonal climate predictions. Quarterly Journal of the Royal Meteorological Society, 2013, 139, 1179-1198.	2.7	4
76	PNA Predictability at Various Time Scales. Journal of Climate, 2013, 26, 9090-9114.	3.2	28
77	The Canadian Seasonal to Interannual Prediction System. Part I: Models and Initialization. Monthly Weather Review, 2013, 141, 2910-2945.	1.4	265
78	A Time-Averaged Covariance Method in the EnKF for Argo Data Assimilation. Atmosphere - Ocean, 2012, 50, 129-145.	1.6	6
79	Informationâ€based potential predictability of the Asian summer monsoon in a coupled model. Journal of Geophysical Research, 2012, 117, .	3.3	20
80	Evaluation of several model error schemes in the EnKF assimilation: Applied to Argo profiles in the Pacific Ocean. Journal of Geophysical Research, 2011, 116, .	3.3	8
81	Sigma-point particle filter for parameter estimation in a multiplicative noise environment. Journal of Advances in Modeling Earth Systems, 2011, 3, .	3.8	4
82	Relationship between predictability and forecast skill of ENSO on various time scales. Journal of Geophysical Research, 2011, 116, .	3.3	26
83	Bred Vector and ENSO Predictability in a Hybrid Coupled Model during the Period 1881â€“2000. Journal of Climate, 2011, 24, 298-314.	3.2	12
84	Low-dimensional nonlinearity of ENSO and its impact on predictability. Physica D: Nonlinear Phenomena, 2010, 239, 258-268.	2.8	7
85	Further analysis of singular vector and ENSO predictability in the Lamont modelâ€”Part I: singular vector and the control factors. Climate Dynamics, 2010, 35, 807-826.	3.8	22
86	Further analysis of singular vector and ENSO predictability in the Lamont modelâ€”Part II: singular value and predictability. Climate Dynamics, 2010, 35, 827-840.	3.8	10
87	Ensemble Construction and Verification of the Probabilistic ENSO Prediction in the LDEO5 Model. Journal of Climate, 2010, 23, 5476-5497.	3.2	23
88	Assimilation of Argo temperature and salinity profiles using a bias-aware localized EnKF system for the Pacific Ocean. Ocean Modelling, 2010, 35, 187-205.	2.4	23
89	Improved ENSO Prediction by Singular Vector Analysis in a Hybrid Coupled Model. Journal of Atmospheric and Oceanic Technology, 2009, 26, 626-634.	1.3	0
90	Reconstructing the Past Wind Stresses over the Tropical Pacific Ocean from 1875 to 1947. Journal of Applied Meteorology and Climatology, 2009, 48, 1181-1198.	1.5	4

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91	The retrospective prediction of ENSO from 1881 to 2000 by a hybrid coupled model: (II) Interdecadal and decadal variations in predictability. Climate Dynamics, 2009, 32, 415-428.	3.8	18
92	The retrospective prediction of El NiÃ±o-southern oscillation from 1881 to 2000 by a hybrid coupled model: (I) Sea surface temperature assimilation with ensemble Kalman filter. Climate Dynamics, 2009, 32, 397-413.	3.8	10
93	Assimilation of historical SST data for long-term ENSO retrospective forecasts. Ocean Modelling, 2009, 30, 143-154.	2.4	7
94	Sigma-Point Kalman Filter Data Assimilation Methods for Strongly Nonlinear Systems. Journals of the Atmospheric Sciences, 2009, 66, 261-285.	1.7	57
95	The impact of atmospheric nonlinearities on the fastest growth of ENSO prediction error. Climate Dynamics, 2008, 30, 519-531.	3.8	11
96	Measuring the potential predictability of ensemble climate predictions. Journal of Geophysical Research, 2008, 113, .	3.3	43
97	MJO and its relationship to ENSO. Journal of Geophysical Research, 2008, 113, .	3.3	61
98	Comparison of Information-Based Measures of Forecast Uncertainty in Ensemble ENSO Prediction. Journal of Climate, 2008, 21, 230-247.	3.2	28
99	Interdecadal Variation of ENSO Predictability in Multiple Models. Journal of Climate, 2008, 21, 4811-4833.	3.2	72
100	An Analysis of Nonlinear Relationship between the MJO and ENSO. Journal of the Meteorological Society of Japan, 2008, 86, 867-881.	1.8	12
101	A Predictability Measure Applied to Seasonal Predictions of the Arctic Oscillation. Journal of Climate, 2007, 20, 4733-4750.	3.2	25
102	ENSO Predictability of a Fully Coupled GCM Model Using Singular Vector Analysis. Journal of Climate, 2006, 19, 3361-3377.	3.2	40
103	Optimal Forcing Patterns for Coupled Models of ENSO. Journal of Climate, 2006, 19, 4683-4699.	3.2	36
104	Reliability of ENSO Dynamical Predictions. Journals of the Atmospheric Sciences, 2005, 62, 1770-1791.	1.7	57
105	A simple method for estimating variations in the predictability of ENSO. Geophysical Research Letters, 2004, 31, n/a-n/a.	4.0	5
106	Measuring the potential utility of seasonal climate predictions. Geophysical Research Letters, 2004, 31, .	4.0	35
107	SST Assimilation Experiments in a Tropical Pacific Ocean Model. Journal of Physical Oceanography, 2004, 34, 623-642.	1.7	38
108	The use of ocean reanalysis products to initialize ENSO predictions. Geophysical Research Letters, 2003, 30, .	4.0	13

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109	The Calculation of Climatically Relevant Singular Vectors in the Presence of Weather Noise as Applied to the ENSO Problem. Journals of the Atmospheric Sciences, 2003, 60, 2856-2868.	1.7	51
110	ENSO Simulation and Prediction in a Hybrid Coupled Model with Data Assimilation.. Journal of the Meteorological Society of Japan, 2003, 81, 1-19.	1.8	26
111	Coupling Neural Networks to Incomplete Dynamical Systems via Variational Data Assimilation. Monthly Weather Review, 2001, 129, 818-834.	1.4	19
112	Research on drought / flood influence factors in China. Chinese Geographical Science, 1993, 3, 34-43.	3.0	1
113	Methods of Estimating Uncertainty of Climate Prediction and Climate Change Projection. , 0, , .		6
114	An Introduction to Ensemble-Based Data Assimilation Method in the Earth Sciences. , 0, , .		3
115	TROPICAL PACIFIC UPPER OCEAN HEAT CONTENT VARIATIONS AND ENSO PREDICTABILITY DURING THE PERIOD FROM 1881â€“2000. , 0, , 87-108.		1
116	Extra predictability from a seamless approach for Asian summer monsoon precipitation from days to weeks. Quarterly Journal of the Royal Meteorological Society, 0, , .	2.7	1