Youmin Tang

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/7735576/publications.pdf

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	Strong influence of westerly wind bursts on El NiÃ±o diversity. Nature Geoscience, 2015, 8, 339-345.	12.9	277
2	The Canadian Seasonal to Interannual Prediction System. Part I: Models and Initialization. Monthly Weather Review, 2013, 141, 2910-2945.	1.4	265
3	Progress in ENSO prediction and predictability study. National Science Review, 2018, 5, 826-839.	9.5	151
4	Effects of westerly wind bursts on El NiÃ±o: A new perspective. Geophysical Research Letters, 2014, 41, 3522-3527.	4.0	98
5	Interdecadal Variation of ENSO Predictability in Multiple Models. Journal of Climate, 2008, 21, 4811-4833.	3.2	72
6	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
7	MJO and its relationship to ENSO. Journal of Geophysical Research, 2008, 113, .	3.3	61
8	Reliability of ENSO Dynamical Predictions. Journals of the Atmospheric Sciences, 2005, 62, 1770-1791.	1.7	57
9	Sigma-Point Kalman Filter Data Assimilation Methods for Strongly Nonlinear Systems. Journals of the Atmospheric Sciences, 2009, 66, 261-285.	1.7	57
10	Net Modulation of Upper Ocean Thermal Structure by Typhoon Kalmaegi (2014). Journal of Geophysical Research: Oceans, 2018, 123, 7154-7171.	2.6	52
11	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
12	Genesis of the 2014â€“2016 El NiÃ±o events. Science China Earth Sciences, 2017, 60, 1589-1600.	5.2	47
13	Measuring the potential predictability of ensemble climate predictions. Journal of Geophysical Research, 2008, 113, .	3.3	43
14	ENSO Predictability of a Fully Coupled GCM Model Using Singular Vector Analysis. Journal of Climate, 2006, 19, 3361-3377.	3.2	40
15	Predictability of the Indian Ocean Dipole in the coupled models. Climate Dynamics, 2017, 48, 2005-2024.	3.8	39
16	SST Assimilation Experiments in a Tropical Pacific Ocean Model. Journal of Physical Oceanography, 2004, 34, 623-642.	1.7	38
17	Optimal Forcing Patterns for Coupled Models of ENSO. Journal of Climate, 2006, 19, 4683-4699.	3.2	36
18	Measuring the potential utility of seasonal climate predictions. Geophysical Research Letters, 2004, 31, .	4.0	35

#	Article	IF	Citations
19	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
20	Comparison of Information-Based Measures of Forecast Uncertainty in Ensemble ENSO Prediction. Journal of Climate, 2008, 21, 230-247.	3.2	28
21	PNA Predictability at Various Time Scales. Journal of Climate, 2013, 26, 9090-9114.	3.2	28
22	A theoretical investigation of the tropical Indo-Pacific tripole mode. Science China Earth Sciences, 2014, 57, 174-188.	5.2	28
23	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
24	Relationship between predictability and forecast skill of ENSO on various time scales. Journal of Geophysical Research, 2011, 116, .	3.3	26
25	A new dipole index of the salinity anomalies of the tropical Indian Ocean. Scientific Reports, 2016, 6, 24260.	3.3	26
26	Linkage Between Westerly Wind Bursts and Tropical Cyclones. Geophysical Research Letters, 2018, 45, 11,431.	4.0	26
27	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
28	A Predictability Measure Applied to Seasonal Predictions of the Arctic Oscillation. Journal of Climate, 2007, 20, 4733-4750.	3.2	25
29	A Central Indian Ocean Mode and Heavy Precipitation during the Indian Summer Monsoon. Journal of Climate, 2017, 30, 2055-2067.	3.2	25
30	Nonlinear measurement function in the ensemble Kalman filter. Advances in Atmospheric Sciences, 2014, 31, 551-558.	4.3	24
31	Ensemble Construction and Verification of the Probabilistic ENSO Prediction in the LDEO5 Model. Journal of Climate, 2010, 23, 5476-5497.	3.2	23
32	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
33	Asian monsoon simulations by Community Climate Models CAM4 and CCSM4. Climate Dynamics, 2013, 41, 2617-2642.	3.8	23
34	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
35	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
36	Informationâ€based potential predictability of the Asian summer monsoon in a coupled model. Journal of Geophysical Research, 2012, 117, .	3.3	20

#	Article	IF	Citations
37	A study of the effects of westerly wind bursts on ENSO based on CESM. Climate Dynamics, 2020, 54, 885-899.	3.8	20
38	Coupling Neural Networks to Incomplete Dynamical Systems via Variational Data Assimilation. Monthly Weather Review, 2001, 129, 818-834.	1.4	19
39	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
40	The predictability of atmospheric and oceanic motions: Retrospect and prospects. Science China Earth Sciences, 2017, 60, 2001-2012.	5.2	19
41	Westerly wind bursts simulated in CAM4 and CCSM4. Climate Dynamics, 2018, 50, 1353-1371.	3.8	19
42	ENSO Predictability over the Past 137 Years Based on a CESM Ensemble Prediction System. Journal of Climate, 2022, 35, 763-777.	3.2	19
43	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
44	Impacts of the IOD-associated temperature and salinity anomalies on the intermittent equatorial undercurrent anomalies. Climate Dynamics, 2018, 51, 1391-1409.	3.8	18
45	Forecasting the Indian Ocean Dipole With Deep Learning Techniques. Geophysical Research Letters, 2021, 48, e2021GL094407.	4.0	18
46	Seasonal and Interannual Variabilities of the Central Indian Ocean Mode. Journal of Climate, 2017, 30, 6505-6520.	3.2	16
47	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
48	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
49	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
50	Assessment of Maddenâ€"Julian oscillation simulations with various configurations of CESM. Climate Dynamics, 2016, 47, 2667-2690.	3.8	15
51	Seasonal predictability of the tropical Indian Ocean SST in the North American multimodel ensemble. Climate Dynamics, 2019, 53, 3361-3372.	3.8	15
52	Effects of Semistochastic Westerly Wind Bursts on ENSO Predictability. Geophysical Research Letters, 2020, 47, e2019GL086828.	4.0	14
53	The use of ocean reanalysis products to initialize ENSO predictions. Geophysical Research Letters, 2003, 30, .	4.0	13
54	An Analysis of Nonlinear Relationship between the MJO and ENSO. Journal of the Meteorological Society of Japan, 2008, 86, 867-881.	1.8	12

#	Article	IF	Citations
55	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
56	The impact of atmospheric nonlinearities on the fastest growth of ENSO prediction error. Climate Dynamics, 2008, 30, 519-531.	3.8	11
57	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
58	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
59	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
60	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
61	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
62	Decadal Variation in IOD Predictability During 1881â€“2016. Geophysical Research Letters, 2018, 45, 12,948.	4.0	9
63	An intermediate coupled model for the tropical ocean-atmosphere system. Science China Earth Sciences, 2018, 61, 1859-1874.	5.2	9
64	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
65	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
66	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
67	An extension of LDEO5 model for ENSO ensemble predictions. Climate Dynamics, 2020, 55, 2979-2991.	3.8	8
68	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
69	Assimilation of historical SST data for long-term ENSO retrospective forecasts. Ocean Modelling, 2009, 30, 143-154.	2.4	7
70	Low-dimensional nonlinearity of ENSO and its impact on predictability. Physica D: Nonlinear Phenomena, 2010, 239, 258-268.	2.8	7
71	A new formulation of vector weights in localized particle filters. Quarterly Journal of the Royal Meteorological Society, 2017, 143, 3269-3278.	2.7	7
72	A Time-Averaged Covariance Method in the EnKF for Argo Data Assimilation. Atmosphere - Ocean, 2012, 50, 129-145.	1.6	6

#	Article	IF	Citations
73	Methods of Estimating Uncertainty of Climate Prediction and Climate Change Projection. , 0, , .		6
74	Comparison and combination of EAKF and SIR-PF in the Bayesian filter framework. Acta Oceanologica Sinica, 2016, 35, 69-78.	1.0	6
75	An Optimization Strategy for Identifying Parameter Sensitivity in Atmospheric and Oceanic Models. Monthly Weather Review, 2017, 145, 3293-3305.	1.4	6
76	A Flowâ€Dependent Targeted Observation Method for Ensemble Kalman Filter Assimilation Systems. Earth and Space Science, 2020, 7, e2020EA001149.	2.6	6
77	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
78	A simple method for estimating variations in the predictability of ENSO. Geophysical Research Letters, 2004, 31, n/a-n/a.	4.0	5
79	Potential predictability of Northern America surface temperature in AGCMs and CGCMs. Climate Dynamics, 2015, 45, 353-374.	3.8	5
80	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
81	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
82	Intercomparison of Arctic sea ice simulation in ROMS-CICE and ROMS-Budgell. Polar Science, 2021, 29, 100716.	1.2	5
83	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
84	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
85	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
86	Predictability of Indian Ocean Dipole Over 138 Years Using a CESM Ensembleâ€Prediction System. Journal of Geophysical Research: Oceans, 2022, 127, .	2.6	5
87	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
88	Sigma-point particle filter for parameter estimation in a multiplicative noise environment. Journal of Advances in Modeling Earth Systems, 2011, 3, .	3.8	4
89	An analysis of multiâ€model ensembles for seasonal climate predictions. Quarterly Journal of the Royal Meteorological Society, 2013, 139, 1179-1198.	2.7	4
90	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

#	Article	IF	Citations
91	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
92	Frequency-specified EOF analysis and its application to Pacific decadal oscillation. Science China Earth Sciences, 2017, 60, 341-347.	5.2	4
93	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
94	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
95	Rapid Growth of Outer Size of Tropical Cyclones: A New Perspective on Their Destructive Potential. Geophysical Research Letters, 2022, 49, .	4.0	4
96	An Introduction to Ensemble-Based Data Assimilation Method in the Earth Sciences. , 0, , .		3
97	Simulation of different types of ENSO impacts on South Asian Monsoon in CCSM4. Climate Dynamics, 2017, 48, 893-911.	3.8	3
98	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
99	Predictable Pattern of Precipitation Over Asian Summer Monsoon Regions. Geophysical Research Letters, 2021, 48, e2021GL095824.	4.0	3
100	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
101	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
102	The SSTâ€“Wind Causal Relationship during the Development of the IOD in Observations and Model Simulations. Remote Sensing, 2022, 14, 1064.	4.0	2
103	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
104	Research on drought / flood influence factors in China. Chinese Geographical Science, 1993, 3, 34-43.	3.0	1
105	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
106	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
107	Predictable Mode of Tropical Intraseasonal Variability in Boreal Summer. Journal of Climate, 2021, 34, 3355-3366.	3.2	1
108	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

#	Article	IF	Citations
109	TROPICAL PACIFIC UPPER OCEAN HEAT CONTENT VARIATIONS AND ENSO PREDICTABILITY DURING THE PERIOD FROM 1881â€“2000. , 0, , 87-108.		1
110	Decadal variation of the rainfall predictability over the maritime continent in the wet season. Journal of Climate, 2022, , 1-21.	3.2	1
111	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
112	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
113	The Influence of Wind-Induced Waves on ENSO Simulations. Journal of Marine Science and Engineering, 2021, 9, 457.	2.6	0
114	Multidecadal Variability in Mediterranean Sea Surface Temperature and Its Sources. Geophysical Research Letters, 2021, 48, e2020GL091814.	4.0	0
115	A local sigma-point unscented Kalman filter for geophysical data assimilation. Physica D: Nonlinear Phenomena, 2021, 425, 132979.	2.8	0
116	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