Shu-Chih Yang

List of Publications by Year
in descending order

28 papers	566 citations	840776 11 h-index	642732 23 g-index
28 all docs	28 docs citations	28 times ranked	502 citing authors

#	ARTICLE	IF	CITATIONS
1	Improving the spin-up of regional EnKF for typhoon assimilation and forecasting with Typhoon Sinlaku (2008). Tellus, Series A: Dynamic Meteorology and Oceanography, 2022, 65, 20804.	1.7	16
2	Improving quantitative precipitation nowcasting with a local ensemble transform Kalman filter radar data assimilation system: observing system simulation experiments. Tellus, Series A: Dynamic Meteorology and Oceanography, 2022, 66, 21804.	1.7	20
3	Ensemble singular vectors and their use as additive inflation in EnKF. Tellus, Series A: Dynamic Meteorology and Oceanography, 2022, 67, 26536.	1.7	12
4	Convective-Scale Data Assimilation and Precipitation Prediction with a Local Ensemble Transform Kalman Filter Radar Assimilation System Over Complex Terrain: A Thorough Investigation with the Heavy Rainfall in Taiwan on 16 June 2008. , 2022, , 543-579.		1
5	A Regional Hybrid Gain Data Assimilation System and Preliminary Evaluation Based on Radio Occultation Reflectivity Assimilation. Scientific Online Letters on the Atmosphere, 2022, 18, 33-40.	1.4	2
6	Impact of assimilating Formosat-7/COSMIC-II GNSS radio occultation data on heavy rainfall prediction in Taiwan. Terrestrial, Atmospheric and Oceanic Sciences, 2022, 33, 1.	0.6	5
7	Ensemble Transform Kalman Incremental Smoother and Its Application to Data Assimilation and Prediction. Frontiers in Applied Mathematics and Statistics, 2021, 7, .	1.3	0
8	Impact of Tropical Cyclone Initialization on Its Convection Development and Intensity: A Case Study of Typhoon Megi (2010). Journals of the Atmospheric Sciences, 2020, 77, 443-464.	1.7	10
9	Hybrid Gain Data Assimilation Using Variational Corrections in the Subspace Orthogonal to the Ensemble. Monthly Weather Review, 2020, 148, 2331-2350.	1.4	6
10	A Case Study on the Impact of Ensemble Data Assimilation with GNSS-Zenith Total Delay and Radar Data on Heavy Rainfall Prediction. Monthly Weather Review, 2020, 148, 1075-1098.	1.4	22
11	Convective-Scale Sampling Error and Its Impact on the Ensemble Radar Data Assimilation System: A Case Study of a Heavy Rainfall Event on 16 June 2008 in Taiwan. Monthly Weather Review, 2020, 148, 3631-3652.	1.4	11
12	An Investigation of the Sensitivity of Predicting a Severe Rainfall Event in Northern Taiwan to the Upstream Condition with a WRF-based Radar Data Assimilation System. Scientific Online Letters on the Atmosphere, 2020, 16, 97-103.	1.4	4
13	Application of bias corrections to improve hub-height ensemble wind forecasts over the Tehachapi Wind Resource Area. Renewable Energy, 2019, 140, 281-291.	8.9	8
14	Ensemble singular vectors as additive inflation in the Local Ensemble Transform Kalman Filter (LETKF) framework with a global NWP model. Quarterly Journal of the Royal Meteorological Society, 2019, 145, 258-272.	2.7	1
15	Reducing TC Position Uncertainty in an Ensemble Data Assimilation and Prediction System: A Case Study of Typhoon Fanapi (2010). Weather and Forecasting, 2018, 33, 561-582.	1.4	8
16	Multilocalization data assimilation for predicting heavy precipitation associated with a multiscale weather system. Journal of Advances in Modeling Earth Systems, 2017, 9, 1684-1702.	3.8	5
17	An Impact Study of GPS Radio Occultation Observations on Frontal Rainfall Prediction with a Local Bending Angle Operator. Weather and Forecasting, 2016, 31, 129-150.	1.4	18
18	Evaluating the Impact of the COSMIC RO Bending Angle Data on Predicting the Heavy Precipitation Episode on 16 June 2008 during SoWMEX-IOP8. Monthly Weather Review, 2014, 142, 4139-4163.	1.4	29

#	ARTICLE	IF	CITATIONS
19	Applications of the Mean Recentering Scheme to Improve Typhoon Track Prediction: A Case Study of Typhoon Nanmadol (2011). Journal of the Meteorological Society of Japan, 2014, 92, 559-584.	1.8	9
20	Lyapunov, singular and bred vectors in a multi-scale system: an empirical exploration of vectors related to instabilities. Journal of Physics A: Mathematical and Theoretical, 2013, 46, 254021.	2.1	26
21	Accelerating the EnKF Spinup for Typhoon Assimilation and Prediction. Weather and Forecasting, 2012, 27, 878-897.	1.4	24
22	Handling Nonlinearity in an Ensemble Kalman Filter: Experiments with the Three-Variable Lorenz Model. Monthly Weather Review, 2012, 140, 2628-2646.	1.4	50
23	Accelerating the spinâ€up of Ensemble Kalman Filtering. Quarterly Journal of the Royal Meteorological Society, 2010, 136, 1644-1651.	2.7	79
24	Comparison of Local Ensemble Transform Kalman Filter, 3DVAR, and 4DVAR in a Quasigeostrophic Model. Monthly Weather Review, 2009, 137, 693-709.	1.4	51
25	Weight interpolation for efficient data assimilation with the Local Ensemble Transform Kalman Filter. Quarterly Journal of the Royal Meteorological Society, 2009, 135, 251-262.	2.7	56
26	Response to the discussion on â€œ4-D-Var or EnKF?â€•by Nils Gustafsson. Tellus, Series A: Dynamic Meteorology and Oceanography, 2007, 59, 778-780.	1.7	21
27	Data Assimilation as Synchronization of Truth and Model: Experiments with the Three-Variable Lorenz System*. Journals of the Atmospheric Sciences, 2006, 63, 2340-2354.	1.7	72
28	Including observation error correlation for ensemble radar radial wind assimilation and its impact on heavy rainfall prediction. Quarterly Journal of the Royal Meteorological Society, 0, , .	2.7	0