Wei Han

List of Publications by Year
in descending order

29 papers	425 citations	687363 13 h-index	794594 19 g-index
29 all docs	29 docs citations	29 times ranked	335 citing authors

#	Article	IF	Citations
1	The evaluation of <scp>FY4A</scp>'s Geostationary Interferometric Infrared Sounder (<scp>GIIRS</scp>) long‐wave temperature sounding channels using the <scp>GRAPES</scp> global <scp>4D‐Var</scp>. Quarterly Journal of the Royal Meteorological Society, 2020, 146, 1459-1476.	2.7	44
2	Impact of High Temporal Resolution FY‐4A Geostationary Interferometric Infrared Sounder (GIIRS) Radiance Measurements on Typhoon Forecasts: Maria (2018) Case With GRAPES Global 4D‐Var Assimilation System. Geophysical Research Letters, 2021, 48, e2021GL093672.	4.0	42
3	Enhancing the Fast Radiative Transfer Model for FengYun‐4 GIIRS by Using Local Training Profiles. Journal of Geophysical Research D: Atmospheres, 2018, 123, 12,583.	3.3	34
4	The 4D‐Var assimilation of ozone‐sensitive infrared radiances measured by IASI. Quarterly Journal of the Royal Meteorological Society, 2010, 136, 2025-2037.	2.7	30
5	Satellite All-sky Infrared Radiance Assimilation: Recent Progress and Future Perspectives. Advances in Atmospheric Sciences, 2022, 39, 9-21.	4.3	29
6	Four‐Dimensional Wind Fields From Geostationary Hyperspectral Infrared Sounder Radiance Measurements With High Temporal Resolution. Geophysical Research Letters, 2021, 48, e2021GL093794.	4.0	25
7	Review of Chinese atmospheric science research over the past 70 years: Synoptic meteorology. Science China Earth Sciences, 2019, 62, 1946-1991.	5.2	22
8	Theoretical analyses and numerical experiments of variational assimilation for one-dimensional ocean temperature model with techniques in inverse problems. Science in China Series D: Earth Sciences, 2004, 47, 630-638.	0.9	20
9	Case Study of a Retrieval Method of 3D Proxy Reflectivity from FY-4A Lightning Data and Its Impact on the Assimilation and Forecasting for Severe Rainfall Storms. Remote Sensing, 2020, 12, 1165.	4.0	20
10	Dust Emission Inversion Using Himawari‐8 AODs Over East Asia: An Extreme Dust Event in May 2017. Journal of Advances in Modeling Earth Systems, 2019, 11, 446-467.	3.8	18
11	Impact of FY-3D MWRI Radiance Assimilation in GRAPES 4DVar on Forecasts of Typhoon Shanshan. Journal of Meteorological Research, 2020, 34, 836-850.	2.4	18
12	Inverse modeling of the 2021 spring super dust storms in East Asia. Atmospheric Chemistry and Physics, 2022, 22, 6393-6410.	4.9	16
13	Using Long-Term Earth Observation Data to Reveal the Factors Contributing to the Early 2020 Desert Locust Upsurge and the Resulting Vegetation Loss. Remote Sensing, 2021, 13, 680.	4.0	13
14	Radiance‐Based Evaluation of WRF Cloud Properties Over East Asia: Direct Comparison With FY‐2E Observations. Journal of Geophysical Research D: Atmospheres, 2018, 123, 4613-4629.	3.3	11
15	Typhoon Maria Precipitation Retrieval and Evolution Based on the Infrared Brightness Temperature of the Feng-Yun 4A/Advanced Geosynchronous Radiation Imager. Advances in Meteorology, 2020, 2020, 1-12.	1.6	11
16	Application of a Radar Echo Extrapolation‐Based Deep Learning Method in Strong Convection Nowcasting. Earth and Space Science, 2021, 8, e2020EA001621.	2.6	10
17	Geostationary Hyperspectral Infrared Sounder Channel Selection for Capturing Fast-Changing Atmospheric Information. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-10.	6.3	9
18	Efficient radiative transfer model for thermal infrared brightness temperature simulation in cloudy atmospheres. Optics Express, 2020, 28, 25730.	3.4	8

#	Article	IF	Citations
19	Cloud Detection and Classification Algorithms for Himawari-8 Imager Measurements Based on Deep Learning. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-17.	6.3	8
20	Denoising Algorithm for the FY-4A GIIRS Based on Principal Component Analysis. Remote Sensing, 2019, 11, 2710.	4.0	7
21	A step forward toward effectively using hyperspectral IR sounding information in NWP. Advances in Atmospheric Sciences, 2017, 34, 1263-1264.	4.3	6
22	Using FengYun-3C VSM Data and Multivariate Models to Estimate Land Surface Soil Moisture. Remote Sensing, 2020, 12, 1038.	4.0	6
23	Typhoon Cloud System Identification and Forecasting Using the Feng-Yun 4A/Advanced Geosynchronous Radiation Imager Based on an Improved Fuzzy Clustering and Optical Flow Method. Advances in Meteorology, 2019, 2019, 1-11.	1.6	4
24	Vertical Inhomogeneity Effect of Frozen Hydrometeor Habits in Allâ€Sky Passive Microwave Simulations. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2020JD032817.	3.3	3
25	Precipitation retrieval by the <scp>L1</scp>â€norm regularization: Typhoon <i>Hagibis</i> case. Quarterly Journal of the Royal Meteorological Society, 2021, 147, 773-785.	2.7	3
26	Adaptive tuning of background error and satellite radiances observation error for operational variational assimilation. , 2007, , .		2
27	Assimilation of Doppler radar radial wind data in the GRAPES mesoscale model with observation error covariances tuning. Quarterly Journal of the Royal Meteorological Society, 2021, 147, 2087-2102.	2.7	2
28	Why and How Does the Actual Spectral Response Matter for Microwave Radiance Assimilation?. Geophysical Research Letters, 2021, 48, e2020GL092306.	4.0	2
29	A Remapping Technique of FY-3D MWRI Based on a Convolutional Neural Network for the Reduction of Representativeness Error. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-11.	6.3	2