

Yong Han

List of Publications by Year in descending order

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64
papers

6,449
citations

257450

24
h-index

182427

51
g-index

64
all docs

64
docs citations

64
times ranked

7465
citing authors

#	ARTICLE	IF	CITATIONS
1	The NCEP Climate Forecast System Reanalysis. Bulletin of the American Meteorological Society, 2010, 91, 1015-1058.	3.3	4,166
2	Radiometric profiling of temperature, water vapor and cloud liquid water using various inversion methods. Radio Science, 1998, 33, 393-404.	1.6	216
3	Suomi NPP CrIS measurements, sensor data record algorithm, calibration and validation activities, and record data quality. Journal of Geophysical Research D: Atmospheres, 2013, 118, 12,734.	3.3	181
4	Analysis and improvement of tipping calibration for ground-based microwave radiometers. IEEE Transactions on Geoscience and Remote Sensing, 2000, 38, 1260-1276.	6.3	160
5	Analysis of integrated cloud liquid and precipitable water vapor retrievals from microwave radiometers during the Surface Heat Budget of the Arctic Ocean project. Journal of Geophysical Research, 2001, 106, 32019-32030.	3.3	144
6	An Arctic Springtime Mixed-Phase Cloudy Boundary Layer Observed during SHEBA. Journals of the Atmospheric Sciences, 2005, 62, 160-176.	1.7	113
7	A fast radiative transfer model for SSMIS upper atmosphere sounding channels. Journal of Geophysical Research, 2007, 112, .	3.3	92
8	Microphysical and radiative properties of boundary layer stratiform clouds deduced from ground-based measurements. Journal of Geophysical Research, 1997, 102, 23829-23843.	3.3	91
9	Validation of the community radiative transfer model. Journal of Quantitative Spectroscopy and Radiative Transfer, 2011, 112, 1050-1064.	2.3	87
10	Validation of the Community Radiative Transfer Model by using CloudSat data. Journal of Geophysical Research, 2008, 113, .	3.3	84
11	Suomi NPP CrIS radiometric calibration uncertainty. Journal of Geophysical Research D: Atmospheres, 2013, 118, 10,589.	3.3	79
12	Remote Sensing of Tropospheric Water Vapor and Cloud Liquid Water by Integrated Ground-Based Sensors. Journal of Atmospheric and Oceanic Technology, 1995, 12, 1050-1059.	1.3	77
13	A comparison of radiative transfer models for simulating Atmospheric Infrared Sounder (AIRS) radiances. Journal of Geophysical Research, 2007, 112, .	3.3	72
14	Noise performance of the CrIS instrument. Journal of Geophysical Research D: Atmospheres, 2013, 118, 13,108.	3.3	60
15	Geolocation assessment for CrIS sensor data records. Journal of Geophysical Research D: Atmospheres, 2013, 118, 12,690.	3.3	58
16	Observations of water vapor by ground-based microwave radiometers and Raman lidar. Journal of Geophysical Research, 1994, 99, 18695.	3.3	54
17	Infrared spectral radiance measurements in the tropical Pacific atmosphere. Journal of Geophysical Research, 1997, 102, 4353-4356.	3.3	50
18	High-resolution tropospheric carbon monoxide profiles retrieved from CrIS and TROPOMI. Atmospheric Measurement Techniques, 2016, 9, 2567-2579.	3.1	46

#	ARTICLE	IF	CITATIONS
19	On water vapor Jacobian in fast radiative transfer model. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	44
20	Measurement of Low Amounts of Precipitable Water Vapor Using Ground-Based Millimeterwave Radiometry. <i>Journal of Atmospheric and Oceanic Technology</i> , 2005, 22, 317-337.	1.3	41
21	Radiosonde Humidity Soundings and Microwave Radiometers during Nauru99. <i>Journal of Atmospheric and Oceanic Technology</i> , 2003, 20, 953-971.	1.3	38
22	Fast and Accurate Collocation of the Visible Infrared Imaging Radiometer Suite Measurements with Cross-Track Infrared Sounder. <i>Remote Sensing</i> , 2016, 8, 76.	4.0	35
23	Accuracy of ground-based microwave radiometer and balloon-borne measurements during the WVIOP2000 field experiment. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2003, 41, 2605-2615.	6.3	32
24	Assessment of Shortwave Infrared Sea Surface Reflection and Nonlocal Thermodynamic Equilibrium Effects in the Community Radiative Transfer Model Using IASI Data. <i>Journal of Atmospheric and Oceanic Technology</i> , 2013, 30, 2152-2160.	1.3	32
25	Evaluating a satellite-derived global infrared land surface emissivity data set for use in radiative transfer modeling. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	26
26	Comparison of two transmittance algorithms in the community radiative transfer model: Application to AVHRR. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	25
27	Calibration Algorithm for Cross-Track Infrared Sounder Full Spectral Resolution Measurements. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2018, 56, 1008-1016.	6.3	24
28	The Combined Sensor Program: An Airâ€“Sea Science Mission in the Central and Western Pacific Ocean. <i>Bulletin of the American Meteorological Society</i> , 1997, 78, 2797-2815.	3.3	23
29	Atmospheric transmittance of an absorbing gas 7 Further improvements to the OPTRAN 6 approach. <i>Applied Optics</i> , 2006, 45, 2028.	2.1	23
30	Characterization of Long-Term Stability of Suomi NPP Cross-Track Infrared Sounder Spectral Calibration. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2017, 55, 1147-1159.	6.3	23
31	Improved scheme for Crossâ€“track Infrared Sounder geolocation assessment and optimization. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 519-536.	3.3	22
32	Air and sea surface temperature measurements using a 60-GHz microwave rotating radiometer. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 1998, 36, 3-15.	6.3	17
33	Inter-comparison of NPP/CrIS radiances with VIIRS, AIRS, and IASI: a post-launch calibration assessment. <i>Proceedings of SPIE</i> , 2012, , .	0.8	15
34	Effect of self-apodization correction on Cross-track Infrared Sounder radiance noise. <i>Applied Optics</i> , 2015, 54, 10114.	2.1	15
35	Community radiative transfer model for radiance assimilation and applications. , 2012, , .		14
36	A robust retrieval of water vapor column in dry Arctic conditions using the rotating shadowband spectroradiometer. <i>Journal of Geophysical Research</i> , 2001, 106, 24007-24016.	3.3	13

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37	Community Radiative Transfer Model for Stratospheric Sounding Unit. Journal of Atmospheric and Oceanic Technology, 2011, 28, 767-778.	1.3	12
38	An improved fast radiative transfer model for special sensor microwave imager/sounder upper atmosphere sounding channels. Journal of Geophysical Research, 2010, 115, .	3.3	11
39	Detection of Earth-rotation Doppler shift from Suomi National Polar-Orbiting Partnership Cross-Track Infrared Sounder. Applied Optics, 2013, 52, 6250.	1.8	11
40	Multichannel Microwave Radiometric Observations at Saipan during the 1990 Tropical Cyclone Motion Experiment. Journal of Atmospheric and Oceanic Technology, 1994, 11, 110-121.	1.3	10
41	Sea-air and boundary layer temperatures measured by a scanning 5-mm-wavelength radiometer: Recent results. Radio Science, 1998, 33, 291-302.	1.6	10
42	Impacts of field of view configuration of Cross-track Infrared Sounder on clear-sky observations. Applied Optics, 2016, 55, 7113.	2.1	10
43	Remote sensing of total precipitable water vapor by microwave radiometers and GPS during the 1997 Water Vapor Intensive Operating Period. , 1998, , .		9
44	Air temperature profile and air/sea temperature difference measurements by infrared and microwave scanning radiometers. Radio Science, 2003, 38, n/a-n/a.	1.6	9
45	Effect of Out-of-Band Response in NOAA-16 AVHRR Channel 3b on Top-of-Atmosphere Radiances Calculated with the Community Radiative Transfer Model. Journal of Atmospheric and Oceanic Technology, 2009, 26, 1968-1972.	1.3	9
46	Planck-Weighted Transmittance and Correction of Solar Reflection for Broadband Infrared Satellite Channels. Journal of Atmospheric and Oceanic Technology, 2012, 29, 382-396.	1.3	9
47	Preflight assessment of the cross-track infrared sounder (CrIS) performance. Proceedings of SPIE, 2011, , .	0.8	8
48	SI traceable algorithm for characterizing hyperspectral infrared sounder CrIS noise. Applied Optics, 2015, 54, 7889.	2.1	8
49	Comparison of Atmospheric Methane Retrievals From AIRS and IASI. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2016, 9, 3297-3303.	4.9	8
50	Scanning infrared radiometer for measuring the air-sea temperature difference. Applied Optics, 2001, 40, 4807.	2.1	5
51	Millimeter-wave measurements of low amounts of precipitable water vapor. , 0, , .		4
52	Conversion issues between microwave radiance and brightness temperature. Journal of Quantitative Spectroscopy and Radiative Transfer, 2008, 109, 1943-1950.	2.3	4
53	CrIS SDR calibration and validation status and NOAA-STAR related activities. Proceedings of SPIE, 2012, , .	0.8	4
54	Reprocessing of Suomi NPP CrIS sensor data records and impacts on radiometric and spectral long-term accuracy and stability. , 2017, , .		4

#	ARTICLE	IF	CITATIONS
55	Future JPSS Cross-track Infrared Sounder (CrIS) Ground Calibration Algorithm Improvements. , 2015, , .		4
56	Empirical evaluation of four microwave radiative forward models based on ground-based radiometer data near 20 and 30 GHz. , 0, , .		3
57	Calculating Antarctic stratospheric temperature from Special Sensor Microwave Imager and Sounder. Geophysical Research Letters, 2007, 34, .	4.0	3
58	A rapid radiative transfer model for SSMIS UAS channels that takes the earth-rotation doppler shift and Zeeman effects into account. , 2010, , .		1
59	Evaluation of different calibration approaches for S-NPP CRIS full spectral resolution SDR processing. , 2015, , .		1
60	Microwave and Infrared Radiances Assimilation for Weather Forecasting. , 2008, , .		0
61	A study of the NOAA near-nadir Microwave Humidity Sounder brightness temperatures over Antarctica. , 2011, , .		0
62	Comparison of atmospheric methane observations from AIRS and IASI. , 2015, , .		0
63	Combination of VIIRS measurements and products with CrIS toward extending data utilization. , 2016, , .		0
64	Using Collocated VIIRS Observations for CrIS Scene Characterization toward Extending Data Utilization. , 2016, , .		0