Fuzhong Weng

List of Publications by Year
in descending order

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247 papers	7,279 citations	61984 43 h-index	69250 77 g-index
252 all docs	252 docs citations	252 times ranked	3752 citing authors

#	Article	IF	Citations
1	Early On-Orbit Performance of the Visible Infrared Imaging Radiometer Suite Onboard the Suomi National Polar-Orbiting Partnership (S-NPP) Satellite. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 1142-1156.	6.3	403
2	Advanced microwave sounding unit cloud and precipitation algorithms. Radio Science, 2003, 38, n/a-n/a.	1.6	261
3	Suomi NPP VIIRS sensor data record verification, validation, and longâ€term performance monitoring. Journal of Geophysical Research D: Atmospheres, 2013, 118, 11,664.	3.3	252
4	Retrieval of cloud liquid water using the special sensor microwave imager (SSM/I). Journal of Geophysical Research, 1994, 99, 25535.	3.3	229
5	An Eight-Year (1987â€“1994) Time Series of Rainfall, Clouds, Water Vapor, Snow Cover, and Sea Ice Derived from SSM/I Measurements. Bulletin of the American Meteorological Society, 1996, 77, 891-905.	3.3	227
6	MiRS: An All-Weather 1DVAR Satellite Data Assimilation and Retrieval System. IEEE Transactions on Geoscience and Remote Sensing, 2011, 49, 3249-3272.	6.3	188
7	NOAA operational hydrological products derived from the advanced microwave sounding unit. IEEE Transactions on Geoscience and Remote Sensing, 2005, 43, 1036-1049.	6.3	179
8	The Global Space-Based Inter-Calibration System. Bulletin of the American Meteorological Society, 2011, 92, 467-475.	3.3	161
9	A microwave land emissivity model. Journal of Geophysical Research, 2001, 106, 20115-20123.	3.3	153
10	Advances in Radiative Transfer Modeling in Support of Satellite Data Assimilation. Journals of the Atmospheric Sciences, 2007, 64, 3799-3807.	1.7	150
11	Advanced Doublingâ€“Adding Method for Radiative Transfer in Planetary Atmospheres. Journals of the Atmospheric Sciences, 2006, 63, 3459-3465.	1.7	144
12	Determination of precipitable water and cloud liquid water over oceans from the NOAA 15 advanced microwave sounding unit. Journal of Geophysical Research, 2001, 106, 2943-2953.	3.3	115
13	Uncertainties in Microwave Properties of Frozen Precipitation: Implications for Remote Sensing and Data Assimilation. Journals of the Atmospheric Sciences, 2010, 67, 3471-3487.	1.7	115
14	Retrieval of Ice Cloud Parameters Using the Advanced Microwave Sounding Unit. Journal of Applied Meteorology and Climatology, 2002, 41, 384-395.	1.7	114
15	An Improved Fast Microwave Water Emissivity Model. IEEE Transactions on Geoscience and Remote Sensing, 2011, 49, 1238-1250.	6.3	113
16	Retrieval of Ice Cloud Parameters Using a Microwave Imaging Radiometer. Journals of the Atmospheric Sciences, 2000, 57, 1069-1081.	1.7	108
17	Analysis of Tropical Cyclogenesis in the Western North Pacific for 2000 and 2001*. Weather and Forecasting, 2007, 22, 763-780.	1.4	106
18	Precipitation characteristics over land from the NOAA-15 AMSU sensor. Geophysical Research Letters, 2000, 27, 2669-2672.	4.0	100

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19	Introduction to Suomi national polarâ€orbiting partnership advanced technology microwave sounder for numerical weather prediction and tropical cyclone applications. Journal of Geophysical Research, 2012, 117, .	3.3	98
20	The FengYun-3 Microwave Radiation Imager On-Orbit Verification. IEEE Transactions on Geoscience and Remote Sensing, 2011, 49, 4552-4560.	6.3	96
21	Numerical Simulation of Hurricane Bonnie (1998). Part I: Eyewall Evolution and Intensity Changes. Monthly Weather Review, 2004, 132, 225-241.	1.4	95
22	Calibration of Suomi national polarâ€orbiting partnership advanced technology microwave sounder. Journal of Geophysical Research D: Atmospheres, 2013, 118, 11,187.	3.3	94
23	A fast radiative transfer model for SSMIS upper atmosphere sounding channels. Journal of Geophysical Research, 2007, 112, .	3.3	92
24	Physical retrieval of land surface temperature using the special sensor microwave imager. Journal of Geophysical Research, 1998, 103, 8839-8848.	3.3	90
25	Validation of the community radiative transfer model. Journal of Quantitative Spectroscopy and Radiative Transfer, 2011, 112, 1050-1064.	2.3	87
26	VDISORT: AN IMPROVED AND GENERALIZED DISCRETE ORDINATE METHOD FOR POLARIZED (VECTOR) RADIATIVE TRANSFER. Journal of Quantitative Spectroscopy and Radiative Transfer, 1999, 61, 105-122.	2.3	84
27	Validation of the Community Radiative Transfer Model by using CloudSat data. Journal of Geophysical Research, 2008, 113, .	3.3	84
28	Impact of the Advanced Microwave Sounding Unit Measurements on Hurricane Prediction. Monthly Weather Review, 2002, 130, 2416-2432.	1.4	82
29	Detection of Asia dust storms using multisensor satellite measurements. Remote Sensing of Environment, 2007, 110, 186-191.	11.0	81
30	Impacts of assimilation of ATMS data in HWRF on track and intensity forecasts of 2012 four landfall hurricanes. Journal of Geophysical Research D: Atmospheres, 2013, 118, 11,558.	3.3	75
31	A multi-layer discrete-ordinate method for vector radiative transfer in a vertically-inhomogeneous, emitting and scattering atmosphereâ€"I. Theory. Journal of Quantitative Spectroscopy and Radiative Transfer, 1992, 47, 19-33.	2.3	74
32	Cloud Liquid Water Climatology from the Special Sensor Microwave/Imager. Journal of Climate, 1997, 10, 1086-1098.	3.2	67
33	Satellite Data Assimilation in Numerical Weather Prediction Models. Part I: Forward Radiative Transfer and Jacobian Modeling in Cloudy Atmospheres. Journals of the Atmospheric Sciences, 2003, 60, 2633-2646.	1.7	66
34	Satellite-based PM2.5 estimation directly from reflectance at the top of the atmosphere using a machine learning algorithm. Atmospheric Environment, 2019, 208, 113-122.	4.1	66
35	One-dimensional variational retrieval algorithm of temperature, water vapor, and cloud water profiles from advanced microwave sounding unit (AMSU). IEEE Transactions on Geoscience and Remote Sensing, 2005, 43, 1087-1095.	6.3	56
36	Development and analysis of a 12-year daily 1-km forest fire dataset across North America from NOAA/AVHRR data. Remote Sensing of Environment, 2007, 108, 198-208.	11.0	56

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37	Intercalibration Between Special Sensor Microwave Imager/Sounder and Special Sensor Microwave Imager. IEEE Transactions on Geoscience and Remote Sensing, 2008, 46, 984-995.	6.3	55
38	Absolute Calibration of ATMS Upper Level Temperature Sounding Channels Using GPS RO Observations. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 1397-1406.	6.3	51
39	Improved Coastal Precipitation Forecasts with Direct Assimilation of GOES-11/12 Imager Radiances. Monthly Weather Review, 2011, 139, 3711-3729.	1.4	48
40	Evaluating Added Benefits of Assimilating GOES Imager Radiance Data in GSI for Coastal QPFs. Monthly Weather Review, 2013, 141, 75-92.	1.4	48
41	Impact of the Vertical Variation of Cloud Droplet Size on the Estimation of Cloud Liquid Water Path and Rain Detection. Journals of the Atmospheric Sciences, 2007, 64, 3843-3853.	1.7	47
42	Microwave Emission and Scattering From Deserts: Theory Compared With Satellite Measurements. IEEE Transactions on Geoscience and Remote Sensing, 2008, 46, 361-375.	6.3	44
43	On water vapor Jacobian in fast radiative transfer model. Journal of Geophysical Research, 2010, 115, .	3.3	44
44	Passive Microwave Remote Sensing of Extreme Weather Events Using NOAA-18 AMSUA and MHS. IEEE Transactions on Geoscience and Remote Sensing, 2007, 45, 2228-2246.	6.3	43
45	Characterization of Bias of Advanced Himawari Imager Infrared Observations from NWP Background Simulations Using CRTM and RTTOV. Journal of Atmospheric and Oceanic Technology, 2016, 33, 2553-2567.	1.3	43
46	Global precipitation estimations using Defense Meteorological Satellite Program F10 and F11 special sensor microwave imager data. Journal of Geophysical Research, 1994, 99, 14493.	3.3	41
47	Scattering database in the millimeter and submillimeter wave range of 100â€“1000 GHz for nonspherical ice particles. Journal of Geophysical Research, 2009, 114, .	3.3	41
48	Comparison of Radiative Transfer Models for Simulating Snow Surface Thermal Infrared Emissivity. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2010, 3, 323-336.	4.9	41
49	Advanced Radiative Transfer Modeling System (ARMS): A New-Generation Satellite Observation Operator Developed for Numerical Weather Prediction and Remote Sensing Applications. Advances in Atmospheric Sciences, 2020, 37, 131-136.	4.3	41
50	Assessments of Chinese Fengyun Microwave Temperature Sounder (MWTS) Measurements for Weather and Climate Applications. Journal of Atmospheric and Oceanic Technology, 2011, 28, 1206-1227.	1.3	39
51	Evaluation of Special Sensor Microwave Imager/Sounder (SSMIS) Environmental Data Records. IEEE Transactions on Geoscience and Remote Sensing, 2008, 46, 1006-1016.	6.3	38
52	Estimation and Correction of Geolocation Errors in FengYun-3C Microwave Radiation Imager Data. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 407-420.	6.3	38
53	Satellite Data Assimilation in Numerical Weather Prediction Models. Part II: Uses of Rain-Affected Radiances from Microwave Observations for Hurricane Vortex Analysis. Journals of the Atmospheric Sciences, 2007, 64, 3910-3925.	1.7	37
54	Radiometric Stability Monitoring of the Suomi NPP Visible Infrared Imaging Radiometer Suite (VIIRS) Reflective Solar Bands Using the Moon. Remote Sensing, 2016, 8, 15.	4.0	37

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55	Kramersâ€Kronig analysis of leaf refractive index with the PROSPECT leaf optical property model. Journal of Geophysical Research, 2012, 117, .	3.3	36
56	A study of warm rain detection using A-Train satellite data. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	35
57	Detection of Radio-Frequency Interference Signal Over Land From FY-3B Microwave Radiation Imager (MWRI). IEEE Transactions on Geoscience and Remote Sensing, 2012, 50, 4994-5003.	6.3	35
58	Improved Quantitative Precipitation Forecasts by MHS Radiance Data Assimilation with a Newly Added Cloud Detection Algorithm. Monthly Weather Review, 2013, 141, 3203-3221.	1.4	35
59	On Convertibility From Antenna to Sensor Brightness Temperature for ATMS. IEEE Geoscience and Remote Sensing Letters, 2013, 10, 771-775.	3.1	34
60	Retrieval of snow surface microwave emissivity from the advanced microwave sounding unit. Journal of Geophysical Research, 2008, 113, .	3.3	33
61	Assessment of Shortwave Infrared Sea Surface Reflection and Nonlocal Thermodynamic Equilibrium Effects in the Community Radiative Transfer Model Using IASI Data. Journal of Atmospheric and Oceanic Technology, 2013, 30, 2152-2160.	1.3	32
62	Hurricane Sandy warmâ€core structure observed from advanced Technology Microwave Sounder. Geophysical Research Letters, 2013, 40, 3325-3330.	4.0	32
63	Analysis of ATMS striping noise from its Earth scene observations. Journal of Geophysical Research D: Atmospheres, 2013, 118, 13,214.	3.3	32
64	Combined Henyey-Greenstein and Rayleigh phase function. Applied Optics, 2006, 45, 7475.	2.1	30
65	Error Sources in Remote Sensing of Microwave Land Surface Emissivity. IEEE Transactions on Geoscience and Remote Sensing, 2011, 49, 3437-3442.	6.3	30
66	Diagnosis and testing of low-level cloud parameterizations for the NCEP/GFS model using satellite and ground-based measurements. Climate Dynamics, 2013, 41, 1595-1613.	3.8	30
67	WindSat Radio-Frequency Interference Signature and Its Identification Over Greenland and Antarctic. IEEE Transactions on Geoscience and Remote Sensing, 2013, 51, 4830-4839.	6.3	30
68	Special Sensor Microwave Imager (SSM/I) Intersensor Calibration Using a Simultaneous Conical Overpass Technique. Journal of Applied Meteorology and Climatology, 2011, 50, 77-95.	1.5	29
69	A Microwave Polarimetric Two-Stream Radiative Transfer Model. Journals of the Atmospheric Sciences, 2002, 59, 2396-2402.	1.7	28
70	Assimilation of Satellite Cloud and Precipitation Observations in Numerical Weather Prediction Models: Introduction to the JAS Special Collection. Journals of the Atmospheric Sciences, 2007, 64, 3737-3741.	1.7	28
71	Assessment of a Variational Inversion System for Rainfall Rate Over Land and Water Surfaces. IEEE Transactions on Geoscience and Remote Sensing, 2011, 49, 3311-3333.	6.3	27
72	Detection and correction of AMSR-E radio-frequency interference. Journal of Meteorological Research, 2011, 25, 669-681.	1.0	27

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73	Estimates of radiation over clouds and dust aerosols: Optimized number of terms in phase function expansion. Journal of Quantitative Spectroscopy and Radiative Transfer, 2009, 110, 1190-1198.	2.3	26
74	Evaluating a satellite-derived global infrared land surface emissivity data set for use in radiative transfer modeling. Journal of Geophysical Research, 2011, 116, .	3.3	26
75	Comparison of two transmittance algorithms in the community radiative transfer model: Application to AVHRR. Journal of Geophysical Research, 2012, 117, .	3.3	25
76	Cloud optical and microphysical properties derived from groundâ€based and satellite sensors over a site in the Yangtze Delta region. Journal of Geophysical Research D: Atmospheres, 2013, 118, 9141-9152.	3.3	25
77	Cloud and precipitation features of Super Typhoon Neoguri revealed from dual oxygen absorption band sounding instruments on board FengYunâ€3C satellite. Geophysical Research Letters, 2015, 42, 916-924.	4.0	25
78	Retrieval of sea surface wind vectors from simulated satellite microwave polarimetric measurements. Radio Science, 2003, 38, n/a-n/a.	1.6	24
79	Use of Allan Deviation for Characterizing Satellite Microwave Sounder Noise Equivalent Differential Temperature (NEDT). IEEE Geoscience and Remote Sensing Letters, 2015, 12, 2477-2480.	3.1	24
80	Estimation of ATMS Antenna Emission From Cold Space Observations. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 4479-4487.	6.3	24
81	Improvements on the ice cloud modeling capabilities of the Community Radiative Transfer Model. Journal of Geophysical Research D: Atmospheres, 2016, 121, 13,577.	3.3	23
82	Single-scattering properties of ice particles in the microwave regime: Temperature effect on the ice refractive index with implications in remote sensing. Journal of Quantitative Spectroscopy and Radiative Transfer, 2017, 190, 26-37.	2.3	23
83	Characterization of Long-Term Stability of Suomi NPP Cross-Track Infrared Sounder Spectral Calibration. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 1147-1159.	6.3	23
84	Combining CrIS double CO₂ bands for detecting clouds located in different layers of the atmosphere. Journal of Geophysical Research D: Atmospheres, 2017, 122, 1811-1827.	3.3	23
85	Microwave measurements produce global climatic, hydrologic data. Eos, 1994, 75, 337.	0.1	22
86	Comparison between linear and nonlinear trends in NOAA-15 AMSU-A brightness temperatures during 1998â€“2010. Climate Dynamics, 2012, 39, 1763-1779.	3.8	22
87	THE JOINT CENTER FOR SATELLITE DATA ASSIMILATION. Bulletin of the American Meteorological Society, 2007, 88, 329-340.	3.3	21
88	A New Sea-Ice Concentration Algorithm Based on Microwave Surface Emissivitiesâ€”Application to AMSU Measurements. IEEE Transactions on Geoscience and Remote Sensing, 2011, 49, 175-189.	6.3	21
89	Intercalibration and Validation of Observations From ATMS and SAPHIR Microwave Sounders. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 5915-5925.	6.3	21
90	Evaluation of cloud properties from reanalyses over East Asia with a radiance-based approach. Atmospheric Measurement Techniques, 2020, 13, 1033-1049.	3.1	21

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91	Performance and Calibration of the Nadir Suomi-NPP Ozone Mapping Profiler Suite From Early-Orbit Images. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2013, 6, 1539-1551.	4.9	20
92	Hourly PM2.5 Estimates from a Geostationary Satellite Based on an Ensemble Learning Algorithm and Their Spatiotemporal Patterns over Central East China. Remote Sensing, 2019, 11, 2120.	4.0	20
93	Assessments of FY-3A Microwave Humidity Sounder measurements using NOAA-18 Microwave Humidity Sounder. Journal of Geophysical Research, 2011, 116, .	3.3	19
94	Uncertainty of AMSU-A derived temperature trends in relationship with clouds and precipitation over ocean. Climate Dynamics, 2014, 43, 1439-1448.	3.8	19
95	Impacts from assimilation of one data stream of <scp>AMSUâ€A</scp> and <scp>MHS</scp> radiances on quantitative precipitation forecasts. Quarterly Journal of the Royal Meteorological Society, 2017, 143, 731-743.	2.7	19
96	Estimation of Hurricane Maximum Wind Speed Using Temperature Anomaly Derived From Advanced Technology Microwave Sounder. IEEE Geoscience and Remote Sensing Letters, 2018, 15, 639-643.	3.1	19
97	Effects of dust storms on microwave radiation based on satellite observation and model simulation over the Taklamakan desert. Atmospheric Chemistry and Physics, 2008, 8, 4903-4909.	4.9	18
98	Long-Term Monitoring and Correction of FY-2 Infrared Channel Calibration Using AIRS and IASI. IEEE Transactions on Geoscience and Remote Sensing, 2013, 51, 5008-5018.	6.3	18
99	Applications of AMSR-E measurements for tropical cyclone predictions Part I: Retrieval of Sea Surface Temperature and Wind speed. Advances in Atmospheric Sciences, 2008, 25, 227-245.	4.3	17
100	Validation of ATMS Calibration Accuracy Using Suomi NPP Pitch Maneuver Observations. Remote Sensing, 2016, 8, 332.	4.0	17
101	Corrections for On-Orbit ATMS Lunar Contamination. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 1918-1924.	6.3	17
102	Use of a One-Dimensional Variational Retrieval to Diagnose Estimates of Infrared and Microwave Surface Emissivity Over Land for ATOVS Sounding Instruments. IEEE Transactions on Geoscience and Remote Sensing, 2008, 46, 393-402.	6.3	16
103	Detection of Television Frequency Interference with Satellite Microwave Imager Observations over Oceans. Journal of Atmospheric and Oceanic Technology, 2014, 31, 2759-2776.	1.3	16
104	Developing Vicarious Calibration for Microwave Sounding Instruments Using Lunar Radiation. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 6723-6733.	6.3	16
105	Effects of Microwave Desert Surface Emissivity on AMSU-A Data Assimilation. IEEE Transactions on Geoscience and Remote Sensing, 2011, 49, 1263-1276.	6.3	15
106	Inter-comparison of NPP/CrIS radiances with VIIRS, AIRS, and IASI: a post-launch calibration assessment. Proceedings of SPIE, 2012, , .	0.8	15
107	Errors from Rayleighâ€"Jeans approximation in satellite microwave radiometer calibration systems. Applied Optics, 2013, 52, 505.	1.8	15
108	Characterization of geolocation accuracy of Suomi NPP Advanced Technology Microwave Sounder measurements. Journal of Geophysical Research D: Atmospheres, 2016, 121, 4933-4950.	3.3	15

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109	An Assessment of the FY-3A Microwave Temperature Sounder Using the NCEP Numerical Weather Prediction Model. IEEE Transactions on Geoscience and Remote Sensing, 2012, 50, 4860-4874.	6.3	14
110	Community radiative transfer model for radiance assimilation and applications. , 2012, , .		14
111	Satellite observation of atmospheric methane: intercomparison between AIRS and GOSAT TANSO-FTS retrievals. Atmospheric Measurement Techniques, 2016, 9, 3567-3576.	3.1	14
112	Impacts of assimilating all or GOES-like AHI infrared channels radiances on QPFs over Eastern China. Tellus, Series A: Dynamic Meteorology and Oceanography, 2022, 69, 1345265.	1.7	14
113	Spectral Performance and Calibration of the Suomi NPP OMPS Nadir Profiler Sensor. Earth and Space Science, 2017, 4, 737-745.	2.6	14
114	A multi-layer discrete-ordinate method for vector radiative transfer in a vertically-inhomogeneous, emitting and scattering atmosphereâ€"II. Application. Journal of Quantitative Spectroscopy and Radiative Transfer, 1992, 47, 35-42.	2.3	13
115	Microwave scattering properties of sand particles: Application to the simulation of microwave radiances over sandstorms. Journal of Quantitative Spectroscopy and Radiative Transfer, 2008, 109, 684-702.	2.3	13
116	Striping in the Suomi NPP VIIRS Thermal Bands through Anisotropic Surface Reflection. Journal of Atmospheric and Oceanic Technology, 2013, 30, 2478-2487.	1.3	13
117	Potential Applications of Small Satellite Microwave Observations for Monitoring and Predicting Global Fast-Evolving Weathers. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2017, 10, 2441-2451.	4.9	13
118	NOAA satellite-derived hydrological products prove their worth. Eos, 2002, 83, 429.	0.1	12
119	Detecting the warm core of a hurricane from the Special Sensor Microwave Imager Sounder. Geophysical Research Letters, 2006, 33, .	4.0	12
120	Community Radiative Transfer Model for Stratospheric Sounding Unit. Journal of Atmospheric and Oceanic Technology, 2011, 28, 767-778.	1.3	12
121	Retrieval of Cloud Ice Water Path from Special Sensor Microwave Imager/Sounder (SSMIS). Journal of Applied Meteorology and Climatology, 2012, 51, 366-379.	1.5	12
122	Using Advanced Matrix Operator (AMOM) in Community Radiative Transfer Model. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2013, 6, 1211-1218.	4.9	12
123	Recent Stratospheric Temperature Observed from Satellite Measurements. Scientific Online Letters on the Atmosphere, 2009, 5, 53-56.	1.4	12
124	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
125	Detection of Earth-rotation Doppler shift from Suomi National Polar-Orbiting Partnership Cross-Track Infrared Sounder. Applied Optics, 2013, 52, 6250.	1.8	11
126	Increasing vertical resolution in US models to improve track forecasts of Hurricane Joaquin with HWRF as an example. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 11765-11769.	7.1	11

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127	Remote Sensing of Tropical Cyclone Thermal Structure from Satellite Microwave Sounding Instruments: Impacts of Background Profiles on Retrievals. Journal of Meteorological Research, 2019, 33, 89-103.	2.4	11
128	Radiance assimilation in studying Hurricane Katrina. Geophysical Research Letters, 2006, 33, .	4.0	10
129	Reanalysis of western Pacific typhoons in 2004 with multi-satellite observations. Meteorology and Atmospheric Physics, 2007, 97, 3-18.	2.0	10
130	Assessments of F16 Special Sensor Microwave Imager and Sounder Antenna Temperatures at Lower Atmospheric Sounding Channels. Advances in Meteorology, 2009, 2009, 1-18.	1.6	10
131	Synthetic radiance simulation and evaluation for a Joint Observing System Simulation Experiment. Journal of Geophysical Research, 2012, 117, .	3.3	10
132	Effects of Ice Decontamination on GOES-12 Imager Calibration. IEEE Transactions on Geoscience and Remote Sensing, 2013, 51, 1224-1230.	6.3	10
133	Verification of Fengyun-3D MWTS and MWHS Calibration Accuracy Using GPS Radio Occultation Data. Journal of Meteorological Research, 2019, 33, 695-704.	2.4	10
134	Impact of Assimilating FY-3D MWTS-2 Upper Air Sounding Data on Forecasting Typhoon Lekima (2019). Remote Sensing, 2021, 13, 1841.	4.0	10
135	Reference-Quality Emission and Backscatter Modeling for the Ocean. Bulletin of the American Meteorological Society, 2020, 101, E1593-E1601.	3.3	10
136	Global cloud water distribution derived from special sensor microwave imager/sounder and its comparison with GCM simulation. Advances in Space Research, 1997, 19, 407-411.	2.6	9
137	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
138	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
139	Satellite data assimilation of upper-level sounding channels in HWRF with two different model tops. Journal of Meteorological Research, 2015, 29, 1-27.	2.4	9
140	Discrete Ordinate Adding Method (DOAM), a new solver for Advanced Radiative transfer Modeling System (ARMS). Optics Express, 2021, 29, 4700.	3.4	9
141	Impact of hematite on dust absorption at wavelengths ranging from 0.2 to 1.0 Âµm: an evaluation of literature data using the T-matrix method. Optics Express, 2021, 29, 17405.	3.4	9
142	SI traceable algorithm for characterizing hyperspectral infrared sounder CrIS noise. Applied Optics, 2015, 54, 7889.	2.1	8
143	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
144	Remote Sensing of Tropical Cyclone Thermal Structure from Satellite Microwave Sounding Instruments: Impacts of Optimal Channel Selection on Retrievals. Journal of Meteorological Research, 2018, 32, 804-818.	2.4	8

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145	A Multivariable Approach for Estimating Soil Moisture from Microwave Radiation Imager (MWRI). Journal of Meteorological Research, 2020, 34, 732-747.	2.4	8
146	Uses of NOAA-16 and -18 Satellite Measurements for Verifying the Limb-Correction Algorithm. Journal of Applied Meteorology and Climatology, 2007, 46, 544-548.	1.5	7
147	Connecting the Time Series of Microwave Sounding Observations from AMSU to ATMS for Long-Term Monitoring of Climate. Journal of Atmospheric and Oceanic Technology, 2014, 31, 2206-2222.	1.3	7
148	30-Year atmospheric temperature record derived by one-dimensional variational data assimilation of MSU/AMSU-A observations. Climate Dynamics, 2014, 43, 1857-1870.	3.8	7
149	Modeling Land Surface Roughness Effect on Soil Microwave Emission in Community Surface Emissivity Model. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 1716-1726.	6.3	7
150	Multisource Assessments of the FengYun-3D Microwave Humidity Sounder (MWHS) On-Orbit Performance. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 7258-7268.	6.3	7
151	Microwave Emissivity Over Ocean in All-Weather Conditions: Validation Using WINDSAT and Airborne GPS Dropsondes. IEEE Transactions on Geoscience and Remote Sensing, 2008, 46, 376-384.	6.3	6
152	Recent Improvements to Suomi NPP Ozone Mapper Profiler Suite Nadir Mapper Sensor Data Records. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 5770-5776.	6.3	6
153	Suomi-NPP VIIRS initial reprocessing improvements and validations in the reflective solar bands (RSBs). , 2017, , .		6
154	Assessment of Suomi National Polar-Orbiting Partnership VIIRS Emissive Band Calibration and Inter-Sensor Comparisons. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2013, 6, 1737-1748.	4.9	5
155	S-NPP advanced technology microwave sounder: Reflector emissivity model, mitigation, & verification. , 2013, , .		5
156	Evaluation of the impact of a new quality control method on assimilation of CrIS data in HWRF-GSI. , 2014, , .		5
157	Applications of an AMSR-E RFI detection and correction algorithm in 1-DVAR over land. Journal of Meteorological Research, 2014, 28, 645-655.	2.4	5
158	Dependence of Simulation Biases at AHI Surface-Sensitive Channels on Land Surface Emissivity over China. Journal of Atmospheric and Oceanic Technology, 2018, 35, 1283-1298.	1.3	5
159	Advanced Technology Microwave Sounder. , 2006, , 243-253.		5
160	The Long-Term Trend of Upper-Air Temperature in China Derived from Microwave Sounding Data and Its Comparison with Radiosonde Observations. Journal of Climate, 2020, 33, 7875-7895.	3.2	5
161	Ten-year (1993-2002) time-series of microwave land emissivity. , 2003, , .		4
162	Intersatellite calibration of polar-orbiting radiometers using the SNO/SCO method. , 0, , .		4

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