Tim J Hewison

List of Publications by Year
in descending order

42 papers	1,649 citations	430874 18 h-index	361022 35 g-index
44 all docs	44 docs citations	44 times ranked	1759 citing authors

#	Article	IF	Citations
1	Overview of Intercalibration of Satellite Instruments. IEEE Transactions on Geoscience and Remote Sensing, 2013, 51, 1056-1080.	6.3	188
2	The 30 year TAMSAT African Rainfall Climatology And Time series (TARCAT) data set. Journal of Geophysical Research D: Atmospheres, 2014, 119, 10,619.	3.3	178
3	Temperature and humidity profile retrievals from ground-based microwave radiometers during TUC. Meteorologische Zeitschrift, 2006, 15, 45-56.	1.0	112
4	The Convective Storm Initiation Project. Bulletin of the American Meteorological Society, 2007, 88, 1939-1956.	3.3	110
5	The radiometric characterization of AMSU-B. IEEE Transactions on Microwave Theory and Techniques, 1995, 43, 760-771.	4.6	109
6	GSICS Inter-Calibration of Infrared Channels of Geostationary Imagers Using Metop/IASI. IEEE Transactions on Geoscience and Remote Sensing, 2013, 51, 1160-1170.	6.3	107
7	The Global Space-Based Inter-Calibration System. Bulletin of the American Meteorological Society, 2011, 92, 467-475.	3.3	105
8	Airborne retrievals of snow and ice surface emissivity at millimeter wavelengths. IEEE Transactions on Geoscience and Remote Sensing, 1999, 37, 1871-1879.	6.3	92
9	<title>Fast generic millimeter-wave emissivity model</title>. , 1998, , .		87
10	1D-VAR Retrieval of Temperature and Humidity Profiles From a Ground-Based Microwave Radiometer. IEEE Transactions on Geoscience and Remote Sensing, 2007, 45, 2163-2168.	6.3	83
11	Airborne measurements of forest and agricultural land surface emissivity at millimeter wavelengths. IEEE Transactions on Geoscience and Remote Sensing, 2001, 39, 393-400.	6.3	57
12	Monitoring Satellite Radiance Biases Using NWP Models. IEEE Transactions on Geoscience and Remote Sensing, 2013, 51, 1124-1138.	6.3	47
13	Validating clear air absorption models using ground-based microwave radiometers and vice-versa. Meteorologische Zeitschrift, 2006, 15, 27-36.	1.0	43
14	Measuring the Accuracy of MARSSâ€"An Airborne Microwave Radiometer. Journal of Atmospheric and Oceanic Technology, 2001, 18, 2003-2012.	1.3	39
15	Measurements of the AMSU-B antenna pattern. IEEE Transactions on Geoscience and Remote Sensing, 1996, 34, 405-412.	6.3	32
16	An Evaluation of the Uncertainty of the GSICS SEVIRI-IASI Intercalibration Products. IEEE Transactions on Geoscience and Remote Sensing, 2013, 51, 1171-1181.	6.3	26
17	Satellite observations of the microwave emissivity of a semi-arid land surface. Remote Sensing of Environment, 2001, 77, 149-164.	11.0	23
18	Ice Contamination of Meteosat/SEVIRI Implied by Intercalibration Against Metop/IASI. IEEE Transactions on Geoscience and Remote Sensing, 2013, 51, 1182-1186.	6.3	23

#	Article	IF	Citations
19	The Estimation of Land Surface Emissivities at 24 GHz to 157 GHz Using Remotely Sensed Aircraft Data. Remote Sensing of Environment, 2000, 73, 323-336.	11.0	19
20	Intercomparison of integrated water vapour measurements. Meteorologische Zeitschrift, 2006, 15, 57-64.	1.0	19
21	Comparison of In Situ Humidity Data from Aircraft, Dropsonde, and Radiosonde. Journal of Atmospheric and Oceanic Technology, 2004, 21, 921-932.	1.3	17
22	Combining UHF radar wind profiler and microwave radiometer for the estimation of atmospheric humidity profiles. Meteorologische Zeitschrift, 2006, 15, 87-97.	1.0	17
23	Water vapour line and continuum absorption in the thermal infraredâ€"reconciling models and observations. Quarterly Journal of the Royal Meteorological Society, 2003, 129, 2949-2969.	2.7	15
24	Comparison of brightness temperatures observed from ground-based microwave radiometers during TUC. Meteorologische Zeitschrift, 2006, 15, 19-25.	1.0	15
25	Aircraft validation of clear air absorption models at millimeter wavelengths (89â€"183 GHz). Journal of Geophysical Research, 2006, 111, .	3.3	12
26	GSICS GEO-LEO intercalibration: baseline algorithm and early results. Proceedings of SPIE, 2009, , .	0.8	12
27	On the Methods for Recalibrating Geostationary Longwave Channels Using Polar Orbiting Infrared Sounders. Remote Sensing, 2019, 11, 1171.	4.0	11
28	Extending the Global Space-Based Inter-Calibration System (GSICS) to Tie Satellite Radiances to an Absolute Scale. Remote Sensing, 2020, 12, 1782.	4.0	8
29	Validation of total water vapor retrieval with an airborne millimeter wave radiometer over Arctic sea ice. Radio Science, 2003, 38, n/a-n/a.	1.6	7
30	Recalibration of over 35 Years of Infrared and Water Vapor Channel Radiances of the JMA Geostationary Satellites. Remote Sensing, 2019, 11, 1189.	4.0	7
31	Ten Years of Satellite Infrared Radiance Monitoring With the Met Office NWP Model. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 4561-4569.	6.3	7
32	Convection forced by a descending dry layer and low-level moist convergence. Tellus, Series A: Dynamic Meteorology and Oceanography, 2022, 61, 250.	1.7	6
33	Meteosat SEVIRI Performance Characterisation and Calibration with Dedicated Moon/Sun/Deep-space Scans. , 2016, , .		4
34	Inter-calibration of METEOSAT IR and WV channels using HIRS. AIP Conference Proceedings, 2013, , .	0.4	3
35	Foreword to the Special Issue on Intercalibration of Satellite Instruments. IEEE Transactions on Geoscience and Remote Sensing, 2013, 51, 1052-1055.	6.3	3
36	Comparison of observed and simulated microwave land surface emissivities over bare soil. Meteorologische Zeitschrift, 2002, 11, 5-12.	1.0	2

#	Article	IF	Citations
37	Ice contamination of Meteosat/SEVIRI IR13.4 channel implied by Inter-Calibration against Metop/IASI. , 2012, , .		1
38	An Adaptive Calibration Window for Noise Reduction of Satellite Microwave Radiometers. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-16.	6.3	1
39	<title>Radiometric characterization of AMSU-B</title>. , 1993, , .		0
40	Measurement of microwave emissivities of arid and verdant land types in the Crau-Camargue region of France. , 1997, 3220, 136.		0
41	Temporal and spatial variability in Meteosat/SEVIRI images for the Global Space-based Inter-Calibration System (GSICS). , 2012, , .		0
42	Convection forced by a descending dry layer and low-level moist convergence. Tellus, Series A: Dynamic Meteorology and Oceanography, 2009, , .	1.7	0