

Ralph R Ferraro

List of Publications by Year in descending order

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109321

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113
all docs

113
docs citations

113
times ranked

9032
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	A Study of Two Impactful Heavy Rainfall Events in the Southern Appalachian Mountains during Early 2020, Part I; Societal Impacts, Synoptic Overview, and Historical Context. Remote Sensing, 2021, 13, 2452.	4.0	3
3	A Study of Two Impactful Heavy Rainfall Events in the Southern Appalachian Mountains During Early 2020, Part II; Regional Overview, Rainfall Evolution, and Satellite QPE Utility. Remote Sensing, 2021, 13, 2500.	4.0	1
4	Inter-Calibration of AMSU-A Window Channels. Remote Sensing, 2020, 12, 2988.	4.0	1
5	Ground-based Assessment of Snowfall Detection over Land Using Polarimetric High Frequency Microwave Measurements. Remote Sensing, 2020, 12, 3441.	4.0	2
6	Raindrop Signature from Microwave Radiometer Over Deserts. Geophysical Research Letters, 2020, 47, e2020GL088656.	4.0	2
7	A New Method for Hail Detection from the GPM Constellation: A Prospect for a Global Hailstorm Climatology. Remote Sensing, 2020, 12, 3553.	4.0	13
8	Performance of Radiative Transfer Models in the Microwave Region. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2019JD031831.	3.3	12
9	Comparison of TRMM Microwave Imager Rainfall Datasets from NASA and JAXA. Journal of Hydrometeorology, 2020, 21, 377-397.	1.9	6
10	Hailstorm Detection by Satellite Microwave Radiometers. Remote Sensing, 2020, 12, 621.	4.0	21
11	Intercomparison and Validation of MIRS, MSPPS, and IMS Snow Cover Products. Advances in Meteorology, 2020, 2020, 1-10.	1.6	7
12	Microwave Sensors, Imagers and Sounders. Advances in Global Change Research, 2020, , 63-81.	1.6	7
13	A 1DVAR-Based Snowfall Rate Algorithm for Passive Microwave Radiometers. Advances in Global Change Research, 2020, , 297-313.	1.6	2
14	An Operational Satellite Snowfall Rate Product at NOAA. , 2020, , .		0
15	Enhancing PMW Satellite Precipitation Estimation: Detecting Convective Class. Journal of Atmospheric and Oceanic Technology, 2019, 36, 2349-2363.	1.3	16
16	JPSS Precipitation Products in the Hydrology Initiative. , 2019, , .		0
17	A hybrid snowfall detection method from satellite passive microwave measurements and global forecast weather models. Quarterly Journal of the Royal Meteorological Society, 2018, 144, 120-132.	2.7	8
18	Radiometric correction of observations from microwave humidity sounders. Atmospheric Measurement Techniques, 2018, 11, 6617-6626.	3.1	4

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19	The AMSU-Based Hydrological Bundle Climate Data Recordâ€™Description and Comparison with Other Data Sets. Remote Sensing, 2018, 10, 1640.	4.0	8
20	The Global Precipitation Climatology Project (GPCP) Monthly Analysis (New Version 2.3) and a Review of 2017 Global Precipitation. Atmosphere, 2018, 9, 138.	2.3	494
21	The Instantaneous Retrieval of Precipitation Over Land by Temporal Variation at 19ÂGHz. Journal of Geophysical Research D: Atmospheres, 2018, 123, 9279-9295.	3.3	6
22	Quantifying the Snowfall Detection Performance of the GPM Microwave Imager Channels over Land. Journal of Hydrometeorology, 2017, 18, 729-751.	1.9	55
23	Application of GCOM-W AMSR2 and S-NPP ATMS Hydrological Products to a Flooding Event in the United States. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2017, 10, 3884-3891.	4.9	5
24	Classifying Urban Rainfall Extremes Using Weather Radar Data: An Application to the Greater New York Area. Journal of Hydrometeorology, 2017, 18, 611-623.	1.9	16
25	A 1DVARâ€based snowfall rate retrieval algorithm for passive microwave radiometers. Journal of Geophysical Research D: Atmospheres, 2017, 122, 6520-6540.	3.3	56
26	An overview of NOAA's GCOM-W1/AMSR-2 product processing and utilization. , 2017, , .		0
27	Use of AMSR-E microwave satellite data for land surface characteristics and snow cover variation. Data in Brief, 2016, 9, 1077-1089.	1.0	1
28	Requirements for a robust precipitation constellation. , 2016, , .		6
29	A Prototype Precipitation Retrieval Algorithm over Land for ATMS. Journal of Hydrometeorology, 2016, 17, 1601-1621.	1.9	22
30	Superensemble Statistical Forecasting of Monthly Precipitation over the Contiguous United States, with Improvements from Ocean-Area Precipitation Predictors. Journal of Hydrometeorology, 2016, 17, 2699-2711.	1.9	1
31	Diurnal variation of tropospheric relative humidity in tropical regions. Atmospheric Chemistry and Physics, 2016, 16, 6913-6929.	4.9	24
32	Precipitation From the Advanced Microwave Scanning Radiometer 2. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2016, 9, 2611-2618.	4.9	11
33	A snowfall detection algorithm over land utilizing highâ€frequency passive microwave measurementsâ€™Application to ATMS. Journal of Geophysical Research D: Atmospheres, 2015, 120, 1918-1932.	3.3	33
34	The Evolution of the Goddard Profiling Algorithm to a Fully Parametric Scheme. Journal of Atmospheric and Oceanic Technology, 2015, 32, 2265-2280.	1.3	254
35	A prototype precipitation retrieval algorithm over land using passive microwave observations stratified by surface condition and precipitation vertical structure. Journal of Geophysical Research D: Atmospheres, 2015, 120, 5295-5315.	3.3	33
36	Accounting for surface ice and snow in the goddard profiling algorithm rain rate retrievals. , 2015, , .		0

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37	A prototype hail detection algorithm and hail climatology developed with the advanced microwave sounding unit (AMSU). Atmospheric Research, 2015, 163, 24-35.	4.1	52
38	Satellite tools to monitor and predict Hurricane Sandy (2012): Current and emerging products. Atmospheric Research, 2015, 166, 165-181.	4.1	6
39	Updated Screening Procedures for GPROF2010 over Land: Utilization for AMSR-E. Journal of Atmospheric and Oceanic Technology, 2015, 32, 1015-1028.	1.3	8
40	Retrieving Layer-Averaged Tropospheric Humidity From Advanced Technology Microwave Sounder Water Vapor Channels. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 6675-6688.	6.3	7
41	The Influence of Surface and Precipitation Characteristics on TRMM Microwave Imager Rainfall Retrieval Uncertainty. Journal of Hydrometeorology, 2015, 16, 1596-1614.	1.9	34
42	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
43	Global Land Cover Classification Based on Microwave Polarization and Gradient Ratio (MPGR). Lecture Notes in Geoinformation and Cartography, 2015, , 17-37.	1.0	10
44	The CrIMSS EDR Algorithm: Characterization, Optimization, and Validation. Journal of Geophysical Research D: Atmospheres, 2014, 119, 4953-4977.	3.3	31
45	Rainfall. Encyclopedia of Earth Sciences Series, 2014, , 640-653.	0.1	0
46	Satellite Observations of North American Climate Change. Regional Climate Studies, 2014, , 95-165.	1.2	3
47	Cross-Scan Asymmetry of AMSU-A Window Channels: Characterization, Correction, and Verification. IEEE Transactions on Geoscience and Remote Sensing, 2013, 51, 1514-1530.	6.3	11
48	Evaluating Instrumental Inhomogeneities in Global Radiosonde Upper Tropospheric Humidity Data Using Microwave Satellite Data. IEEE Transactions on Geoscience and Remote Sensing, 2013, 51, 3615-3624.	6.3	9
49	Correcting Geolocation Errors for Microwave Instruments Aboard NOAA Satellites. IEEE Transactions on Geoscience and Remote Sensing, 2013, 51, 3625-3637.	6.3	35
50	An Evaluation of Microwave Land Surface Emissivities Over the Continental United States to Benefit GPM-Era Precipitation Algorithms. IEEE Transactions on Geoscience and Remote Sensing, 2013, 51, 378-398.	6.3	95
51	The Performance of Hydrological Monthly Products Using SSM/I/Sensors. Journal of Hydrometeorology, 2013, 14, 266-274.	1.9	8
52	Assessing the quality of humidity measurements from global operational radiosonde sensors. Journal of Geophysical Research D: Atmospheres, 2013, 118, 8040-8053.	3.3	43
53	Northern Hemisphere Snow Variations with Season and Elevation Using GIS and AMSR-E Data. Journal of Earth Science & Climatic Change, 2013, s12, .	0.2	4
54	Global Precipitation Monitoring. , 2013, , 81-93.		0

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55	A study of warm rain detection using A-Train satellite data. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	35
56	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
57	A New Sea-Ice Concentration Algorithm Based on Microwave Surface Emissivities Application to AMSU Measurements. IEEE Transactions on Geoscience and Remote Sensing, 2011, 49, 175-189.	6.3	21
58	Prototyping a Generic, Unified Land Surface Classification and Screening Methodology for GPM-Era Microwave Land Precipitation Retrieval Algorithms. Journal of Applied Meteorology and Climatology, 2011, 50, 1200-1211.	1.5	7
59	The Fourth International Precipitation Working Group Workshop. Bulletin of the American Meteorological Society, 2010, 91, 1095-1099.	3.3	17
60	Improved Global Rainfall Retrieval Using the Special Sensor Microwave Imager (SSM/I). Journal of Applied Meteorology and Climatology, 2010, 49, 1032-1043.	1.5	12
61	Status of the TRMM 2A12 Land Precipitation Algorithm. Journal of Atmospheric and Oceanic Technology, 2010, 27, 1343-1354.	1.3	98
62	TRMM 2A12 Land Precipitation Product - Status and Future Plans. Journal of the Meteorological Society of Japan, 2009, 87A, 237-253.	1.8	79
63	A New High-Resolution Satellite-Derived Precipitation Dataset for Climate Studies. Journal of Hydrometeorology, 2009, 10, 935-952.	1.9	27
64	Satellite Precipitation Measurements for Water Resource Monitoring. Journal of the American Water Resources Association, 2009, 45, 567-579.	2.4	46
65	Studying the vertical variation of cloud droplet effective radius using ship and spaceborne remote sensing data. Journal of Geophysical Research, 2008, 113, .	3.3	49
66	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
67	International Global Precipitation Measurement (GPM) Program and Mission: An Overview. , 2007, , 611-653.		100
68	Utilization of the AMSU high frequency measurements for improved coastal rain retrievals. Geophysical Research Letters, 2007, 34, .	4.0	12
69	Evaluation and improvement of AMSU precipitation retrievals. Journal of Geophysical Research, 2007, 112, .	3.3	50
70	Evaluating the potential of a blended passive microwave-interactive multi-sensor product for improved mapping of snow cover and estimations of snow water equivalent. Hydrological Processes, 2007, 21, 1597-1607.	2.6	15
71	Past, Present and Future of Microwave Operational Rainfall Algorithms. , 2007, , 189-198.		4
72	The Global Precipitation Climatology Project. , 2007, , 25-35.		2

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73	A Comparison of Total Precipitable Water between Reanalyses and NVAP. <i>Journal of Climate</i> , 2005, 18, 1790-1807.	3.2	29
74	The Tropical Rainfall Potential (TRaP) Technique. Part II: Validation. <i>Weather and Forecasting</i> , 2005, 20, 465-475.	1.4	20
75	Microwave Rainfall Estimation over Coasts. <i>Journal of Atmospheric and Oceanic Technology</i> , 2005, 22, 497-512.	1.3	38
76	The Tropical Rainfall Potential (TRaP) Technique. Part I: Description and Examples. <i>Weather and Forecasting</i> , 2005, 20, 456-464.	1.4	62
77	The Improved AMSU Rain-Rate Algorithm and Its Evaluation for a Cool Season Event in the Western United States. <i>Weather and Forecasting</i> , 2005, 20, 761-774.	1.4	16
78	NOAA operational hydrological products derived from the advanced microwave sounding unit. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2005, 43, 1036-1049.	6.3	179
79	Interpretation of AMSU microwave measurements for the retrievals of snow water equivalent and snow depth. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	20
80	Satellite-Based Climatologies Related to the Water Cycle. , 2004, , .		1
81	<title>The current status of passive microwave precipitation retrievals at NOAA/NESDIS</title>. , 2004, , .		0
82	Next generation of NOAA/NESDIS TMI, SSM/I, and AMSR-E microwave land rainfall algorithms. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	94
83	Advanced microwave sounding unit cloud and precipitation algorithms. <i>Radio Science</i> , 2003, 38, n/a-n/a.	1.6	261
84	A new snowfall detection algorithm over land using measurements from the Advanced Microwave Sounding Unit (AMSU). <i>Geophysical Research Letters</i> , 2003, 30, .	4.0	74
85	The Version-2 Global Precipitation Climatology Project (GPCP) Monthly Precipitation Analysis (1979â€“Present). <i>Journal of Hydrometeorology</i> , 2003, 4, 1147-1167.	1.9	4,508
86	Rainfall algorithms for AMSR-E. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2003, 41, 204-214.	6.3	118
87	GPCP Pentad Precipitation Analyses: An Experimental Dataset Based on Gauge Observations and Satellite Estimates. <i>Journal of Climate</i> , 2003, 16, 2197-2214.	3.2	340
88	Results from AMSR-E and Version 6 TMI microwave land rainfall estimation algorithms. , 2003, 4894, 150.		0
89	Evaluation of Biases of Satellite Rainfall Estimation Algorithms over the Continental United States. <i>Journal of Applied Meteorology and Climatology</i> , 2002, 41, 1065-1080.	1.7	96
90	Detailed analysis of the error associated with the rainfall retrieved by the NOAA/NESDIS Special Sensor Microwave/Imager algorithm 2. Rainfall over land. <i>Journal of Geophysical Research</i> , 2002, 107, ACL 9-1-ACL 9-7.	3.3	10

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91	NOAA satellite-derived hydrological products prove their worth. <i>Eos</i> , 2002, 83, 429.	0.1	12
92	Determination of precipitable water and cloud liquid water over oceans from the NOAA 15 advanced microwave sounding unit. <i>Journal of Geophysical Research</i> , 2001, 106, 2943-2953.	3.3	115
93	Using the Special Sensor Microwave Imager to Monitor Surface Wetness. <i>Journal of Hydrometeorology</i> , 2001, 2, 297-308.	1.9	51
94	Adequacy of Using a 1/3-Degree Special Sensor Microwave Imager Dataset to Estimate Climate-Scale Rainfall. <i>Journal of Applied Meteorology and Climatology</i> , 2000, 39, 680-685.	1.7	3
95	Precipitation characteristics over land from the NOAA-15 AMSU sensor. <i>Geophysical Research Letters</i> , 2000, 27, 2669-2672.	4.0	100
96	Estimation of midlatitude rainfall parameters from satellite microwave radiometers using the area-time integral concept. <i>Radio Science</i> , 1998, 33, 317-333.	1.6	3
97	Detailed analysis of the error associated with the rainfall retrieved by the NOAA/NESDIS SSM/I algorithm: 1. Tropical oceanic rainfall. <i>Journal of Geophysical Research</i> , 1998, 103, 11419-11427.	3.3	15
98	A Screening Methodology for Passive Microwave Precipitation Retrieval Algorithms. <i>Journals of the Atmospheric Sciences</i> , 1998, 55, 1583-1600.	1.7	152
99	An Assessment of the First- and Second-Generation Navy Operational Precipitation Retrieval Algorithms. <i>Journals of the Atmospheric Sciences</i> , 1998, 55, 1558-1575.	1.7	21
100	Cloud Liquid Water Climatology from the Special Sensor Microwave/Imager. <i>Journal of Climate</i> , 1997, 10, 1086-1098.	3.2	67
101	Special sensor microwave imager derived global rainfall estimates for climatological applications. <i>Journal of Geophysical Research</i> , 1997, 102, 16715-16735.	3.3	242
102	The Global Precipitation Climatology Project (GPCP) Combined Precipitation Dataset. <i>Bulletin of the American Meteorological Society</i> , 1997, 78, 5-20.	3.3	1,521
103	A Comparison between Snow Cover Products Derived from Visible and Microwave Satellite Observation. <i>Journal of Applied Meteorology and Climatology</i> , 1996, 35, 163-177.	1.7	50
104	An Eight-Year (1987-1994) Time Series of Rainfall, Clouds, Water Vapor, Snow Cover, and Sea Ice Derived from SSM/I Measurements. <i>Bulletin of the American Meteorological Society</i> , 1996, 77, 891-905.	3.3	227
105	The Development of SSM/I Rain-Rate Retrieval Algorithms Using Ground-Based Radar Measurements. <i>Journal of Atmospheric and Oceanic Technology</i> , 1995, 12, 755-770.	1.3	237
106	Estimating the Probability of Rain in an SSM/I FOV Using Logistic Regression. <i>Journal of Applied Meteorology and Climatology</i> , 1995, 34, 2476-2480.	1.7	11
107	Microwave measurements produce global climatic, hydrologic data. <i>Eos</i> , 1994, 75, 337.	0.1	22
108	Global precipitation estimations using Defense Meteorological Satellite Program F10 and F11 special sensor microwave imager data. <i>Journal of Geophysical Research</i> , 1994, 99, 14493.	3.3	41

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109	Effects of surface conditions on rain identification using the DMSP/SSM/I. International Journal of Remote Sensing, 1994, 11, 195-209.	1.0	107
110	Inference of Oceanic Rainfall Properties from the Nimbus 7 SMMR. Journal of Applied Meteorology and Climatology, 1990, 29, 551-560.	1.7	6
111	Classification of Geophysical Parameters Using Passive Microwave Satellite Measurements. IEEE Transactions on Geoscience and Remote Sensing, 1986, GE-24, 1008-1013.	6.3	36