

Frank Marzano

List of Publications by Year in descending order

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285
papers

4,227
citations

147566

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197535

49
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310
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310
docs citations

310
times ranked

2721
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | HyMeX-SOP1: The Field Campaign Dedicated to Heavy Precipitation and Flash Flooding in the Northwestern Mediterranean. <i>Bulletin of the American Meteorological Society</i> , 2014, 95, 1083-1100. | 1.7 | 262 |
| 2 | On the Use of Dual-Polarized C-Band Radar for Operational Rainfall Retrieval in Mountainous Areas. <i>Journal of Applied Meteorology and Climatology</i> , 2012, 51, 405-425. | 0.6 | 113 |
| 3 | Temperature and humidity profile retrievals from ground-based microwave radiometers during TUC. <i>Meteorologische Zeitschrift</i> , 2006, 15, 45-56. | 0.5 | 112 |
| 4 | Use of Cloud Model Microphysics for Passive Microwave-Based Precipitation Retrieval: Significance of Consistency between Model and Measurement Manifolds. <i>Journals of the Atmospheric Sciences</i> , 1998, 55, 1644-1673. | 0.6 | 107 |
| 5 | Volcanic Ash Cloud Retrieval by Ground-Based Microwave Weather Radar. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2006, 44, 3235-3246. | 2.7 | 95 |
| 6 | Bayesian estimation of precipitating cloud parameters from combined measurements of spaceborne microwave radiometer and radar. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 1999, 37, 596-613. | 2.7 | 92 |
| 7 | Multivariate statistical integration of Satellite infrared and microwave radiometric measurements for rainfall retrieval at the geostationary scale. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2004, 42, 1018-1032. | 2.7 | 71 |
| 8 | A Neural Networks-Based Fusion Technique to Estimate Half-Hourly Rainfall Estimates at 0.1° Resolution from Satellite Passive Microwave and Infrared Data. <i>Journal of Applied Meteorology and Climatology</i> , 2004, 43, 576-594. | 1.7 | 66 |
| 9 | Investigating precipitation microphysics using ground-based microwave remote sensors and disdrometer data. <i>Atmospheric Research</i> , 2010, 97, 583-600. | 1.8 | 64 |
| 10 | Discrimination of Water Surfaces, Heavy Rainfall, and Wet Snow Using COSMO-SkyMed Observations of Severe Weather Events. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2014, 52, 858-869. | 2.7 | 63 |
| 11 | A Multi-Sensor Approach for Volcanic Ash Cloud Retrieval and Eruption Characterization: The 23 November 2013 Etna Lava Fountain. <i>Remote Sensing</i> , 2016, 8, 58. | 1.8 | 62 |
| 12 | Supervised Fuzzy-Logic Classification of Hydrometeors Using C-Band Weather Radars. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2007, 45, 3784-3799. | 2.7 | 58 |
| 13 | Overview of the first HyMeX Special Observation Period over Italy: observations and model results. <i>Hydrology and Earth System Sciences</i> , 2014, 18, 1953-1977. | 1.9 | 58 |
| 14 | Intercomparison of microwave radiative transfer models for precipitating clouds. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2002, 40, 541-549. | 2.7 | 54 |
| 15 | Supervised Classification and Estimation of Hydrometeors From C-Band Dual-Polarized Radars: A Bayesian Approach. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2008, 46, 85-98. | 2.7 | 54 |
| 16 | Inside Volcanic Clouds: Remote Sensing of Ash Plumes Using Microwave Weather Radars. <i>Bulletin of the American Meteorological Society</i> , 2013, 94, 1567-1586. | 1.7 | 53 |
| 17 | Microphysical characterization of microwave Radar reflectivity due to volcanic ash clouds. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2006, 44, 313-327. | 2.7 | 47 |
| 18 | Synthetic Signatures of Volcanic Ash Cloud Particles From X-Band Dual-Polarization Radar. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2012, 50, 193-211. | 2.7 | 47 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 19 | Analysis and Synthesis of Raindrop Size Distribution Time Series From Disdrometer Data. IEEE Transactions on Geoscience and Remote Sensing, 2008, 46, 466-478. | 2.7 | 46 |
| 20 | Optimum Estimation of Rain Microphysical Parameters From X-Band Dual-Polarization Radar Observables. IEEE Transactions on Geoscience and Remote Sensing, 2013, 51, 3063-3076. | 2.7 | 42 |
| 21 | Precipitation retrieval from spaceborne microwave radiometers based on maximum a posteriori probability estimation. IEEE Transactions on Geoscience and Remote Sensing, 1996, 34, 831-846. | 2.7 | 41 |
| 22 | Combining Microwave Radiometer and Wind Profiler Radar Measurements for High-Resolution Atmospheric Humidity Profiling. Journal of Atmospheric and Oceanic Technology, 2005, 22, 949-965. | 0.5 | 41 |
| 23 | Comparison of Advanced Radar Polarimetric Techniques for Operational Attenuation Correction at C Band. Journal of Atmospheric and Oceanic Technology, 2008, 25, 1118-1135. | 0.5 | 41 |
| 24 | Performance Evaluation of a New Dual-Polarization Microphysical Algorithm Based on Long-Term X-Band Radar and Disdrometer Observations. Journal of Hydrometeorology, 2013, 14, 560-576. | 0.7 | 40 |
| 25 | Error analysis of TMI rainfall estimates over ocean for variational data assimilation. Quarterly Journal of the Royal Meteorological Society, 2002, 128, 2129-2144. | 1.0 | 37 |
| 26 | Potential of high-resolution detection and retrieval of precipitation fields from X-band spaceborne synthetic aperture radar over land. Hydrology and Earth System Sciences, 2011, 15, 859-875. | 1.9 | 37 |
| 27 | Rain field and reflectivity vertical profile reconstruction from C-band Radar volumetric data. IEEE Transactions on Geoscience and Remote Sensing, 2004, 42, 1033-1046. | 2.7 | 36 |
| 28 | Investigating a SSM/I microwave algorithm to calibrate Meteosat infrared instantaneous rainrate estimates. Meteorological Applications, 2007, 3, 5-17. | 0.9 | 36 |
| 29 | Ground-Based Measurements of the 2014-2015 Holuhraun Volcanic Cloud (Iceland). Geosciences (Switzerland), 2018, 8, 29. | 1.0 | 35 |
| 30 | A Synergistic Use of a High-Resolution Numerical Weather Prediction Model and High-Resolution Earth Observation Products to Improve Precipitation Forecast. Remote Sensing, 2019, 11, 2387. | 1.8 | 35 |
| 31 | Modeling Antenna Noise Temperature Due to Rain Clouds at Microwave and Millimeter-Wave Frequencies. IEEE Transactions on Antennas and Propagation, 2006, 54, 1305-1317. | 3.1 | 34 |
| 32 | Evidence of Rainfall Signatures on X-Band Synthetic Aperture Radar Imagery Over Land. IEEE Transactions on Geoscience and Remote Sensing, 2010, 48, 950-964. | 2.7 | 34 |
| 33 | The Eyjafjall explosive volcanic eruption from a microwave weather radar perspective. Atmospheric Chemistry and Physics, 2011, 11, 9503-9518. | 1.9 | 34 |
| 34 | Modeling of apparent radar reflectivity due to convective clouds at attenuating wavelengths. Radio Science, 2003, 38, 2-1-2-16. | 0.8 | 33 |
| 35 | Bayesian algorithm for microwave-based precipitation retrieval: description and application to TMI measurements over ocean. IEEE Transactions on Geoscience and Remote Sensing, 2005, 43, 778-791. | 2.7 | 33 |
| 36 | Artificial neural-network technique for precipitation nowcasting from satellite imagery. Advances in Geosciences, 0, 7, 97-103. | 12.0 | 33 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Polarimetric Weather Radar Retrieval of Raindrop Size Distribution by Means of a Regularized Artificial Neural Network. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2006, 44, 3262-3275. | 2.7 | 32 |
| 38 | Model-Based Weather Radar Remote Sensing of Explosive Volcanic Ash Eruption. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2010, 48, 3591-3607. | 2.7 | 32 |
| 39 | Snowfall retrieval at X, Ka and W bands: consistency of backscattering and microphysical properties using BAEC ground-based measurements. <i>Atmospheric Measurement Techniques</i> , 2018, 11, 3059-3079. | 1.2 | 32 |
| 40 | Cloud model-based Bayesian technique for precipitation profile retrieval from the Tropical Rainfall Measuring Mission Microwave Imager. <i>Radio Science</i> , 2003, 38, n/a-n/a. | 0.8 | 31 |
| 41 | Evaluation of a New Polarimetric Algorithm for Rain-Path Attenuation Correction of X-Band Radar Observations Against Disdrometer. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2014, 52, 1369-1380. | 2.7 | 31 |
| 42 | Neural-network approach to ground-based passive microwave estimation of precipitation intensity and extinction. <i>Journal of Hydrology</i> , 2006, 328, 121-131. | 2.3 | 30 |
| 43 | Model-based prediction of amplitude scintillation variance due to clear-air tropospheric turbulence on Earth-satellite microwave links. <i>IEEE Transactions on Antennas and Propagation</i> , 1998, 46, 1506-1518. | 3.1 | 29 |
| 44 | Rainfall Estimation from Polarimetric S-Band Radar Measurements: Validation of a Neural Network Approach. <i>Journal of Applied Meteorology and Climatology</i> , 2009, 48, 2022-2036. | 0.6 | 28 |
| 45 | Monitoring Subglacial Volcanic Eruption Using Ground-Based C-Band Radar Imagery. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2010, 48, 403-414. | 2.7 | 28 |
| 46 | Remote sensing of the Moon's subsurface with multifrequency microwave radiometers: A numerical study. <i>Radio Science</i> , 2011, 46, . | 0.8 | 28 |
| 47 | Microwave remote sensing of the 2011 Plinian eruption of the GrÃmsvÃrtn Icelandic volcano. <i>Remote Sensing of Environment</i> , 2013, 129, 168-184. | 4.6 | 28 |
| 48 | Impact of radar data assimilation for the simulation of a heavy rainfall case in central Italy using WRF-3DVAR. <i>Atmospheric Measurement Techniques</i> , 2014, 7, 2919-2935. | 1.2 | 28 |
| 49 | Scattering properties of modeled complex snowflakes and mixed-phase particles at microwave and millimeter frequencies. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 9931-9947. | 1.2 | 28 |
| 50 | Active and passive remote sensing of precipitating storms during CaPE. Part II: Intercomparison of precipitation retrievals over land from AMPR radiometer and CP-2 radar. <i>Meteorology and Atmospheric Physics</i> , 1994, 54, 29-51. | 0.9 | 27 |
| 51 | Ground-based multifrequency microwave radiometry for rainfall remote sensing. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2002, 40, 742-759. | 2.7 | 27 |
| 52 | Constrained iterative technique with embedded neural network for dual-polarization radar correction of rain path attenuation. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2005, 43, 2305-2314. | 2.7 | 27 |
| 53 | Rainfall Nowcasting From Multisatellite Passive-Sensor Images Using a Recurrent Neural Network. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2007, 45, 3800-3812. | 2.7 | 26 |
| 54 | An Exploratory Study to Derive Precipitation over Land from X-Band Synthetic Aperture Radar Measurements. <i>Journal of Applied Meteorology and Climatology</i> , 2008, 47, 562-575. | 0.6 | 26 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 55 | Optimizing Data Volume Return for Ka-Band Deep Space Links Exploiting Short-Term Radiometeorological Model Forecast. IEEE Transactions on Antennas and Propagation, 2016, 64, 235-250. | 3.1 | 26 |
| 56 | Hydrometeor classification from dual-polarized weather radar: extending fuzzy logic from S-band to C-band data. Advances in Geosciences, 0, 7, 109-114. | 12.0 | 26 |
| 57 | Predicting Antenna Noise Temperature Due to Rain Clouds at Microwave and Millimeter-Wave Frequencies. IEEE Transactions on Antennas and Propagation, 2007, 55, 2022-2031. | 3.1 | 25 |
| 58 | Iterative Bayesian Retrieval of Hydrometeor Content From X-Band Polarimetric Weather Radar. IEEE Transactions on Geoscience and Remote Sensing, 2010, 48, 3059-3074. | 2.7 | 25 |
| 59 | Inversion of Spaceborne X-Band Synthetic Aperture Radar Measurements for Precipitation Remote Sensing Over Land. IEEE Transactions on Geoscience and Remote Sensing, 2008, 46, 3472-3487. | 2.7 | 24 |
| 60 | Modeling and Predicting Sky-Noise Temperature of Clear, Cloudy, and Rainy Atmosphere From X- to W-Band. IEEE Transactions on Antennas and Propagation, 2013, 61, 3859-3868. | 3.1 | 24 |
| 61 | Remotely sensing cloud properties from microwave radiometric observations by using a modeled cloud database. Radio Science, 1998, 33, 369-392. | 0.8 | 23 |
| 62 | Physically based statistical integration of TRMM microwave measurements for precipitation profiling. Radio Science, 2003, 38, n/a-n/a. | 0.8 | 23 |
| 63 | Simulating Topographic Effects on Spaceborne Radiometric Observations Between L and X Frequency Bands. IEEE Transactions on Geoscience and Remote Sensing, 2010, 48, 273-282. | 2.7 | 23 |
| 64 | Prediction of the Error Induced by Topography in Satellite Microwave Radiometric Observations. IEEE Transactions on Geoscience and Remote Sensing, 2011, 49, 3180-3188. | 2.7 | 23 |
| 65 | Examples of Multi-Sensor Determination of Eruptive Source Parameters of Explosive Events at Mount Etna. Remote Sensing, 2021, 13, 2097. | 1.8 | 23 |
| 66 | Gazing inside a giant-hail-bearing Mediterranean supercell by dual-polarization Doppler weather radar. Atmospheric Research, 2021, 264, 105852. | 1.8 | 23 |
| 67 | Flower Constellation of Millimeter-Wave Radiometers for Tropospheric Monitoring at Pseudogeostationary Scale. IEEE Transactions on Geoscience and Remote Sensing, 2009, 47, 3107-3122. | 2.7 | 22 |
| 68 | Microwave Radiometric Remote Sensing of Volcanic Ash Clouds From Space: Model and Data Analysis. IEEE Transactions on Geoscience and Remote Sensing, 2013, 51, 4678-4691. | 2.7 | 22 |
| 69 | Correction of Polarimetric Radar Reflectivity Measurements and Rainfall Estimates for Apparent Vertical Profile in Stratiform Rain. Journal of Applied Meteorology and Climatology, 2013, 52, 1170-1186. | 0.6 | 22 |
| 70 | Tephra Mass Eruption Rate From Ground-Based X-Band and L-Band Microwave Radars During the November 23, 2013, Etna Paroxysm. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 3314-3327. | 2.7 | 22 |
| 71 | Modeling and measurement of rainfall by ground-based multispectral microwave radiometry. IEEE Transactions on Geoscience and Remote Sensing, 2005, 43, 1000-1011. | 2.7 | 21 |
| 72 | Validation of satellite OPEMW precipitation product with ground-based weather radar and rain gauge networks. Atmospheric Measurement Techniques, 2013, 6, 3181-3196. | 1.2 | 21 |

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|----|---|-----|-----------|
| 73 | Microphysical characterization of free space optical link due to hydrometeor and fog effects. Applied Optics, 2015, 54, 6787. | 2.1 | 21 |
| 74 | Topographic Effects on the Surface Emissivity of a Mountainous Area Observed by a Spaceborne Microwave Radiometer. Sensors, 2008, 8, 1459-1474. | 2.1 | 20 |
| 75 | Interpretation of observed microwave signatures from ground dual polarization radar and space multi-frequency radiometer for the 2011 GrÃmsvÃ¶tn volcanic eruption. Atmospheric Measurement Techniques, 2014, 7, 537-552. | 1.2 | 20 |
| 76 | Sun-Tracking Microwave Radiometry: All-Weather Estimation of Atmospheric Path Attenuation at \$Ka\$, \$V\$, and \$W\$-Band. IEEE Transactions on Antennas and Propagation, 2016, 64, 4815-4827. | 3.1 | 20 |
| 77 | Evaluation of X-Band Polarimetric-Radar Estimates of Drop-Size Distributions From Coincident S-Band Polarimetric Estimates and Measured Raindrop Spectra. IEEE Transactions on Geoscience and Remote Sensing, 2008, 46, 3067-3075. | 2.7 | 19 |
| 78 | Retrieval of Sun Brightness Temperature and Precipitating Cloud Extinction Using Ground-Based Sun-Tracking Microwave Radiometry. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2017, 10, 3134-3147. | 2.3 | 19 |
| 79 | Simulation of radiometric and attenuation measurements along Earth-satellite links in the 10- to 50-GHz band through horizontally finite convective rain cells. Radio Science, 1999, 34, 841-858. | 0.8 | 18 |
| 80 | Potential of combined spaceborne infrared and microwave radiometry for near real-time rainfall attenuation monitoring along earth-satellite links. International Journal of Satellite Communications and Networking, 2001, 19, 385-412. | 0.6 | 18 |
| 81 | Modeling Polarimetric Response of Spaceborne Synthetic Aperture Radar Due to Precipitating Clouds From X- to Ka-Band. IEEE Transactions on Geoscience and Remote Sensing, 2012, 50, 687-703. | 2.7 | 18 |
| 82 | Model for estimating the refractive-index structure constant in clear-air intermittent turbulence. Applied Optics, 1993, 32, 2674. | 2.1 | 17 |
| 83 | Sensitivity analysis of airborne microwave retrieval of stratiform precipitation to the melting layer parameterization. IEEE Transactions on Geoscience and Remote Sensing, 2001, 39, 75-91. | 2.7 | 17 |
| 84 | Coupling X-band dual-polarized mini-radars and hydro-meteorological forecast models: the HYDRORAD project. Natural Hazards and Earth System Sciences, 2013, 13, 1229-1241. | 1.5 | 17 |
| 85 | Forward Scatter Radar for Air Surveillance: Characterizing the Target-Receiver Transition from Far-Field to Near-Field Regions. Remote Sensing, 2017, 9, 50. | 1.8 | 16 |
| 86 | Rainfall observation from X-band, space-borne, synthetic aperture radar. Natural Hazards and Earth System Sciences, 2009, 9, 77-84. | 1.5 | 16 |
| 87 | Lunar Microwave Brightness Temperature: Model Interpretation and Inversion of Spaceborne Multifrequency Observations by a Neural Network Approach. IEEE Transactions on Geoscience and Remote Sensing, 2011, 49, 3350-3358. | 2.7 | 15 |
| 88 | Multisensor Characterization of the Incandescent Jet Region of Lava Fountain-Fed Tephra Plumes. Remote Sensing, 2020, 12, 3629. | 1.8 | 15 |
| 89 | A maximum entropy approach to satellite quantitative precipitation estimation (QPE). International Journal of Remote Sensing, 2004, 25, 4629-4639. | 1.3 | 14 |
| 90 | Water vapour distribution at urban scale using high-resolution numerical weather model and spaceborne SAR interferometric data. Natural Hazards and Earth System Sciences, 2010, 10, 121-132. | 1.5 | 14 |

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|-----|---|-----|-----------|
| 91 | Retrieval of Tephra Size Spectra and Mass Flow Rate From C-Band Radar During the 2010 Eyjafjallajökull Eruption, Iceland. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 5644-5660. | 2.7 | 14 |
| 92 | C-band Dual-Polarization Radar Observations of a Massive Volcanic Eruption in South America. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2017, 10, 960-974. | 2.3 | 14 |
| 93 | Fuzzy-logic detection and probability of hail exploiting short-range X-band weather radar. Atmospheric Research, 2018, 201, 17-33. | 1.8 | 14 |
| 94 | Multisatellite Multisensor Observations of a Sub-Plinian Volcanic Eruption: The 2015 Calbuco Explosive Event in Chile. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 2597-2612. | 2.7 | 14 |
| 95 | EVALUATION OF STATISTICAL MODELS FOR CLEAR-AIR SCINTILLATION PREDICTION USING OLYMPUS SATELLITE MEASUREMENTS. International Journal of Satellite Communications and Networking, 1997, 15, 73-88. | 0.6 | 13 |
| 96 | Spatially-Adaptive Advection Radar Technique for Precipitation Mosaic Nowcasting. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2012, 5, 874-884. | 2.3 | 13 |
| 97 | Spectral Downscaling of Integrated Water Vapor Fields From Satellite Infrared Observations. IEEE Transactions on Geoscience and Remote Sensing, 2012, 50, 415-428. | 2.7 | 13 |
| 98 | Impact of multiple radar reflectivity data assimilation on the numerical simulation of a flash flood event during the HyMeX campaign. Hydrology and Earth System Sciences, 2017, 21, 5459-5476. | 1.9 | 13 |
| 99 | Snowfall Measurements by Proposed European GPM Mission. , 2007, , 655-674. | | 13 |
| 100 | The role of the Italian scientific community in the first HyMeX SOP: an outstanding multidisciplinary experience. Meteorologische Zeitschrift, 2015, 24, 261-267. | 0.5 | 13 |
| 101 | Assessment of polarimetric features to discriminate land cover from the MAESTRO 1 campaign. International Journal of Remote Sensing, 1994, 15, 2887-2899. | 1.3 | 12 |
| 102 | Effects of Degraded Sensor Resolution upon Passive Microwave Precipitation Retrievals of Tropical Rainfall. Journals of the Atmospheric Sciences, 1998, 55, 1689-1706. | 0.6 | 12 |
| 103 | Evidence of long-term correlation between clear-air attenuation and scintillation in microwave and millimeter-wave satellite links. IEEE Transactions on Antennas and Propagation, 1999, 47, 1749-1757. | 3.1 | 12 |
| 104 | A physical-statistical approach to match passive microwave retrieval of rainfall to Mediterranean climatology. IEEE Transactions on Geoscience and Remote Sensing, 2002, 40, 2271-2284. | 2.7 | 12 |
| 105 | Rainfall rate retrieval in presence of path attenuation using C-band polarimetric weather radars. Natural Hazards and Earth System Sciences, 2006, 6, 439-450. | 1.5 | 12 |
| 106 | Modeling uncertainties for passive microwave precipitation retrieval: evaluation of a case study. IEEE Transactions on Geoscience and Remote Sensing, 2006, 44, 78-89. | 2.7 | 12 |
| 107 | Detection of floods and heavy rain using Cosmo-SkyMed data: The event in Northwestern Italy of November 2011. , 2012, , . | | 12 |
| 108 | Validating Subglacial Volcanic Eruption Using Ground-Based C-Band Radar Imagery. IEEE Transactions on Geoscience and Remote Sensing, 2012, 50, 1266-1282. | 2.7 | 12 |

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|-----|--|------|-----------|
| 109 | Reflectivity and velocity radar data assimilation for two flash flood events in central Italy: A comparison between 3D and 4D variational methods. Quarterly Journal of the Royal Meteorological Society, 2020, 146, 348-366. | 1.0 | 12 |
| 110 | Coastal Water Remote Sensing From Sentinel-2 Satellite Data Using Physical, Statistical, and Neural Network Retrieval Approach. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 915-928. | 2.7 | 12 |
| 111 | Precipitation Retrieval From Spaceborne Microwave Radiometers and Combined Sensors. , 2002, , 107-126. | | 12 |
| 112 | Ground-Based Remote Sensing and Uncertainty Analysis of the Mass Eruption Rate Associated With the 3â€“5 December 2015 Paroxysms of Mt. Etna. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2022, 15, 504-518. | 2.3 | 12 |
| 113 | Multisensor observations during the flood event of 4â€“6 November, 1994 over Northern Italy. International Journal of Remote Sensing, 1996, 14, 91-117. | 1.1 | 11 |
| 114 | Cloud-induced effects on monthly averaged scintillation amplitude along millimeter-wave slant paths. IEEE Transactions on Antennas and Propagation, 2003, 51, 880-887. | 3.1 | 11 |
| 115 | Numerical investigation of intense rainfall effects on coherent and incoherent slant-path propagation at K-band and above. IEEE Transactions on Antennas and Propagation, 2003, 51, 965-977. | 3.1 | 11 |
| 116 | Maximum-Likelihood Retrieval of Modeled Convective Rainfall Patterns from Midlatitude C-Band Weather Radar Data. IEEE Transactions on Geoscience and Remote Sensing, 2007, 45, 2403-2416. | 2.7 | 11 |
| 117 | Near-Real-Time Detection of Tephra Eruption Onset and Mass Flow Rate Using Microwave Weather Radar and Infrasonic Arrays. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 6292-6306. | 2.7 | 11 |
| 118 | Evaluation of High-Frequency Channels for Deep-Space Data Transmission Using Radiometeorological Model Forecast. IEEE Transactions on Antennas and Propagation, 2017, 65, 1311-1320. | 3.1 | 11 |
| 119 | Maximum-Likelihood Retrieval of Volcanic Ash Concentration and Particle Size From Ground-Based Scanning Lidar. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 5824-5842. | 2.7 | 11 |
| 120 | The Alphasat Aldo Paraboni propagation experiment: Measurement campaign at the Italian ground stations. International Journal of Satellite Communications and Networking, 2019, 37, 423-436. | 1.2 | 11 |
| 121 | RTTOV-gb v1.0 â€“ updates on sensors, absorption models, uncertainty, and availability. Geoscientific Model Development, 2019, 12, 1833-1845. | 1.3 | 11 |
| 122 | Active and passive microwave remote sensing of precipitating storms during CaPE. Part I: Advanced microwave precipitation radiometer and polarimetric radar measurements and models. Meteorology and Atmospheric Physics, 1994, 54, 3-27. | 0.9 | 10 |
| 123 | Impact of rainfall incoherent backscattering upon radar echoes above 10 GHz. Physics and Chemistry of the Earth, 2000, 25, 943-948. | 0.3 | 10 |
| 124 | Spatial characterization of raincell horizontal profiles from C-band radar measurements at mid-latitude. Advances in Geosciences, 0, 7, 285-292. | 12.0 | 10 |
| 125 | Assessment of model-based scintillation variance prediction on long-term basis using Italsat satellite measurements. International Journal of Satellite Communications and Networking, 1999, 17, 17-36. | 0.6 | 9 |
| 126 | Statistical Characterization and Modeling of Raindrop Spectra Time Series for Different Climatological Regions. IEEE Transactions on Geoscience and Remote Sensing, 2008, 46, 2778-2787. | 2.7 | 9 |

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|-----|---|------|-----------|
| 127 | Bayesian statistical analysis of ground-clutter for the relative calibration of dual polarization weather radars. <i>European Journal of Remote Sensing</i> , 2016, 49, 933-953. | 1.7 | 9 |
| 128 | Optimal Stochastic Prediction and Verification of Signal-to-Noise Ratio and Data Rate for Ka-Band Spaceborne Telemetry Using Weather Forecasts. <i>IEEE Transactions on Antennas and Propagation</i> , 2021, 69, 1065-1077. | 3.1 | 9 |
| 129 | 3DVAR assimilation of SSM/I data over the sea for the IOP2b MAP case. <i>Advances in Geosciences</i> , 0, 2, 229-235. | 12.0 | 9 |
| 130 | On The Effect of Atmospheric Emission upon the Passive Microwave Polarimetric Response of an Azimuthally Anisotropic Sea Surface. <i>Progress in Electromagnetics Research</i> , 2000, 26, 223-248. | 1.6 | 8 |
| 131 | Assessment and Uncertainty Estimation of Weather-Forecast Driven Data Transfer for Space Exploration at Ka- and X-Band. <i>IEEE Transactions on Antennas and Propagation</i> , 2019, 67, 3308-3322. | 3.1 | 8 |
| 132 | Retrieving atmospheric temperature profiles by microwave radiometry using a priori information on atmospheric spatial-temporal evolution. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2001, 39, 1896-1905. | 2.7 | 7 |
| 133 | Intercomparison of inversion algorithms to retrieve rain rate from SSM/I by using an extended validation set over the Mediterranean area. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2004, 42, 2226-2239. | 2.7 | 7 |
| 134 | Modeling Microwave Fully Polarimetric Passive Observations of the Sea Surface: A Neural Network Approach. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2007, 45, 2098-2107. | 2.7 | 7 |
| 135 | Three-dimensional variational assimilation of Special Sensor Microwave/Imager data into a mesoscale weather prediction model: A case study. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2007, 133, 1295-1307. | 1.0 | 7 |
| 136 | Flood forecast in complex orography coupling distributed hydro-meteorological models and in-situ and remote sensing data. <i>Meteorology and Atmospheric Physics</i> , 2008, 101, 267-285. | 0.9 | 7 |
| 137 | Atmospheric water vapor effects on spaceborne interferometric SAR imaging: Comparison with ground-based measurements and meteorological model simulations at different scales. , 2009, , . | | 7 |
| 138 | Weather Radar Data Processing and Atmospheric Applications: An Overview of Tools for Monitoring Clouds and Detecting Wind Shear. <i>IEEE Signal Processing Magazine</i> , 2019, 36, 85-97. | 4.6 | 7 |
| 139 | Relation between weather radar equation and first-order backscattering theory. <i>Atmospheric Chemistry and Physics</i> , 2003, 3, 813-821. | 1.9 | 6 |
| 140 | Generalized Eddington analytical model for azimuthally dependent radiance simulation in stratified media. <i>Applied Optics</i> , 2005, 44, 6032. | 2.1 | 6 |
| 141 | Potential of X-band spaceborne synthetic aperture radar for precipitation retrieval over land. , 2007, , . | | 6 |
| 142 | An Independent Overview of the National Weather Service in Italy. <i>Bulletin of the American Meteorological Society</i> , 2008, 89, 1279-1284. | 1.7 | 6 |
| 143 | Overview: Tropospheric profiling: state of the art and future challenges – introduction to the AMT special issue. <i>Atmospheric Measurement Techniques</i> , 2014, 7, 2981-2986. | 1.2 | 6 |
| 144 | Investigating Hector Convective Development and Microphysical Structure Using High-Resolution Model Simulations, Ground-Based Radar Data, and TRMM Satellite Data. <i>Journals of the Atmospheric Sciences</i> , 2014, 71, 1353-1370. | 0.6 | 6 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|------|-----------|
| 145 | Investigating the shadow radiation of 3-dimensional radar targets in the near field. , 2017, , . | | 6 |
| 146 | Atmospheric Gas Absorption Knowledge in the Submillimeter: Modeling, Field Measurements, and Uncertainty Quantification. Bulletin of the American Meteorological Society, 2019, 100, ES291-ES295. | 1.7 | 6 |
| 147 | A Closed-Form Model for Long- and Short-Range Forward Scatter Radar Signals From Rectangular Conductive Targets. IEEE Transactions on Aerospace and Electronic Systems, 2020, 56, 1370-1390. | 2.6 | 6 |
| 148 | Emission and scattering by clouds and precipitation. , 2006, , 101-224. | | 6 |
| 149 | Free Space Optics System Reliability in the Presence of Weather-Induced Disruptions. Computer Communications and Networks, 2020, , 327-351. | 0.8 | 6 |
| 150 | Remote Sensing of Volcanic Ash Cloud During Explosive Eruptions Using Ground-Based Weather RADAR Data Processing [In the Spotlight]. IEEE Signal Processing Magazine, 2011, 28, 128-126. | 4.6 | 5 |
| 151 | Model analysis of hydrometeor scattering effects on free space near-infrared links. , 2012, , . | | 5 |
| 152 | Exploiting Tropospheric Measurements From Sun-Tracking Radiometer for Radiopropagation Models at Centimeter and Millimeter Wave. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2019, 12, 1697-1708. | 2.3 | 5 |
| 153 | Investigating 3D and 4D variational rapid-update-cycling assimilation of weather radar reflectivity for a heavy rain event in central Italy. Natural Hazards and Earth System Sciences, 2021, 21, 2849-2865. | 1.5 | 5 |
| 154 | Satellite radiometric remote sensing of rainfall fields: multi-sensor retrieval techniques at geostationary scale. Advances in Geosciences, 0, 2, 267-272. | 12.0 | 5 |
| 155 | Model-based iterative approach to polarimetric radar rainfall estimation in presence of path attenuation. Advances in Geosciences, 0, 2, 51-57. | 12.0 | 5 |
| 156 | Microwave radiometry of the atmosphere: an experiment from a sea-based platform during ERS-1 altimeter calibration. International Journal of Remote Sensing, 1995, 16, 2341-2356. | 1.3 | 4 |
| 157 | A model to predict cloud density from midlatitude atmospheric soundings for microwave radiative transfer applications. Radio Science, 2006, 41, n/a-n/a. | 0.8 | 4 |
| 158 | Remote sensing of the Moon sub-surface from a spaceborne microwave radiometer aboard the European Student Moon Orbiter (ESMO). , 2007, , . | | 4 |
| 159 | FLORAD: Micro-satellite flower constellation of millimeter-wave radiometers for atmospheric remote sensing. , 2008, , . | | 4 |
| 160 | High-Repetition Millimeter-Wave Passive Remote Sensing of Humidity and Hydrometeor Profiles from Elliptical Orbit Constellations. Journal of Applied Meteorology and Climatology, 2010, 49, 1454-1476. | 0.6 | 4 |
| 161 | Characterization of hydrometeor scattering effects and experimental measurements using near-infrared free-space urban links. , 2012, , . | | 4 |
| 162 | Instruments, data and techniques for the assessment of the atmospheric noise emission in Satcom ground stations. , 2012, , . | | 4 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 163 | Atmospheric precipitation impact on synthetic aperture radar imagery: Numerical model at X and KA bands. , 2015, , . | | 4 |
| 164 | Clear-air scintillation analysis of Q-band alphasat link at Spino d'Adda using radiosounding data. , 2017, , . | | 4 |
| 165 | Development and Application of Microwave Radiometric Techniques for Modeling Satellite-Earth Propagation at V and W Band. , 2021, , . | | 4 |
| 166 | Dynamical Link Budget in Satellite Communications at Ka-Band: Testing Radiometeorological Forecasts With Hayabusa2 Deep-Space Mission Support Data. IEEE Transactions on Wireless Communications, 2022, 21, 3935-3950. | 6.1 | 4 |
| 167 | Microwave multisensor rainfall retrieval applied to TOGA-COARE observations. , 0, , . | | 3 |
| 168 | Using coincident SSM/I and infrared geostationary satellite data for rapid updates of rainfall. , 1998, , . | | 3 |
| 169 | Empirical evaluation of four microwave radiative forward models based on ground-based radiometer data near 20 and 30 GHz. , 0, , . | | 3 |
| 170 | A Simulation Study to Quantify the Relief Effects on the Observations Performed by Microwave Radiometers. , 2008, , . | | 3 |
| 171 | Coupling a Neural Network-Based forward Model and a Bayesian Inversion Approach to Retrieve Wind Field from Spaceborne Polarimetric Radiometers. Sensors, 2008, 8, 7850-7865. | 2.1 | 3 |
| 172 | Synergic use of EO, NWP and ground based measurements for the mitigation of vapour artefacts in SAR interferometry. , 2011, , . | | 3 |
| 173 | Analysis of rainfall signatures on COSMO-SkyMed X-Band Synthetic Aperture Radar observations. , 2012, , . | | 3 |
| 174 | Rateless codes performance tests on terrestrial FSO time-correlated channel model. , 2012, , . | | 3 |
| 175 | Hydrometeor scattering and stochastic modeling for free-space optical channel characterization. , 2013, , . | | 3 |
| 176 | Precipitation signature on side-looking aperture radar imaging: Sensitivity analysis to surface effects at C, X and Ku band. , 2014, , . | | 3 |
| 177 | Evaluation of deep space Ka-band data transfer using radiometeorological forecast models. , 2014, , . | | 3 |
| 178 | Clear-air turbulence effects modeling on terrestrial and satellite free-space optical channels. , 2015, , . | | 3 |
| 179 | Analysis of canonical targets in near field for Forward Scatter Radar applications. , 2015, , . | | 3 |
| 180 | Ultraviolet Scattering Communication Channels. Signals and Communication Technology, 2016, , 145-170. | 0.4 | 3 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|------|-----------|
| 181 | Retrieval of precipitation extinction using ground-based sun-tracking millimeter-wave radiometry. , 2016, , . | | 3 |
| 182 | Modeling the Forward-Scatter Cross Section of 3-Dimensional Objects by Means of the Shadow Contour Theorem: An Assessment. , 2018, , . | | 3 |
| 183 | AlphaSat Aldo Paraboni Experiment Q-Band Receiving Station in Rome (Italy): Upgrades and Preliminary Scintillation Measurements. , 2018, , . | | 3 |
| 184 | Remote Sensing of Coastal Water-quality Parameters from Sentinel-2 Satellite Data in the Tyrrhenian and Adriatic Seas. , 2019, , . | | 3 |
| 185 | Generalized Parametric Prediction Model of the Mean Radiative Temperature for Microwave Slant Paths in All-Weather Condition. IEEE Transactions on Antennas and Propagation, 2020, 68, 1031-1043. | 3.1 | 3 |
| 186 | Dual-Wavelength Polarimetric Lidar Observations of the Volcanic Ash Cloud Produced during the 2016 Etna Eruption. Remote Sensing, 2021, 13, 1728. | 1.8 | 3 |
| 187 | Evaluation of radiative transfer schemes for mesoscale model data assimilation: a case study. Advances in Geosciences, 0, 7, 193-198. | 12.0 | 3 |
| 188 | Characterization of atmospheric precipitation effects on spaceborne synthetic aperture radar response at X, Ku, Ka band. European Journal of Remote Sensing, 2009, , 73-88. | 0.2 | 3 |
| 189 | Can We Use Atmospheric Targets for Geolocating Spaceborne Millimeter-Wave Ice Cloud Imager (ICI) Acquisitions?. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-22. | 2.7 | 3 |
| 190 | Mosaicking Weather Radar Retrievals from an Operational Heterogeneous Network at C and X Band for Precipitation Monitoring in Italian Central Apennines. Remote Sensing, 2022, 14, 248. | 1.8 | 3 |
| 191 | Simulation study of a microwave radiometric temperature profiler for the Antarctic atmosphere. , 0, , . | | 2 |
| 192 | Rain retrieval algorithms for passive microwave observations: a comparison and a choice. , 0, , . | | 2 |
| 193 | Classification of multifrequency radar polarimetric data: role and contribution of vectorial filters. , 0, , . | | 2 |
| 194 | <title>Inversion of electromagnetic models for estimating bare soil parameters from radar multifrequency and multipolarization data</title>. , 1998, 3497, 67. | | 2 |
| 195 | Sensitivity analysis of self-consistent polarimetric rain retrieval to C-Band radar observables. , 0, , . | | 2 |
| 196 | Processing disdrometer raindrop spectra time series from various climatological regions using estimation and autoregressive methods. , 2007, , . | | 2 |
| 197 | Microwave and optical active remote sensing signatures of volcanic ash clouds from ground. , 2012, , . | | 2 |
| 198 | X-band weather radar monitoring real-time products in Rome and Naples urban areas. , 2012, , . | | 2 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|------|-----------|
| 199 | Design and characterization of the Q-band AlphaSat receiving station in Rome. , 2012, , . | | 2 |
| 200 | Passive microwave remote sensing of Plinian eruption due to the Grímsvötn Icelandic volcano. , 2012, , . | | 2 |
| 201 | Modeling scintillation effects on free space optical links using radiosounding profile data. , 2014, , . | | 2 |
| 202 | Exploiting microwave scanning radar for monitoring Icelandic volcanic eruption source parameters. , 2014, , . | | 2 |
| 203 | Modeling atmospheric precipitation impact on synthetic aperture radar imagery at X and Ka bands. , 2014, , . | | 2 |
| 204 | Forward scatter radar modeling: Effects of near field for canonical targets. , 2015, , . | | 2 |
| 205 | Detection and quantification of precipitations signatures on synthetic aperture radar imagery at X band. Proceedings of SPIE, 2016, , . | 0.8 | 2 |
| 206 | Ingestion of Sentinel-Derived Remote Sensing Products in Numerical Weather Prediction Models: First Results of the ESA Steam Project. , 2018, , . | | 2 |
| 207 | Assessing the Spaceborne 183.31-GHz Radiometric Channel Geolocation Using High-Altitude Lakes, Ice Shelves, and SAR Imagery. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 4044-4061. | 2.7 | 2 |
| 208 | Investigating Spaceborne Millimeter-Wave Ice Cloud Imager Geolocation Using Landmark Targets and Frequency-Scaling Approach. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-17. | 2.7 | 2 |
| 209 | Weather-forecast based RMOP link-budget approach experimentation: data-transfer optimization at Ka-band with Hayabusa-2 satellite mission support. , 2021, , . | | 2 |
| 210 | MEO Satellite Ka-band Receiving Stations for Tropospheric Propagation Impairment Analysis: Design, Architecture and Preliminary Measurements. , 2021, , . | | 2 |
| 211 | Improving atmospheric path attenuation estimates for radio propagation applications by microwave radiometric profiling. Atmospheric Measurement Techniques, 2021, 14, 2737-2748. | 1.2 | 2 |
| 212 | Volcanic Ash Cloud Observation using Ground-based Ka-band Radar and Near-Infrared Lidar Ceilometer during the Eyjafjallaj kull eruption. Annals of Geophysics, 2015, 57, . | 0.5 | 2 |
| 213 | Simulations of deep convection in the Mediterranean area using 3DVAR of conventional and non-conventional data. Advances in Geosciences, 0, 2, 65-71. | 12.0 | 2 |
| 214 | Satellite-Based Detection of Volcanic Plumes: Sinergy Between Thermal Infrared and Millimeter Wave Radiometric Data During the 2014 Kelud Event. , 2021, , . | | 2 |
| 215 | Meteorological Radar Systems. , 2011, , 33-57. | | 2 |
| 216 | Monitoring by forward scatter radar techniques: an improved second-order analytical model. , 2017, , . | | 2 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|----|-----------|
| 217 | Short-term Forecast of Radiocommunication Geostationary Satellite Links coupling Weather Prediction and Radiopropagation Models. , 2022, , . | | 2 |
| 218 | Comparison of GPR field results from a stratified limestone terrain with model simulations. , 0, , . | | 1 |
| 219 | Mapping of precipitable water vapour by integrating measurements of ground-based GPS receivers and satellite-based microwave radiometers. , 0, , . | | 1 |
| 220 | Empirical algorithms to retrieve surface rain-rate from Special Sensor Microwave Imager over a mid-latitude basin. , 0, , . | | 1 |
| 221 | Statistical integration of satellite passive microwave and infrared data for high-temporal sampling retrieval of rainfall. , 0, , . | | 1 |
| 222 | Characterization of rainfall signature due to multispectral microwave radiometric data from ground. , 0, , . | | 1 |
| 223 | Bayesian classification of hydrometeors from polarimetric radars at S- and X- bands: algorithm design and experimental comparisons. , 2007, , . | | 1 |
| 224 | Ground-based radar remote sensing of explosive volcanic ash eruptions: Numerical models and quantitative applications. , 2008, , . | | 1 |
| 225 | FLORAD mission: Millimeter-wave atmospheric remote sensing through mini-satellites flower constellation. , 2009, , . | | 1 |
| 226 | Review of radar measurements of precipitation for the characterization of propagation effects on terrestrial and slant path radio links. , 2012, , . | | 1 |
| 227 | Lessons learned from using COSMO-SkyMed imagery for flood mapping: some case studies. , 2012, , . | | 1 |
| 228 | 60 GHz tapered-helix antenna for WPAN applications. , 2012, , . | | 1 |
| 229 | Dielectric lens optimization for conical helix THz antennas. , 2014, , . | | 1 |
| 230 | Hail detection in Naples urban area using single-polarization X-band weather radar: Preliminary results. , 2015, , . | | 1 |
| 231 | Spaceborne microwave and infrared radiometric observations during the sub-Plinian eruption of Calbuco volcano in 2015. , 2016, , . | | 1 |
| 232 | Improving weather-forecast based model chain to optimize data-volume transfer for Ka-band deep-space downlinks. , 2017, , . | | 1 |
| 233 | Clear-Air Anomaly Detection Using Modified Kalman Temporal Filter from Geostationary Multispectral Data. , 2018, , . | | 1 |
| 234 | Predicting Mean Radiative Temperature at Millimeter Wavelengths in Continental Climate Areas. , 2018, , . | | 1 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|------|-----------|
| 235 | Geocalibrating Millimeter-wave Spaceborne Radiometers for Global-scale Cloud Retrieval. , 2019, , . | | 1 |
| 236 | Modeling and Predicting Down-link Tropospheric Channel above Ku Band for Interplanetary Exploration. , 2019, , . | | 1 |
| 237 | Investigating ground-based radar and spaceborne infrared radiometer synergy for lightning areal prediction in complex orography. Bulletin of Atmospheric Science and Technology, 2020, 1, 231-256. | 0.4 | 1 |
| 238 | Clear-Air Anomaly Masking Using Kalman Temporal Filter From Geostationary Multispectral Imagery. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 7908-7919. | 2.7 | 1 |
| 239 | Applicability of the Langley Method for Non-Geostationary In-Orbit Satellite Effective Isotropic Radiated Power Estimation. IEEE Transactions on Antennas and Propagation, 2021, 69, 4935-4943. | 3.1 | 1 |
| 240 | Multivariate Probability Matching for Microwave Infrared Combined Rainfall Algorithm (MICRA). , 2007, , 269-279. | | 1 |
| 241 | Reconstruction of reflectivity vertical profiles and data quality control for C-band radar rainfall estimation. Advances in Geosciences, 0, 2, 209-215. | 12.0 | 1 |
| 242 | Sun-Tracking Ground-Based Microwave Radiometry: Challenges and Applications. , 2021, , . | | 1 |
| 243 | Neural Network tools for Satellite Rainfall Estimation. , 2007, , 149-161. | | 1 |
| 244 | Flower elliptical-orbit constellation exploiting millimetre-wave radiometry and radio occultation for meteo-climatological applications. Advances in Geosciences, 0, 25, 167-177. | 12.0 | 1 |
| 245 | KydroSAT: a Ku/Ka band synthetic aperture radar space mission concept for high-resolution mapping of hydrometeorological parameters. , 2017, , . | | 1 |
| 246 | Effects of atmospheric precipitations and turbulence on satellite Ka-band synthetic aperture radar. , 2018, , . | | 1 |
| 247 | The role of a priori information in designing retrieval algorithms for microwave radiometric profiling of the atmosphere. , 0, , . | | 0 |
| 248 | Passive calibration of the backscattering coefficient of the ENVISAT RA-2: evaluation of radiative models for sea and land. , 0, , . | | 0 |
| 249 | Use of second order statistics of observed and synthetic outgoing long-wave radiation spectra datasets for testing Global Circulation Models. , 0, , . | | 0 |
| 250 | Multivariate probability matching of satellite infrared and microwave radiometric measurements for rainfall retrieval at the geostationary scale. , 0, , . | | 0 |
| 251 | Foreword to the Special Issue on the 8th Specialist Meeting on Microwave Radiometry and Remote Sensing Applications (MicroRad04). IEEE Transactions on Geoscience and Remote Sensing, 2005, 43, 919-923. | 2.7 | 0 |
| 252 | Small-catchment flood forecasting and drainage network extraction using computational intelligence. , 0, , . | | 0 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 253 | Microwave radar remote sensing of Plinian volcanic ash clouds for aviation hazard and civil protection applications. , 2007, , . | | 0 |
| 254 | Evaluation of X-band polarimetric radar estimates of drop size distributions from coincident S-band polarimetric estimates and measured raindrop spectra. , 2007, , . | | 0 |
| 255 | Impact of topography on microwave emissivity retrieval from satellite radiometers. , 2007, , . | | 0 |
| 256 | Microwave modelling of rain attenuation fields using disdrometer measurements and stochastic methods. , 2007, , . | | 0 |
| 257 | Foreword to the Special Issue on the 9th Specialist Meeting on Microwave Radiometry and Remote Sensing Applications (MicroRad '06). IEEE Transactions on Geoscience and Remote Sensing, 2007, 45, 1903-1906. | 2.7 | 0 |
| 258 | Inversion techniques to retrieve high-resolution precipitation fields from satellite X-band Synthetic Aperture Radar. , 2008, , . | | 0 |
| 259 | Model-oriented hydrometeor classification and water content estimate using dual-polarized weather radars. , 2008, , . | | 0 |
| 260 | Corrections to "Modeling Antenna Noise Temperature Due to Rain Clouds at Microwave and Millimeter-Wave Frequencies" [Apr 06 1305-1317]. IEEE Transactions on Antennas and Propagation, 2010, 58, 242-242. | 3.1 | 0 |
| 261 | Topographic effects on spaceborne radiometric observations and possible correction strategies. , 2010, , . | | 0 |
| 262 | The NanoROLD project in the frame of the AeroClouds programme. International Journal of Remote Sensing, 2011, 32, 5303-5319. | 1.3 | 0 |
| 263 | Radar remote sensing of ash cloud due to the Grímsvötn sub-glacial explosive eruption on 2011. , 2012, , . | | 0 |
| 264 | X-band signatures of floods and heavy rain in Cosmo SkyMed images. , 2012, , . | | 0 |
| 265 | Lunar sub-surface remote sensing by spaceborne microwave Interferometric Radiometers: Analysis and preliminary results. , 2012, , . | | 0 |
| 266 | Remote sensing of volcanic ash: Synergistic use of ash models and microwave observations of the erupting plumes. , 2013, , . | | 0 |
| 267 | Accuracy of real-time sky status indicator (SSI) for the characterization of a satellite communication link at microwave bands. , 2014, , . | | 0 |
| 268 | Effects of multiple scattering due to atmospheric water particles on outdoor Free Space Optical links. , 2014, , . | | 0 |
| 269 | C-band polarimetric weather radar calibration using a fuzzy logic fusion of three techniques. , 2015, , . | | 0 |
| 270 | Performance evaluation of rain products from a polarimetric X-band radar by using a new raw data processing chain. , 2015, , . | | 0 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 271 | Coupling radio propagation and weather forecast models to maximize Ka-band channel transmission rate for interplanetary missions. , 2015, , . | | 0 |
| 272 | Modeling ocean wave surface to simulate spaceborne scatterometer observations in presence of rain. , 2015, , . | | 0 |
| 273 | Assessing Radiative Transfer Models Trained by Numerical Weather Forecasts Using Sun-Tracking Radiometric Measurements for Satellite Link Characterization Up to W Band. , 2018, , . | | 0 |
| 274 | Interpretation of weather radar returns from single and distributed scatterers. , 2018, , . | | 0 |
| 275 | Resilience of Deep Space FSO Communication Scenario Involving SNSPD Receiver to Atmospheric Turbulence. , 2019, , . | | 0 |
| 276 | An Introduction to Rain Gauges and Disdrometers. , 2011, , 107-114. | | 0 |
| 277 | Radiative Transfer, Theory. Encyclopedia of Earth Sciences Series, 2014, , 624-634. | 0.1 | 0 |
| 278 | Radiation, Multiple Scattering. Encyclopedia of Earth Sciences Series, 2014, , 585-588. | 0.1 | 0 |
| 279 | Weather radar performance monitoring using a metallic-grid ground-scatterer. , 2017, , . | | 0 |
| 280 | X-Band Synthetic Aperture Radar Methods. Advances in Global Change Research, 2020, , 315-339. | 1.6 | 0 |
| 281 | Advanced Techniques for Polarimetric Radar Estimation of Rainfall. Water Science and Technology Library, 2009, , 69-92. | 0.2 | 0 |
| 282 | Regional Precipitation Mosaicking Using Multifrequency Weather Radar Network In Complex Orography. , 2020, , . | | 0 |
| 283 | Testbed Emulator of Satellite-to-Ground FSO Downlink Affected by Atmospheric Seeing Including Scintillations and Clouds. Electronics (Switzerland), 2022, 11, 1102. | 1.8 | 0 |
| 284 | BepiColombo Mission to Mercury: Designing RadioMetOP Weather-Forecast Based Operations to Improve Satellite Data Throughput at Ka-Band. , 2022, , . | | 0 |
| 285 | Coastal Water Quality: Hydrometeorological Impact of River Overflow and High-resolution Mapping from Sentinel-2 Satellite. , 0, , . | | 0 |