

# Frank Marzano

## List of Publications by Year in descending order

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285  
papers

4,227  
citations

147566

31  
h-index

197535

49  
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310  
all docs

310  
docs citations

310  
times ranked

2721  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	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
4	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
5	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
6	Testbed Emulator of Satellite-to-Ground FSO Downlink Affected by Atmospheric Seeing Including Scintillations and Clouds. Electronics (Switzerland), 2022, 11, 1102.	1.8	0
7	Short-term Forecast of Radiocommunication Geostationary Satellite Links coupling Weather Prediction and Radiopropagation Models. , 2022, , .		2
8	BepiColombo Mission to Mercury: Designing RadioMetOP Weather-Forecast Based Operations to Improve Satellite Data Throughput at Ka-Band. , 2022, , .		0
9	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
10	Optimal Stochastic Prediction and Verification of Signal-to-Noise Ratio and Data Rate for Ka-Band Spaceborne Telemetry Using Weather Forecasts. IEEE Transactions on Antennas and Propagation, 2021, 69, 1065-1077.	3.1	9
11	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
12	Weather-forecast based RMOP link-budget approach experimentation: data-transfer optimization at Ka-band with Hayabusa-2 satellite mission support. , 2021, , .		2
13	Development and Application of Microwave Radiometric Techniques for Modeling Satellite-Earth Propagation at V and W Band. , 2021, , .		4
14	MEO Satellite Ka-band Receiving Stations for Tropospheric Propagation Impairment Analysis: Design, Architecture and Preliminary Measurements. , 2021, , .		2
15	Dual-Wavelength Polarimetric Lidar Observations of the Volcanic Ash Cloud Produced during the 2016 Etna Eruption. Remote Sensing, 2021, 13, 1728.	1.8	3
16	Improving atmospheric path attenuation estimates for radio propagation applications by microwave radiometric profiling. Atmospheric Measurement Techniques, 2021, 14, 2737-2748.	1.2	2
17	Examples of Multi-Sensor Determination of Eruptive Source Parameters of Explosive Events at Mount Etna. Remote Sensing, 2021, 13, 2097.	1.8	23
18	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

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19	Investigating 3D and 4D variational rapid-update-cycling assimilation of weather radar reflectivity for a heavy rain event in central Italy. <i>Natural Hazards and Earth System Sciences</i> , 2021, 21, 2849-2865.	1.5	5
20	Gazing inside a giant-hail-bearing Mediterranean supercell by dual-polarization Doppler weather radar. <i>Atmospheric Research</i> , 2021, 264, 105852.	1.8	23
21	Satellite-Based Detection of Volcanic Plumes: Synergy Between Thermal Infrared and Millimeter Wave Radiometric Data During the 2014 Kelud Event. , 2021, , .		2
22	Sun-Tracking Ground-Based Microwave Radiometry: Challenges and Applications. , 2021, , .		1
23	A Closed-Form Model for Long- and Short-Range Forward Scatter Radar Signals From Rectangular Conductive Targets. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , 2020, 56, 1370-1390.	2.6	6
24	Reflectivity and velocity radar data assimilation for two flash flood events in central Italy: A comparison between 3D and 4D variational methods. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2020, 146, 348-366.	1.0	12
25	Generalized Parametric Prediction Model of the Mean Radiative Temperature for Microwave Slant Paths in All-Weather Condition. <i>IEEE Transactions on Antennas and Propagation</i> , 2020, 68, 1031-1043.	3.1	3
26	Tephra Mass Eruption Rate From Ground-Based X-Band and L-Band Microwave Radars During the November 23, 2013, Etna Paroxysm. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2020, 58, 3314-3327.	2.7	22
27	Multisensor Characterization of the Incandescent Jet Region of Lava Fountain-Fed Tephra Plumes. <i>Remote Sensing</i> , 2020, 12, 3629.	1.8	15
28	Investigating ground-based radar and spaceborne infrared radiometer synergy for lightning areal prediction in complex orography. <i>Bulletin of Atmospheric Science and Technology</i> , 2020, 1, 231-256.	0.4	1
29	Clear-Air Anomaly Masking Using Kalman Temporal Filter From Geostationary Multispectral Imagery. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2020, 58, 7908-7919.	2.7	1
30	X-Band Synthetic Aperture Radar Methods. <i>Advances in Global Change Research</i> , 2020, , 315-339.	1.6	0
31	Free Space Optics System Reliability in the Presence of Weather-Induced Disruptions. <i>Computer Communications and Networks</i> , 2020, , 327-351.	0.8	6
32	Regional Precipitation Mosaicking Using Multifrequency Weather Radar Network In Complex Orography. , 2020, , .		0
33	The Alphasat Aldo Paraboni propagation experiment: Measurement campaign at the Italian ground stations. <i>International Journal of Satellite Communications and Networking</i> , 2019, 37, 423-436.	1.2	11
34	Exploiting Tropospheric Measurements From Sun-Tracking Radiometer for Radiopropagation Models at Centimeter and Millimeter Wave. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2019, 12, 1697-1708.	2.3	5
35	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
36	Atmospheric Gas Absorption Knowledge in the Submillimeter: Modeling, Field Measurements, and Uncertainty Quantification. <i>Bulletin of the American Meteorological Society</i> , 2019, 100, ES291-ES295.	1.7	6

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37	RTTOV-gb v1.0 " updates on sensors, absorption models, uncertainty, and availability. Geoscientific Model Development, 2019, 12, 1833-1845.	1.3	11
38	Assessment and Uncertainty Estimation of Weather-Forecast Driven Data Transfer for Space Exploration at Ka- and X-Band. IEEE Transactions on Antennas and Propagation, 2019, 67, 3308-3322.	3.1	8
39	Remote Sensing of Coastal Water-quality Parameters from Sentinel-2 Satellite Data in the Tyrrhenian and Adriatic Seas. , 2019, , .		3
40	Geocalibrating Millimeter-wave Spaceborne Radiometers for Global-scale Cloud Retrieval. , 2019, , .		1
41	Modeling and Predicting Down-link Tropospheric Channel above Ku Band for Interplanetary Exploration. , 2019, , .		1
42	Resilience of Deep Space FSO Communication Scenario Involving SNSPD Receiver to Atmospheric Turbulence. , 2019, , .		0
43	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
44	Fuzzy-logic detection and probability of hail exploiting short-range X-band weather radar. Atmospheric Research, 2018, 201, 17-33.	1.8	14
45	Ingestion of Sentinel-Derived Remote Sensing Products in Numerical Weather Prediction Models: First Results of the ESA Steam Project. , 2018, , .		2
46	Clear-Air Anomaly Detection Using Modified Kalman Temporal Filter from Geostationary Multispectral Data. , 2018, , .		1
47	Predicting Mean Radiative Temperature at Millimeter Wavelengths in Continental Climate Areas. , 2018, , .		1
48	Snowfall retrieval at X, Ka and W bands: consistency of backscattering and microphysical properties using BAECC ground-based measurements. Atmospheric Measurement Techniques, 2018, 11, 3059-3079.	1.2	32
49	Modeling the Forward-Scatter Cross Section of 3-Dimensional Objects by Means of the Shadow Contour Theorem: An Assessment. , 2018, , .		3
50	Assessing Radiative Transfer Models Trained by Numerical Weather Forecasts Using Sun-Tracking Radiometric Measurements for Satellite Link Characterization Up to W Band. , 2018, , .		0
51	AlphaSat Aldo Paraboni Experiment Q-Band Receiving Station in Rome (Italy): Upgrades and Preliminary Scintillation Measurements. , 2018, , .		3
52	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
53	Ground-Based Measurements of the 2014-2015 Holuhraun Volcanic Cloud (Iceland). Geosciences (Switzerland), 2018, 8, 29.	1.0	35
54	Interpretation of weather radar returns from single and distributed scatterers. , 2018, , .		0

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55	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
56	Effects of atmospheric precipitations and turbulence on satellite Ka-band synthetic aperture radar. , 2018, , .		1
57	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
58	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
59	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
60	Improving weather-forecast based model chain to optimize data-volume transfer for Ka-band deep-space downlinks. , 2017, , .		1
61	Clear-air scintillation analysis of Q-band alphasat link at Spino d'Adda using radiosounding data. , 2017, , .		4
62	Investigating the shadow radiation of 3-dimensional radar targets in the near field. , 2017, , .		6
63	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
64	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
65	Weather radar performance monitoring using a metallic-grid ground-scatterer. , 2017, , .		0
66	KydroSAT: a Ku/Ka band synthetic aperture radar space mission concept for high-resolution mapping of hydrometeorological parameters. , 2017, , .		1
67	Monitoring by forward scatter radar techniques: an improved second-order analytical model. , 2017, , .		2
68	Bayesian statistical analysis of ground-clutter for the relative calibration of dual polarization weather radars. European Journal of Remote Sensing, 2016, 49, 933-953.	1.7	9
69	A Multi-Sensor Approach for Volcanic Ash Cloud Retrieval and Eruption Characterization: The 23 November 2013 Etna Lava Fountain. Remote Sensing, 2016, 8, 58.	1.8	62
70	Spaceborne microwave and infrared radiometric observations during the sub-Plinian eruption of Calbuco volcano in 2015. , 2016, , .		1
71	Ultraviolet Scattering Communication Channels. Signals and Communication Technology, 2016, , 145-170.	0.4	3
72	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

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73	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
74	Detection and quantification of precipitations signatures on synthetic aperture radar imagery at X band. Proceedings of SPIE, 2016, , .	0.8	2
75	Retrieval of precipitation extinction using ground-based sun-tracking millimeter-wave radiometry. , 2016, , .		3
76	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
77	Atmospheric precipitation impact on synthetic aperture radar imagery: Numerical model at X and KA bands. , 2015, , .		4
78	Forward scatter radar modeling: Effects of near field for canonical targets. , 2015, , .		2
79	Hail detection in Naples urban area using single-polarization X-band weather radar: Preliminary results. , 2015, , .		1
80	C-band polarimetric weather radar calibration using a fuzzy logic fusion of three techniques. , 2015, , .		0
81	Performance evaluation of rain products from a polarimetric X-band radar by using a new raw data processing chain. , 2015, , .		0
82	Coupling radio propagation and weather forecast models to maximize Ka-band channel transmission rate for interplanetary missions. , 2015, , .		0
83	Modeling ocean wave surface to simulate spaceborne scatterometer observations in presence of rain. , 2015, , .		0
84	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
85	Clear-air turbulence effects modeling on terrestrial and satellite free-space optical channels. , 2015, , .		3
86	Analysis of canonical targets in near field for Forward Scatter Radar applications. , 2015, , .		3
87	Microphysical characterization of free space optical link due to hydrometeor and fog effects. Applied Optics, 2015, 54, 6787.	2.1	21
88	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
89	Volcanic Ash Cloud Observation using Ground-based Ka-band Radar and Near-Infrared Lidar Ceilometer during the Eyjafjallajökull eruption. Annals of Geophysics, 2015, 57, .	0.5	2
90	Overview of the first HyMeX Special Observation Period over Italy: observations and model results. Hydrology and Earth System Sciences, 2014, 18, 1953-1977.	1.9	58

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91	Interpretation of observed microwave signatures from ground dual polarization radar and space multi-frequency radiometer for the 2011 GrÃmsvÃtn volcanic eruption. Atmospheric Measurement Techniques, 2014, 7, 537-552.	1.2	20
92	Overview: Tropospheric profiling: state of the art and future challenges â introduction to the AMT special issue. Atmospheric Measurement Techniques, 2014, 7, 2981-2986.	1.2	6
93	Modeling scintillation effects on free space optical links using radiosounding profile data. , 2014, , .		2
94	Investigating Hector Convective Development and Microphysical Structure Using High-Resolution Model Simulations, Ground-Based Radar Data, and TRMM Satellite Data. Journals of the Atmospheric Sciences, 2014, 71, 1353-1370.	0.6	6
95	HyMeX-SOP1: The Field Campaign Dedicated to Heavy Precipitation and Flash Flooding in the Northwestern Mediterranean. Bulletin of the American Meteorological Society, 2014, 95, 1083-1100.	1.7	262
96	Precipitation signature on side-looking aperture radar imaging: Sensitivity analysis to surface effects at C, X and Ku band. , 2014, , .		3
97	Exploiting microwave scanning radar for monitoring Icelandic volcanic eruption source parameters. , 2014, , .		2
98	Evaluation of deep space Ka-band data transfer using radiometeorological forecast models. , 2014, , .		3
99	Dielectric lens optimization for conical helix THz antennas. , 2014, , .		1
100	Impact of radar data assimilation for the simulation of a heavy rainfall case in central Italy using WRFâ3DVAR. Atmospheric Measurement Techniques, 2014, 7, 2919-2935.	1.2	28
101	Discrimination of Water Surfaces, Heavy Rainfall, and Wet Snow Using COSMO-SkyMed Observations of Severe Weather Events. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 858-869.	2.7	63
102	Evaluation of a New Polarimetric Algorithm for Rain-Path Attenuation Correction of X-Band Radar Observations Against Disdrometer. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 1369-1380.	2.7	31
103	Accuracy of real-time sky status indicator (SSI) for the characterization of a satellite communication link at microwave bands. , 2014, , .		0
104	Scattering properties of modeled complex snowflakes and mixedâphase particles at microwave and millimeter frequencies. Journal of Geophysical Research D: Atmospheres, 2014, 119, 9931-9947.	1.2	28
105	Effects of multiple scattering due to atmospheric water particles on outdoor Free Space Optical links. , 2014, , .		0
106	Modeling atmospheric precipitation impact on synthetic aperture radar imagery at X and Ka bands. , 2014, , .		2
107	Radiative Transfer, Theory. Encyclopedia of Earth Sciences Series, 2014, , 624-634.	0.1	0
108	Radiation, Multiple Scattering. Encyclopedia of Earth Sciences Series, 2014, , 585-588.	0.1	0

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109	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
110	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
111	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
112	Remote sensing of volcanic ash: Synergistic use of ash models and microwave observations of the erupting plumes. , 2013, , .		0
113	Microwave remote sensing of the 2011 Plinian eruption of the Gr�msv�tn Icelandic volcano. Remote Sensing of Environment, 2013, 129, 168-184.	4.6	28
114	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
115	Hydrometeor scattering and stochastic modeling for free-space optical channel characterization. , 2013, , .		3
116	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
117	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
118	Inside Volcanic Clouds: Remote Sensing of Ash Plumes Using Microwave Weather Radars. Bulletin of the American Meteorological Society, 2013, 94, 1567-1586.	1.7	53
119	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
120	On the Use of Dual-Polarized C-Band Radar for Operational Rainfall Retrieval in Mountainous Areas. Journal of Applied Meteorology and Climatology, 2012, 51, 405-425.	0.6	113
121	Radar remote sensing of ash cloud due to the Gr�msv�tn sub-glacial explosive eruption on 2011. , 2012, , .		0
122	X-band signatures of floods and heavy rain in Cosmo SkyMed images. , 2012, , .		0
123	Detection of floods and heavy rain using Cosmo-SkyMed data: The event in Northwestern Italy of November 2011. , 2012, , .		12
124	Characterization of hydrometeor scattering effects and experimental measurements using near-infrared free-space urban links. , 2012, , .		4
125	Review of radar measurements of precipitation for the characterization of propagation effects on terrestrial and slant path radio links. , 2012, , .		1
126	Analysis of rainfall signatures on COSMO-SkyMed X-Band Synthetic Aperture Radar observations. , 2012, , .		3



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127	Microwave and optical active remote sensing signatures of volcanic ash clouds from ground. , 2012, , .		2
128	Lessons learned from using COSMO-SkyMed imagery for flood mapping: some case studies. , 2012, , .		1
129	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
130	X-band weather radar monitoring real-time products in Rome and Naples urban areas. , 2012, , .		2
131	Design and characterization of the Q-band AlphaSat receiving station in Rome. , 2012, , .		2
132	Rateless codes performance tests on terrestrial FSO time-correlated channel model. , 2012, , .		3
133	Passive microwave remote sensing of Plinian eruption due to the Gr&#amp;#x00ED;msv&#amp;#x00F6;tn Icelandic volcano. , 2012, , .		2
134	Lunar sub-surface remote sensing by spaceborne microwave Interferometric Radiometers: Analysis and preliminary results. , 2012, , .		0
135	Model analysis of hydrometeor scattering effects on free space near-infrared links. , 2012, , .		5
136	Instruments, data and techniques for the assessment of the atmospheric noise emission in Satcom ground stations. , 2012, , .		4
137	60 GHz tapered-helix antenna for WPAN applications. , 2012, , .		1
138	Synthetic Signatures of Volcanic Ash Cloud Particles From X-Band Dual-Polarization Radar. IEEE Transactions on Geoscience and Remote Sensing, 2012, 50, 193-211.	2.7	47
139	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
140	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
141	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
142	The NanoROLD project in the frame of the AeroClouds programme. International Journal of Remote Sensing, 2011, 32, 5303-5319.	1.3	0
143	Remote sensing of the Moon's subsurface with multifrequency microwave radiometers: A numerical study. Radio Science, 2011, 46, .	0.8	28
144	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

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145	Potential of high-resolution detection and retrieval of precipitation fields from X-band spaceborne synthetic aperture radar over land. <i>Hydrology and Earth System Sciences</i> , 2011, 15, 859-875.	1.9	37
146	The Eyjafj��ll explosive volcanic eruption from a microwave weather radar perspective. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 9503-9518.	1.9	34
147	Prediction of the Error Induced by Topography in Satellite Microwave Radiometric Observations. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2011, 49, 3180-3188.	2.7	23
148	Lunar Microwave Brightness Temperature: Model Interpretation and Inversion of Spaceborne Multifrequency Observations by a Neural Network Approach. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2011, 49, 3350-3358.	2.7	15
149	Synergic use of EO, NWP and ground based measurements for the mitigation of vapour artefacts in SAR interferometry. , 2011, , .		3
150	Meteorological Radar Systems. , 2011, , 33-57.		2
151	An Introduction to Rain Gauges and Disdrometers. , 2011, , 107-114.		0
152	Evidence of Rainfall Signatures on X-Band Synthetic Aperture Radar Imagery Over Land. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2010, 48, 950-964.	2.7	34
153	Iterative Bayesian Retrieval of Hydrometeor Content From X-Band Polarimetric Weather Radar. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2010, 48, 3059-3074.	2.7	25
154	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
155	Water vapour distribution at urban scale using high-resolution numerical weather model and spaceborne SAR interferometric data. <i>Natural Hazards and Earth System Sciences</i> , 2010, 10, 121-132.	1.5	14
156	Simulating Topographic Effects on Spaceborne Radiometric Observations Between L and X Frequency Bands. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2010, 48, 273-282.	2.7	23
157	Corrections to ‘‘Modeling Antenna Noise Temperature Due to Rain Clouds at Microwave and Millimeter-Wave Frequencies’’ [Apr 06 1305-1317]. <i>IEEE Transactions on Antennas and Propagation</i> , 2010, 58, 242-242.	3.1	0
158	Topographic effects on spaceborne radiometric observations and possible correction strategies. , 2010, , .		0
159	High-Repetition Millimeter-Wave Passive Remote Sensing of Humidity and Hydrometeor Profiles from Elliptical Orbit Constellations. <i>Journal of Applied Meteorology and Climatology</i> , 2010, 49, 1454-1476.	0.6	4
160	Investigating precipitation microphysics using ground-based microwave remote sensors and disdrometer data. <i>Atmospheric Research</i> , 2010, 97, 583-600.	1.8	64
161	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
162	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

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163	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
164	Atmospheric water vapor effects on spaceborne interferometric SAR imaging: Comparison with ground-based measurements and meteorological model simulations at different scales. , 2009, , .		7
165	FLORAD mission: Millimeter-wave atmospheric remote sensing through mini-satellites flower constellation. , 2009, , .		1
166	Rainfall observation from X-band, space-borne, synthetic aperture radar. Natural Hazards and Earth System Sciences, 2009, 9, 77-84.	1.5	16
167	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
168	Advanced Techniques for Polarimetric Radar Estimation of Rainfall. Water Science and Technology Library, 2009, , 69-92.	0.2	0
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170	Supervised Classification and Estimation of Hydrometeors From C-Band Dual-Polarized Radars: A Bayesian Approach. IEEE Transactions on Geoscience and Remote Sensing, 2008, 46, 85-98.	2.7	54
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