

Adriano Camps

List of Publications by Year in descending order

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479
papers

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citations

47006

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481
all docs

481
docs citations

481
times ranked

3473
citing authors

#	ARTICLE	IF	CITATIONS
1	Tutorial on Remote Sensing Using GNSS Bistatic Radar of Opportunity. IEEE Geoscience and Remote Sensing Magazine, 2014, 2, 8-45.	9.6	388
2	SMOS: The Challenging Sea Surface Salinity Measurement From Space. Proceedings of the IEEE, 2010, 98, 649-665.	21.3	339
3	Downscaling SMOS-Derived Soil Moisture Using MODIS Visible/Infrared Data. IEEE Transactions on Geoscience and Remote Sensing, 2011, 49, 3156-3166.	6.3	328
4	The visibility function in interferometric aperture synthesis radiometry. IEEE Transactions on Geoscience and Remote Sensing, 2004, 42, 1677-1682.	6.3	262
5	Sensitivity of GNSS-R Spaceborne Observations to Soil Moisture and Vegetation. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2016, 9, 4730-4742.	4.9	208
6	Soil Moisture Retrieval Using GNSS-R Techniques: Experimental Results Over a Bare Soil Field. IEEE Transactions on Geoscience and Remote Sensing, 2009, 47, 3616-3624.	6.3	184
7	Land Geophysical Parameters Retrieval Using the Interference Pattern GNSS-R Technique. IEEE Transactions on Geoscience and Remote Sensing, 2011, 49, 71-84.	6.3	177
8	A Downscaling Approach for SMOS Land Observations: Evaluation of High-Resolution Soil Moisture Maps Over the Iberian Peninsula. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, 7, 3845-3857.	4.9	146
9	The determination of surface salinity with the European SMOS space mission. IEEE Transactions on Geoscience and Remote Sensing, 2004, 42, 2196-2205.	6.3	140
10	The processing of hexagonally sampled signals with standard rectangular techniques: application to 2-D large aperture synthesis interferometric radiometers. IEEE Transactions on Geoscience and Remote Sensing, 1997, 35, 183-190.	6.3	138
11	A Change Detection Algorithm for Retrieving High-Resolution Soil Moisture From SMAP Radar and Radiometer Observations. IEEE Transactions on Geoscience and Remote Sensing, 2009, 47, 4125-4131.	6.3	136
12	The WISE 2000 and 2001 field experiments in support of the SMOS mission: sea surface L-band brightness temperature observations and their application to sea surface salinity retrieval. IEEE Transactions on Geoscience and Remote Sensing, 2004, 42, 804-823.	6.3	132
13	Consolidating the Precision of Interferometric GNSS-R Ocean Altimetry Using Airborne Experimental Data. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 4992-5004.	6.3	130
14	Sea Ice Detection Using U.K. TDS-1 GNSS-R Data. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 4989-5001.	6.3	130
15	Combining SMOS with visible and near/shortwave/thermal infrared satellite data for high resolution soil moisture estimates. Journal of Hydrology, 2014, 516, 273-283.	5.4	113
16	Radiometric sensitivity computation in aperture synthesis interferometric radiometry. IEEE Transactions on Geoscience and Remote Sensing, 1998, 36, 680-685.	6.3	105
17	GEROS-ISS: GNSS Reflectometry, Radio Occultation, and Scatterometry Onboard the International Space Station. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2016, 9, 4552-4581.	4.9	99
18	MIRAS end-to-end calibration: application to SMOS L1 processor. IEEE Transactions on Geoscience and Remote Sensing, 2005, 43, 1126-1134.	6.3	91

#	ARTICLE	IF	CITATIONS
19	Airborne GNSS-R Wind Retrievals Using Delay-Doppler Maps. IEEE Transactions on Geoscience and Remote Sensing, 2013, 51, 626-641.	6.3	85
20	Retrieval of Significant Wave Height and Mean Sea Surface Level Using the GNSS-R Interference Pattern Technique: Results From a Three-Month Field Campaign. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 3198-3209.	6.3	84
21	An Efficient Algorithm to the Simulation of Delay-Doppler Maps of Reflected Global Navigation Satellite System Signals. IEEE Transactions on Geoscience and Remote Sensing, 2009, 47, 2733-2740.	6.3	82
22	Altimetry with GNSS-R interferometry: first proof of concept experiment. GPS Solutions, 2012, 16, 231-241.	4.3	81
23	Correction of the Sea State Impact in the L-Band Brightness Temperature by Means of Delay-Doppler Maps of Global Navigation Satellite Signals Reflected Over the Sea Surface. IEEE Transactions on Geoscience and Remote Sensing, 2008, 46, 2914-2923.	6.3	79
24	On-board phase and modulus calibration of large aperture synthesis radiometers: study applied to MIRAS. IEEE Transactions on Geoscience and Remote Sensing, 1996, 34, 1000-1009.	6.3	72
25	The emissivity of foam-covered water surface at L-band: theoretical modeling and experimental results from the FROG 2003 field experiment. IEEE Transactions on Geoscience and Remote Sensing, 2005, 43, 925-937.	6.3	72
26	Using GNSS-R Imaging of the Ocean Surface for Oil Slick Detection. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2013, 6, 217-223.	4.9	72
27	Review of crop growth and soil moisture monitoring from a ground-based instrument implementing the Interference Pattern GNSS-R Technique. Radio Science, 2011, 46, .	1.6	71
28	L-band vegetation optical depth seasonal metrics for crop yield assessment. Remote Sensing of Environment, 2018, 212, 249-259.	11.0	69
29	Spatial Resolution in GNSS-R Under Coherent Scattering. IEEE Geoscience and Remote Sensing Letters, 2020, 17, 32-36.	3.1	67
30	Microwave interferometric radiometry in remote sensing: An invited historical review. Radio Science, 2014, 49, 415-449.	1.6	66
31	Sensitivity of TDS-1 GNSS-R Reflectivity to Soil Moisture: Global and Regional Differences and Impact of Different Spatial Scales. Remote Sensing, 2018, 10, 1856.	4.0	66
32	Synthesis of large low-redundancy linear arrays. IEEE Transactions on Antennas and Propagation, 2001, 49, 1881-1883.	5.1	63
33	A new empirical model of sea surface microwave emissivity for salinity remote sensing. Geophysical Research Letters, 2004, 31, .	4.0	63
34	Improved Image Reconstruction Algorithms for Aperture Synthesis Radiometers. IEEE Transactions on Geoscience and Remote Sensing, 2008, 46, 146-158.	6.3	61
35	Dual-Polarization GNSS-R Interference Pattern Technique for Soil Moisture Mapping. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, 7, 1533-1544.	4.9	61
36	Angular resolution of two-dimensional, hexagonally sampled interferometric radiometers. Radio Science, 1998, 33, 1459-1473.	1.6	58

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37	Sea-State Determination Using GNSS-R Data. IEEE Geoscience and Remote Sensing Letters, 2010, 7, 621-625.	3.1	58
38	Optimization and Performance Analysis of Interferometric GNSS-R Altimeters: Application to the PARIS IoD Mission. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, 7, 1436-1451.	4.9	58
39	Sea Target Detection Using Spaceborne GNSS-R Delay-Doppler Maps: Theory and Experimental Proof of Concept Using TDS-1 Data. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2017, 10, 4237-4255.	4.9	58
40	Using DDM Asymmetry Metrics for Wind Direction Retrieval From GPS Ocean-Scattered Signals in Airborne Experiments. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 3924-3936.	6.3	55
41	GNSS Transpolar Earth Reflectometry exploriNg System (G-TERN): Mission Concept. IEEE Access, 2018, 6, 13980-14018.	4.2	55
42	Extension of the Clean Technique to the Microwave Imaging of Continuous Thermal Sources by Means of Aperture Synthesis Radiometers. Progress in Electromagnetics Research, 1998, 18, 67-83.	4.4	53
43	Radio-Frequency Interference Detection and Mitigation Algorithms for Synthetic Aperture Radiometers. Algorithms, 2011, 4, 155-182.	2.1	51
44	Ocean Surface's Scattering Coefficient Retrieval by Delay-Doppler Map Inversion. IEEE Geoscience and Remote Sensing Letters, 2011, 8, 750-754.	3.1	50
45	Sun effects in 2-D aperture synthesis radiometry imaging and their cancelation. IEEE Transactions on Geoscience and Remote Sensing, 2004, 42, 1161-1167.	6.3	49
46	Improved MUSIC-Based SMOS RFI Source Detection and Geolocation Algorithm. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 1311-1322.	6.3	49
47	A Spatially Consistent Downscaling Approach for SMOS Using an Adaptive Moving Window. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2018, 11, 1883-1894.	4.9	49
48	Impact of antenna errors on the radiometric accuracy of large aperture synthesis radiometers. Radio Science, 1997, 32, 657-668.	1.6	48
49	Brightness-Temperature Retrieval Methods in Synthetic Aperture Radiometers. IEEE Transactions on Geoscience and Remote Sensing, 2009, 47, 285-294.	6.3	48
50	Vegetation Water Content Estimation Using GNSS Measurements. IEEE Geoscience and Remote Sensing Letters, 2012, 9, 282-286.	3.1	48
51	High Angular Resolution RFI Localization in Synthetic Aperture Interferometric Radiometers Using Direction-of-Arrival Estimation. IEEE Geoscience and Remote Sensing Letters, 2015, 12, 102-106.	3.1	48
52	3Cat-2: An Experimental Nanosatellite for GNSS-R Earth Observation: Mission Concept and Analysis. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2016, 9, 4540-4551.	4.9	48
53	Normality Analysis for RFI Detection in Microwave Radiometry. Remote Sensing, 2010, 2, 191-210.	4.0	46
54	Design and First Results of an UAV-Borne L-Band Radiometer for Multiple Monitoring Purposes. Remote Sensing, 2010, 2, 1662-1679.	4.0	45

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55	Snow Thickness Monitoring Using GNSS Measurements. IEEE Geoscience and Remote Sensing Letters, 2012, 9, 1109-1113.	3.1	45
56	Impact of receiver errors on the radiometric resolution of large two-dimensional aperture synthesis radiometers. Radio Science, 1997, 32, 629-641.	1.6	44
57	Multi-Temporal Evaluation of Soil Moisture and Land Surface Temperature Dynamics Using in Situ and Satellite Observations. Remote Sensing, 2016, 8, 587.	4.0	44
58	First Polarimetric GNSS-R Measurements from a Stratospheric Flight over Boreal Forests. Remote Sensing, 2015, 7, 13120-13138.	4.0	43
59	Internet of Satellites (IoSat): Analysis of Network Models and Routing Protocol Requirements. IEEE Access, 2018, 6, 20390-20411.	4.2	43
60	The SMOS end-to-end performance simulator: description and scientific applications. , 0, , .		42
61	Predicting the Extent of Wildfires Using Remotely Sensed Soil Moisture and Temperature Trends. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2016, 9, 2818-2829.	4.9	42
62	Polarimetric Formulation of the Visibility Function Equation Including Cross-Polar Antenna Patterns. IEEE Geoscience and Remote Sensing Letters, 2005, 2, 292-295.	3.1	41
63	Precision Bounds in GNSS-R Ocean Altimetry. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, 7, 1416-1423.	4.9	41
64	First Results of a GNSS-R Experiment From a Stratospheric Balloon Over Boreal Forests. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 2652-2663.	6.3	41
65	Sea surface emissivity observations at L-band: first results of the Wind and Salinity Experiment WISE 2000. IEEE Transactions on Geoscience and Remote Sensing, 2002, 40, 2117-2130.	6.3	40
66	Sensitivity of L-band vegetation optical depth to carbon stocks in tropical forests: a comparison to higher frequencies and optical indices. Remote Sensing of Environment, 2019, 232, 111303.	11.0	40
67	Wind speed effect on L-band brightness temperature inferred from EuroSTARRS and WISE 2001 field experiments. IEEE Transactions on Geoscience and Remote Sensing, 2004, 42, 2206-2213.	6.3	38
68	Spatial-Resolution Enhancement of SMOS Data: A Deconvolution-Based Approach. IEEE Transactions on Geoscience and Remote Sensing, 2009, 47, 2182-2192.	6.3	38
69	GNSS-R Derived Centimetric Sea Topography: An Airborne Experiment Demonstration. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2013, 6, 1468-1478.	4.9	37
70	Analysis of noise-injection networks for interferometric-radiometer calibration. IEEE Transactions on Microwave Theory and Techniques, 2000, 48, 545-552.	4.6	36
71	L-band sea surface emissivity: Preliminary results of the WISE-2000 campaign and its application to salinity retrieval in the SMOS mission. Radio Science, 2003, 38, n/a-n/a.	1.6	36
72	On the Synergy of Airborne GNSS-R and Landsat 8 for Soil Moisture Estimation. Remote Sensing, 2015, 7, 9954-9974.	4.0	36

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73	Retrieving sea surface salinity with multiangular L-band brightness temperatures: Improvement by spatiotemporal averaging. <i>Radio Science</i> , 2005, 40, n/a-n/a.	1.6	35
74	Determination of sea surface salinity and wind speed by L-band microwave radiometry from a fixed platform. <i>International Journal of Remote Sensing</i> , 2004, 25, 111-128.	2.9	34
75	Performance of sea surface salinity and soil moisture retrieval algorithms with different auxiliary datasets in 2-D L-band aperture synthesis interferometric radiometers. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2005, 43, 1189-1200.	6.3	34
76	Assessing LoRa for Satellite-to-Earth Communications Considering the Impact of Ionospheric Scintillation. <i>IEEE Access</i> , 2020, 8, 165570-165582.	4.2	34
77	Experimental Evaluation of GNSS-Reflectometry Altimetric Precision Using the P(Y) and C/A Signals. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2014, 7, 1493-1500.	4.9	33
78	Ionospheric Effects in GNSS-Reflectometry From Space. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2016, 9, 5851-5861.	4.9	33
79	Impact on Sea Surface Salinity Retrieval of Different Auxiliary Data Within the SMOS Mission. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2006, 44, 2769-2778.	6.3	32
80	New Instrument Concepts for Ocean Sensing: Analysis of the PAU-Radiometer. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2007, 45, 3180-3192.	6.3	32
81	Experimental Determination of the Sea Correlation Time Using GNSS-R Coherent Data. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2010, 7, 675-679.	3.1	32
82	Mitigation of Direct Signal Cross-Talk and Study of the Coherent Component in GNSS-R. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2015, 12, 279-283.	3.1	32
83	Denormalization of Visibilities for In-Orbit Calibration of Interferometric Radiometers. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2006, 44, 2679-2686.	6.3	31
84	Cross-Correlation Waveform Analysis for Conventional and Interferometric GNSS-R Approaches. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2014, 7, 1560-1572.	4.9	31
85	Automatic calibration of channels frequency response in interferometric radiometers. <i>Electronics Letters</i> , 1999, 35, 115.	1.0	30
86	On-Ground Characterization of the SMOS Payload. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2009, 47, 3123-3133.	6.3	30
87	Radio Frequency Interference Detection and Mitigation Algorithms Based on Spectrogram Analysis. <i>Algorithms</i> , 2011, 4, 239-261.	2.1	30
88	Analysis of Spaceborne GNSS-R Delay-Doppler Tracking. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2014, 7, 1481-1492.	4.9	30
89	Nodal Sampling: A New Image Reconstruction Algorithm for SMOS. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2016, 54, 2314-2328.	6.3	30
90	Improving the Accuracy of Soil Moisture Retrievals Using the Phase Difference of the Dual-Polarization GNSS-R Interference Patterns. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2014, 11, 2090-2094.	3.1	29

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91	Feasibility of precise navigation in high and low latitude regions under scintillation conditions. Journal of Space Weather and Space Climate, 2018, 8, A05.	3.3	29
92	Snow and Ice Thickness Retrievals Using GNSS-R: Preliminary Results of the MOSAiC Experiment. Remote Sensing, 2020, 12, 4038.	4.0	29
93	In-Orbit Validation of the FMPL-2 Instrumentâ€™The GNSS-R and L-Band Microwave Radiometer Payload of the FSSCat Mission. Remote Sensing, 2021, 13, 121.	4.0	29
94	Analysis of correlation and total power radiometer front-ends using noise waves. IEEE Transactions on Geoscience and Remote Sensing, 2005, 43, 2452-2459.	6.3	28
95	Impact of day/night time land surface temperature in soil moisture disaggregation algorithms. European Journal of Remote Sensing, 2016, 49, 899-916.	3.5	28
96	Assessment of Multi-Scale SMOS and SMAP Soil Moisture Products across the Iberian Peninsula. Remote Sensing, 2020, 12, 570.	4.0	28
97	Surface Topography and Mixed-Pixel Effects on the Simulated L-Band Brightness Temperatures. IEEE Transactions on Geoscience and Remote Sensing, 2007, 45, 1996-2003.	6.3	27
98	Fast Processing Tool for SMOS Data. , 2008, , .		27
99	End-to-end simulator for Global Navigation Satellite System Reflectometry space mission. , 2010, , .		27
100	Numerical Computation of the Electromagnetic Bias in GNSS-R Altimetry. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 489-498.	6.3	27
101	Generic Performance Simulator of Spaceborne GNSS-Reflectometer for Land Applications. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2020, 13, 3179-3191.	4.9	27
102	The Flexible Microwave Payload-2: A SDR-Based GNSS-Reflectometer and <i>L</i>-Band Radiometer for CubeSats. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2020, 13, 1298-1311.	4.9	27
103	RFI Mitigation in Microwave Radiometry Using Wavelets. Algorithms, 2009, 2, 1248-1262.	2.1	26
104	Rfianalysis in smos imagery. , 2010, , .		26
105	Retracking considerations in spaceborne GNSS-R altimetry. GPS Solutions, 2012, 16, 507-518.	4.3	26
106	Delay Tracking in Spaceborne GNSS-R Ocean Altimetry. IEEE Geoscience and Remote Sensing Letters, 2013, 10, 57-61.	3.1	26
107	Fsscat, the 2017 Copernicus Mastersâ€™™ â€œEsa Sentinel Small Satellite Challengeâ€™Winner: A Federated Polar and Soil Moisture Tandem Mission Based on 6U Cubesats. , 2018, , .		26
108	End-to-end simulator of two-dimensional interferometric radiometry. Radio Science, 2003, 38, n/a-n/a.	1.6	25

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109	Common Mathematical Framework for Real and Synthetic Aperture by Interferometry Radiometers. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 38-50.	6.3	25
110	Benefits of Using Mobile Ad-Hoc Network Protocols in Federated Satellite Systems for Polar Satellite Missions. IEEE Access, 2018, 6, 56356-56367.	4.2	25
111	A Review of RFI Mitigation Techniques in Microwave Radiometry. Remote Sensing, 2019, 11, 3042.	4.0	25
112	SMOS REFLEX 2003: L-band emissivity characterization of vineyards. IEEE Transactions on Geoscience and Remote Sensing, 2005, 43, 973-982.	6.3	24
113	A Generic Level 1 Simulator for Spaceborne GNSS-R Missions and Application to GEROS-ISS Ocean Reflectometry. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2017, 10, 4645-4659.	4.9	24
114	Single-Pass Soil Moisture Retrievals Using GNSS-R: Lessons Learned. Remote Sensing, 2020, 12, 2064.	4.0	24
115	AMIRAS An Airborne MIRAS Demonstrator. IEEE Transactions on Geoscience and Remote Sensing, 2008, 46, 705-716.	6.3	23
116	Calibration of Correlation Radiometers Using Pseudo-Random Noise Signals. Sensors, 2009, 9, 6131-6149.	3.8	23
117	Characterization of the SMOS Instrumental Error Pattern Correction Over the Ocean. IEEE Geoscience and Remote Sensing Letters, 2012, 9, 793-797.	3.1	23
118	Advanced architectures for real-time Delay-Doppler Map GNSS-reflectometers: The GPS reflectometer instrument for PAU (griPAU). Advances in Space Research, 2010, 46, 196-207.	2.6	22
119	Determination of the Sea Surface Salinity Error Budget in the Soil Moisture and Ocean Salinity Mission. IEEE Transactions on Geoscience and Remote Sensing, 2010, 48, 1684-1693.	6.3	22
120	Improving the accuracy of sea surface salinity retrieval using GNSS-R data to correct the sea state effect. Radio Science, 2011, 46, .	1.6	22
121	PARIS Interferometric Technique proof of concept: Sea surface altimetry measurements. , 2012, , .		22
122	Modeling and Analysis of GNSS-R Waveforms Sample-to-Sample Correlation. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, 7, 1545-1559.	4.9	22
123	Performance Assessment of Time-Frequency RFI Mitigation Techniques in Microwave Radiometry. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2017, 10, 3096-3106.	4.9	22
124	The correlation of visibility noise and its impact on the radiometric resolution of an aperture synthesis radiometer. IEEE Transactions on Geoscience and Remote Sensing, 2000, 38, 2423-2426.	6.3	21
125	Noise maps in aperture synthesis radiometric images due to cross-correlation of visibility noise. Radio Science, 2003, 38, n/a-n/a.	1.6	21
126	The light airborne reflectometer for GNSS-R observations (LARGO) instrument: Initial results from airborne and Rover field campaigns. , 2014, , .		21

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127	SNR Degradation in GNSS-R Measurements Under the Effects of Radio-Frequency Interference. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2016, 9, 4865-4878.	4.9	21
128	The Role of Climatic Anomalies and Soil Moisture in the Decline of Drought-Prone Forests. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2017, 10, 503-514.	4.9	21
129	Single-Pass Soil Moisture Retrieval Using GNSS-R at L1 and L5 Bands: Results from Airborne Experiment. Remote Sensing, 2021, 13, 797.	4.0	21
130	Potential Synergetic Use of GNSS-R Signals to Improve the Sea-State Correction in the Sea Surface Salinity Estimation: Application to the SMOS Mission. IEEE Transactions on Geoscience and Remote Sensing, 2007, 45, 2088-2097.	6.3	20
131	Simulated SMOS Levels 2 and 3 Products: The Effect of Introducing ARGO Data in the Processing Chain and Its Impact on the Error Induced by the Vicinity of the Coast. IEEE Transactions on Geoscience and Remote Sensing, 2009, 47, 3041-3050.	6.3	20
132	Microwave Radiometer Resolution Optimization Using Variable Observation Times. Remote Sensing, 2010, 2, 1826-1843.	4.0	20
133	Surface moisture and temperature trends anticipate drought conditions linked to wildfire activity in the Iberian Peninsula. European Journal of Remote Sensing, 2016, 49, 955-971.	3.5	20
134	Mutual coupling effects on antenna radiation pattern: An experimental study applied to interferometric radiometers. Radio Science, 1998, 33, 1543-1552.	1.6	18
135	New radiometers: SMOS-a dual pol L-band 2D aperture synthesis radiometer. , 0, , .		18
136	On the Correlation Between GNSS-R Reflectivity and L-Band Microwave Radiometry. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2016, 9, 5862-5879.	4.9	18
137	Improved characterization and modeling of equatorial plasma depletions. Journal of Space Weather and Space Climate, 2018, 8, A38.	3.3	18
138	Gaps Analysis and Requirements Specification for the Evolution of Copernicus System for Polar Regions Monitoring: Addressing the Challenges in the Horizon 2020â€“2030. Remote Sensing, 2018, 10, 1098.	4.0	18
139	Design and Optimization of a Polar Satellite Mission to Complement the Copernicus System. IEEE Access, 2018, 6, 34777-34789.	4.2	18
140	Oil slicks detection using GNSS-R. , 2011, , .		17
141	Simulation and Analysis of GNSS-R Composite Waveforms Using GPS and Galileo Signals. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, 7, 1461-1468.	4.9	17
142	First Dual-Band Multiconstellation GNSS-R Scatterometry Experiment Over Boreal Forests From a Stratospheric Balloon. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2016, 9, 4743-4751.	4.9	17
143	Soil Moisture Estimation Synergy Using GNSS-R and L-Band Microwave Radiometry Data from FSSCat/FMPL-2. Remote Sensing, 2021, 13, 994.	4.0	17
144	Calibration and experimental results of a two-dimensional interferometric radiometer laboratory prototype. Radio Science, 1997, 32, 1821-1832.	1.6	16

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145	Experimental relationship between the sea brightness temperature changes and the GNSS-R delay-Doppler maps: Preliminary results of the albatross field experiments. , 2009, , .		16
146	On the Use of GNSS-R Data to Correct L-Band Brightness Temperatures for Sea-State Effects: Results of the ALBATROSS Field Experiments. IEEE Transactions on Geoscience and Remote Sensing, 2011, 49, 3225-3235.	6.3	16
147	An imaging algorithm for synthetic aperture interferometric radiometers with built-in RFI mitigation. , 2014, , .		16
148	Unified GNSS-R formulation including coherent and incoherent scattering components. , 2016, , .		16
149	Wind Direction Signatures in GNSS-R Observables from Space. Remote Sensing, 2018, 10, 198.	4.0	16
150	Untangling the Incoherent and Coherent Scattering Components in GNSS-R and Novel Applications. Remote Sensing, 2020, 12, 1208.	4.0	16
151	Redundant space calibration of hexagonal and Y-shaped beamforming radars and interferometric radiometers. International Journal of Remote Sensing, 2003, 24, 5183-5196.	2.9	15
152	Sea state effect on the sea surface emissivity at l-band. IEEE Transactions on Geoscience and Remote Sensing, 2003, 41, 2307-2315.	6.3	15
153	Angular and Radiometric Resolution of Y-Shaped Nonuniform Synthetic Aperture Radiometers for Earth Observation. IEEE Geoscience and Remote Sensing Letters, 2008, 5, 793-795.	3.1	15
154	Sea surface salinity retrievals from HUT-2D L-band radiometric measurements. Remote Sensing of Environment, 2010, 114, 1756-1764.	11.0	15
155	A General Analysis of the Impact of Digitization in Microwave Correlation Radiometers. Sensors, 2011, 11, 6066-6087.	3.8	15
156	Real-Time RFI Detection and Mitigation System for Microwave Radiometers. IEEE Transactions on Geoscience and Remote Sensing, 2013, 51, 4928-4935.	6.3	15
157	DME/TACAN Impact Analysis on GNSS Reflectometry. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2016, 9, 4611-4620.	4.9	15
158	Assessment of Satellite Contacts Using Predictive Algorithms for Autonomous Satellite Networks. IEEE Access, 2020, 8, 100732-100748.	4.2	15
159	L-Band Vegetation Optical Depth Estimation Using Transmitted GNSS Signals: Application to GNSS-Reflectometry and Positioning. Remote Sensing, 2020, 12, 2352.	4.0	15
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