Nazzareno Pierdicca

List of Publications by Year
in descending order

157 papers	3,062 citations	159358 30 h-index	182168 51 g-index
159 all docs	159 docs citations	159 times ranked	2186 citing authors

#	Article	IF	Citations
1	Retrieval of Biogeophysical Parameters From Bistatic Observations of Land at L-Band: A Theoretical Study. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-17.	2.7	4
2	Decorrelation of the Near-Specular Land Scattering in Bistatic Radar Systems. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-13.	2.7	18
3	Mapping Floods in Urban Areas From Dual-Polarization InSAR Coherence Data. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	1.4	11
4	Freezeâ€"Thaw Detection Over High-Latitude Regions by Means of GNSS-R Data. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-13.	2.7	12
5	The Potential of Spaceborne GNSS Reflectometry for Soil Moisture, Biomass, and Freezeâ€"Thaw Monitoring: Summary of a European Space Agency-funded study. IEEE Geoscience and Remote Sensing Magazine, 2022, 10, 8-38.	4.9	12
6	Rough-Surface Polarimetry in Companion SAR Missions. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-15.	2.7	1
7	Decorrelation of the Near-Specular Scattering in GNSS Reflectometry From Space. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-13.	2.7	6
8	Sentinel-1 Sensitivity to Soil Moisture at High Incidence Angle and the Impact on Retrieval Over Seasonal Crops. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 7308-7321.	2.7	21
9	An Introduction to the HydroGNSS GNSS Reflectometry Remote Sensing Mission. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 6987-6999.	2.3	46
10	InSAR Multitemporal Data over Persistent Scatterers to Detect Floodwater in Urban Areas: A Case Study in Beletweyne, Somalia. Remote Sensing, 2021, 13, 37.	1.8	13
11	Sahara Subsurface Characterization Using Cygnss Gnss-R Data. , 2021, , .		0
12	Desert Roughness Retrieval Using CYGNSS GNSS-R Data. , 2021, , .		0
13	Temporal Decorrelation of Scattered GNSS Signals. , 2021, , .		0
14	Optimal Spatial Resolution of Sentinel-1 Surface Soil Moisture Evaluated Using Intensive in Situ Observations. , 2021, , .		2
15	GNSS-Reflected Signals for Permafrost Monitoring. , 2021, , .		1
16	Bistatic Coherent Scattering From Rough Soils With Application to GNSS Reflectometry. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 612-625.	2.7	41
17	Monitoring Freeze-Thaw State by Means of GNSS Reflectometry: An Analysis of TechDemoSat-1 Data. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2020, 13, 2996-3005.	2.3	32
18	Soil Moisture Retrieval Using Gnss-R Data. , 2020, , .		4

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19	Excess Path Delays From Sentinel Interferometry to Improve Weather Forecasts. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2020, 13, 3213-3228.	2.3	13
20	Remote Sensing of Forest Biomass Using GNSS Reflectometry. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2020, 13, 2351-2368.	2.3	35
21	Desert Roughness Retrieval Using CYGNSS GNSS-R Data. Remote Sensing, 2020, 12, 743.	1.8	27
22	Ground-Based Remote Sensing of Forests Exploiting GNSS Signals. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 6844-6860.	2.7	12
23	Space-Borne GNSS-R Signal Over a Complex Topography: Modeling and Validation. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2020, 13, 1218-1233.	2.3	36
24	Cross-Correlation of Scattered GNSS Signals. , 2020, , .		0
25	Enhanced Land Cover and Flood Mapping at C- and L-BAND. , 2020, , .		2
26	X-Band Synthetic Aperture Radar Methods. Advances in Global Change Research, 2020, , 315-339.	1.6	0
27	The Role of Co- and Cross-Polarizations Insar Coherences in Mapping Flooded Urban Areas. , 2020, , .		1
28	Potential of GNSS Reflectometry for Freeze-Thaw Monitoring: a Study of Techdemosat-1 Data. , 2020, , .		0
29	Electromagnetic Modeling of Scattered GNSS Signals. , 2020, , .		1
30	Effect of the ingestion in the WRF model of different Sentinel-derived and GNSS-derived products: analysis of the forecasts of a high impact weather event. European Journal of Remote Sensing, 2019, 52, 16-33.	1.7	16
31	Monostatic and Bistatic Scattering Modeling of the Anisotropic Rough Soil. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 2543-2556.	2.7	12
32	Sentinel-1 InSAR Coherence to Detect Floodwater in Urban Areas: Houston and Hurricane Harvey as A Test Case. Remote Sensing, 2019, 11, 107.	1.8	129
33	Analysis of CYGNSS Data for Soil Moisture Retrieval. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2019, 12, 2227-2235.	2.3	142
34	Modeling the Coherence of Scattered Signals of Opportunity. , 2019, , .		7
35	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
36	Flood Detection in Urban Areas: Analysis of Time Series of Coherence Data in Stable Scatterers. , 2019, , .		1

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37	Performance of GNSS-R GLORI data for biomass estimation over the Landes forest. International Journal of Applied Earth Observation and Geoinformation, 2019, 74, 150-158.	1.4	24
38	Bistatic Radar Systems at Large Baselines for Ocean Observation. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 1816-1828.	2.7	12
39	A surface soil moisture mapping service at national (Italian) scale based on Sentinel-1 data. Environmental Modelling and Software, 2018, 102, 13-28.	1.9	37
40	Triple Collocation to Assess Classification Accuracy Without a Ground Truth in Case of Earthquake Damage Assessment. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 485-496.	2.7	9
41	GNSS Transpolar Earth Reflectometry exploriNg System (G-TERN): Mission Concept. IEEE Access, 2018, 6, 13980-14018.	2.6	55
42	Earthquake damage mapping: An overall assessment of ground surveys and VHR image change detection after L'Aquila 2009 earthquake. Remote Sensing of Environment, 2018, 210, 166-178.	4.6	51
43	Flood Mapping in Vegetated and Urban Areas and Other Challenges: Models and Methods. Springer Remote Sensing/photogrammetry, 2018, , 135-179.	0.4	13
44	Defining a Trade-off Between Spatial and Temporal Resolution of a Geosynchronous SAR Mission for Soil Moisture Monitoring. Remote Sensing, 2018, 10, 1950.	1.8	5
45	On the Modeling of the Bistatic Coherent Scattering from a Rough Surface. , 2018, , .		0
46	Ingestion of Sentinel-Derived Remote Sensing Products in Numerical Weather Prediction Models: First Results of the ESA Steam Project. , 2018, , .		2
47	Spaceborne GNSS Reflectometry Data for Land Applications: An Analysis of Techdemosat Data. , 2018, , .		8
48	Monitoring Urban Floods Using SAR Interferometric Observations. , 2018, , .		3
49	First -Order SSA Modeling of the Anisotropic Rough-Soil Bistatic Scattering. , 2018, , .		0
50	Sentinel-1 Sensitivity to Soil Moisture at High Incidence Angle and its Impact on Retrieval. , 2018, , .		2
51	Experimental and modelled GNSS Reflectometry response over land. , 2018, , .		2
52	Incorporating Sentinel-derived products into numerical weather models: the ESA STEAM project. , 2018, , .		0
53	Potential of UAV GNSS-R for forest biomass mapping. , 2018, , .		0
54	Empirical fitting of forward backscattering models for multitemporal retrieval of soil moisture from radar data at L-band. Journal of Applied Remote Sensing, 2017, 11, 016002.	0.6	3

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55	Modeling of bistatic scattering from the anisotropic earth surfaces. , 2017, , .		2
56	Mapping Flooded Vegetation Using COSMO-SkyMed: Comparison With Polarimetric and Optical Data Over Rice Fields. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2017, 10, 2650-2662.	2.3	21
57	Error Characterization of Soil Moisture Satellite Products: Retrieving Error Cross-Correlation Through Extended Quadruple Collocation. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2017, 10, 4522-4530.	2.3	12
58	Exploiting Sentinel 1 data for improving (flash) flood modelling via data assimilation techniques. , 2017, , .		3
59	Bistatic radar with large baseline for bio-geophysucal parameter retrieval. , 2017, , .		0
60	Detection of flooded urban areas using sar: An approach based on the coherence of stable scatterers. , 2017, , .		3
61	GNSSBio: Forest biomass retrieval based on GNSS ground receiver. , 2017, , .		0
62	Monitoring reservoirs' water level from space for flood control applications. A case study in the Italian Alpine region. , 2017, , .		1
63	Error characterization of SMOS, ASCAT, SMAP, ERA and ISMN soil moisture products: Automatic detection of cross-correlation error through extended quadruple collocation. , 2017, , .		1
64	Radar multispectral and polarimetric signature of rice fields: An investigation on the double bounce mechanism in flooded vegetation. , 2017, , .		1
65	KydroSAT: a Ku/Ka band synthetic aperture radar space mission concept for high-resolution mapping of hydrometeorological parameters. , 2017, , .		1
66	SAR coherence and polarimetric information for improving flood mapping. , 2016, , .		19
67	Polarimetric SAR data for improving flood mapping: An investigation over rice flooded fields. , 2016, , .		1
68	Detection and quantification of precipitations signatures on synthetic aperture radar imagery at X band. Proceedings of SPIE, 2016, , .	0.8	2
69	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.	2.3	99
70	A Prototype System for Flood Monitoring Based on Flood Forecast Combined With COSMO-SkyMed and Sentinel-1 Data. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2016, 9, 2794-2805.	2.3	64
71	A comparison of ASCAT and SMOS soil moisture retrievals over Europe and Northern Africa from 2010 to 2013. International Journal of Applied Earth Observation and Geoinformation, 2016, 45, 135-142.	1.4	27
72	Use of SAR Data for Detecting Floodwater in Urban and Agricultural Areas: The Role of the Interferometric Coherence. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 1532-1544.	2.7	139

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73	Atmospheric precipitation impact on synthetic aperture radar imagery: Numerical model at X and KA bands. , 2015, , .		4
74	Identification of building double-bounces feature in very high resoultion SAR data for earthquake damage mapping. , 2015, , .		4
75	L-band multistatic radar interferometry for 3D deformation vector decomposition. , 2015, , .		5
76	A multitemporal algorithm for SMAP data: Overview and preliminary results using experimental data. , 2015, , .		0
77	An intercomparison of models for predicting bistatic scattering from rough surfaces. , 2015, , .		6
78	Integration of SAR intensity and coherence data to improve flood mapping. , 2015, , .		1
79	Exploiting GNSS signals for soil moisture and vegetation biomass retrieval. , 2015, , .		5
80	Downscaling of the land surface temperature over urban area using Landsat data. , 2015, , .		1
81	A multistatic radar approach to soil moisture and vegetation monitoring at L band. , 2015, , .		0
82	Multitemporal retrieval of soil moisture from SMAP radar data at L-band. Proceedings of SPIE, 2015, , .	0.8	0
83	Joint use of X- and C-band SAR images for flood monitoring: The 2014 PO river basin case study. , 2015, , .		2
84	Coseismic liquefaction phenomenon analysis by COSMO-SkyMed: 2012 Emilia (Italy) earthquake. International Journal of Applied Earth Observation and Geoinformation, 2015, 39, 65-78.	1.4	24
85	InSAR Water Vapor Data Assimilation into Mesoscale Model MM5: Technique and Pilot Study. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2015, 8, 3859-3875.	2.3	46
86	Quadruple Collocation Analysis for Soil Moisture Product Assessment. IEEE Geoscience and Remote Sensing Letters, 2015, 12, 1595-1599.	1.4	17
87	Analysis of ASCAT, SMOS, in-situ and land model soil moisture as a regionalized variable over Europe and North Africa. Remote Sensing of Environment, 2015, 170, 280-289.	4.6	24
88	Soil moisture comparison through triple and quadruple collocation between: Metop, ERA, SMOS and in-situ data. , 2014, , .		1
89	Multitemporal soil moisture retrieval from 3-days ERS-2 data: Comparison with ASCAT, SMOS and in situ measurements. , 2014, , .		1
90	Validation of remote sensing soil moisture products with a distributed continuous hydrological model. , 2014, , .		5

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91	A Prototype Software Package to Retrieve Soil Moisture From Sentinel-1 Data by Using a Bayesian Multitemporal Algorithm. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, 7, 153-166.	2.3	65
92	Combined use of multi-temporal COSMO-SkyMed data and a hydrodynamic model to monitor flood dynamics. , 2014, , .		1
93	Flood mapping by SAR: Possible approaches to mitigate errors due to ambiguous radar signatures. , 2014, , .		10
94	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
95	Modeling and Sensing the Vertical Structure of the Atmospheric Path Delay by Microwave Radiometry to Correct SAR Interferograms. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 1324-1335.	2.7	6
96	SAVERS: A Simulator of GNSS Reflections From Bare and Vegetated Soils. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 6542-6554.	2.7	94
97	The Contribution of SIASGE Radar Data Integrated With Optical Images to Support Thematic Mapping at Regional Scale. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, 7, 2821-2833.	2.3	8
98	Flood Damage Assessment Through Multitemporal COSMO-SkyMed Data and Hydrodynamic Models: The Albania 2010 Case Study. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, 7, 2848-2855.	2.3	25
99	Airborne GNSS-R Polarimetric Measurements for Soil Moisture and Above-Ground Biomass Estimation. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, 7, 1522-1532.	2.3	148
100	Multitemporal soil moisture retrieval from radar data: preparation of SMAP data processing over Italy. Proceedings of SPIE, 2014, , .	0.8	0
101	Modeling atmospheric precipitation impact on synthetic aperture radar imagery at X and Ka bands. , 2014, , .		2
102	Monitoring Flood Evolution in Vegetated Areas Using COSMO-SkyMed Data: The Tuscany 2009 Case Study. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2013, 6, 1807-1816.	2.3	89
103	Monitoring Soil Moisture in an Agricultural Test Site Using SAR Data: Design and Test of a Pre-Operational Procedure. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2013, 6, 1199-1210.	2.3	34
104	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
105	GNSS Reflectometry as a tool to retrieve soil moisture and vegetation biomass: Experimental and theoretical activities. , 2013, , .		2
106	Assessment of water vapor retrievals from a GPS receiver network. GPS Solutions, 2013, 17, 475-484.	2.2	22
107	Dealing with flood mapping using SAR data in the presence of wind or heavy precipitation. , 2013, , .		3
108	Analysis of two years of ASCAT- and SMOS-derived soil moisture estimates over Europe and North Africa. European Journal of Remote Sensing, 2013, 46, 759-773.	1.7	29

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109	Tomographic SAR inversion by generic log-barrier algorithm: the second order cone programming approach. , 2013, , .		0
110	Use of Satellite Radar Bistatic Measurements for Crop Monitoring: A Simulation Study on Corn Fields. Remote Sensing, 2013, 5, 864-890.	1.8	35
111	X-band signatures of floods and heavy rain in Cosmo SkyMed images. , 2012, , .		0
112	Detection of floods and heavy rain using Cosmo-SkyMed data: The event in Northwestern Italy of November 2011. , 2012, , .		12
113	On the coherent and non coherent components of bare and vegetated terrain bistatic scattering: Modelling the GNSS-R signal over land. , 2012, , .		11
114	Lessons learned from using COSMO-SkyMed imagery for flood mapping: some case studies. , 2012, , .		1
115	Comparison of microwave passive and active observations of soil moisture. , 2012, , .		1
116	Future use of the data from the ESA Sentinel-1 mission for operational soil moisture mapping: a multitemporal algorithm. , 2012, , .		0
117	Global Navigation Satellite Systems Reflectometry as a Remote Sensing Tool for Agriculture. Remote Sensing, 2012, 4, 2356-2372.	1.8	122
118	Analysis and Interpretation of the COSMO-SkyMed Observations of the 2011 Japan Tsunami. IEEE Geoscience and Remote Sensing Letters, 2012, 9, 467-471.	1.4	93
119	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
120	Multi-temporal segmentation of Cosmo-SkyMed SAR data for flood monitoring. , 2011, , .		1
121	Neural Networks for Arctic Atmosphere Sounding From Radio Occultation Data. IEEE Transactions on Geoscience and Remote Sensing, 2011, 49, 4846-4855.	2.7	12
122	Objects textural features sensitivity for earthquake damage mapping. , 2011, , .		6
123	Numerical weather prediction models and SAR interferometry: synergic use for meteorological and INSAR applications. , 2011, , .		0
124	Monitoring flood evolution in agricultural areas using COSMO-SkyMed data: analysis of the Tuscany inundation of December 2009. , 2011, , .		1
125	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
126	Three-Dimensional Humidity Retrieval Using a Network of Compact Microwave Radiometers to Correct for Variations in Wet Tropospheric Path Delay in Spaceborne Interferometric SAR Imagery. IEEE Transactions on Geoscience and Remote Sensing, 2011, 49, 3281-3290.	2.7	8

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127	Satellite-Based Retrieval of Precipitable Water Vapor Over Land by Using a Neural Network Approach. IEEE Transactions on Geoscience and Remote Sensing, 2011, 49, 3236-3248.	2.7	20
128	Combined use of electromagnetic scattering models, fuzzy logic and mathematical morphology for flood mapping using Cosmo-SkyMed data. , 2011, , .		0
129	GNSS reflections from bare and vegetated soils: Experimental validation of an end-to-end simulator. , 2011, , .		2
130	Thematic mapping at regional scale using SIASGE Radar data at X and L band and optical images. , 2011, , .		2
131	Towards an operational procedure to map soil moisture using SAR: Results of a seven-year-experiment over an agricultural area. , 2011, , .		2
132	Soil moisture estimation over vegetated terrains using multitemporal remote sensing data. Remote Sensing of Environment, 2010, 114, 440-448.	4.6	107
133	A simulator prototype of Delay-Doppler Maps for GNSS reflections from bare and vegetated soils. , 2010, , .		4
134	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
135	A fuzzy-logic-based approach for flood detection from Cosmo-SkyMed data. , 2010, , .		7
136	Topographic effects on spaceborne radiometric observations and possible correction strategies. , 2010, , .		0
137	Sensitivity of bistatic scattering to soil moisture and surface roughness of bare soils. International Journal of Remote Sensing, 2010, 31, 4227-4255.	1.3	45
138	Neural Network Emulation of the Integral Equation Model with Multiple Scattering. Sensors, 2009, 9, 8109-8125.	2.1	3
139	Bistatic Radar Configuration for Soil Moisture Retrieval: Analysis of the Spatial Coverage. Sensors, 2009, 9, 7250-7265.	2.1	12
140	Exploiting SAR and VHR Optical Images to Quantify Damage Caused by the 2003 Bam Earthquake. IEEE Transactions on Geoscience and Remote Sensing, 2009, 47, 145-152.	2.7	132
141	Combining bistatic and monostatic radar measurements for retrieving soil moisture. , 2009, , .		0
142	A model-based approach for mapping floods using Cosmo-SkyMed data. Proceedings of SPIE, 2009, , .	0.8	0
143	Quickbird Panchromatic Images for Mapping Damage at Building Scale Caused by the 2003 Bam Earthquake. , 2008, , .		5
144	A Simulation Study to Quantify the Relief Effects on the Observations Performed by Microwave Radiometers. , 2008, , .		3

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145	Radar Bistatic Configurations for Soil Moisture Retrieval: A Simulation Study. IEEE Transactions on Geoscience and Remote Sensing, 2008, 46, 3252-3264.	2.7	60
146	Comparing Scatterometric and Radiometric Simulations With Geophysical Model Functions to Tune a Sea Wave Spectrum Model. IEEE Transactions on Geoscience and Remote Sensing, 2008, 46, 3756-3767.	2.7	17
147	Inversion of Electromagnetic Models for Bare Soil Parameter Estimation from Multifrequency Polarimetric SAR Data. Sensors, 2008, 8, 8181-8200.	2.1	43
148	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
149	Topographic Effects on the Surface Emissivity of a Mountainous Area Observed by a Spaceborne Microwave Radiometer. Sensors, 2008, 8, 1459-1474.	2.1	20
150	Integrating Physical and Topographic Information Into a Fuzzy Scheme to Map Flooded Area by SAR. Sensors, 2008, 8, 4151-4164.	2.1	74
151	Modeling Microwave Fully Polarimetric Passive Observations of the Sea Surface: A Neural Network Approach. IEEE Transactions on Geoscience and Remote Sensing, 2007, 45, 2098-2107.	2.7	7
152	High resolution COSMO/SkyMed SAR data analysis for civil protection from flooding events. , 2007, , .		7
153	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
154	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
155	<title>Simulating radar altimeter waveforms for precise retrieval of sea surface parameters</title>. , 1998, , .		0
156	<title>Inversion of electromagnetic models for estimating bare soil parameters from radar multifrequency and multipolarization data</title>. , 1998, 3497, 67.		2
157	An evaluation of the potential of Sentinel 1 for improving flash flood predictions via soil moistureâ€"data assimilation. Advances in Geosciences, 0, 44, 89-100.	12.0	15