

Irena Hajnsek

List of Publications by Year in descending order

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213
papers

8,709
citations

87888

38
h-index

46799

89
g-index

217
all docs

217
docs citations

217
times ranked

6139
citing authors

#	ARTICLE	IF	CITATIONS
1	Calibration and Operation of a Bistatic Real-Aperture Polarimetric-Interferometric Ku-Band Radar. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-19.	6.3	6
2	MOSES: A Novel Observation System to Monitor Dynamic Events across Earth Compartments. Bulletin of the American Meteorological Society, 2022, 103, E339-E348.	3.3	9
3	Assessing volumetric change distributions and scaling relations of retrogressive thaw slumps across the Arctic. Cryosphere, 2022, 16, 1-15.	3.9	12
4	Accelerated mobilization of organic carbon from retrogressive thaw slumps on the northern Taymyr Peninsula. Cryosphere, 2022, 16, 2819-2835.	3.9	7
5	Polarimetric Behavior for the Derivation of Sea Ice Topographic Height From TanDEM-X Interferometric SAR Data. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 1095-1110.	4.9	10
6	TanDEM-X: 10 Years of Formation Flying Bistatic SAR Interferometry. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 3546-3565.	4.9	36
7	Sensitivity Analysis of Bistatic Scattering for Soil Moisture Retrieval. Remote Sensing, 2021, 13, 188.	4.0	4
8	Cryosphere Applications. Remote Sensing and Digital Image Processing, 2021, , 179-213.	0.7	1
9	Cross-Correlation Stacking for Robust Offset Tracking Using SAR Image Time-Series. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 4765-4778.	4.9	12
10	Joint PAZ & TanDEM-X Mission Interferometric Experiments: Interoperability and Products. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 6069-6082.	4.9	6
11	Agriculture and Wetland Applications. Remote Sensing and Digital Image Processing, 2021, , 119-178.	0.7	1
12	Efficient Approach for Atmospheric Phase Screen Mitigation in Time Series of Terrestrial Radar Interferometry Data Applied to Measure Glacier Velocity. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 7734-7750.	4.9	5
13	KAPRI: A Bistatic Full-Polarimetric Interferometric Real-Aperture Radar System for Monitoring of Natural Environments. , 2021, , .		3
14	Complementarity and Potential of PolSAR and TomoSAR for Glacier Subsurface Characterization. , 2021, , .		0
15	Tandem-X: Mission and Science. , 2021, , .		1
16	Retrieval of Firn Thickness by Means of Polarisation Phase Differences in L-Band SAR Data. Remote Sensing, 2021, 13, 4448.	4.0	3
17	Self-Supervised Pretraining and Controlled Augmentation Improve Rare Wildlife Recognition in UAV Images. , 2021, , .		5
18	Antarctic snow-covered sea ice topography derivation from TanDEM-X using polarimetric SAR interferometry. Cryosphere, 2021, 15, 5323-5344.	3.9	3

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19	Model-Based Interpretation of PolSAR Data for the Characterization of Glacier Zones in Greenland. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 11593-11607.	4.9	8
20	Mapping Retrogressive Thaw Slumps Using Single-Pass TanDEM-X Observations. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2020, 13, 3263-3280.	4.9	19
21	Modeling and Compensation of the Penetration Bias in InSAR DEMs of Ice Sheets at Different Frequencies. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2020, 13, 2698-2707.	4.9	12
22	Technical Committees Survey Results [Technical Committees]. IEEE Geoscience and Remote Sensing Magazine, 2020, 8, 90-95.	9.6	1
23	Polarimetric SAR Time Series Change Analysis Over Agricultural Areas. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 7317-7330.	6.3	18
24	Geostatistical Analysis and Mitigation of the Atmospheric Phase Screens in Ku-Band Terrestrial Radar Interferometric Observations of an Alpine Glacier. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 7533-7556.	6.3	11
25	Foreword to the Special Issue on the 2019 IEEE International Geoscience and Remote Sensing Symposium (IGARSS 2019). IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2020, 13, 6512-6514.	4.9	0
26	Polarimetric Characteristics for Sea-Ice Surface Topographic Derivation Using TanDEM-X Interferometry Data. , 2020, , .		0
27	TanDEM-X: 10 Years of Operation. , 2020, , .		1
28	Radar Remote Sensing of Land Surface Parameters. Ecohydrology, 2019, , 379-416.	0.2	0
29	A Comparison of Tropospheric Path Delays Estimated in PSI Processing Against Delays Derived from a GNSS Network in the Swiss Alps. , 2019, , .		0
30	Polsar Data Compensation of Steep Terrain With Application To Soil Moisture Retrieval. , 2019, , .		0
31	Trajectory Uncertainty in Repeat-Pass SAR Interferometry: A Case Study. , 2019, , .		2
32	Modeling the Vertical Backscattering Distribution in the Percolation Zone of the Greenland Ice Sheet With SAR Tomography. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2019, 12, 4389-4405.	4.9	11
33	Polarimetric Analysis of Natural Terrain Observed With a <i>Ku</i> -Band Terrestrial Radar. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2019, 12, 5268-5288.	4.9	5
34	Tandem-X: Mission Status and Science Activities. , 2019, , .		4
35	Interpretation of Polarimetric and Tomographic Signatures from Glacier Subsurface: the K-Transect Case Study. , 2019, , .		1
36	Investigating the Potential to Estimate InSAR Penetration Depth Over Ice Sheets from Pol-InSAR Data. , 2019, , .		0

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37	Glacier Detachment Hazard Analysis in the West Kunlun Shan Mountains. , 2019, , .		3
38	IGARSS 2019 in Yokohama, Japan: Events and New Directions [Conference Reports]. IEEE Geoscience and Remote Sensing Magazine, 2019, 7, 37-48.	9.6	0
39	A Case Study on the Correction of Atmospheric Phases for SAR Tomography in Mountainous Regions. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 416-431.	6.3	11
40	Modeling Multifrequency Pol-InSAR Data From the Percolation Zone of the Greenland Ice Sheet. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 1963-1976.	6.3	10
41	Correction to "A Statistical Test of Phase Closure to Detect Influences on DInSAR Deformation Estimates Besides Displacements and Decorrelation Noise: Two Case Studies in High-Latitude Regions" [Sep 16 5588-5601]. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 623-623.	6.3	1
42	Polarimetric Calibration of the Ku-Band Advanced Polarimetric Radar Interferometer. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 2295-2311.	6.3	16
43	Analyzing the Influence of Wet Biomass Changes in Polarimetric Differential SAR Interferometry at L-Band. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2018, 11, 1494-1508.	4.9	4
44	Verification of the Virtual Bandwidth SAR Scheme for Centimetric Resolution Subsurface Imaging From Space. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 25-34.	6.3	4
45	On the potential of Polarimetric SAR Interferometry to characterize the biomass, moisture and structure of agricultural crops at L-, C- and X-Bands. Remote Sensing of Environment, 2018, 204, 596-616.	11.0	24
46	Wet Snow Depth from Tandem-X Single-Pass Insar Dem Differencing. , 2018, , .		6
47	An Experimental Car-Borne SAR System: Measurement Setup and Positioning Error Analysis. , 2018, , .		4
48	Geostatistical Analysis and Mitigation of Atmospheric Phase Screens in Ku-Band Terrestrial Radar Interferometry. , 2018, , .		1
49	SAR Tomography for Spatio-Temporal Inversion of Coherent Scatterers in Villages of Alpine Regions. , 2018, , .		0
50	Tandem-L: Project Status and Main Findings of the Phase B1 Study. , 2018, , .		7
51	Detecting Microplastics Pollution in World Oceans Using Sar Remote Sensing. , 2018, , .		21
52	Tandem-X: Science Activities. , 2018, , .		2
53	Seven Years of Tandem-X: Volume Loss of Grosser Aletschgletscher, Switzerland. , 2018, , .		2
54	A Car-Borne SAR System for Interferometric Measurements: Development Status and System Enhancements. , 2018, , .		4

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55	Assessment of the Ground Polarimetry in Crops Estimated Using MB Sar Interferometry at C-Band. , 2018, , .		0
56	Foreword to the Special Issue on Forest Structure Estimation in Remote Sensing. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2018, 11, 3384-3385.	4.9	0
57	3-D Scattering Characterization of Agricultural Crops at C-Band Using SAR Tomography. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 3976-3989.	6.3	14
58	Sub-seasonal thaw slump mass wasting is not consistently energy limited at the landscape scale. Cryosphere, 2018, 12, 549-564.	3.9	35
59	SAR Tomography as an Add-On to PSI: Detection of Coherent Scatterers in the Presence of Phase Instabilities. Remote Sensing, 2018, 10, 1014.	4.0	3
60	Assessment of Paddy Rice Height: Sequential Inversion of Coherent and Incoherent Models. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2018, 11, 3001-3013.	4.9	13
61	A Motion Compensation Strategy for Airborne Repeat-Pass SAR Data. IEEE Geoscience and Remote Sensing Letters, 2018, 15, 1580-1584.	3.1	6
62	Sensitivity of SAR Tomography to the Phenological Cycle of Agricultural Crops at X-, C-, and L-band. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2018, 11, 3014-3029.	4.9	11
63	Determination of rice plant morphology by stochastic optimization using X-band polsar data. , 2018, , .		0
64	L- and P-Band 3-D SAR Reflectivity Profiles Versus Lidar Waveforms: The AfriSAR Case. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2018, 11, 3386-3401.	4.9	34
65	Radar Remote Sensing of Land Surface Parameters. Ecohydrology, 2018, , 1-38.	0.2	1
66	Separating the Influence of Vegetation Changes in Polarimetric Differential SAR Interferometry. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 6871-6883.	6.3	6
67	Comparing Performances of Crop Height Inversion Schemes From Multifrequency Pol-InSAR Data. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2017, 10, 1727-1741.	4.9	11
68	Corrections to "Single-Look SAR Tomography as an Add-On to PSI for Improved Deformation Analysis in Urban Areas" [Oct 16 6119-6137]. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 1854-1854.	6.3	0
69	Impact of Plant Surface Moisture on Differential Interferometric Observables: A Controlled Electromagnetic Experiment. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 3949-3964.	6.3	11
70	Soil Moisture Estimation Using Differential Radar Interferometry: Toward Separating Soil Moisture and Displacements. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 5069-5083.	6.3	49
71	Depth-Resolved Backscatter and Differential Interferometric Radar Imaging of Soil Moisture Profiles: Observations and Models of Subsurface Volume Scattering. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2017, 10, 3281-3296.	4.9	9
72	On the Separation of Ground and Volume Scattering Using Multibaseline SAR Data. IEEE Geoscience and Remote Sensing Letters, 2017, 14, 1570-1574.	3.1	9

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73	Estimation of Rice Crop Height From X- and C-Band PolSAR by Metamodel-Based Optimization. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2017, 10, 194-204.	4.9	28
74	3-D structure observation of African tropical forests with multi-baseline SAR: Results from the AfriSAR campaign. , 2017, , .		10
75	A case study on the use of differential SAR tomography for measuring deformation in layover areas in rugged alpine terrain. , 2017, , .		1
76	Single-baseline polarimetric SAR interferometry for characterizing the biophysical properties of agricultural crops. , 2017, , .		1
77	Single pass InSAR missions for monitoring hazardous surging glaciers. , 2017, , .		1
78	The global TanDEM-X DEM "A unique data set. , 2017, , .		8
79	Multipath Interferences in Ground-Based Radar Data: A Case Study. Remote Sensing, 2017, 9, 1260.	4.0	13
80	A Multi-Year Study on Rice Morphological Parameter Estimation with X-Band PolSAR Data. Applied Sciences (Switzerland), 2017, 7, 602.	2.5	10
81	Agricultural biomass maps based on polarimetric differential SAR interferometry. , 2017, , .		0
82	Future mission concepts for measuring snow mass. , 2017, , .		0
83	Sensitivity of polarimetric SAR interferometry data to different vertical subsurface structures of the Greenland ice sheet. , 2017, , .		4
84	TanDEM-X: Science activities. , 2017, , .		1
85	The SCALEX Campaign: Scale-Crossing Land Surface and Boundary Layer Processes in the TERENO-preAlpine Observatory. Bulletin of the American Meteorological Society, 2017, 98, 1217-1234.	3.3	49
86	Surge dynamics and lake outbursts of Kyagar Glacier, Karakoram. Cryosphere, 2017, 11, 723-739.	3.9	89
87	Determining Rice Growth Stage with X-Band SAR: A Metamodel Based Inversion. Remote Sensing, 2017, 9, 460.	4.0	37
88	TanDEM-X. , 2017, , 525-554.		1
89	Anisotropy of seasonal snow measured by polarimetric phase differences in radar time series. Cryosphere, 2016, 10, 1771-1797.	3.9	43
90	Evaluation of Simplified Polarimetric Decomposition for Soil Moisture Retrieval over Vegetated Agricultural Fields. Remote Sensing, 2016, 8, 142.	4.0	33

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91	Large-Scale Biomass Classification in Boreal Forests With TanDEM-X Data. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 5935-5951.	6.3	39
92	Dual-polarimetric agricultural change analysis of long baseline TanDEM-X time series data. , 2016, , .		6
93	Monitoring permafrost and thermokarst processes with TanDEM-X DEM time series: Opportunities and limitations. , 2016, , .		2
94	SAR tomography as an add-on to PSI: Gain in deformation sampling vis-a-vis quality of the detected scatterers. , 2016, , .		2
95	A preliminary analysis of component polarimetric decomposition towards soil moisture inversion in an oasis of the northwest arid regions of China. , 2016, , .		0
96	Sar algorithms for crop height estimation: The paddy-rice case study. , 2016, , .		1
97	TanDEM-X mission status: The complete new topography of the Earth. , 2016, , .		4
98	Morphology estimation of rice fields using X-band PolSAR data. , 2016, , .		2
99	Imaging subsurface soil moisture dynamics using tomographic profiling: Observations and modelling. , 2016, , .		0
100	Influence of Vegetation Growth on the Polarimetric Zero-Baseline DInSAR Phase Diversityâ€™Implications for Deformation Studies. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 3070-3082.	6.3	21
101	Retrieval of agricultural crop height from space: A comparison of SARâ€™techniques. Remote Sensing of Environment, 2016, 187, 130-144.	11.0	80
102	Single-Look SAR Tomography as an Add-On to PSI for Improved Deformation Analysis in Urban Areas. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 6119-6137.	6.3	32
103	Multi-dimensional airborne holographic SAR tomography reconstruction for glaciers at L-/P-band. , 2016, , .		2
104	Tandem-L: Main results of the phase a feasibility study. , 2016, , .		6
105	First study on holographic SAR tomography over agricultural crops at C-/X-band. , 2016, , .		1
106	Volume structure characterisation by means of multi-baseline Pol-InSAR: Status and challenges. , 2016, , .		0
107	SAR imaging of tropical African forests with P-band multibaseline acquisitions: Results from the AfriSAR campaign. , 2016, , .		4
108	Virtual bandwidth SAR (VB-SAR) for centimeter-scale vertical profiling through a soil at C-band from space. , 2016, , .		0

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109	Time series investigation of soil moisture estimation using compact polarimetry at L-band. , 2016, , .		0
110	Using metamodels for agricultural monitoring. , 2016, , .		0
111	A Statistical Test of Phase Closure to Detect Influences on $DInSAR$ Deformation Estimates Besides Displacements and Decorrelation Noise: Two Case Studies in High-Latitude Regions. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 5588-5601.	6.3	52
112	A Multibaseline Pol-InSAR Inversion Scheme for Crop Parameter Estimation at Different Frequencies. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 4952-4970.	6.3	19
113	Observations of Cutting Practices in Agricultural Grasslands Using Polarimetric SAR. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2016, 9, 1382-1396.	4.9	43
114	Investigation of SMAP Fusion Algorithms With Airborne Active and Passive L-Band Microwave Remote Sensing. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 3878-3889.	6.3	58
115	On the Interpretation of Polarimetric Phase Differences in SAR Data Over Land Ice. IEEE Geoscience and Remote Sensing Letters, 2016, 13, 192-196.	3.1	5
116	Polarimetric Decomposition of L-Band PolSAR Backscattering Over the Austfonna Ice Cap. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 1267-1281.	6.3	23
117	Soil Moisture Estimation Using Hybrid Polarimetric SAR Data of RISAT-1. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 2033-2049.	6.3	62
118	Monitoring floods in the Kafue flats with TanDEM-X data. , 2015, , .		1
119	Agricultural monitoring with polarimetric SAR time series. , 2015, , .		3
120	Applications of integrals of quadratic forms for polarimetric SAR data. , 2015, , .		1
121	SAR tomography for spatio-temporal inversion of point-like scatterers in urban areas. , 2015, , .		4
122	Processing polarimetric SAR time series over urban areas with binary partition trees. , 2015, , .		0
123	A Polarimetric First-Order Model of Soil Moisture Effects on the DInSAR Coherence. Remote Sensing, 2015, 7, 7571-7596.	4.0	26
124	Ship Detection with Spectral Analysis of Synthetic Aperture Radar: A Comparison of New and Well-Known Algorithms. Remote Sensing, 2015, 7, 5416-5439.	4.0	85
125	Forest Height Estimation by Means of Pol-InSAR Data Inversion: The Role of the Vertical Wavenumber. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 5294-5311.	6.3	148
126	TanDEM-X: Science activities. , 2015, , .		6

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127	Investigating the combined use of differential SAR tomography and PSI for spatio-temporal inversion. , 2015, , .		3
128	PolSAR-Ap: Exploitation of fully polarimetric SAR data for application demonstration. , 2015, , .		4
129	Global sensitivity analysis of a morphology based electromagnetic scattering model. , 2015, , .		6
130	A new algorithm for iceberg detection with dual-polarimetric SAR data. , 2015, , .		2
131	TanDEM-X: A single-pass SAR interferometer for global DEM generation and demonstration of new SAR techniques. , 2015, , .		1
132	Retrieval of soil moisture using multi-temporal hybrid polarimetric RISAT-1 data. , 2015, , .		2
133	3-D glacier subsurface characterization using SAR polarimetry. , 2015, , .		2
134	On the estimation of agricultural crop height from Pol-InSAR data. , 2015, , .		2
135	Spatial and temporal characterization of agricultural crop volumes by means of polarimetric SAR tomographyatc-band. , 2015, , .		1
136	ALOS-Next/TanDEM-L: A highly innovative SAR mission for global observation of dynamic processes on the earth's surface. , 2015, , .		13
137	Polarimetric 3-D imaging with airborne holographic SAR tomography over glaciers. , 2015, , .		8
138	Physically-based active-passive modelling and retrieval for SMAP soil moisture inversion algorithm. , 2015, , .		2
139	Interferometric and polarimetric methods to determine SWE, fresh snow depth and the anisotropy of dry snow. , 2015, , .		7
140	Development of new multi-band equatorially orbiting POLinSAR satellite sensors system configurations for varying latitudinal coverage within total tropical belt: Invited group presentation for establishing an associated Consortium. , 2015, , .		0
141	Tandem-L: A Highly Innovative Bistatic SAR Mission for Global Observation of Dynamic Processes on the Earth's Surface. IEEE Geoscience and Remote Sensing Magazine, 2015, 3, 8-23.	9.6	224
142	Statistical Tests for a Ship Detector Based on the Polarimetric Notch Filter. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 4578-4595.	6.3	54
143	A New Detection Algorithm for Coherent Scatterers in SAR Data. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 6293-6307.	6.3	27
144	Assessment of soil moisture effects on L-band radar interferometry. Remote Sensing of Environment, 2015, 164, 77-89.	11.0	74

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145	Rice Growth Monitoring by Means of X-Band Co-polar SAR: Feature Clustering and BBCH Scale. IEEE Geoscience and Remote Sensing Letters, 2015, 12, 1218-1222.	3.1	54
146	IGARSS 2014 Survey Results [Conference Reports]. IEEE Geoscience and Remote Sensing Magazine, 2015, 3, 57-59.	9.6	0
147	Ship Detection With TanDEM-X Data Extending the Polarimetric Notch Filter. IEEE Geoscience and Remote Sensing Letters, 2015, 12, 2160-2164.	3.1	13
148	An Iterative Generalized Hybrid Decomposition for Soil Moisture Retrieval Under Vegetation Cover Using Fully Polarimetric SAR. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2015, 8, 3911-3922.	4.9	79
149	Snow Water Equivalent of Dry Snow Measured by Differential Interferometry. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2015, 8, 3773-3790.	4.9	86
150	Forest Above-Ground Biomass Estimation From Vertical Reflectivity Profiles at L-Band. IEEE Geoscience and Remote Sensing Letters, 2015, 12, 2379-2383.	3.1	19
151	TanDEM-X: Das neue globale Höhenmodell der Erde. , 2015, , 1-30.		2
152	Towards the Integration of SAR Tomography and PSI for Improved Deformation Assessment in Urban Areas. , 2015, , .		4
153	Identification of Soil Freezing and Thawing States Using SAR Polarimetry at C-Band. Remote Sensing, 2014, 6, 2008-2023.	4.0	36
154	Modelling the impact of moisture changes in a heterogeneous soil on differential interferometry. , 2014, , .		0
155	Polarimetric soil moisture retrieval using an iterative generalized hybrid decomposition technique. , 2014, , .		2
156	Relating co-polarization phase difference at L-band over land ice to the structure of snow and firn layers. , 2014, , .		1
157	Active and passive L-band microwave remote sensing for soil moisture — A test-bed for SMAP fusion algorithms. , 2014, , .		4
158	The impact of vegetation growth on DInSAR coherence regions and estimated deformations. , 2014, , .		1
159	SAR tomography based 3-D point cloud extraction of point-like scatterers in urban areas. , 2014, , .		6
160	Scattering centers monitoring in refocused SAR images on a high-resolution DEM. , 2014, , .		2
161	Vertical forest structure characterization for the estimation of above ground biomass: First experimental results using SAR vertical reflectivity profiles. , 2014, , .		4
162	Phenological growth stages of paddy rice according to the BBCH scale and SAR images. , 2014, , .		3

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163	Ship detectors exploiting spectral analysis of SAR images. , 2014, , .		7
164	Validating a Notch Filter for Detection of Targets at Sea With ALOS-PALSAR Data: Tokyo Bay. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, 7, 4907-4918.	4.9	55
165	Snow Height Determination by Polarimetric Phase Differences in X-Band SAR Data. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, 7, 3794-3810.	4.9	78
166	Statistical Tests for Symmetries in Polarimetric Scattering Coherency Matrices. IEEE Geoscience and Remote Sensing Letters, 2014, 11, 308-312.	3.1	6
167	A Change Detector Based on an Optimization With Polarimetric SAR Imagery. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 4781-4798.	6.3	39
168	TanDEM-X Pol-InSAR Performance for Forest Height Estimation. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 6404-6422.	6.3	224
169	TanDEM-X: The New Global DEM Takes Shape. IEEE Geoscience and Remote Sensing Magazine, 2014, 2, 8-23.	9.6	171
170	Towards a detection of grassland cutting practices with dual polarimetric TerraSAR-X data. International Journal of Remote Sensing, 2013, 34, 8081-8103.	2.9	32
171	Very-High-Resolution Airborne Synthetic Aperture Radar Imaging: Signal Processing and Applications. Proceedings of the IEEE, 2013, 101, 759-783.	21.3	222
172	TanDEM-X: A radar interferometer with two formation-flying satellites. Acta Astronautica, 2013, 89, 83-98.	3.2	167
173	A tutorial on synthetic aperture radar. IEEE Geoscience and Remote Sensing Magazine, 2013, 1, 6-43.	9.6	1,580
174	Soil Moisture Estimation Under Low Vegetation Cover Using a Multi-Angular Polarimetric Decomposition. IEEE Transactions on Geoscience and Remote Sensing, 2013, 51, 2201-2215.	6.3	111
175	Estimation of Glacier Ice Extinction Using Long-Wavelength Airborne Pol-InSAR. IEEE Transactions on Geoscience and Remote Sensing, 2013, 51, 3715-3732.	6.3	25
176	Quantification of Temporal Decorrelation Effects at L-Band for Polarimetric SAR Interferometry Applications. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2013, 6, 1351-1367.	4.9	87
177	Spaceborne SAR tomography in urban areas. , 2013, , .		7
178	Refined soil moisture estimation by means of L-band polarimetry. , 2013, , .		3
179	Comparison of ship detectors using polarimetric alos data: Tokyo Bay. , 2013, , .		5
180	Orientation effects on polarimetric SAR images of sea ice. , 2013, , .		0

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181	Recent advances on SAR polarimetry to observe surfactants and targets at sea. , 2013, , .		0
182	Observational analysis of soil moisture effects on DInSAR signals. , 2013, , .		3
183	Foreword to the Special Issue on the 2012 IEEE International Geoscience and Remote Sensing Symposium (IGARSS'12). IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2013, 6, 1068-1069.	4.9	0
184	Soil moisture retrieval under agricultural vegetation using fully polarimetric SAR. , 2012, , .		8
185	Linking the polarimetric change detector based on perturbation filters with the Pol-InSAR coherence. , 2012, , .		2
186	First Demonstration of Agriculture Height Retrieval With PolInSAR Airborne Data. IEEE Geoscience and Remote Sensing Letters, 2012, 9, 242-246.	3.1	55
187	Potentials and constraints of different types of soil moisture observations for flood simulations in headwater catchments. Natural Hazards, 2012, 60, 879-914.	3.4	32
188	Polarimetric Decomposition Over Glacier Ice Using Long-Wavelength Airborne PolSAR. IEEE Transactions on Geoscience and Remote Sensing, 2011, 49, 519-535.	6.3	39
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