

Alberto Moreira

List of Publications by Year in descending order

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241
papers

12,561
citations

57758

44
h-index

33894

99
g-index

247
all docs

247
docs citations

247
times ranked

5074
citing authors

#	ARTICLE	IF	CITATIONS
1	A tutorial on synthetic aperture radar. IEEE Geoscience and Remote Sensing Magazine, 2013, 1, 6-43.	9.6	1,580
2	TanDEM-X: A Satellite Formation for High-Resolution SAR Interferometry. IEEE Transactions on Geoscience and Remote Sensing, 2007, 45, 3317-3341.	6.3	1,244
3	First demonstration of airborne SAR tomography using multibaseline L-band data. IEEE Transactions on Geoscience and Remote Sensing, 2000, 38, 2142-2152.	6.3	795
4	Unambiguous SAR Signal Reconstruction From Nonuniform Displaced Phase Center Sampling. IEEE Geoscience and Remote Sensing Letters, 2004, 1, 260-264.	3.1	485
5	Extended chirp scaling algorithm for air- and spaceborne SAR data processing in stripmap and ScanSAR imaging modes. IEEE Transactions on Geoscience and Remote Sensing, 1996, 34, 1123-1136.	6.3	455
6	Digital Beamforming on Receive: Techniques and Optimization Strategies for High-Resolution Wide-Swath SAR Imaging. IEEE Transactions on Aerospace and Electronic Systems, 2009, 45, 564-592.	4.7	428
7	Airborne SAR processing of highly squinted data using a chirp scaling approach with integrated motion compensation. IEEE Transactions on Geoscience and Remote Sensing, 1994, 32, 1029-1040.	6.3	348
8	Generation and performance assessment of the global TanDEM-X digital elevation model. ISPRS Journal of Photogrammetry and Remote Sensing, 2017, 132, 119-139.	11.1	339
9	Multidimensional Waveform Encoding: A New Digital Beamforming Technique for Synthetic Aperture Radar Remote Sensing. IEEE Transactions on Geoscience and Remote Sensing, 2008, 46, 31-46.	6.3	338
10	Spotlight SAR data processing using the frequency scaling algorithm. IEEE Transactions on Geoscience and Remote Sensing, 1999, 37, 2198-2214.	6.3	300
11	Coregistration of interferometric SAR images using spectral diversity. IEEE Transactions on Geoscience and Remote Sensing, 2000, 38, 2179-2191.	6.3	282
12	Spaceborne bi- and multistatic SAR: potential and challenges. IET Radar, Sonar & Navigation, 2006, 153, 184.	2.1	250
13	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
14	Very-High-Resolution Airborne Synthetic Aperture Radar Imaging: Signal Processing and Applications. Proceedings of the IEEE, 2013, 101, 759-783.	21.3	222
15	Processing of Sliding Spotlight and TOPS SAR Data Using Baseband Azimuth Scaling. IEEE Transactions on Geoscience and Remote Sensing, 2010, 48, 770-780.	6.3	206
16	TanDEM-X: The New Global DEM Takes Shape. IEEE Geoscience and Remote Sensing Magazine, 2014, 2, 8-23.	9.6	171
17	Staggered SAR: High-Resolution Wide-Swath Imaging by Continuous PRI Variation. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 4462-4479.	6.3	169
18	TanDEM-X: A radar interferometer with two formation-flying satellites. Acta Astronautica, 2013, 89, 83-98.	3.2	167

#	ARTICLE	IF	CITATIONS
19	Interferometric Synthetic Aperture Radar (SAR) Missions Employing Formation Flying. Proceedings of the IEEE, 2010, 98, 816-843.	21.3	160
20	Extended wavenumber-domain synthetic aperture radar focusing with integrated motion compensation. IET Radar, Sonar & Navigation, 2006, 153, 301.	2.1	145
21	Fully Polarimetric High-Resolution 3-D Imaging With Circular SAR at L-Band. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 3074-3090.	6.3	139
22	On the Processing of Very High Resolution Spaceborne SAR Data. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 6003-6016.	6.3	135
23	A Novel OFDM Chirp Waveform Scheme for Use of Multiple Transmitters in SAR. IEEE Geoscience and Remote Sensing Letters, 2013, 10, 568-572.	3.1	128
24	Bistatic TerraSAR-X/F-SAR Spaceborne–Airborne SAR Experiment: Description, Data Processing, and Results. IEEE Transactions on Geoscience and Remote Sensing, 2010, 48, 781-794.	6.3	126
25	An Autofocus Approach for Residual Motion Errors With Application to Airborne Repeat-Pass SAR Interferometry. IEEE Transactions on Geoscience and Remote Sensing, 2008, 46, 3151-3162.	6.3	124
26	Efficient Time-Domain Image Formation with Precise Topography Accommodation for General Bistatic SAR Configurations. IEEE Transactions on Aerospace and Electronic Systems, 2011, 47, 2949-2966.	4.7	123
27	The global forest/non-forest map from TanDEM-X interferometric SAR data. Remote Sensing of Environment, 2018, 205, 352-373.	11.0	122
28	Multichannel Azimuth Processing in ScanSAR and TOPS Mode Operation. IEEE Transactions on Geoscience and Remote Sensing, 2010, 48, 2994-3008.	6.3	108
29	A comparison of several algorithms for SAR raw data compression. IEEE Transactions on Geoscience and Remote Sensing, 1995, 33, 1266-1276.	6.3	105
30	SweepSAR: Beam-forming on receive using a reflector-phased array feed combination for spaceborne SAR. , 2009, , .		103
31	Polarimetric and interferometric characterization of coherent scatterers in urban areas. IEEE Transactions on Geoscience and Remote Sensing, 2006, 44, 971-984.	6.3	101
32	Real-time synthetic aperture radar (SAR) processing with a new subaperture approach. IEEE Transactions on Geoscience and Remote Sensing, 1992, 30, 714-722.	6.3	98
33	Suppressing the azimuth ambiguities in synthetic aperture radar images. IEEE Transactions on Geoscience and Remote Sensing, 1993, 31, 885-895.	6.3	93
34	First Airborne Demonstration of Holographic SAR Tomography With Fully Polarimetric Multicircular Acquisitions at L-Band. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 6170-6196.	6.3	84
35	First Bistatic Spaceborne SAR Experiments With TanDEM-X. IEEE Geoscience and Remote Sensing Letters, 2012, 9, 33-37.	3.1	78
36	Tandem-L: A Technical Perspective on Future Spaceborne SAR Sensors for Earth Observation. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 4792-4807.	6.3	75

#	ARTICLE	IF	CITATIONS
37	Analysis of multistatic configurations for spaceborne SAR interferometry. IET Radar, Sonar & Navigation, 2003, 150, 87.	2.1	74
38	Estimation of the Minimum Number of Tracks for SAR Tomography. IEEE Transactions on Geoscience and Remote Sensing, 2009, 47, 531-543.	6.3	73
39	Spaceborne MIMO Synthetic Aperture Radar for Multimodal Operation. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 2453-2466.	6.3	65
40	Spaceborne Reflector SAR Systems with Digital Beamforming. IEEE Transactions on Aerospace and Electronic Systems, 2012, 48, 3473-3493.	4.7	61
41	Staggered SAR: Performance Analysis and Experiments With Real Data. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 6617-6638.	6.3	59
42	First 3-D Reconstructions of Targets Hidden Beneath Foliage by Means of Polarimetric SAR Tomography. IEEE Geoscience and Remote Sensing Letters, 2012, 9, 60-64.	3.1	51
43	Improved multilook techniques applied to SAR and SCANSAR imagery. IEEE Transactions on Geoscience and Remote Sensing, 1991, 29, 529-534.	6.3	50
44	Sub-aperture algorithm for motion compensation improvement in wide-beam SAR data processing. Electronics Letters, 2001, 37, 1405.	1.0	47
45	Advanced synthetic aperture radar based on digital beamforming and waveform diversity. , 2008, , .		47
46	Sector imaging radar for enhanced vision. Aerospace Science and Technology, 2003, 7, 147-158.	4.8	46
47	A Novel Processing Strategy for Staggered SAR. IEEE Geoscience and Remote Sensing Letters, 2014, 11, 1891-1895.	3.1	46
48	Bidirectional SAR Imaging Mode. IEEE Transactions on Geoscience and Remote Sensing, 2013, 51, 601-614.	6.3	44
49	Multistatic sar satellite formations: potentials and challenges. , 0, , .		41
50	The tandem-L mission proposal: Monitoring earth's dynamics with high resolution SAR interferometry. , 2009, , .		41
51	Polarimetric Decomposition Over Glacier Ice Using Long-Wavelength Airborne PolSAR. IEEE Transactions on Geoscience and Remote Sensing, 2011, 49, 519-535.	6.3	39
52	Characterization of Snow Facies on the Greenland Ice Sheet Observed by TanDEM-X Interferometric SAR Data. Remote Sensing, 2017, 9, 315.	4.0	38
53	Interferometric SAR signal analysis in the presence of squint. IEEE Transactions on Geoscience and Remote Sensing, 2000, 38, 2164-2178.	6.3	37
54	On the Pulse Extension Loss in Digital Beamforming SAR. IEEE Geoscience and Remote Sensing Letters, 2015, 12, 1436-1440.	3.1	37

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55	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
56	The TanDEM-X mission: A satellite formation for high-resolution SAR interferometry. , 2007, , .		35
57	New Insights Into Ambiguities in Quad-Pol SAR. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 3287-3308.	6.3	35
58	Polarimetric 3-D Reconstruction From Multicircular SAR at P-Band. IEEE Geoscience and Remote Sensing Letters, 2014, 11, 803-807.	3.1	33
59	Nadir Echo Removal in Synthetic Aperture Radar via Waveform Diversity and Dual-Focus Postprocessing. IEEE Geoscience and Remote Sensing Letters, 2018, 15, 719-723.	3.1	33
60	MirrorSAR: A fractionated space radar for bistatic, multistatic and high-resolution wide-swath SAR imaging. , 2017, , .		32
61	Estimation of the Temporal Evolution of the Deformation Using Airborne Differential SAR Interferometry. IEEE Transactions on Geoscience and Remote Sensing, 2008, 46, 1065-1078.	6.3	31
62	Overview of the PolSARpro V4.0 software. the open source toolbox for polarimetric and interferometric polarimetric SAR data processing. , 2009, , .		31
63	Multichannel Staggered SAR Azimuth Processing. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 2772-2788.	6.3	30
64	A Preliminary Study on SAR Advanced Information Retrieval and Scene Reconstruction. IEEE Geoscience and Remote Sensing Letters, 2016, 13, 1443-1447.	3.1	29
65	High precision SAR focusing of TerraSAR-X experimental staring spotlight data. , 2012, , .		28
66	A New Detection Algorithm for Coherent Scatterers in SAR Data. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 6293-6307.	6.3	27
67	Doppler-Related Distortions in TOPS SAR Images. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 25-35.	6.3	27
68	Spaceborne Demonstration of Distributed SAR Imaging With TerraSAR-X and TanDEM-X. IEEE Geoscience and Remote Sensing Letters, 2019, 16, 1731-1735.	3.1	26
69	Digital Beamforming for HRWS-SAR Imaging: System Design, Performance and Optimization Strategies. , 2006, , .		25
70	Tandem-L: A mission proposal for monitoring dynamic earth processes. , 2011, , .		25
71	MIMO-SAR and the orthogonality confusion. , 2012, , .		25
72	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

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73	Reconstruction of Coherent Pairs of Synthetic Aperture Radar Data Acquired in Interrupted Mode. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 1876-1893.	6.3	24
74	Azimuth Reconstruction Algorithm for Multistatic SAR Formations With Large Along-Track Baselines. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 1931-1940.	6.3	24
75	Modelling of tropospheric delays in geosynchronous synthetic aperture radar. Science China Information Sciences, 2017, 60, 1.	4.3	23
76	Advanced digital beamforming concepts for future SAR systems. , 2010, , .		22
77	A golden age for spaceborne SAR systems. , 2014, , .		21
78	Onboard Processing for Data Volume Reduction in High-Resolution Wide-Swath SAR. IEEE Geoscience and Remote Sensing Letters, 2016, 13, 1173-1177.	3.1	21
79	The TanDEM-X Mission Concept. , 2006, , .		20
80	Generation of Highly Accurate DEMs Over Flat Areas by Means of Dual-Frequency and Dual-Baseline Airborne SAR Interferometry. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 4361-4390.	6.3	20
81	SAR signal reconstruction from non-uniform displaced phase centre sampling in the presence of perturbations. , 0, , .		19
82	TanDEM-X First DEM Acquisition: A Crossing Orbit Experiment. IEEE Geoscience and Remote Sensing Letters, 2011, 8, 943-947.	3.1	19
83	CEBRAS: Cross elevation beam range ambiguity suppression for high-resolution wide-swath and MIMO-SAR imaging. , 2015, , .		19
84	TanDEM-X: mission concept and performance analysis. , 0, , .		18
85	Ambiguities and image quality in staggered SAR. , 2015, , .		18
86	An Analytical Error Model for Spaceborne SAR Multichannel Azimuth Reconstruction. IEEE Geoscience and Remote Sensing Letters, 2018, 15, 853-857.	3.1	18
87	Multichannel Staggered SAR: System Concepts With Reflector and Planar Antennas. IEEE Transactions on Aerospace and Electronic Systems, 2019, 55, 877-902.	4.7	18
88	<title>New sector imaging radar for enhanced vision: SIREV</title>. , 1999, 3691, 39.		17
89	The legacy of the SIR-C/X-SAR radar system: 25 years on. Remote Sensing of Environment, 2019, 231, 111255.	11.0	16
90	MirrorSAR: An HRWS Add-On for Single-Pass Multi-Baseline SAR Interferometry. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-18.	6.3	16

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91	SIREV- Sector Imaging Radar for Enhanced Vision. , 0, , .		15
92	Advanced spaceborne SAR systems with planar antenna. , 2017, , .		15
93	Analysis of Geometrical Approximations in Signal Reconstruction Methods for Multistatic SAR Constellations With Large Along-Track Baseline. IEEE Geoscience and Remote Sensing Letters, 2018, 15, 892-896.	3.1	15
94	The High-Resolution Digital-Beamforming Airborne SAR System DBFSAR. Remote Sensing, 2020, 12, 1710.	4.0	15
95	Digital Beamforming for Spaceborne Reflector-Based Synthetic Aperture Radar, Part 1: Basic imaging modes. IEEE Geoscience and Remote Sensing Magazine, 2021, 9, 8-25.	9.6	15
96	Ultra Wide Swath Imaging with Multi-Channel ScanSAR. , 2008, , .		14
97	SESAME: A single-pass interferometric SEntinel-1 companion SAR mission for monitoring GEO- and biosphere dynamics. , 2017, , .		14
98	MEO SAR: System Concepts and Analysis. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 1313-1324.	6.3	14
99	Tandem-L: And innovative interferometric and polarimetric SAR mission to monitor earth system dynamics with high resolution. , 2010, , .		13
100	Staggered-SAR for high-resolution wide-swath imaging. , 2012, , .		13
101	First demonstration of 3-D holographic tomography with fully polarimetric multi-circular SAR at L-band. , 2013, , .		13
102	Radar 2020: The future of radar systems. , 2015, , .		13
103	ALOS-Next/TanDEM-L: A highly innovative SAR mission for global observation of dynamic processes on the earth's surface. , 2015, , .		13
104	INDREX II - indonesian airborne radar experiment campaign over tropical forest in L- and P-band: first results. , 0, , .		12
105	Analysis and optimization of multi-circular SAR for fully polarimetric holographic tomography over forested areas. , 2013, , .		12
106	Companion SAR constellations for single-pass interferometric applications: The SESAME mission. , 2017, , .		12
107	A SAR processing algorithm for TOPS imaging mode based on extended chirp scaling. , 2007, , .		11
108	The TanDEM-X mission: Overview and status. , 2007, , .		11

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109	Signal: SAR for ice, glacier and global dynamics. , 2010, , .		11
110	Correlating Synthetic Aperture Radar (CoSAR). IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 2268-2284.	6.3	11
111	<title>Sector imaging radar for enhanced vision (SIREV): simulation and processing techniques</title>. , 2000, , .		10
112	Spaceborne Synthetic Aperture Radar (SAR) Systems: State of the Art and Future Developments. , 2003, , .		10
113	Tandem-L instrument design and SAR performance overview. , 2014, , .		10
114	Coherence-based SAR tomography for spaceborne applications. Remote Sensing of Environment, 2019, 225, 107-114.	11.0	10
115	Multistatic SAR imaging: comparison of simulation results and experimental data. , 2017, , .		9
116	A New Slow PRI Variation Scheme for Multichannel SAR High-Resolution Wide-Swath Imaging. , 2018, , .		9
117	Multistatic Radar Systems. , 2013, , 61-122.		9
118	SAR Tomography and Interferometry for the Remote Sensing of Forested Terrain. Frequenz, 2001, 55, .	0.9	8
119	Multidimensional radar waveforms a new paradigm for the design and operation of highly performant spaceborne synthetic aperture radar systems. , 2007, , .		8
120	Multidimensional waveform encoding for spaceborne synthetic aperture radar systems. , 2007, , .		8
121	THE TanDEM-X Mission: Overview and status. , 2009, , .		8
122	Polarimetric 3-D imaging with airborne holographic SAR tomography over glaciers. , 2015, , .		8
123	Reverse Backprojection Algorithm for the Accurate Generation of SAR Raw Data of Natural Scenes. IEEE Geoscience and Remote Sensing Letters, 2017, 14, 2072-2076.	3.1	8
124	The global TanDEM-X DEM " A unique data set. , 2017, , .		8
125	Error Analysis for Digital Beamforming Synthetic Aperture Radars: A Comparison of Phased Array and Array-Fed Reflector Systems. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 6314-6322.	6.3	8
126	Large-baseline InSAR for precise topographic mapping: a framework for TanDEM-X large-baseline data. Advances in Radio Science, 0, 15, 231-241.	0.7	8

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127	Approach to velocity and acceleration measurement in the Bi-Directional SAR imaging mode. , 2012, , .		7
128	Cross-platform spaceborne Sar imaging: Demonstration using TanDEM-X. , 2013, , .		7
129	Wrapped Staring Spotlight SAR. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 5745-5764.	6.3	7
130	Tandem-L: Project Status and Main Findings of the Phase B1 Study. , 2018, , .		7
131	Slow Pulse Repetition Interval Variation for High-Resolution Wide-Swath SAR Imaging. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 5665-5686.	6.3	7
132	German Spaceborne SAR Missions. , 2021, , .		7
133	Bistatic spaceborne-airborne experiment TerraSAR-X/F-SAR: data processing and results. , 2008, , .		6
134	The TanDEM-X mission: an overview. , 2008, , .		6
135	Polarimetric 3-D reconstruction from multicircular SAR at P-band. , 2012, , .		6
136	A Reflector Antenna Concept Robust Against Feed Failures for Satellite Communications. IEEE Transactions on Antennas and Propagation, 2015, 63, 1218-1224.	5.1	6
137	Tandem-L: Main results of the phase a feasibility study. , 2016, , .		6
138	DBFSAR: An airborne very high-resolution digital beamforming SAR system. , 2017, , .		6
139	Sampling Analysis and Processing Approach for Distributed SAR Constellations With Along-Track Baselines. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-12.	6.3	6
140	Comparison of chirp scaling and wavenumber domain algorithms for airborne low-frequency SAR. , 2003, , .		5
141	Multidimensional waveform encoding for synthetic aperture radar remote sensing. , 2007, , .		5
142	A Dual-Focus Reflector Antenna for Spaceborne SAR Systems With Digital Beamforming. IEEE Transactions on Antennas and Propagation, 2013, 61, 1461-1465.	5.1	5
143	Estimation of tropospheric delays using synthetic aperture radar and squint diversity. , 2013, , .		5
144	Impact of TEC gradients and higher-order ionospheric disturbances on spaceborne single-pass SAR interferometry. , 2015, , .		5

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145	Data volume reduction in high-resolution wide-swath SAR systems. , 2015, , .		5
146	Multi-baseline spaceborne SAR imaging. , 2016, , .		5
147	The 2-Look TOPS Mode: Design and Demonstration With TerraSAR-X. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 7682-7703.	6.3	5
148	On the use of Time-Domain SAR Focusing in Spaceborne SAR Missions. , 2019, , .		5
149	Simultaneous Single-/Dual- and Quad-Pol SAR Imaging Over Swaths of Different Widths. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 2096-2103.	6.3	5
150	TanDEM-X. , 2013, , 387-435.		5
151	German X-Band Spaceborne SAR Heritage and the Future HRWS Mission. , 2021, , .		5
152	On-Ground RFI Mitigation for Spaceborne Multichannel SAR Systems Using Auxiliary Beams. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-18.	6.3	5
153	An autofocus approach for residual motion errors with application to airborne repeat-pass SAR interferometry. , 2007, , .		4
154	Advanced interferometric SAR techniques with TanDEM-X. , 2008, , .		4
155	First assessment of the permanent scatterer linear displacement model in airborne InSAR time series. , 2009, , .		4
156	Multiple-input multiple-output circular SAR. , 2014, , .		4
157	Bistatic SAR image formation: A systematic approach. , 2014, , .		4
158	Advanced spaceborne SAR systems with array-fed reflector antennas. , 2015, , .		4
159	TanDEM-X mission status: The complete new topography of the Earth. , 2016, , .		4
160	Tandem-L observation concept - contributions and challenges of systematic monitoring of earth system dynamics. , 2017, , .		4
161	Spaceborne demonstration of coherent SAR tomography for future companion satellite SAR missions. , 2017, , .		4
162	Investigations on the Reconstruction of Multistatic Large Along-Track SAR Constellations for HRWS Imaging. , 2018, , .		4

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163	Monitoring dynamic processes on the earth's surface using synthetic aperture radar. , 2018, , .		4
164	Ten Years of TerraSAR-X Scientific Results. Remote Sensing, 2019, 11, 364.	4.0	4
165	Addressing the Terrain Topography in Distributed SAR Imaging. , 2019, , .		4
166	Tandem-X: Mission Status and Science Activities. , 2019, , .		4
167	Investigation into the Weight Update Rate for Scan-On-Receive Beamforming. , 2020, , .		4
168	Polarimetric interferometry over urban areas: information extraction using coherent scatterers. , 0, , .		3
169	Foreword to the Special Issue on Synthetic Aperture Radar (SAR) Technologies and Techniques. IEEE Transactions on Geoscience and Remote Sensing, 2007, 45, 3303-3305.	6.3	3
170	Digital beamforming and multidimensional waveform encoding for spaceborne radar remote sensing. , 2007, , .		3
171	New processing approach and results for bistatic TerraSAR-X/F-SAR spaceborne-airborne experiments. , 2009, , .		3
172	Foreword to the Special Issue on TerraSAR-X: Mission, Calibration, and First Results. IEEE Transactions on Geoscience and Remote Sensing, 2010, 48, 603-604.	6.3	3
173	A concept for high performance reflector-based Synthetic Aperture Radar. , 2010, , .		3
174	First bistatic spaceborne SAR experiments with TanDEM-X. , 2011, , .		3
175	Bistatic SAR experiments with the TanDEM-X constellation. , 2012, , .		3
176	Reconstruction of missing data in interferometric SAR systems. , 2013, , .		3
177	Multi-baseline imaging: A vision for spaceborne SAR. , 2015, , .		3
178	Doppler Based Azimuth Reconstruction Algorithm for Multistatic SAR Formations in High Resolution Wide Swath Mode. , 2019, , .		3
179	Airborne Bistatic Synthetic Aperture Radar. , 0, , 159-213.		3
180	TANDEM-X: a satellite formation for high-resolution SAR interferometry. , 2007, , .		3

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181	TanDEM-X: A Satellite Formation for High Resolution Radar Interferometry. , 2006, , .		3
182	Autofocus-Based Estimation of Penetration Depth and Permittivity of Ice Volumes and Snow Using Single SAR Images. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-15.	6.3	3
183	Spaceborne synthetic aperture radar (SAR) systems: state of the art and future developments. , 0, , .		2
184	Estimation of the Deformation Temporal Evolution Using Airborne Differential SAR Interferometry. , 2006, , .		2
185	A novel optimization approach to forest height reconstruction from multi-baseline data. , 2007, , .		2
186	On the Minimum Number of Tracks for SAR Tomography. , 2008, , .		2
187	PolSARpro v3.3: The Educational Toolbox for Polarimetric and Interferometric Polarimetric SAR Data Processing. , 2008, , .		2
188	Processing multiple SAR modes with baseband azimuth scaling. , 2009, , .		2
189	Demonstration of SAR interferometry under crossing orbits using TerraSAR-X and TanDEM-X. , 2011, , .		2
190	Correction to "Multichannel Azimuth Processing in ScanSAR and TOPS Mode Operation" [Jul 10 2994-3008]. IEEE Transactions on Geoscience and Remote Sensing, 2013, 51, 4611-4611.	6.3	2
191	Dedicated calibration concept for interferometric SAR companion missions. , 2016, , .		2
192	Exact reverse backprojection for SAR raw data generation of natural scenes. , 2016, , .		2
193	Guest Editorial Foreword to the Special Issue on Synthetic Aperture Radar (SAR): New Techniques, Missions and Applications. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2016, 9, 967-970.	4.9	2
194	On a Dual PRI Pulse Sequence Mode for High-Resolution Wide-Swath SAR Imaging. , 2021, , .		2
195	TanDEM-X: Das neue globale Höhenmodell der Erde. , 2015, , 1-30.		2
196	A Novel Processing Technique to Suppress Nadir Returns in Staggered Synthetic Aperture Radar. , 2021, , .		2
197	Concepts and Applications of Multi-static MirrorSAR Systems. , 2020, , .		2
198	Airborne Real-time Sar Processing Activities At Dlr. , 0, , .		1

#	ARTICLE	IF	CITATIONS
199	Removing The Azimuth Ambiguities Of Point Targets In Synthetic Aperture Radar Images. , 0, , .		1
200	Development of a real-time airborne SAR processor using a subaperture approach. , 1994, 2316, 260.		1
201	Extension of the correlation Doppler estimator for determination of the Doppler rate and for resolving the PRF-ambiguity. , 1994, 2316, 33.		1
202	Some results of new microwave remote sensing experiments. Acta Astronautica, 2000, 47, 355-363.	3.2	1
203	PolSARpro v2.0: the polarimetric SAR data processing and educational toolbox. , 0, , .		1
204	Characterisation of Coherent Scatterers in Urban Areas by Means of Angular Diversity. , 2006, , .		1
205	Advanced D-InSAR techniques applied to a time series of airborne SAR data. , 2007, , .		1
206	Foreword to the Special Issue on Retrieval of Bio- and Geophysical Parameters From SAR Data for Land Applications. IEEE Transactions on Geoscience and Remote Sensing, 2009, 47, 379-380.	6.3	1
207	TanDEM-X mission: Overview, challenges and status. , 2013, , .		1
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