

Gerhard Krieger

List of Publications by Year in descending order

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280
papers

10,961
citations

53794

45
h-index

36028

97
g-index

284
all docs

284
docs citations

284
times ranked

4934
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	Unambiguous SAR Signal Reconstruction From Nonuniform Displaced Phase Center Sampling. IEEE Geoscience and Remote Sensing Letters, 2004, 1, 260-264.	3.1	485
4	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
5	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
6	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
7	MIMO-SAR: Opportunities and Pitfalls. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 2628-2645.	6.3	291
8	Spaceborne bi- and multistatic SAR: potential and challenges. IET Radar, Sonar & Navigation, 2006, 153, 184.	2.1	250
9	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
10	TanDEM-X: The New Global DEM Takes Shape. IEEE Geoscience and Remote Sensing Magazine, 2014, 2, 8-23.	9.6	171
11	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
12	TanDEM-X: A radar interferometer with two formation-flying satellites. Acta Astronautica, 2013, 89, 83-98.	3.2	167
13	Object and scene analysis by saccadic eye-movements: an investigation with higher-order statistics. Spatial Vision, 2000, 13, 201-214.	1.4	160
14	Interferometric Synthetic Aperture Radar (SAR) Missions Employing Formation Flying. Proceedings of the IEEE, 2010, 98, 816-843.	21.3	160
15	First case of human babesiosis in Germany – Clinical presentation and molecular characterisation of the pathogen. International Journal of Medical Microbiology, 2007, 297, 197-204.	3.6	137
16	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
17	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
18	Impact of Oscillator Noise in Bistatic and Multistatic SAR. IEEE Geoscience and Remote Sensing Letters, 2006, 3, 424-428.	3.1	122

#	ARTICLE	IF	CITATIONS
19	The global forest/non-forest map from TanDEM-X interferometric SAR data. Remote Sensing of Environment, 2018, 205, 352-373.	11.0	122
20	Performance Prediction of a Phase Synchronization Link for Bistatic SAR. IEEE Geoscience and Remote Sensing Letters, 2006, 3, 429-433.	3.1	114
21	Coherence evaluation of TanDEM-X interferometric data. ISPRS Journal of Photogrammetry and Remote Sensing, 2012, 73, 21-29.	11.1	113
22	Multichannel Azimuth Processing in ScanSAR and TOPS Mode Operation. IEEE Transactions on Geoscience and Remote Sensing, 2010, 48, 2994-3008.	6.3	108
23	SweepSAR: Beam-forming on receive using a reflector-phased array feed combination for spaceborne SAR. , 2009, , .		103
24	ONERA-DLR bistatic SAR campaign: planning, data acquisition, and first analysis of bistatic scattering behaviour of natural and urban targets. IET Radar, Sonar & Navigation, 2006, 153, 214.	2.1	99
25	Total Zero Doppler Steeringâ€”A New Method for Minimizing the Doppler Centroid. IEEE Geoscience and Remote Sensing Letters, 2005, 2, 141-145.	3.1	98
26	Relative height error analysis of TanDEM-X elevation data. ISPRS Journal of Photogrammetry and Remote Sensing, 2012, 73, 30-38.	11.1	94
27	First Spaceborne Demonstration of Digital Beamforming for Azimuth Ambiguity Suppression. IEEE Transactions on Geoscience and Remote Sensing, 2013, 51, 579-590.	6.3	93
28	Performance Comparison of Reflector- and Planar-Antenna Based Digital Beam-Forming SAR. International Journal of Antennas and Propagation, 2009, 2009, 1-13.	1.2	83
29	First Bistatic Spaceborne SAR Experiments With TanDEM-X. IEEE Geoscience and Remote Sensing Letters, 2012, 9, 33-37.	3.1	78
30	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
31	Analysis of multistatic configurations for spaceborne SAR interferometry. IET Radar, Sonar & Navigation, 2003, 150, 87.	2.1	74
32	Scene analysis with saccadic eye movements: Top-down and bottom-up modeling. Journal of Electronic Imaging, 2001, 10, 152.	0.9	71
33	Nonlinear image operators for the evaluation of local intrinsic dimensionality. IEEE Transactions on Image Processing, 1996, 5, 1026-1042.	9.8	69
34	Fast GMTI Algorithm For Traffic Monitoring Based On A Priori Knowledge. IEEE Transactions on Geoscience and Remote Sensing, 2012, 50, 4626-4641.	6.3	68
35	Development of the TanDEM-X Calibration Concept: Analysis of Systematic Errors. IEEE Transactions on Geoscience and Remote Sensing, 2010, 48, 716-726.	6.3	66
36	Spaceborne Reflector SAR Systems with Digital Beamforming. IEEE Transactions on Aerospace and Electronic Systems, 2012, 48, 3473-3493.	4.7	61

#	ARTICLE	IF	CITATIONS
37	Staggered SAR: Performance Analysis and Experiments With Real Data. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 6617-6638.	6.3	59
38	Simultaneous High-Resolution Wide-Swath SAR Imaging and Ground Moving Target Indication: Processing Approaches and System Concepts. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2015, 8, 5015-5029.	4.9	58
39	Spaceborne Polarimetric SAR Interferometry: Performance Analysis and Mission Concepts. Eurasip Journal on Advances in Signal Processing, 2005, 2005, 1.	1.7	56
40	Bistatic system and baseline calibration in TanDEM-X to ensure the global digital elevation model quality. ISPRS Journal of Photogrammetry and Remote Sensing, 2012, 73, 3-11.	11.1	54
41	Ambiguity Suppression by Azimuth Phase Coding in Multichannel SAR Systems. IEEE Transactions on Geoscience and Remote Sensing, 2012, 50, 617-629.	6.3	53
42	Airborne Demonstration of Multichannel SAR Imaging. IEEE Geoscience and Remote Sensing Letters, 2011, 8, 963-967.	3.1	52
43	Volume Decorrelation Effects in TanDEM-X Interferometric SAR Data. IEEE Geoscience and Remote Sensing Letters, 2016, 13, 1812-1816.	3.1	52
44	Azimuth Phase Center Adaptation on Transmit for High-Resolution Wide-Swath SAR Imaging. IEEE Geoscience and Remote Sensing Letters, 2009, 6, 782-786.	3.1	51
45	Definition of ICESat Selection Criteria for Their Use as Height References for TanDEM-X. IEEE Transactions on Geoscience and Remote Sensing, 2010, 48, 2750-2757.	6.3	50
46	Advanced synthetic aperture radar based on digital beamforming and waveform diversity. , 2008, , .		47
47	Sector imaging radar for enhanced vision. Aerospace Science and Technology, 2003, 7, 147-158.	4.8	46
48	A Novel Processing Strategy for Staggered SAR. IEEE Geoscience and Remote Sensing Letters, 2014, 11, 1891-1895.	3.1	46
49	Bidirectional SAR Imaging Mode. IEEE Transactions on Geoscience and Remote Sensing, 2013, 51, 601-614.	6.3	44
50	Taxi: A versatile processing chain for experimental TanDEM-X product evaluation. , 2010, , .		42
51	Multistatic sar satellite formations: potentials and challenges. , 0, , .		41
52	The tandem-L mission proposal: Monitoring earth's dynamics with high resolution SAR interferometry. , 2009, , .		41
53	On the Pulse Extension Loss in Digital Beamforming SAR. IEEE Geoscience and Remote Sensing Letters, 2015, 12, 1436-1440.	3.1	37
54	On Some Spectral Properties of TanDEM-X Interferograms Over Forested Areas. IEEE Geoscience and Remote Sensing Letters, 2013, 10, 71-75.	3.1	36

#	ARTICLE	IF	CITATIONS
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 atoms of vision: Cartesian or polar?. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1999, 16, 1554.	1.5	35
57	The TanDEM-X mission: A satellite formation for high-resolution SAR interferometry. , 2007, , .		35
58	Quantization Effects in TanDEM-X Data. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 583-597.	6.3	35
59	New Insights Into Ambiguities in Quad-Pol SAR. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 3287-3308.	6.3	35
60	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
61	MirrorSAR: A fractionated space radar for bistatic, multistatic and high-resolution wide-swath SAR imaging. , 2017, , .		32
62	Range-Doppler Based CFAR Ship Detection with Automatic Training Data Selection. Remote Sensing, 2019, 11, 1270.	4.0	32
63	Bistatic synchronization and processing of TanDEM-X data. , 2011, , .		31
64	Multichannel Staggered SAR Azimuth Processing. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 2772-2788.	6.3	30
65	Spectral-Based Estimation of the Local Azimuth Ambiguity-to-Signal Ratio in SAR Images. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 2304-2313.	6.3	27
66	Studies on Walter Burley 1989-1997. Vivarium, 1999, 37, 94-100.	0.1	26
67	Nonlinear mechanisms and higher-order statistics in biological vision and electronic image processing: review and perspectives. Journal of Electronic Imaging, 2001, 10, 56.	0.9	26
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	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

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73	Air- and spaceborne monitoring of road traffic using SAR moving target indication"Project TRAMRAD. ISPRS Journal of Photogrammetry and Remote Sensing, 2006, 61, 243-259.	11.1	23
74	Azimuth-invariant, bistatic airborne SAR processing strategies based on monostatic algorithms. , 0, , .		22
75	Advanced digital beamforming concepts for future SAR systems. , 2010, , .		22
76	Acceleration-independent along-track velocity estimation of moving targets. IET Radar, Sonar and Navigation, 2010, 4, 474.	1.8	21
77	Impact of Azimuth Ambiguities on Interferometric Performance. IEEE Geoscience and Remote Sensing Letters, 2012, 9, 896-900.	3.1	21
78	Results of the TanDEM-X Baseline Calibration. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2013, 6, 1495-1501.	4.9	21
79	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
80	Training Data Selection and Update Strategies for Airborne Post-Doppler STAP. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 5626-5641.	6.3	21
81	The TanDEM-X Mission Concept. , 2006, , .		20
82	SAR signal reconstruction from non-uniform displaced phase centre sampling in the presence of perturbations. , 0, , .		19
83	TanDEM-X First DEM Acquisition: A Crossing Orbit Experiment. IEEE Geoscience and Remote Sensing Letters, 2011, 8, 943-947.	3.1	19
84	CEBRAS: Cross elevation beam range ambiguity suppression for high-resolution wide-swath and MIMO-SAR imaging. , 2015, , .		19
85	Multifrequency Subpulse SAR: Exploiting Chirp Bandwidth for an Increased Coverage. IEEE Geoscience and Remote Sensing Letters, 2019, 16, 40-44.	3.1	19
86	TanDEM-X: mission concept and performance analysis. , 0, , .		18
87	Smart Multi-Aperture Radar Techniques for Spaceborne Remote Sensing. , 2008, , .		18
88	Ambiguities and image quality in staggered SAR. , 2015, , .		18
89	An Analytical Error Model for Spaceborne SAR Multichannel Azimuth Reconstruction. IEEE Geoscience and Remote Sensing Letters, 2018, 15, 853-857.	3.1	18
90	Multichannel Staggered SAR: System Concepts With Reflector and Planar Antennas. IEEE Transactions on Aerospace and Electronic Systems, 2019, 55, 877-902.	4.7	18

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91	Higher-order statistics of natural images and their exploitation by operators selective to intrinsic dimensionality. , 0, , .		17
92	The TanDEM-X mission: overview and interferometric performance. International Journal of Microwave and Wireless Technologies, 2010, 2, 379-389.	1.9	17
93	Dual-Platform Large Along-Track Baseline GMTI. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 1554-1574.	6.3	17
94	First 2 years of TanDEM-X mission: Interferometric performanceâ€™%overview. Radio Science, 2013, 48, 617-627.	1.6	16
95	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
96	SIREV- Sector Imaging Radar for Enhanced Vision. , 0, , .		15
97	Adaptive scan-on-receive based on spatial spectral estimation for high-resolution, wide-swath Synthetic Aperture Radar. , 2009, , .		15
98	Real-time road traffic monitoring using a fast a priori knowledge based SAR-GMTI algorithm. , 2010, , .		15
99	Multi-Channel SAR for Ground Moving Target Indication. Academic Press Library in Signal Processing, 2014, , 911-986.	0.8	15
100	Advanced spaceborne SAR systems with planar antenna. , 2017, , .		15
101	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
102	<title>Sector imaging radar for enhanced vision (SIREV): theory and applications</title>. , 2000, 4023, 292.		14
103	Ultra Wide Swath Imaging with Multi-Channel ScanSAR. , 2008, , .		14
104	SESAME: A single-pass interferometric SEntinel-1 companion SAR mission for monitoring GEO- and biosphere dynamics. , 2017, , .		14
105	MEO SAR: System Concepts and Analysis. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 1313-1324.	6.3	14
106	An autonomous, non-cooperative, wide-area traffic monitoring system using space-based radar (TRAMRAD). , 0, , .		13
107	Concept design of a near-space radar for tsunami detection. , 2007, , .		13
108	Performance Prediction and Verification for the Synchronization Link of TanDEM-X. , 2007, , .		13

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109	Tandem-L: And innovative interferometric and polarimetric SAR mission to monitor earth system dynamics with high resolution. , 2010, , .		13
110	Large along-track baseline SAR-GMTI: First results with the TerraSAR-X/TanDEM-X satellite constellation. , 2011, , .		13
111	Unexpected height offsets in TanDEM-X: Explanation and correction. , 2012, , .		13
112	Staggered-SAR for high-resolution wide-swath imaging. , 2012, , .		13
113	Relativistic Effects in Bistatic Synthetic Aperture Radar. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 1480-1488.	6.3	13
114	Azimuth-Switched Quantization for SAR Systems and Performance Analysis on TanDEM-X Data. IEEE Geoscience and Remote Sensing Letters, 2014, 11, 181-185.	3.1	13
115	Radar 2020: The future of radar systems. , 2015, , .		13
116	ALOS-Next/TanDEM-L: A highly innovative SAR mission for global observation of dynamic processes on the earth's surface. , 2015, , .		13
117	<title>Nonlinear neurons and higher-order statistics: new approaches to human vision and digital image processing</title>. , 1999, , .		12
118	Enhancing Interferometric SAR Performance Over Sandy Areas: Experience From the TanDEM-X Mission. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2016, 9, 1036-1046.	4.9	12
119	The TanDEM-X Mission Phasesâ€”Ten Years of Bistatic Acquisition and Formation Planning. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 3504-3518.	4.9	12
120	Impact of oscillator noise in bistatic and multistatic SAR. , 0, , .		11
121	The TanDEM-X mission: Overview and status. , 2007, , .		11
122	Signal: SAR for ice, glacier and global dynamics. , 2010, , .		11
123	InSAR and DEM quality monitoring of TanDEM-X. , 2012, , .		11
124	Correlating Synthetic Aperture Radar (CoSAR). IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 2268-2284.	6.3	11
125	<title>Sector imaging radar for enhanced vision (SIREV): simulation and processing techniques</title>. , 2000, , .		10
126	Spaceborne Synthetic Aperture Radar (SAR) Systems: State of the Art and Future Developments. , 2003, , .		10

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127	Performance investigation on the High-Resolution Wide-Swath SAR system operating in Multisubpulse mode. , 2012, , .		10
128	Digital Beam-Forming reconfigurable Radar System demonstrator. , 2012, , .		10
129	Tandem-L instrument design and SAR performance overview. , 2014, , .		10
130	Predictive Quantization for Data Volume Reduction in Staggered SAR Systems. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 5575-5587.	6.3	10
131	Detecting Ships in the New Zealand Exclusive Economic Zone: Requirements for a Dedicated SmallSat SAR Mission. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 3162-3169.	4.9	10
132	A New Slow PRI Variation Scheme for Multichannel SAR High-Resolution Wide-Swath Imaging. , 2018, , .		9
133	Multistatic Radar Systems. , 2013, , 61-122.		9
134	Multidimensional radar waveforms a new paradigm for the design and operation of highly performant spaceborne synthetic aperture radar systems. , 2007, , .		8
135	Multidimensional waveform encoding for spaceborne synthetic aperture radar systems. , 2007, , .		8
136	SAR Traffic Monitoring Using Time-Frequency Analysis for Detection and Parameter Estimation. , 2008, , .		8
137	THE TanDEM-X Mission: Overview and status. , 2009, , .		8
138	Digital beamforming techniques for multi-channel synthetic aperture radar. , 2016, , .		8
139	Investigations on the internal calibration of multi-channel SAR. , 2017, , .		8
140	The global TanDEM-X DEM "A unique data set. , 2017, , .		8
141	Efficient Onboard Quantization for Multichannel SAR Systems. IEEE Geoscience and Remote Sensing Letters, 2019, 16, 1859-1863.	3.1	8
142	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
143	In-Flight Multichannel Calibration for Along-Track Interferometric Airborne Radar. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 3104-3121.	6.3	8
144	A Low-Power, Ambiguous Synthetic Aperture Radar Concept for Continuous Ship Monitoring. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2022, 15, 1244-1255.	4.9	8

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145	DEM calibration concept for TanDEM-X. , 2007, , .		7
146	Approach to velocity and acceleration measurement in the Bi-Directional SAR imaging mode. , 2012, , .		7
147	Tests of the TanDEM-X DEM calibration performance. , 2012, , .		7
148	Cross-platform spaceborne Sar imaging: Demonstration using TanDEM-X. , 2013, , .		7
149	Exploring the trade-space of MIMO SAR. , 2013, , .		7
150	A Ka/X-band digital beamforming synthetic aperture radar for earth observation. , 2015, , .		7
151	Wrapped Staring Spotlight SAR. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 5745-5764.	6.3	7
152	Tandem-L: Project Status and Main Findings of the Phase B1 Study. , 2018, , .		7
153	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
154	Experimental Demonstration of Nadir Echo Removal in SAR Using Waveform Diversity and Dual-Focus Postprocessing. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	3.1	7
155	Approaches for Road Surface Roughness Estimation Using Airborne Polarimetric SAR. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2022, 15, 3444-3462.	4.9	7
156	Bistatic spaceborne-airborne experiment TerraSAR-X/F-SAR: data processing and results. , 2008, , .		6
157	The TanDEM-X mission: an overview. , 2008, , .		6
158	A priori knowledge-based Post-Doppler STAP for traffic monitoring applications. , 2012, , .		6
159	Digital beamforming architecture and techniques for a spaceborne interferometric Ka-band mission. , 2013, , .		6
160	On-board Doppler filtering for data volume reduction in spaceborne SAR systems. , 2014, , .		6
161	SAOCOM-CS SAR imaging performance evaluation in large baseline bistatic configuration. , 2015, , .		6
162	Highly integrated dual-band digital beamforming Synthetic Aperture Radar. , 2015, , .		6

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163	A Reflector Antenna Concept Robust Against Feed Failures for Satellite Communications. IEEE Transactions on Antennas and Propagation, 2015, 63, 1218-1224.	5.1	6
164	Tandem-L: Main results of the phase a feasibility study. , 2016, , .		6
165	An Internal Instrument Calibration Simulator for Multi-Channel Sar. , 2018, , .		6
166	Assessment of Image Quality of Waveform-Encoded Synthetic Aperture Radar Using Real Satellite Data. , 2019, , .		6
167	Tracking and Track Management of Extended Targets in Range-Doppler Using Range-Compressed Airborne Radar Data. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-20.	6.3	6
168	Intrinsic Dimensionality. , 2001, , 403-448.		6
169	Performance-Optimized Quantization for SAR and InSAR Applications. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-22.	6.3	6
170	Neural network models and the visual cortex: the missing link between orientation selectivity and the natural environment. Neuroscience Letters, 1997, 228, 155-158.	2.1	5
171	Multidimensional waveform encoding for synthetic aperture radar remote sensing. , 2007, , .		5
172	GMTI Performance of a High Resolution Wide Swath SAR Operation Mode. , 2008, , .		5
173	Mission design and performance for systematic deformation measurements with a spaceborne SAR system. , 2009, , .		5
174	Digital beam-forming for spaceborne reflector- and planar-antenna SAR — A system performance comparison. , 2009, , .		5
175	Performance investigation on the high-resolution wide-swath SAR system operating in stripmap quad-pol and ultra-wide scansar mode. , 2011, , .		5
176	TanDEM-X acquisition status and calibration of the interferometric system. , 2012, , .		5
177	Decorrelation effects in bistatic TanDEM-X data. , 2012, , .		5
178	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
179	Impact of TEC gradients and higher-order ionospheric disturbances on spaceborne single-pass SAR interferometry. , 2015, , .		5
180	Data volume reduction in high-resolution wide-swath SAR systems. , 2015, , .		5

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181	Multi-baseline spaceborne SAR imaging. , 2016, , .		5
182	Production of a global forest/non-forest map utilizing TanDEM-X interferometric SAR data. , 2017, , .		5
183	The Cost of Opportunity for Gapless Imaging. , 2019, , .		5
184	On the use of Time-Domain SAR Focusing in Spaceborne SAR Missions. , 2019, , .		5
185	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
186	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
187	Interferometric digital elevation model reconstruction - experiences from SRTM and multi channel approaches for future missions. , 0, , .		4
188	The IPRS Image Processing and Pattern Recognition System. Spatial Vision, 1997, 11, 107-115.	1.4	4
189	Elevation-dependent motion compensation for frequency-domain bistatic SAR image synthesis. , 2007, , .		4
190	Advanced interferometric SAR techniques with TanDEM-X. , 2008, , .		4
191	Fuel consumption and collision avoidance strategy in multi-static orbit formations. Acta Astronautica, 2011, 68, 1002-1014.	3.2	4
192	Distributed imaging with TerraSAR-X and TanDEM-X. , 2011, , .		4
193	Bistatic SAR image formation: A systematic approach. , 2014, , .		4
194	Dual-band digital beamforming synthetic aperture radar for earth observation. , 2015, , .		4
195	Along-track SAR interferometry using a single reflector antenna. IET Radar, Sonar and Navigation, 2015, 9, 942-947.	1.8	4
196	Advanced spaceborne SAR systems with array-fed reflector antennas. , 2015, , .		4
197	TanDEM-X mission status: The complete new topography of the Earth. , 2016, , .		4
198	Tandem-L observation concept - contributions and challenges of systematic monitoring of earth system dynamics. , 2017, , .		4

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199	A HRWS SAR system design with multi-beam imaging capabilities. , 2017, , .		4
200	Monitoring dynamic processes on the earth's surface using synthetic aperture radar. , 2018, , .		4
201	Addressing the Terrain Topography in Distributed SAR Imaging. , 2019, , .		4
202	Investigation into the Weight Update Rate for Scan-On-Receive Beamforming. , 2020, , .		4
203	Radiometric Degradation Associated With Terrain Height Variations and Pulse Duration in Scan-On-Receive SAR Images. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-14.	6.3	4
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