Teng Long

List of Publications by Year
in descending order

125	1,280	361413	454955
papers	citations	20	30
		h-index	g-index

126	126	126	906
all docs	docs citations	times ranked	citing authors

#	ARTICLE	IF	CITATIONS
1	An Improved Frequency Domain Focusing Method in Geosynchronous SAR. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 5514-5528.	6.3	67
2	Mainlobe Interference Suppression Based on Eigen-Projection Processing and Covariance Matrix Reconstruction. IEEE Antennas and Wireless Propagation Letters, 2014, 13, 1369-1372.	4.0	67
3	A New Method of Zero-Doppler Centroid Control in GEO SAR. IEEE Geoscience and Remote Sensing Letters, 2011, 8, 512-516.	3.1	66
4	Subaperture Approach Based on Azimuth-Dependent Range Cell Migration Correction and Azimuth Focusing Parameter Equalization for Maneuvering High-Squint-Mode SAR. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 6718-6734.	6.3	61
5	Advanced technology of high-resolution radar: target detection, tracking, imaging, and recognition. Science China Information Sciences, 2019, 62, 1.	4.3	57
6	Fast STAP Method Based on PAST with Sparse Constraint for Airborne Phased Array Radar. IEEE Transactions on Signal Processing, 2016, 64, 4550-4561.	5.3	40
7	Micro-Doppler measurement of insect wing-beat frequencies with W-band coherent radar. Scientific Reports, 2017, 7, 1396.	3.3	36
8	A Modified Frequency Domain Algorithm Based on Optimal Azimuth Quadratic Factor Compensation for Geosynchronous SAR Imaging. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2016, 9, 1119-1131.	4.9	35
9	Robust non‐homogeneity detection algorithm based on prolate spheroidal wave functions for space‐time adaptive processing. IET Radar, Sonar and Navigation, 2013, 7, 47-54.	1.8	34
10	Optimization of Subarray Partition for Large Planar Phased Array Radar Based on Weighted K-Means Clustering Method. IEEE Journal on Selected Topics in Signal Processing, 2015, 9, 1460-1468.	10.8	29
11	Robust Wideband Adaptive Beamforming With Null Broadening and Constant Beamwidth. IEEE Transactions on Antennas and Propagation, 2019, 67, 5380-5389.	5.1	29
12	Focus-before-detection radar signal processing: part ii‐recent developments. IEEE Aerospace and Electronic Systems Magazine, 2018, 33, 34-49.	1.3	27
13	Experimental Study of Ionospheric Impacts on Geosynchronous SAR Using GPS Signals. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2016, 9, 2171-2183.	4.9	24
14	Identification of Migratory Insects from their Physical Features using a Decision-Tree Support Vector Machine and its Application to Radar Entomology. Scientific Reports, 2018, 8, 5449.	3.3	23
15	Extended NLCS Algorithm of BiSAR Systems With a Squinted Transmitter and a Fixed Receiver: Theory and Experimental Confirmation. IEEE Transactions on Geoscience and Remote Sensing, 2013, 51, 5019-5030.	6.3	22
16	Impacts of Temporal-Spatial Variant Background Ionosphere on Repeat-Track GEO D-InSAR System. Remote Sensing, 2016, 8, 916.	4.0	22
17	SAR Parametric Super-Resolution Image Reconstruction Methods Based on ADMM and Deep Neural Network. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 10197-10212.	6.3	22
18	Polarimetric HRRP Recognition Based on ConvLSTM With Self-Attention. IEEE Sensors Journal, 2021, 21, 7884-7898.	4.7	22

#	Article	IF	Citations
19	An Optimal Resolution Steering Method for Geosynchronous Orbit SAR. IEEE Geoscience and Remote Sensing Letters, 2014, 11, 1732-1736.	3.1	20
20	A Novel Range Grating Lobe Suppression Method Based on the Stepped-Frequency SAR Image. IEEE Geoscience and Remote Sensing Letters, 2015, 12, 606-610.	3.1	20
21	Motion and Doppler Characteristics Analysis Based on Circular Motion Model in Geosynchronous SAR. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2016, 9, 1132-1142.	4.9	18
22	Efficient ISAR Phase Autofocus Based on Eigenvalue Decomposition. IEEE Geoscience and Remote Sensing Letters, 2017, 14, 2195-2199.	3.1	18
23	Offline Performance Prediction of PDAF With Bayesian Detection for Tracking in Clutter. IEEE Transactions on Signal Processing, 2013, 61, 770-781.	5.3	17
24	Improved Double Threshold Detector for Spatially Distributed Target. IEICE Transactions on Communications, 2012, E95.B, 1475-1478.	0.7	16
25	An improved motion compensation method for high resolution UAV SAR imaging. Science China Information Sciences, 2014, 57, 1-13.	4.3	16
26	A new complex Duffing oscillator used in complex signal detection. Science Bulletin, 2012, 57, 2185-2191.	1.7	15
27	High accuracy unambiguous angle estimation using multiâ€scale combination in distributed coherent aperture radar. IET Radar, Sonar and Navigation, 2017, 11, 1090-1098.	1.8	15
28	Improved Probabilistic Multi-Hypothesis Tracker for Multiple Target Tracking With Switching Attribute States. IEEE Transactions on Signal Processing, 2011, 59, 5721-5733.	5.3	14
29	Wideband distributed coherent aperture radar. , 2014, , .		13
30	Adaptive null broadening method in wideband beamforming for rapidly moving interference suppression. Electronics Letters, 2018, 54, 1003-1005.	1.0	12
31	D3-STMB Hybrid STAP Algorithm for Discrete Interference Suppression in Nonhomogeneous Clutter. IEICE Transactions on Communications, 2011, E94-B, 1114-1117.	0.7	11
32	Accurate range profile alignment method based on minimum entropy for inverse synthetic aperture radar image formation. IET Radar, Sonar and Navigation, 2016, 10, 663-671.	1.8	11
33	A Range Grating Lobes Suppression Method for Stepped-Frequency SAR Imagery. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2016, 9, 5677-5687.	4.9	11
34	Robust Wideband Adaptive Beamforming Based on Focusing Transformation and Steering Vector Compensation. IEEE Antennas and Wireless Propagation Letters, 2020, 19, 2280-2284.	4.0	11
35	Polarimetric HRRP recognition based on featureâ€guided Transformer model. Electronics Letters, 2021, 57, 705-707.	1.0	11
36	Geoâ€location error analysis in geosynchronous SAR. Electronics Letters, 2014, 50, 1741-1743.	1.0	10

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37	Space-surface BiSAR based on GNSS signal: Synchronization, imaging and experiment result. , 2014, , .		10
38	GNSS Carrier Phase Tracking With Discrete Wavelet Transform Filtering Under Ionospheric Scintillation. IEEE Communications Letters, 2017, 21, 394-397.	4.1	10
39	A Novel Subarray Digital Modulation Technique for Wideband Phased Array Radar. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 7365-7376.	4.7	10
40	Insect Multifrequency Polarimetric Radar Cross Section: Experimental Results and Analysis. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 6573-6585.	6.3	10
41	Effect of geometry of planar antenna arrays on Cramer-Rao Bounds for DOA estimation. , 2010, , .		9
42	Numerical Analysis of Orbital Perturbation Effects on Inclined Geosynchronous SAR. Sensors, 2016, 16, 1420.	3.8	9
43	Parametric Image Reconstruction for Edge Recovery From Synthetic Aperture Radar Echoes. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 2155-2173.	6.3	9
44	HPRF pulse Doppler stepped frequency radar. Science in China Series F: Information Sciences, 2009, 52, 883-893.	1.1	8
45	Sub-Array Weighting UN-MUSIC: A Unified Framework and Optimal Weighting Strategy. IEEE Signal Processing Letters, 2014, 21, 871-874.	3.6	8
46	Road-Aided Ground Slowly Moving Target 2D Motion Estimation for Single-Channel Synthetic Aperture Radar. Sensors, 2016, 16, 383.	3.8	8
47	SAR Ground Moving Target Indication Based on Relative Residue of DPCA Processing. Sensors, 2016, 16, 1676.	3.8	8
48	Geometrical Structure Classification of Target HRRP Scattering Centers Based on Dual Polarimetric $H/alpha$ Features. IEEE Access, 2019, 7, 141679-141688.	4.2	8
49	Practical Investigation of a MIMO radar system capabilities forÂsmall drones detection. IET Radar, Sonar and Navigation, 2021, 15, 760-774.	1.8	8
50	Design of validation experiment for analysing impacts of background ionosphere on geosynchronous SAR using GPS signals. Electronics Letters, 2015, 51, 1604-1606.	1.0	7
51	Underwater sonar target imaging via compressed sensing with M sequences. Science China Information Sciences, 2016, 59, 1.	4.3	7
52	An effective ISAR autofocus algorithm based on single eigenvector. , 2016, , .		7
53	Robust and fast iterative sparse recovery method for space-time adaptive processing. Science China Information Sciences, 2016, 59, 1.	4.3	7
54	Computerized ionospheric tomography based on geosynchronous SAR. Journal of Geophysical Research: Space Physics, 2017, 122, 2686-2705.	2.4	7

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55	Adjacent co-prime array for DOA estimation of real-valued sources. , 2017, , .		7
56	Modeling and Quantitative Analysis of Tropospheric Impact on Inclined Geosynchronous SAR Imaging. Remote Sensing, 2019, 11, 803.	4.0	7
57	Channel Error Effect Analysis for Reconstruction Algorithm in Dual-Channel SAR Imaging. IEEE Geoscience and Remote Sensing Letters, 2020, 17, 1563-1567.	3.1	7
58	Hybrid STAP approach of direct data domain algorithm and adaptive localised domain transformation for discrete interference suppression in non€homogeneous clutter. Electronics Letters, 2014, 50, 1743-1745.	1.0	6
59	Improved PRI€staggered space–time adaptive processing algorithm based on projection approximation subspace tracking subspace technique. IET Radar, Sonar and Navigation, 2014, 8, 449-456.	1.8	6
60	Adaptive Correlation Space Adjusted Open-Loop Tracking Approach for Vehicle Positioning with Global Navigation Satellite System in Urban Areas. Sensors, 2015, 15, 21581-21612.	3.8	6
61	An extended dimension music method for doa estimation of multiple real-valued sources. , 2016, , .		6
62	A Novel Monopulse Technique for Adaptive Phased Array Radar. Sensors, 2017, 17, 116.	3.8	6
63	Motion Parameter Estimation and HRRP Construction for High-Speed Weak Targets Based on Modified GRFT for Synthetic-Wideband Radar With PRF Jittering. IEEE Sensors Journal, 2021, 21, 23234-23244.	4.7	6
64	Phase difference estimation based on orthogonal signals for distributed coherent aperture radar. , 2013, , .		5
65	Multiple input and multiple output synthetic aperture radar multiple waveform separation based on oblique projection in same frequency coverage. IET Radar, Sonar and Navigation, 2015, 9, 1088-1096.	1.8	5
66	Road-Aided Doppler Ambiguity Resolver for SAR Ground Moving Target in the Image Domain. IEEE Geoscience and Remote Sensing Letters, 2016, 13, 1552-1556.	3.1	5
67	An improved IMM algorithm based on maneuvering-adaptive model set. , 2016, , .		5
68	Low€slow€small target detection using stepped€frequency signals in a strong folded clutter environment. IET Radar, Sonar and Navigation, 2021, 15, 1030-1044.	1.8	5
69	Pulse-order recursive method for inverse covariance matrix computation applied to space-time adaptive processing. Science China Information Sciences, 2013, 56, 1-12.	4.3	4
70	MIMO-SAR waveforms separation based on virtual polarization filter. Science China Information Sciences, 2015, 58, 1-12.	4.3	4
71	Target Tracking Using SePDAF under Ambiguous Angles for Distributed Array Radar. Sensors, 2016, 16, 1456.	3.8	4
72	Near-Field Phase Cross Correlation Focusing Imaging and Parameter Estimation for Penetrating Radar. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 598-611.	6.3	4

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73	Blocked Azimuth Spectrum Reconstruction Algorithm for Onboard Real-Time Dual-Channel SAR Imaging. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	3.1	4
74	Folded Clutter Suppression for Pulse-Doppler Radar Based on Pulse-Agile Waveforms. IEEE Transactions on Signal Processing, 2022, 70, 3774-3788.	5.3	4
75	Investigation of the SISAR imaging of the ground moving target under multipath interference. , 2011, , .		3
76	An accurate SISAR imaging method of ground moving target in forward scatter radar. Science China Information Sciences, 2012, 55, 2269-2280.	4.3	3
77	Pre-Compensation Clutter Range-Dependence STAP Algorithm for Forward-Looking Airborne Radar Utilizing Knowledge-Aided Subspace Projection. IEICE Transactions on Communications, 2012, E95-B, 97-105.	0.7	3
78	Improved eigenanalysis canceler based on data-independent clutter subspace estimation for space-time adaptive processing. Science China Information Sciences, 2013, 56, 1-10.	4.3	3
79	Underwater Acoustic Matched Field Imaging Based on Compressed Sensing. Sensors, 2015, 15, 25577-25591.	3.8	3
80	A continuous PRI variation method for geosynchronous SAR with elliptical orbit. , 2015, , .		3
81	Identification-While-Scanning of a Multi-Aircraft Formation Based on Sparse Recovery for Narrowband Radar. Sensors, 2016, 16, 1972.	3.8	3
82	GMTI for Squint Looking XTI-SAR with Rotatable Forward-Looking Array. Sensors, 2016, 16, 873.	3.8	3
83	High Accuracy Acquisition of 3-D Flight Trajectory of Individual Insect Based on Phase Measurement. Sensors, 2016, 16, 2166.	3.8	3
84	Phase unwrapping method based on multiâ€frequency InSAR in highly sloped terrain. Electronics Letters, 2016, 52, 1058-1059.	1.0	3
85	OTHR highly maneuvering target detection via generalized randon-fourier transform. , 2016, , .		3
86	SAR ground moving targets relocation via co-prime arrays. , 2017, , .		3
87	Deep forest for radar HRRP recognition. Journal of Engineering, 2019, 2019, 8018-8021.	1.1	3
88	An improved algorithm of velocity measurement using burst error function. , 2010, , .		2
89	A new modified Joint Domain Localized STAP algorithm. , 2010, , .		2
90	Improved Joint Domain Localized STAP algorithm based on mainbeam clutter cancellation. , 2011, , .		2

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91	Eigencanceller STAP algorithm by utilizing prolate spheroidal wave functions for airborne radar. , 2013, , .		2
92	Subsurface height measurement using InSAR technique in sand-covered arid areas. , 2014, , .		2
93	Height resolution analysis in geosynchronous SAR. Electronics Letters, 2015, 51, 579-581.	1.0	2
94	Optimal design of subarray configurations for large phased antenna array based on modified clustering method. , 2015, , .		2
95	A Robust Range Grating Lobe Suppression Method Based on Image Contrast for Stepped-Frequency SAR. Sensors, 2016, 16, 2066.	3.8	2
96	Along-track velocity estimation for SAR moving target in complex image domain. , 2016, , .		2
97	Parameter resolutions of uniformly accelerated targets based on hybrid integration. , 2016, , .		2
98	Estimation of source number based on power-inversion and adaptive threshold in colored noise. , 2016, , .		2
99	Implementation of CS coefficient calculation based on dualâ€operator engines in multimode spaceborne SAR imaging systems. Electronics Letters, 2018, 54, 163-165.	1.0	2
100	A radar waveform bandwidth selection strategy for wideband tracking. Science China Information Sciences, 2019, 62, 1.	4.3	2
101	Fast overlapped subaperture algorithm for high-squint spotlight SAR imaging. International Journal of Remote Sensing, 2020, 41, 6051-6070.	2.9	2
102	Partial TMR method for onâ€orbit processors based on PageRank algorithm. Electronics Letters, 2019, 55, 124-126.	1.0	2
103	Performance analysis of optimal and reduced-dimension STAP for airborne phased array radar. , 2010, , .		1
104	Combined analysis of time&amp;frequency synchronization error for BiSAR. , 2011, , .		1
105	Application of digital parallel technology in the GNSS signal generator. , 2011, , .		1
106	An improved constant coefficient multiplication algorithm based on cascaded adder graph. Science China Information Sciences, 2013, 56, 1-7.	4.3	1
107	Improved Goldschmidt division method using mapping of divisors. Science China Information Sciences, 2013, 56, 1-6.	4.3	1
108	Improved orthogonal projection adaptive beamforming by using reconstructed interference covariance matrix. , 2014, , .		1

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109	A hybrid adaptive method for interferometric phase filtering based on the mode and median filter. , 2015, , .		1
110	A novel constrained monopulse technique for adaptive phased arrays in the presence of interference. , 2016, , .		1
111	Multi-waveform parameter estimation of external illuminator for passive bistatic radar. , 2016, , .		1
112	Correction to "Geometrical Structure Classification of Target HRRP Scattering Centers Based on Dual Polarimetric $H / alpha$ Features". IEEE Access, 2019, 7, 152042-152042.	4.2	1
113	Earth-Based Repeat-Pass SAR Interferometry of the Moon: Spatial–Temporal Baseline Analysis. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-14.	6.3	1
114	Design and implementation of HPRF stepped frequency radar echo simulator. , 2009, , .		0
115	Deriving bistatic chirp scaling algorithm based on the signal model. , 2010, , .		0
116	Improvement of salient-region detection using an integrated bottom-up model. , 2010, , .		0
117	New hybrid STAP algorithm of D^3 and STMB for discrete interference suppression in nonhomogeneous clutter. , 2010, , .		0
118	A high performance SoPC based digital receiver for monopulse tracking radar. , 2012, , .		0
119	Short pulse groups searching based on isomorphic sequences. Electronics Letters, 2014, 50, 1875-1877.	1.0	0
120	Weighted K-means clustering subarray design method for large planar monopulse antenna array. , 2015, , .		0
121	Accurate analysis method of background ionosphere effects on Geosynchronous SAR focusing. , 2015, , .		0
122	Improved adaptive clutter suppression based on multi-look processing in heterogeneous background. , 2016, , .		0
123	Moving target indication via forward looking array and cross track interferometry. , 2016, , .		0
124	Radar manuvering target detection with micro-motion compsensation based on 3DS-RFT. , 2016, , .		0
125	A Modified Azimuth Weighting Method in a Two-Step Process Approach for Sliding Spotlight Data Processing. Sensors, 2017, 17, 220.	3.8	0