Teng Long

List of Publications by Citations

100 papers	801 citations	16 h-index	23 g-index
126 ext. papers	1,070 ext. citations	3.4 avg, IF	4.36 L-index

#	Paper	IF	Citations
100	An Improved Frequency Domain Focusing Method in Geosynchronous SAR. *IEEE Transactions on Geoscience and Remote Sensing*, **2014**, 52, 5514-5528	8.1	54
99	A New Method of Zero-Doppler Centroid Control in GEO SAR. *IEEE Geoscience and Remote Sensing Letters*, **2011**, 8, 512-516	4.1	49
98	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	8.1	43
97	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	4.7	32
96	Advanced technology of high-resolution radar: target detection, tracking, imaging, and recognition. *Science China Information Sciences*, **2019**, 62, 1	3.4	31
95	Mainlobe Interference Suppression Based on Eigen-Projection Processing and Covariance Matrix Reconstruction. *IEEE Antennas and Wireless Propagation Letters*, **2014**, 13, 1369-1372	3.8	29
94	Micro-Doppler measurement of insect wing-beat frequencies with W-band coherent radar. *Scientific Reports*, **2017**, 7, 1396	4.9	28
93	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	1.4	22
92	Fast STAP Method Based on PAST with Sparse Constraint for Airborne Phased Array Radar. *IEEE Transactions on Signal Processing*, **2016**, 64, 4550-4561	4.8	22
91	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	4.7	18
90	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	8.1	18
89	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	4.7	18
88	A Novel Range Grating Lobe Suppression Method Based on the Stepped-Frequency SAR Image. *IEEE Geoscience and Remote Sensing Letters*, **2015**, 12, 606-610	4.1	17
87	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	4.9	17
86	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	7.5	17
85	Impacts of Temporal-Spatial Variant Background Ionosphere on Repeat-Track GEO D-InSAR System. *Remote Sensing*, **2016**, 8, 916	5	17
84	Focus-before-detection radar signal processing: part iiRecent developments. *IEEE Aerospace and Electronic Systems Magazine*, **2018**, 33, 34-49	2.4	16

83	Efficient ISAR Phase Autofocus Based on Eigenvalue Decomposition. *IEEE Geoscience and Remote Sensing Letters*, **2017**, 14, 2195-2199	4.1	15
82	An Optimal Resolution Steering Method for Geosynchronous Orbit SAR. *IEEE Geoscience and Remote Sensing Letters*, **2014**, 11, 1732-1736	4.1	14
81	An improved motion compensation method for high resolution UAV SAR imaging. *Science China Information Sciences*, **2014**, 57, 1-13	3.4	14
80	SAR Parametric Super-Resolution Image Reconstruction Methods Based on ADMM and Deep Neural Network. *IEEE Transactions on Geoscience and Remote Sensing*, **2021**, 1-16	8.1	14
79	Offline Performance Prediction of PDAF With Bayesian Detection for Tracking in Clutter. *IEEE Transactions on Signal Processing*, **2013**, 61, 770-781	4.8	12
78	A new complex Duffing oscillator used in complex signal detection. *Science Bulletin*, **2012**, 57, 2185-2191		12
77	Robust Wideband Adaptive Beamforming With Null Broadening and Constant Beamwidth. *IEEE Transactions on Antennas and Propagation*, **2019**, 67, 5380-5389	4.9	11
76	Improved Probabilistic Multi-Hypothesis Tracker for Multiple Target Tracking With Switching Attribute States. *IEEE Transactions on Signal Processing*, **2011**, 59, 5721-5733	4.8	11
75	Space-surface BiSAR based on GNSS signal: Synchronization, imaging and experiment result **2014**,		8
74	Geo-location error analysis in geosynchronous SAR. *Electronics Letters*, **2014**, 50, 1741-1743	1.1	8
73	Improved Double Threshold Detector for Spatially Distributed Target. *IEICE Transactions on Communications*, **2012**, E95.B, 1475-1478	0.5	8
72	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	1.4	8
71	Modeling and Quantitative Analysis of Tropospheric Impact on Inclined Geosynchronous SAR Imaging. *Remote Sensing*, **2019**, 11, 803	5	7
70	Adaptive null broadening method in wideband beamforming for rapidly moving interference suppression. *Electronics Letters*, **2018**, 54, 1003-1005	1.1	7
69	D3-STMB Hybrid STAP Algorithm for Discrete Interference Suppression in Nonhomogeneous Clutter. *IEICE Transactions on Communications*, **2011**, E94-B, 1114-1117	0.5	7
68	Road-Aided Ground Slowly Moving Target 2D Motion Estimation for Single-Channel Synthetic Aperture Radar. *Sensors*, **2016**, 16,	3.8	7
67	Computerized ionospheric tomography based on geosynchronous SAR. *Journal of Geophysical Research: Space Physics*, **2017**, 122, 2686-2705	2.6	6
66	Design of validation experiment for analysing impacts of background ionosphere on geosynchronous SAR using GPS signals. *Electronics Letters*, **2015**, 51, 1604-1606	1.1	6

65	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	4.7	6
64	Robust and fast iterative sparse recovery method for space-time adaptive processing. *Science China Information Sciences*, **2016**, 59, 1	3.4	6
63	Geometrical Structure Classification of Target HRRP Scattering Centers Based on Dual Polarimetric $H/alpha$ Features. *IEEE Access*, **2019**, 7, 141679-141688	3.5	6
62	High accuracy unambiguous angle estimation using multi-scale combination in distributed coherent aperture radar. *IET Radar, Sonar and Navigation*, **2017**, 11, 1090-1098	1.4	6
61	Polarimetric HRRP Recognition Based on ConvLSTM With Self-Attention. *IEEE Sensors Journal*, **2021**, 21, 7884-7898	4	6
60	Channel Error Effect Analysis for Reconstruction Algorithm in Dual-Channel SAR Imaging. *IEEE Geoscience and Remote Sensing Letters*, **2020**, 17, 1563-1567	4.1	5
59	Sub-Array Weighting UN-MUSIC: A Unified Framework and Optimal Weighting Strategy. *IEEE Signal Processing Letters*, **2014**, 21, 871-874	3.2	5
58	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	1.4	5
57	GNSS Carrier Phase Tracking With Discrete Wavelet Transform Filtering Under Ionospheric Scintillation. *IEEE Communications Letters*, **2017**, 21, 394-397	3.8	5
56	HPRF pulse Doppler stepped frequency radar. *Science in China Series F: Information Sciences*, **2009**, 52, 883-893		5
55	Numerical Analysis of Orbital Perturbation Effects on Inclined Geosynchronous SAR. *Sensors*, **2016**, 16,	3.8	5
54	SAR Ground Moving Target Indication Based on Relative Residue of DPCA Processing. *Sensors*, **2016**, 16,	3.8	5
53	Adjacent co-prime array for DOA estimation of real-valued sources **2017**,		4
52	An effective ISAR autofocus algorithm based on single eigenvector **2016**,		4
51	Adaptive Correlation Space Adjusted Open-Loop Tracking Approach for Vehicle Positioning with Global Navigation Satellite System in Urban Areas. *Sensors*, **2015**, 15, 21581-612	3.8	4
50	MIMO-SAR waveforms separation based on virtual polarization filter. *Science China Information Sciences*, **2015**, 58, 1-12	3.4	4
49	Wideband distributed coherent aperture radar **2014**,		4
48	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	1.1	4

47	Effect of geometry of planar antenna arrays on Cramer-Rao Bounds for DOA estimation **2010**,		4
46	Near-Field Phase Cross Correlation Focusing Imaging and Parameter Estimation for Penetrating Radar. *IEEE Transactions on Geoscience and Remote Sensing*, **2020**, 58, 598-611	8.1	4
45	Parametric Image Reconstruction for Edge Recovery From Synthetic Aperture Radar Echoes. *IEEE Transactions on Geoscience and Remote Sensing*, **2021**, 59, 2155-2173	8.1	4
44	Insect Multifrequency Polarimetric Radar Cross Section: Experimental Results and Analysis. *IEEE Transactions on Geoscience and Remote Sensing*, **2021**, 59, 6573-6585	8.1	4
43	SAR ground moving targets relocation via co-prime arrays **2017**,		3
42	Road-Aided Doppler Ambiguity Resolver for SAR Ground Moving Target in the Image Domain. *IEEE Geoscience and Remote Sensing Letters*, **2016**, 13, 1552-1556	4.1	3
41	Improved eigenanalysis canceler based on data-independent clutter subspace estimation for space-time adaptive processing. *Science China Information Sciences*, **2013**, 56, 1-10	3.4	3
40	A Novel Monopulse Technique for Adaptive Phased Array Radar. *Sensors*, **2017**, 17,	3.8	3
39	Underwater Acoustic Matched Field Imaging Based on Compressed Sensing. *Sensors*, **2015**, 15, 25577-91	3.8	3
38	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	1.4	3
37	Phase difference estimation based on orthogonal signals for distributed coherent aperture radar **2013**,		3
36	Polarimetric HRRP recognition based on feature-guided Transformer model. *Electronics Letters*, **2021**, 57, 705-707	1.1	3
35	Target Tracking Using SePDAF under Ambiguous Angles for Distributed Array Radar. *Sensors*, **2016**, 16,	3.8	3
34	High Accuracy Acquisition of 3-D Flight Trajectory of Individual Insect Based on Phase Measurement. *Sensors*, **2016**, 16,	3.8	3
33	A radar waveform bandwidth selection strategy for wideband tracking. *Science China Information Sciences*, **2019**, 62, 1	3.4	2
32	Height resolution analysis in geosynchronous SAR. *Electronics Letters*, **2015**, 51, 579-581	1.1	2
31	A Novel Subarray Digital Modulation Technique for Wideband Phased Array Radar. *IEEE Transactions on Instrumentation and Measurement*, **2020**, 69, 7365-7376	5.2	2
30	Estimation of source number based on power-inversion and adaptive threshold in colored noise **2016**,		2

29	Pulse-order recursive method for inverse covariance matrix computation applied to space-time adaptive processing. *Science China Information Sciences*, **2013**, 56, 1-12	3.4	2
28	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	0.5	2
27	GMTI for Squint Looking XTI-SAR with Rotatable Forward-Looking Array. *Sensors*, **2016**, 16,	3.8	2
26	A Robust Range Grating Lobe Suppression Method Based on Image Contrast for Stepped-Frequency SAR. *Sensors*, **2016**, 16,	3.8	2
25	Underwater sonar target imaging via compressed sensing with M sequences. *Science China Information Sciences*, **2016**, 59, 1	3.4	2
24	Robust Wideband Adaptive Beamforming Based on Focusing Transformation and Steering Vector Compensation. *IEEE Antennas and Wireless Propagation Letters*, **2020**, 19, 2280-2284	3.8	1
23	Fast overlapped subaperture algorithm for high-squint spotlight SAR imaging. *International Journal of Remote Sensing*, **2020**, 41, 6051-6070	3.1	1
22	Parameter resolutions of uniformly accelerated targets based on hybrid integration **2016**,		1
21	An improved IMM algorithm based on maneuvering-adaptive model set **2016**,		1
20	An extended dimension music method for doa estimation of multiple real-valued sources **2016**,		1
19	Multi-waveform parameter estimation of external illuminator for passive bistatic radar **2016**,		1
18	An improved constant coefficient multiplication algorithm based on cascaded adder graph. *Science China Information Sciences*, **2013**, 56, 1-7	3.4	1
17	Improved Goldschmidt division method using mapping of divisors. *Science China Information Sciences*, **2013**, 56, 1-6	3.4	1
16	An accurate SISAR imaging method of ground moving target in forward scatter radar. *Science China Information Sciences*, **2012**, 55, 2269-2280	3.4	1
15	Performance analysis of optimal and reduced-dimension STAP for airborne phased array radar **2010** ,		1
14	An improved algorithm of velocity measurement using burst error function **2010**,		1
13	Partial TMR method for on-orbit processors based on PageRank algorithm. *Electronics Letters*, **2019** , 55, 124-126	1.1	1
12	Deep forest for radar HRRP recognition. *Journal of Engineering*, **2019**, 2019, 8018-8021	0.7	1

List of Publications

11	Practical Investigation of a MIMO radar system capabilities for small drones detection. *IET Radar, Sonar and Navigation*, **2021**, 15, 760-774	1.4	1
10	Low-slow-small target detection using stepped-frequency signals in a strong folded clutter environment. *IET Radar, Sonar and Navigation*, **2021**, 15, 1030-1044	1.4	1
9	Identification-While-Scanning of a Multi-Aircraft Formation Based on Sparse Recovery for Narrowband Radar. *Sensors*, **2016**, 16,	3.8	1
8	Along-track velocity estimation for SAR moving target in complex image domain **2016**,		1
7	Phase unwrapping method based on multi-frequency InSAR in highly sloped terrain. *Electronics Letters*, **2016**, 52, 1058-1059	1.1	1
6	Correction to Geometrical Structure Classification of Target HRRP Scattering Centers Based on Dual Polarimetric $H / alpha$ Features *IEEE Access*, **2019**, 7, 152042-152042	3.5	1
5	Blocked Azimuth Spectrum Reconstruction Algorithm for Onboard Real-Time Dual-Channel SAR Imaging. *IEEE Geoscience and Remote Sensing Letters*, **2021**, 1-5	4.1	1
4	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**, 1-1	4	1
3	Implementation of CS coefficient calculation based on dual-operator engines in multimode spaceborne SAR imaging systems. *Electronics Letters*, **2018**, 54, 163-165	1.1	1
2	Earth-Based Repeat-Pass SAR Interferometry of the Moon: Spatial-Temporal Baseline Analysis. *IEEE Transactions on Geoscience and Remote Sensing*, **2022**, 1-1	8.1	0
1	Short pulse groups searching based on isomorphic sequences. *Electronics Letters*, **2014**, 50, 1875-1877	1.1	