

Tao Zeng

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119
papers

1,404
citations

21
h-index

31
g-index

144
ext. papers

1,845
ext. citations

4.9
avg, IF

4.76
L-index

#	Paper	IF	Citations
119	. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , 2005 , 41, 461-474	3.7	104
118	The Accurate Focusing and Resolution Analysis Method in Geosynchronous SAR. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2011 , 49, 3548-3563	8.1	94
117	Toward a generalized Bienenstock-Cooper-Munro rule for spatiotemporal learning via triplet-STDP in memristive devices. <i>Nature Communications</i> , 2020 , 11, 1510	17.4	64
116	An Improved Frequency Domain Focusing Method in Geosynchronous SAR. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2014 , 52, 5514-5528	8.1	54
115	A New Method of Zero-Doppler Centroid Control in GEO SAR. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2011 , 8, 512-516	4.1	49
114	Subaperture Approach Based on Azimuth-Dependent Range Cell Migration Correction and Azimuth Focusing Parameter Equalization for Maneuvering High-Squint-Mode SAR. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2015 , 53, 6718-6734	8.1	43
113	Fate of Fe and Cd upon microbial reduction of Cd-loaded polyferric flocs by <i>Shewanella oneidensis</i> MR-1. <i>Chemosphere</i> , 2016 , 144, 2065-72	8.4	41
112	Effect of intensifying high-temperature ripening on proteolysis, lipolysis and flavor of Jinhua ham. <i>Journal of the Science of Food and Agriculture</i> , 2009 , 89, 834-842	4.3	36
111	Transferable and Flexible Artificial Memristive Synapse Based on WOx Schottky Junction on Arbitrary Substrates. <i>Advanced Electronic Materials</i> , 2018 , 4, 1800373	6.4	36
110	Radar Parameter Design for Geosynchronous SAR in Squint Mode and Elliptical Orbit. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2016 , 9, 2720-2732	4.7	35
109	A Modified Frequency Domain Algorithm Based on Optimal Azimuth Quadratic Factor Compensation for Geosynchronous SAR Imaging. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2016 , 9, 1119-1131	4.7	32
108	Multiangle BSAR Imaging Based on BeiDou-2 Navigation Satellite System: Experiments and Preliminary Results. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2015 , 53, 5760-5773	8.1	31
107	Range Migration Compensation and Doppler Ambiguity Resolution by Keystone Transform 2006 ,		30
106	Mainlobe Interference Suppression Based on Eigen-Projection Processing and Covariance Matrix Reconstruction. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2014 , 13, 1369-1372	3.8	29
105	Micro-Doppler measurement of insect wing-beat frequencies with W-band coherent radar. <i>Scientific Reports</i> , 2017 , 7, 1396	4.9	28
104	Design and Imaging of Ground-Based Multiple-Input Multiple-Output Synthetic Aperture Radar (MIMO SAR) with Non-Collinear Arrays. <i>Sensors</i> , 2017 , 17,	3.8	27
103	Applying Auxiliary Array to Suppress Mainlobe Interference for Ground-Based Radar. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2013 , 12, 433-436	3.8	25

102	A 2-D Nonlinear Chirp Scaling Algorithm for High Squint GEO SAR Imaging Based on Optimal Azimuth Polynomial Compensation. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2017 , 10, 5724-5735	4.7	22
101	Fast STAP Method Based on PAST with Sparse Constraint for Airborne Phased Array Radar. <i>IEEE Transactions on Signal Processing</i> , 2016 , 64, 4550-4561	4.8	22
100	A Ship ISAR Imaging Algorithm Based on Generalized Radon-Fourier Transform With Low SNR. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2019 , 57, 6385-6396	8.1	21
99	Improved Motion Compensation Approach for Squint Airborne SAR. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2013 , 51, 4378-4387	8.1	21
98	New analytical approach to detection threshold of a dynamic programming track-before-detect algorithm. <i>IET Radar, Sonar and Navigation</i> , 2013 , 7, 773-779	1.4	20
97	Motion and Doppler Characteristics Analysis Based on Circular Motion Model in Geosynchronous SAR. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2016 , 9, 1132-1142	4.7	18
96	Extended NLCS Algorithm of BiSAR Systems With a Squinted Transmitter and a Fixed Receiver: Theory and Experimental Confirmation. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2013 , 51, 5019-5030	8.1	18
95	A Novel Range Grating Lobe Suppression Method Based on the Stepped-Frequency SAR Image. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2015 , 12, 606-610	4.1	17
94	Optimization of Subarray Partition for Large Planar Phased Array Radar Based on Weighted K-Means Clustering Method. <i>IEEE Journal on Selected Topics in Signal Processing</i> , 2015 , 9, 1460-1468	7.5	17
93	Photoreduced nanocomposites of graphene oxide/N-doped carbon dots toward all-carbon memristive synapses. <i>NPG Asia Materials</i> , 2020 , 12,	10.3	17
92	Plasmonic Optoelectronic Memristor Enabling Fully Light-Modulated Synaptic Plasticity for Neuromorphic Vision.. <i>Advanced Science</i> , 2021 , e2104632	13.6	16
91	An Optimal Resolution Steering Method for Geosynchronous Orbit SAR. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2014 , 11, 1732-1736	4.1	14
90	Modification of slant range model and imaging processing in GEO SAR 2010 ,		14
89	. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2021 , 59, 6751-6770	8.1	14
88	SAR Parametric Super-Resolution Image Reconstruction Methods Based on ADMM and Deep Neural Network. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2021 , 1-16	8.1	14
87	Improved Stepped-Frequency SAR Imaging Algorithm With the Range Spectral-Length Extension Strategy. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2012 , 5, 1483-1494	4.7	13
86	Entomological Radar Overview: System and Signal Processing. <i>IEEE Aerospace and Electronic Systems Magazine</i> , 2020 , 35, 20-32	2.4	12
85	Offline Performance Prediction of PDAF With Bayesian Detection for Tracking in Clutter. <i>IEEE Transactions on Signal Processing</i> , 2013 , 61, 770-781	4.8	12

84	Improved orthogonal projection approach utilising interference covariance matrix reconstruction for adaptive beamforming. <i>Electronics Letters</i> , 2014 , 50, 1446-1447	1.1	12
83	A Novel Rapid SAR Simulator Based on Equivalent Scatterers for Three-Dimensional Forest Canopies. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2014 , 52, 5243-5255	8.1	12
82	Two-Dimensional Deformation Measurement Based on Multiple Aperture Interferometry in GB-SAR. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2017 , 14, 208-212	4.1	11
81	Ground-Based SAR Wide View Angle Full-Field Imaging Algorithm Based on Keystone Formatting. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2016 , 9, 2160-2170	4.7	11
80	An Improved PolSAR Image Speckle Reduction Algorithm Based on Structural Judgment and Hybrid Four-Component Polarimetric Decomposition. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2013 , 51, 4438-4449	8.1	11
79	Improved Probabilistic Multi-Hypothesis Tracker for Multiple Target Tracking With Switching Attribute States. <i>IEEE Transactions on Signal Processing</i> , 2011 , 59, 5721-5733	4.8	11
78	Regional tropical deforestation detection using ALOS PALSAR 50m mosaics in Riau province, Indonesia. <i>Electronics Letters</i> , 2014 , 50, 547-549	1.1	10
77	Azimuth Location Deambiguity for SAR Ground Moving Targets via Coprime Adjacent Arrays. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2018 , 11, 551-561	4.7	9
76	Silent Synapse Activation by Plasma-Induced Oxygen Vacancies in TiO ₂ Nanowire-Based Memristor. <i>Advanced Electronic Materials</i> , 2020 , 6, 2000536	6.4	9
75	Nitrogen-induced ultralow power switching in flexible ZnO-based memristor for artificial synaptic learning. <i>Applied Physics Letters</i> , 2021 , 118, 103502	3.4	9
74	. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , 2020 , 56, 748-760	3.7	9
73	Design and Processing of a Novel Chaos-Based Stepped Frequency Synthesized Wideband Radar Signal. <i>Sensors</i> , 2018 , 18,	3.8	9
72	Space-surface BiSAR based on GNSS signal: Synchronization, imaging and experiment result 2014 ,		8
71	Geo-location error analysis in geosynchronous SAR. <i>Electronics Letters</i> , 2014 , 50, 1741-1743	1.1	8
70	Accurate range profile alignment method based on minimum entropy for inverse synthetic aperture radar image formation. <i>IET Radar, Sonar and Navigation</i> , 2016 , 10, 663-671	1.4	8
69	GB-InSAR-Based DEM Generation Method and Precision Analysis. <i>Remote Sensing</i> , 2019 , 11, 997	5	7
68	Passive Bistatic SAR with GNSS Transmitters 339-361		7
67	A Range Grating Lobes Suppression Method for Stepped-Frequency SAR Imagery. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2016 , 9, 5677-5687	4.7	6

66	Improved MDL method for estimation of source number at subarray level. <i>Electronics Letters</i> , 2016 , 52, 85-86	1.1	6
65	Robust and fast iterative sparse recovery method for space-time adaptive processing. <i>Science China Information Sciences</i> , 2016 , 59, 1	3.4	6
64	Robust time synchronization method based on step frequency signal for wideband distributed coherent aperture radar 2013 ,		6
63	High accuracy unambiguous angle estimation using multi-scale combination in distributed coherent aperture radar. <i>IET Radar, Sonar and Navigation</i> , 2017 , 11, 1090-1098	1.4	6
62	Physical modeling and spectrum spread analysis of surface clutter in forward scattering radar. <i>Science China Information Sciences</i> , 2010 , 53, 2310-2322	3.4	6
61	The possibility of isolated target 3-D position estimation and optimal receiver position determination in SS-BSAR. <i>Science in China Series F: Information Sciences</i> , 2008 , 51, 1372-1383		6
60	An Improved Frequency-Domain Image Formation Algorithm for Mini-UAV-Based Forward-Looking Spotlight BiSAR Systems. <i>Remote Sensing</i> , 2020 , 12, 2680	5	6
59	Photo-tunable organic resistive random access memory based on PVP/N-doped carbon dot nanocomposites for encrypted image storage. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 14789-14795	7.1	6
58	Zeolite-Based Memristive Synapse with Ultralow Sub-10-fJ Energy Consumption for Neuromorphic Computation. <i>Small</i> , 2021 , 17, e2006662	11	6
57	Improved Reconstruction of Radio Holographic Signal for Forward Scatter Radar Imaging. <i>Sensors</i> , 2016 , 16,	3.8	6
56	SAR Doppler Ambiguity Resolver Based on Entropy Minimization. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2013 , 51, 4405-4416	8.1	5
55	Power Transmission Tower Detection Based on Polar Coordinate Semivariogram in High-Resolution SAR Image. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2017 , 14, 2200-2204	4.1	5
54	Multi-angle fusion of SS-BiSAR images using Compass-2/Beidou-2 Satellites as opportunity illuminators 2014 ,		5
53	Estimation of Aircraft Altitude Based on Squint Mode SAR Data. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2015 , 12, 135-139	4.1	4
52	Sliding Spotlight Mode Imaging with GF-3 Spaceborne SAR Sensor. <i>Sensors</i> , 2017 , 18,	3.8	4
51	Statistic characteristic analysis of forward scattering surface clutter in bistatic radar. <i>Science China Information Sciences</i> , 2010 , 53, 2675-2686	3.4	4
50	FMCW Radar-Based Hand Gesture Recognition using Spatiotemporal Deformable and Context-Aware Convolutional 5D Feature Representation. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2021 , 1-1	8.1	4
49	Novel MIMO-SAR system applied for high-speed and high-accuracy deformation measurement. <i>Journal of Engineering</i> , 2019 , 2019, 6598-6602	0.7	4

48	Near-Field Phase Cross Correlation Focusing Imaging and Parameter Estimation for Penetrating Radar. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2020 , 58, 598-611	8.1	4
47	Parametric Image Reconstruction for Edge Recovery From Synthetic Aperture Radar Echoes. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2021 , 59, 2155-2173	8.1	4
46	An Autofocus Approach for UAV-Based Ultrawideband Ultrawidebeam SAR Data With Frequency-Dependent and 2-D Space-Variant Motion Errors. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2021 , 1-18	8.1	4
45	A Novel Motion Compensation Algorithm Based on Motion Sensitivity Analysis for Mini-UAV-Based BiSAR System. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2021 , 1-13	8.1	4
44	Flexible and transparent memristive synapse based on polyvinylpyrrolidone/N-doped carbon quantum dot nanocomposites for neuromorphic computing. <i>Nanoscale Advances</i> , 2021 , 3, 2623-2631	5.1	4
43	Flexible Artificial Synapses: Transferable and Flexible Artificial Memristive Synapse Based on WO _x Schottky Junction on Arbitrary Substrates (Adv. Electron. Mater. 12/2018). <i>Advanced Electronic Materials</i> , 2018 , 4, 1870056	6.4	4
42	A novel DEM reconstruction strategy based on multi-frequency InSAR in highly sloped terrain. <i>Science China Information Sciences</i> , 2017 , 60, 1	3.4	3
41	. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2019 , 16, 907-911	4.1	3
40	Improved spectrum reconstruction technique based on chirp rate modulation in stepped-frequency SAR. <i>Science China Information Sciences</i> , 2015 , 58, 1-11	3.4	3
39	Phase difference estimation based on orthogonal signals for distributed coherent aperture radar 2013 ,		3
38	Target Tracking Using SePDAF under Ambiguous Angles for Distributed Array Radar. <i>Sensors</i> , 2016 , 16,	3.8	3
37	Improved F-K Migration Based on Interpolation Method for GPR Imaging 2019 ,		3
36	Linear-Array-MIMO SAR Tomography: An Autofocus Approach for Time-Variant and 3-D Space-Variant Motion Errors. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2021 , 1-17	8.1	3
35	Space-Surface Bistatic SAR215-246		3
34	Height resolution analysis in geosynchronous SAR. <i>Electronics Letters</i> , 2015 , 51, 579-581	1.1	2
33	Improved weak space object tracking assisted by strong target. <i>IET Radar, Sonar and Navigation</i> , 2015 , 9, 751-757	1.4	2
32	Tracking with nonlinear measurement model by coordinate rotation transformation. <i>Science China Technological Sciences</i> , 2014 , 57, 2396-2406	3.5	2
31	Impacts of topography for forest height estimation 2012 ,		2

30	. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , 2021 , 1-1	3.7	2
29	Extended Multiple Aperture Mapdrift-Based Doppler Parameter Estimation and Compensation for Very-High-Squint Airborne SAR Imaging. <i>Sensors</i> , 2019 , 19,	3.8	1
28	Fast overlapped subaperture algorithm for high-squint spotlight SAR imaging. <i>International Journal of Remote Sensing</i> , 2020 , 41, 6051-6070	3.1	1
27	Parametric Synthetic Aperture Radar Image Recovery for Multiple Linear Structures: An Image Domain Approach. <i>Remote Sensing</i> , 2020 , 12, 1996	5	1
26	Algorithms for GEO SAR Imaging Processing 2018 , 77-128		1
25	Grating lobes suppression method for stepped frequency GB-SAR system. <i>Journal of Systems Engineering and Electronics</i> , 2014 , 25, 987-995	1.3	1
24	Multi-angle BiSAR images enhancement and scattering characteristics analysis 2014 ,		1
23	An improved wide swath imaging algorithm based on series reversion in GEO SAR 2012 ,		1
22	Fast processing method of SAR raw data simulation for large-scale forest stand application 2011 ,		1
21	The impact of residual motion deviations on forest height inversion by SAR remote sensing 2012 ,		1
20	Mainlobe interference suppression based on large aperture auxiliary array 2012 ,		1
19	Preliminary Result of MIMO SAR Tomography via 3D FFBP 2020 ,		1
18	Phase unwrapping method based on multi-frequency InSAR in highly sloped terrain. <i>Electronics Letters</i> , 2016 , 52, 1058-1059	1.1	1
17	Interpolation Free Wide Nonlinear Chirp Scaling Algorithm for Spaceborne Stripmap Range Sweep SAR Imaging. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2020 , 17, 621-625	4.1	1
16	Time-Varying Nadir Echo Suppression for Spaceborne Stripmap Range Sweep Synthetic Aperture Radar via Waveform Diversity. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2021 , 18, 826-830	4.1	1
15	Analytic Constraint Between Minimum Number of Acquisitions and SNR in SAR Tomography. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2021 , 1-5	4.1	1
14	Blocked Azimuth Spectrum Reconstruction Algorithm for Onboard Real-Time Dual-Channel SAR Imaging. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2021 , 1-5	4.1	1
13	Calibration Method of Array Errors for Wideband MIMO Imaging Radar Based on Multiple Prominent Targets. <i>Remote Sensing</i> , 2021 , 13, 2997	5	1

12	An Autofocus Back Projection Algorithm for GEO SAR based on Minimum Entropy. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2022 , 1-1	8.1	1
11	Tomographic SAR imaging with large elevation aperture: a P-band small UAV demonstration. <i>Science China Information Sciences</i> , 2022 , 65, 1	3.4	1
10	Photocatalysis-Induced Nanopores toward Highly Reliable Organic Electrochemical Metallization Memory. <i>Advanced Electronic Materials</i> , 2200246	6.4	1
9	A new Doppler centroid estimation method for high-squint curved-trajectory airborne synthetic aperture radar. <i>International Journal of Remote Sensing</i> , 2019 , 1-23	3.1	0
8	Multi-Layer Overlapped Subaperture Algorithm for Extremely-High-Squint High-Resolution Wide-Swath SAR Imaging with Continuously Time-Varying Radar Parameters. <i>Remote Sensing</i> , 2022 , 14, 365	5	0
7	Spatially Variant Sidelobe Suppression for Linear Array MIMO SAR Three-Dimensional Imaging. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2022 , 1-1	8.1	0
6	A High-Frequency Motion Error Compensation Algorithm based on Multiple Errors Separation in BiSAR onboard Mini-UAVs. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2022 , 1-1	8.1	0
5	Parametric reconstruction of arc-shaped structures in synthetic aperture radar imaging. <i>International Journal of Remote Sensing</i> , 2021 , 42, 7143-7165	3.1	0
4	Earth-Based Repeat-Pass SAR Interferometry of the Moon: Spatial-Temporal Baseline Analysis. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2022 , 1-1	8.1	0
3	Refined Multi-Frequency Interferometric SAR Phase Unwrapping for Extremely Steep Terrain. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2022 , 1-1	8.1	
2	Memristive Neural Networks: Zeolite-Based Memristive Synapse with Ultralow Sub-10-fJ Energy Consumption for Neuromorphic Computation (Small 13/2021). <i>Small</i> , 2021 , 17, 2170057	11	
1	Design and preliminary verification of L-band ground-based SAR system for the vegetated area. <i>Journal of Engineering</i> , 2019 , 2019, 5707-5711	0.7	