

Tao Zeng

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/3599227/tao-zeng-publications-by-year.pdf>

Version: 2024-04-23

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	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	0
118	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
117	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
116	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
115	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
114	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
113	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
112	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
111	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
110	Zeolite-Based Memristive Synapse with Ultralow Sub-10-fJ Energy Consumption for Neuromorphic Computation. <i>Small</i> , 2021 , 17, e2006662	11	6
109	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	
108	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
107	. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2021 , 59, 6751-6770	8.1	14
106	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
105	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
104	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
103	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

102	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
101	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
100	. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , 2021 , 1-1	3.7	2
99	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
98	Calibration Method of Array Errors for Wideband MIMO Imaging Radar Based on Multiple Prominent Targets. <i>Remote Sensing</i> , 2021 , 13, 2997	5	1
97	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
96	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
95	Plasmonic Optoelectronic Memristor Enabling Fully Light-Modulated Synaptic Plasticity for Neuromorphic Vision.. <i>Advanced Science</i> , 2021 , e2104632	13.6	16
94	Fast overlapped subaperture algorithm for high-squint spotlight SAR imaging. <i>International Journal of Remote Sensing</i> , 2020 , 41, 6051-6070	3.1	1
93	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
92	Parametric Synthetic Aperture Radar Image Recovery for Multiple Linear Structures: An Image Domain Approach. <i>Remote Sensing</i> , 2020 , 12, 1996	5	1
91	Entomological Radar Overview: System and Signal Processing. <i>IEEE Aerospace and Electronic Systems Magazine</i> , 2020 , 35, 20-32	2.4	12
90	Preliminary Result of MIMO SAR Tomography via 3D FFBP 2020 ,		1
89	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
88	Photoreduced nanocomposites of graphene oxide/N-doped carbon dots toward all-carbon memristive synapses. <i>NPG Asia Materials</i> , 2020 , 12,	10.3	17
87	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
86	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
85	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

84	. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , 2020 , 56, 748-760	3.7	9
83	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
82	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
81	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
80	GB-InSAR-Based DEM Generation Method and Precision Analysis. <i>Remote Sensing</i> , 2019 , 11, 997	5	7
79	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
78	. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2019 , 16, 907-911	4.1	3
77	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
76	Improved F-K Migration Based on Interpolation Method for GPR Imaging 2019 ,		3
75	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	
74	Algorithms for GEO SAR Imaging Processing 2018 , 77-128		1
73	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
72	Flexible Artificial Synapses: Transferable and Flexible Artificial Memristive Synapse Based on WOx Schottky Junction on Arbitrary Substrates (Adv. Electron. Mater. 12/2018). <i>Advanced Electronic Materials</i> , 2018 , 4, 1870056	6.4	4
71	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
70	Design and Processing of a Novel Chaos-Based Stepped Frequency Synthesized Wideband Radar Signal. <i>Sensors</i> , 2018 , 18,	3.8	9
69	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
68	Micro-Doppler measurement of insect wing-beat frequencies with W-band coherent radar. <i>Scientific Reports</i> , 2017 , 7, 1396	4.9	28
67	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

66	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
65	Sliding Spotlight Mode Imaging with GF-3 Spaceborne SAR Sensor. <i>Sensors</i> , 2017 , 18,	3.8	4
64	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
63	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
62	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
61	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
60	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
59	Improved MDL method for estimation of source number at subarray level. <i>Electronics Letters</i> , 2016 , 52, 85-86	1.1	6
58	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
57	Robust and fast iterative sparse recovery method for space-time adaptive processing. <i>Science China Information Sciences</i> , 2016 , 59, 1	3.4	6
56	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
55	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
54	Improved Reconstruction of Radio Holographic Signal for Forward Scatter Radar Imaging. <i>Sensors</i> , 2016 , 16,	3.8	6
53	Target Tracking Using SePDAF under Ambiguous Angles for Distributed Array Radar. <i>Sensors</i> , 2016 , 16,	3.8	3
52	Phase unwrapping method based on multi-frequency InSAR in highly sloped terrain. <i>Electronics Letters</i> , 2016 , 52, 1058-1059	1.1	1
51	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
50	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
49	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

48	Height resolution analysis in geosynchronous SAR. <i>Electronics Letters</i> , 2015 , 51, 579-581	1.1	2
47	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
46	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
45	Improved weak space object tracking assisted by strong target. <i>IET Radar, Sonar and Navigation</i> , 2015 , 9, 751-757	1.4	2
44	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
43	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
42	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
41	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
40	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
39	Space-surface BiSAR based on GNSS signal: Synchronization, imaging and experiment result 2014 ,		8
38	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
37	An Optimal Resolution Steering Method for Geosynchronous Orbit SAR. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2014 , 11, 1732-1736	4.1	14
36	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
35	Geo-location error analysis in geosynchronous SAR. <i>Electronics Letters</i> , 2014 , 50, 1741-1743	1.1	8
34	Improved orthogonal projection approach utilising interference covariance matrix reconstruction for adaptive beamforming. <i>Electronics Letters</i> , 2014 , 50, 1446-1447	1.1	12
33	Regional tropical deforestation detection using ALOS PALSAR 50m mosaics in Riau province, Indonesia. <i>Electronics Letters</i> , 2014 , 50, 547-549	1.1	10
32	Multi-angle BiSAR images enhancement and scattering characteristics analysis 2014 ,		1
31	Multi-angle fusion of SS-BiSAR images using Compass-2/Beidou-2 Satellites as opportunity illuminators 2014 ,		5

30	Tracking with nonlinear measurement model by coordinate rotation transformation. <i>Science China Technological Sciences</i> , 2014 , 57, 2396-2406	3.5	2
29	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
28	Improved Motion Compensation Approach for Squint Airborne SAR. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2013 , 51, 4378-4387	8.1	21
27	SAR Doppler Ambiguity Resolver Based on Entropy Minimization. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2013 , 51, 4405-4416	8.1	5
26	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
25	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
24	Robust time synchronization method based on step frequency signal for wideband distributed coherent aperture radar 2013 ,		6
23	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
22	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
21	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
20	Phase difference estimation based on orthogonal signals for distributed coherent aperture radar 2013 ,		3
19	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
18	An improved wide swath imaging algorithm based on series reversion in GEO SAR 2012 ,		1
17	The impact of residual motion deviations on forest height inversion by SAR remote sensing 2012 ,		1
16	Mainlobe interference suppression based on large aperture auxiliary array 2012 ,		1
15	Impacts of topography for forest height estimation 2012 ,		2
14	Fast processing method of SAR raw data simulation for large-scale forest stand application 2011 ,		1
13	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

12	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
11	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
10	Modification of slant range model and imaging processing in GEO SAR 2010 ,		14
9	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
8	Statistic characteristic analysis of forward scattering surface clutter in bistatic radar. <i>Science China Information Sciences</i> , 2010 , 53, 2675-2686	3.4	4
7	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
6	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
5	Range Migration Compensation and Doppler Ambiguity Resolution by Keystone Transform 2006 ,		30
4	. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , 2005 , 41, 461-474	3.7	104
3	Space-Surface Bistatic SAR 215-246		3
2	Passive Bistatic SAR with GNSS Transmitters 339-361		7
1	Photocatalysis-Induced Nanopores toward Highly Reliable Organic Electrochemical Metallization Memory. <i>Advanced Electronic Materials</i> , 2200246	6.4	1