Cheng Hu

List of Publications by Citations

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

178 papers	1,550 citations	18 h-index	29 g-index
224 ext. papers	1,962 ext. citations	4.1 avg, IF	5.07 L-index

#	Paper	IF	Citations
178	The Accurate Focusing and Resolution Analysis Method in Geosynchronous SAR. *IEEE Transactions on Geoscience and Remote Sensing*, **2011**, 49, 3548-3563	8.1	94
177	. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, **2012**, 5, 795-808	4.7	55
176	An Improved Frequency Domain Focusing Method in Geosynchronous SAR. *IEEE Transactions on Geoscience and Remote Sensing*, **2014**, 52, 5514-5528	8.1	54
175	A New Method of Zero-Doppler Centroid Control in GEO SAR. *IEEE Geoscience and Remote Sensing Letters*, **2011**, 8, 512-516	4.1	49
174	Space-Surface Bistatic SAR Image Formation Algorithms. *IEEE Transactions on Geoscience and Remote Sensing*, **2009**, 47, 1827-1843	8.1	48
173	Performance Analysis of L-Band Geosynchronous SAR Imaging in the Presence of Ionospheric Scintillation. *IEEE Transactions on Geoscience and Remote Sensing*, **2017**, 55, 159-172	8.1	42
172	Optimal 3D deformation measuring in inclined geosynchronous orbit SAR differential interferometry. *Science China Information Sciences*, **2017**, 60, 1	3.4	34
171	Multiangle BSAR Imaging Based on BeiDou-2 Navigation Satellite System: Experiments and Preliminary Results. *IEEE Transactions on Geoscience and Remote Sensing*, **2015**, 53, 5760-5773	8.1	31
170	. *IEEE Geoscience and Remote Sensing Letters*, **2015**, 12, 721-725	4.1	30
169	Background Ionosphere Effects on Geosynchronous SAR Focusing: Theoretical Analysis and Verification Based on the BeiDou Navigation Satellite System (BDS). *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, **2016**, 9, 1143-1162	4.7	30
168	Micro-Doppler measurement of insect wing-beat frequencies with W-band coherent radar. *Scientific Reports*, **2017**, 7, 1396	4.9	28
167	Design and Imaging of Ground-Based Multiple-Input Multiple-Output Synthetic Aperture Radar (MIMO SAR) with Non-Collinear Arrays. *Sensors*, **2017**, 17,	3.8	27
166	. *IEEE Transactions on Aerospace and Electronic Systems*, **2012**, 48, 3006-3026	3.7	26
165	Joint Amplitude-Phase Compensation for Ionospheric Scintillation in GEO SAR Imaging. *IEEE Transactions on Geoscience and Remote Sensing*, **2017**, 55, 3454-3465	8.1	20
164	Three-Dimensional Deformation Retrieval in Geosynchronous SAR by Multiple-Aperture Interferometry Processing: Theory and Performance Analysis. *IEEE Transactions on Geoscience and Remote Sensing*, **2017**, 55, 6150-6169	8.1	19
163	Performance and Requirements of GEO SAR Systems in the Presence of Radio Frequency Interferences. *Remote Sensing*, **2018**, 10, 82	5	19
162	Insect flight speed estimation analysis based on a full-polarization radar. *Science China Information Sciences*, **2018**, 61, 1	3.4	19

161	Space-Surface Bistatic SAR Image Enhancement Based on Repeat-Pass Coherent Fusion With Beidou-2/Compass-2 as Illuminators. *IEEE Geoscience and Remote Sensing Letters*, **2016**, 13, 1832-1836	4.1	18
160	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
159	Optimal Data Acquisition and Height Retrieval in Repeat-Track Geosynchronous SAR Interferometry. *Remote Sensing*, **2015**, 7, 13367-13389	5	18
158	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
157	. *IEEE Transactions on Aerospace and Electronic Systems*, **2017**, 53, 2077-2093	3.7	17
156	Mixed-valent MnSiO/C nanocomposite for high-performance asymmetric supercapacitor. *Journal of Colloid and Interface Science*, **2019**, 556, 239-248	9.3	17
155	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
154	AN IMPROVED NONLINEAR CHIRP SCALING ALGORITHM BASED ON CURVED TRAJECTORY IN GEOSYNCHRONOUS SAR. *Progress in Electromagnetics Research*, **2013**, 135, 481-513	3.8	17
153	Impacts of Temporal-Spatial Variant Background Ionosphere on Repeat-Track GEO D-InSAR System. *Remote Sensing*, **2016**, 8, 916	5	17
152	Insect Biological Parameter Estimation Based on the Invariant Target Parameters of the Scattering Matrix. *IEEE Transactions on Geoscience and Remote Sensing*, **2019**, 57, 6212-6225	8.1	16
151	CUDC-907, a novel dual PI3K and HDAC inhibitor, in prostate cancer: Antitumour activity and molecular mechanism of action. *Journal of Cellular and Molecular Medicine*, **2020**, 24, 7239-7253	5.6	16
150	Image Formation Algorithm for Asymmetric Bistatic SAR Systems With a Fixed Receiver. *IEEE Transactions on Geoscience and Remote Sensing*, **2012**, 50, 4684-4698	8.1	16
149	An improved radar detection and tracking method for small UAV under clutter environment. *Science China Information Sciences*, **2019**, 62, 1	3.4	16
148	. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, **2015**, 8, 3692-3699	4.7	15
147	Modification of slant range model and imaging processing in GEO SAR **2010**,		14
146	Ground moving target signal model and power calculation in forward scattering micro radar. *Science in China Series F: Information Sciences*, **2009**, 52, 1704-1714		14
145	The concept of a forward scattering micro-sensors radar network for situational awareness **2008**,		14
144	GRFT-Based Moving Ship Target Detection and Imaging in Geosynchronous SAR. *Remote Sensing*, **2018**, 10, 2002	5	14

143	A Novel Azimuth Spectrum Reconstruction and Imaging Method for Moving Targets in Geosynchronous Spaceborne/Airborne Bistatic Multichannel SAR. *IEEE Transactions on Geoscience and Remote Sensing*, **2020**, 58, 5976-5991	8.1	13
142	Accurate Analysis of Target Characteristic in Bistatic SAR Images: A Dihedral Corner Reflectors Case. *Sensors*, **2017**, 18,	3.8	13
141	Geosynchronous SAR Tomography: Theory and First Experimental Verification Using Beidou IGSO Satellite. *IEEE Transactions on Geoscience and Remote Sensing*, **2019**, 57, 6591-6607	8.1	12
140	. *IEEE Transactions on Geoscience and Remote Sensing*, **2020**, 58, 3927-3940	8.1	12
139	Deep-learning-based extraction of the animal migration patterns from weather radar images. *Science China Information Sciences*, **2020**, 63, 1	3.4	12
138	Entomological Radar Overview: System and Signal Processing. *IEEE Aerospace and Electronic Systems Magazine*, **2020**, 35, 20-32	2.4	12
137	. *IEEE Transactions on Aerospace and Electronic Systems*, **2019**, 55, 578-591	3.7	12
136	. *IEEE Signal Processing Magazine*, **2019**, 36, 42-52	9.4	12
135	A Sparse SAR Imaging Method Based on Multiple Measurement Vectors Model. *Remote Sensing*, **2017**, 9, 297	5	12
134	A Novel Rapid SAR Simulator Based on Equivalent Scatterers for Three-Dimensional Forest Canopies. *IEEE Transactions on Geoscience and Remote Sensing*, **2014**, 52, 5243-5255	8.1	12
133	Vegetation clutter spectral properties in VHF/UHF bistatic doppler radar **2008**,		12
132	Back-Projection Algorithm Characteristic Analysis in Forward-Looking Bistatic SAR **2006**,		12
131	Two-Dimensional Deformation Measurement Based on Multiple Aperture Interferometry in GB-SAR. *IEEE Geoscience and Remote Sensing Letters*, **2017**, 14, 208-212	4.1	11
130	Ground-Based SAR Wide View Angle Full-Field Imaging Algorithm Based on Keystone Formatting. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, **2016**, 9, 2160-2170	4.7	11
129	Experimental Results and Algorithm Analysis of DEM Generation Using Bistatic SAR Interferometry With Stationary Receiver. *IEEE Transactions on Geoscience and Remote Sensing*, **2015**, 53, 5835-5852	8.1	11
128	Avoiding the Ionospheric Scintillation Interference on Geosynchronous SAR by Orbit Optimization. *IEEE Geoscience and Remote Sensing Letters*, **2016**, 13, 1676-1680	4.1	11
127	A PS processing framework for long-term and real-time GB-SAR monitoring. *International Journal of Remote Sensing*, **2019**, 40, 6298-6314	3.1	10
126	High-precision deformation monitoring algorithm for GBSAR system: rail determination phase error compensation. *Science China Information Sciences*, **2016**, 59, 1	3.4	10

125	Adaptive Secondary Range Compression Algorithm in Geosynchronous SAR. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, **2016**, 9, 1397-1413	4.7	10
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123	3-D Deformation Measurement Based on Three GB-MIMO Radar Systems: Experimental Verification and Accuracy Analysis. *IEEE Geoscience and Remote Sensing Letters*, **2020**, 1-5	4.1	10
122	Impacts of ionospheric scintillation on geosynchronous SAR focusing: preliminary experiments and analysis. *Science China Information Sciences*, **2015**, 58, 1-3	3.4	9
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114	Space-surface BiSAR based on GNSS signal: Synchronization, imaging and experiment result **2014**,		8
113	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
112	Migratory Insect Multifrequency Radar Cross Sections for Morphological Parameter Estimation. *IEEE Transactions on Geoscience and Remote Sensing*, **2019**, 57, 3450-3461	8.1	8
111	Modeling and Quantitative Analysis of Tropospheric Impact on Inclined Geosynchronous SAR Imaging. *Remote Sensing*, **2019**, 11, 803	5	7
110	GB-InSAR-Based DEM Generation Method and Precision Analysis. *Remote Sensing*, **2019**, 11, 997	5	7
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107	A Compensation Method for a Time-Space Variant Atmospheric Phase Applied to Time-Series GB-SAR Images. *Remote Sensing*, **2019**, 11, 2350	5	7
106	An improved focusing method for geosynchronous SAR. *Advances in Space Research*, **2013**, 51, 1773-1783	2.4	7
105	Improved Secondary Range Compression focusing method in GEO SAR **2011**,		7
104	Quasi-optimal signal processing in ground Forward Scattering Radar **2008**,		7
103	Comprehensive analysis of polarimetric radar cross-section parameters for insect body width and length estimation. *Science China Information Sciences*, **2021**, 64, 1	3.4	7
102	Computerized ionospheric tomography based on geosynchronous SAR. *Journal of Geophysical Research: Space Physics*, **2017**, 122, 2686-2705	2.6	6
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98	Bistatic SAR imaging processing and experiment results using BeiDou-2/Compass-2 as illuminator of opportunity and a fixed receiver **2015**,		6
97	Multi-static MIMO-SAR three dimensional deformation measurement system **2015**,		6
96	Physical modeling and spectrum spread analysis of surface clutter in forward scattering radar. *Science China Information Sciences*, **2010**, 53, 2310-2322	3.4	6
95	A Multiple SVR Approach with Time Lags for Traffic Flow Prediction **2008**,		6
94	The possibility of isolated target 3-D position estimation and optimal receiver position determination in SS-BSAR. *Science in China Series F: Information Sciences*, **2008**, 51, 1372-1383		6
93	Forward-Looking Bistatic SAR Range Migration Alogrithm **2006**,		6
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89	Geosynchronous Spaceborne-Airborne Bistatic Moving Target Indication System: Performance Analysis and Configuration Design. *Remote Sensing*, **2020**, 12, 1810	5	5
88	Accurate three-dimensional tracking method in bistatic forward scatter radar. *Eurasip Journal on Advances in Signal Processing*, **2013**, 2013,	1.9	5
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86	Multi-angle fusion of SS-BiSAR images using Compass-2/Beidou-2 Satellites as opportunity illuminators **2014**,		5
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83	Formation Design for Single-Pass GEO InSAR Considering Earth Rotation Based on Coordinate Rotational Transformation. *Remote Sensing*, **2020**, 12, 573	5	5
82	Numerical Analysis of Orbital Perturbation Effects on Inclined Geosynchronous SAR. *Sensors*, **2016**, 16,	3.8	5
81	. *IEEE Transactions on Geoscience and Remote Sensing*, **2020**, 58, 1030-1040	8.1	5
80	Insect Mass Estimation Based on Radar Cross Section Parameters and Support Vector Regression Algorithm. *Remote Sensing*, **2020**, 12, 1903	5	4
79	Statistic characteristic analysis of forward scattering surface clutter in bistatic radar. *Science China Information Sciences*, **2010**, 53, 2675-2686	3.4	4
78	Novel MIMO-SAR system applied for high-speed and high-accuracy deformation measurement. *Journal of Engineering*, **2019**, 2019, 6598-6602	0.7	4
77	Insect Multifrequency Polarimetric Radar Cross Section: Experimental Results and Analysis. *IEEE Transactions on Geoscience and Remote Sensing*, **2021**, 59, 6573-6585	8.1	4
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75	A Novel Radar Detection Method for Sensing Tiny and Maneuvering Insect Migrants. *Remote Sensing*, **2020**, 12, 3238	5	3
74	GNSS forward scatter radar detection: Signal processing and experiment **2017**,		3
73	Imaging Formation Algorithm of the Ground and Space-Borne Hybrid BiSAR Based on Parameters Estimation from Direct Signal. *Mathematical Problems in Engineering*, **2014**, 2014, 1-11	1.1	3
72	A Long-Time Coherent Integration STAP for GEO Spaceborne-Airborne Bistatic SAR. *Remote Sensing*, **2022**, 14, 593	5	3

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69	High Accuracy Acquisition of 3-D Flight Trajectory of Individual Insect Based on Phase Measurement. *Sensors*, **2016**, 16,	3.8	3
68	Extracting animal migration pattern from weather radar observation based on deep convolutional neural networks. *Journal of Engineering*, **2019**, 2019, 6541-6545	0.7	3
67	. *IEEE Transactions on Geoscience and Remote Sensing*, **2021**, 1-15	8.1	3
66	Analysis of the impacts of ionospheric scintillation on geosynchronous SAR based on spherical wave correction **2018**,		2
65	A performance analysis of typical imaging algorithms in Ground-Based Synthetic aperture radar **2017**,		2
64	SA-based orbital design method for GEO-BiSAR resolution improvement **2017**,		2
63	Joint parameter estimation and Cramer-Rao bound analysis in ground-based forward scatter radar. *Eurasip Journal on Advances in Signal Processing*, **2012**, 2012,	1.9	2
62	Forward scattering micro radars for situation awareness **2009**,		2
61	Isolated target 3-D position estimation in SS-BSAR		2
60	Theoretical analysis and experimental verification of wideband multiple-input multiple-output imaging radar. *Journal of Engineering*, **2019**, 2019, 5896-5900	0.7	2
59	Insect speed extraction method based on a high resolution and full polarisation radar with vertical-looking mode. *Journal of Engineering*, **2019**, 2019, 5889-5892	0.7	2
58	Imaging Algorithm for Bistatic SAR Based on GNSS Signal. *Journal of Radars*, **2013**, 2, 39-45		2
57	Research progress on geosynchronous synthetic aperture radar. *Fundamental Research*, **2021**, 1, 346-363		2
56	Sparsity-Inducing Super-Resolution Passive Radar Imaging with Illuminators of Opportunity. *Remote Sensing*, **2016**, 8, 929	5	2
55	Insect wing-beat frequency automatic extraction and experimental verification with a Ku-band insect radar system. *Journal of Engineering*, **2019**, 2019, 7973-7976	0.7	2
54	Moving Target Detection and Parameter Estimation via a Modified Imaging STAP with a Large Baseline in Multistatic GEO SAR. *Remote Sensing*, **2021**, 13, 346	5	2

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51	Efficient Multipath Clutter Cancellation for UAV Monitoring Using DAB Satellite-Based PBR. *Remote Sensing*, **2021**, 13, 3429	5	2
50	. *IEEE Transactions on Geoscience and Remote Sensing*, **2021**, 59, 7165-7179	8.1	2
49	Polarimetric Calibration Technique for a Fully Polarimetric Entomological Radar Based on Antenna Rotation. *Remote Sensing*, **2022**, 14, 1551	5	2
48	Influence of Orbit and System Parameters on Geosynchronous SAR Multiple-Aperture Interferometry Processing: Analysis and Validation. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, **2019**, 12, 1798-1811	4.7	1
47	Equivalent point estimation for small target groups tracking based on maximum group likelihood estimation. *Science China Information Sciences*, **2020**, 63, 1	3.4	1
46	Experimental design and data processing of twin GEO SAR interferometry based on Beidou IGSO satellites **2017**,		1
45	GEO SAR System Analysis and Design **2018**, 27-76		1
44	Algorithms for GEO SAR Imaging Processing **2018**, 77-128		1
43	Analysis of effects of time variant troposphere on Geosynchronous SAR imaging **2016**,		1
42	Grating lobes suppression method for stepped frequency GB-SAR system. *Journal of Systems Engineering and Electronics*, **2014**, 25, 987-995	1.3	1
41	DEM generation using bistatic interferometry: High-coherence pixel selection and residual reference phase compensation. *Science China Information Sciences*, **2015**, 58, 1-14	3.4	1
40	Multi-angle BiSAR images enhancement and scatting characteristics analysis **2014**,		1
39	An accurate SISAR imaging method of ground moving target in forward scatter radar. *Science China Information Sciences*, **2012**, 55, 2269-2280	3.4	1
38	An improved wide swath imaging algorithm based on series reversion in GEO SAR **2012**,		1
37	Fast processing method of SAR raw data simulation for large-scale forest stand application **2011**,		1
36	Analysis of signal characteristic and resolution in ground forward scattering radar **2010**,		1

35	3-D position estimation of isolated target and optimal trajectory choice in parasitic synthetic aperture radar. *Advances in Space Research*, **2009**, 43, 231-238	2.4	1
34	The Analysis of Multi-polarization Forward Scattering RCS and the Effect on Target Classification and Identification. *Dianzi Yu Xinxi Xuebao/Journal of Electronics and Information Technology*, **2010**, 32, 2191-2196		1
33	Quantifying insect migration across Bohai strait using weather radar. *Journal of Engineering*, **2019**, 2019, 6095-6098	0.7	1
32	Rapid Surface Large-Change Monitoring by Repeat-Pass GEO SAR Multibaseline Interferometry. *IEEE Geoscience and Remote Sensing Letters*, **2020**, 1-5	4.1	1
31	High-Quality Pixel Selection Applied for Natural Scenes in GB-SAR Interferometry. *Remote Sensing*, **2021**, 13, 1617	5	1
30	Dem-assisted back-projection algorithm in high resolution geosynchronous SAR imaging **2016**,		1
29	Fully Polarimetric Radar Observing Insects Flight **2019**,		1
28	Electromagnetic scattering characteristics of flapping bird and experimental validation. *Journal of Engineering*, **2019**, 2019, 5860-5863	0.7	1
27	Optimal geometry to resolve 3D deformation from multiple GB-DInRad. *Electronics Letters*, **2019**, 55, 953-955	1.1	1
26	Moving target modelling and indication in MIMO GEO SAR. *Journal of Engineering*, **2019**, 2019, 5529-5533	0.7	1
25	Modeling and Analyzing Impacts of Drifting Anisotropic Ionospheric Irregularities on Inclined Geosynchronous SAR. *IEEE Access*, **2019**, 7, 143090-143096	3.5	1
24	Fast Implementation of Insect Multi-Target Detection Based on Multimodal Optimization. *Remote Sensing*, **2021**, 13, 594	5	1
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21	Robust Tracking for Small Target Groups With Dynamic Outlines. *IEEE Access*, **2020**, 8, 43289-43300	3.5	0
20	Optimal data acquisition in multi-pass geosynchronous SAR tomography. *Journal of Engineering*, **2019**, 2019, 6359-6363	0.7	0
19	Design of Insect Target Tracking Algorithm in Clutter Based on the Multidimensional Feature Fusion Strategy. *Remote Sensing*, **2021**, 13, 3744	5	0
18	Animal Migration Patterns Extraction Based on Atrous-Gated CNN Deep Learning Model. *Remote Sensing*, **2021**, 13, 4998	5	0

17	Rapid Identification and Spectral Moment Estimation of Non-Gaussian Weather Radar Signal. *IEEE Transactions on Geoscience and Remote Sensing*, **2022**, 1-1	8.1	0
16	Insect Migration Flux Estimation Based on Statistical Hypothesis for Entomological Radar. *Remote Sensing*, **2022**, 14, 2298	5	0
15	A Data-Driven Polarimetric Calibration Method for Entomological Radar. *IEEE Transactions on Geoscience and Remote Sensing*, **2022**, 1-1	8.1	0
14	Analysis of Temporal-Spatial Variant Atmospheric Effects on GEO SAR **2018**, 129-187		
13	Ionospheric Experiment Validation and Compensation **2018**, 189-229		
12	Geosynchronous InSAR and D-InSAR **2018**, 231-272		
11	Three Dimensional Deformation Retrieval in GEO D-InSAR **2018**, 273-290		
10	. *IEEE Transactions on Geoscience and Remote Sensing*, **2017**, 55, 615-615	8.1	
9	Insect-Equivalent Radar Cross-Section Model Based on Field Experimental Results of Body Length and Orientation Extraction. *Remote Sensing*, **2022**, 14, 508	5	
8	Generalised ambiguity function analysis of distributed MIMO synthetic aperture radar. *Journal of Engineering*, **2019**, 2019, 5846-5849	0.7	
7	New moving target Doppler centroid expression in geosynchronous SAR. *Journal of Engineering*, **2019**, 2019, 5797-5800	0.7	
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5	Decorrelation in GEO SARs due to radio frequency interferences. *Journal of Engineering*, **2019**, 2019, 7039-7041	0.7	
4	Repositioning Error Compensation in Discontinuous Ground-Based SAR Monitoring. *Remote Sensing* , **2021**, 13, 2461	5	
3	Design and preliminary verification of L-band ground-based SAR system for the vegetated area. *Journal of Engineering*, **2019**, 2019, 5707-5711	0.7	
2	Wide aperture image processing and analysis for BSAR with GNSS transmitters. *Journal of Engineering*, **2019**, 2019, 5548-5552	0.7	
1	Performance analysis of moving ship target signal integration and detection in geosynchronous synthetic aperture radar. *Journal of Engineering*, **2019**, 2019, 6382-6386	0.7	