

# Yilong Lu

## List of Publications by Year in descending order

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196  
papers

2,420  
citations

331259

21  
h-index

253896

43  
g-index

198  
all docs

198  
docs citations

198  
times ranked

1642  
citing authors

#	ARTICLE	IF	CITATIONS
1	Sidelobe reduction in array-pattern synthesis using genetic algorithm. IEEE Transactions on Antennas and Propagation, 1997, 45, 1117-1122.	3.1	369
2	Augmented Nested Arrays With Enhanced DOF and Reduced Mutual Coupling. IEEE Transactions on Signal Processing, 2017, 65, 5549-5563.	3.2	246
3	Array failure correction with a genetic algorithm. IEEE Transactions on Antennas and Propagation, 1999, 47, 823-828.	3.1	183
4	Ultrawideband Textile Antenna for Wearable Microwave Medical Imaging Applications. IEEE Transactions on Antennas and Propagation, 2020, 68, 4238-4249.	3.1	84
5	Maximum likelihood DOA estimation in unknown colored noise fields. IEEE Transactions on Aerospace and Electronic Systems, 2008, 44, 1079-1090.	2.6	76
6	Dual Grid Array Antennas in a Thin-Profile Package for Flip-Chip Interconnection to Highly Integrated 60-GHz Radios. IEEE Transactions on Antennas and Propagation, 2011, 59, 1191-1199.	3.1	69
7	Miniaturization of Planar Monopole Antenna for Ultrawideband Radios. IEEE Transactions on Antennas and Propagation, 2010, 58, 2420-2425.	3.1	65
8	Vectorial finite element modelling of 2D leaky waveguides. IEEE Transactions on Magnetics, 1995, 31, 1710-1713.	1.2	58
9	Space-Time Event Clouds for Gesture Recognition: From RGB Cameras to Event Cameras. , 2019, , .		57
10	Particle swarm optimization and finite-element based approach for microwave filter design. IEEE Transactions on Magnetics, 2005, 41, 1800-1803.	1.2	54
11	An effective wavelet matrix transform approach for efficient solutions of electromagnetic integral equations. IEEE Transactions on Antennas and Propagation, 1997, 45, 1205-1213.	3.1	51
12	An efficient finite element solution of inhomogeneous anisotropic and lossy dielectric waveguides. IEEE Transactions on Microwave Theory and Techniques, 1993, 41, 1215-1223.	2.9	50
13	Source Bearing and Steering-Vector Estimation using Partially Calibrated Arrays. IEEE Transactions on Aerospace and Electronic Systems, 2009, 45, 1361-1372.	2.6	42
14	Electromagnetic dyadic Green's function in cylindrically multilayered media. IEEE Transactions on Microwave Theory and Techniques, 1996, 44, 614-621.	2.9	41
15	Clutter Rank of STAP in MIMO Radar With Waveform Diversity. IEEE Transactions on Signal Processing, 2010, 58, 938-943.	3.2	41
16	Radar Micro-Doppler Signature Analysis with HHT. IEEE Transactions on Aerospace and Electronic Systems, 2010, 46, 929-938.	2.6	40
17	Space-time interference analysis and suppression for airborne passive radar using transmissions of opportunity. IET Radar, Sonar and Navigation, 2014, 8, 142-152.	0.9	39
18	Dimension reduction for array processing with robust interference cancellation. IEEE Transactions on Aerospace and Electronic Systems, 2006, 42, 103-112.	2.6	37

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19	A Refined Genetic Algorithm for Accurate and Reliable DOA Estimation with a Sensor Array. <i>Wireless Personal Communications</i> , 2007, 43, 533-547.	1.8	33
20	Electromagnetic and thermal simulations of 3-D human head model under RF radiation by using the FDTD and FD approaches. <i>IEEE Transactions on Magnetics</i> , 1996, 32, 1653-1656.	1.2	27
21	Applications of passive surveillance radar system using cell phone base station illuminators. <i>IEEE Aerospace and Electronic Systems Magazine</i> , 2010, 25, 10-18.	2.3	25
22	Feasibility analysis of GSM signal for passive radar. , 0, , .		24
23	An Experimental Study of WiMAX-Based Passive Radar. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2010, , .	2.9	22
24	Data-Based Model for Wide Nulling Problem in Adaptive Digital Beamforming Antenna Array. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2019, 18, 2249-2253.	2.4	22
25	Data fusion of multiradar system by using genetic algorithm. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , 2002, 38, 601-612.	2.6	20
26	Design and implementation of an experimental GSM based passive radar. , 0, , .		19
27	Aircraft target measurements using A GSM-based passive radar. , 2008, , .		18
28	A variational finite element formulation for dielectric waveguides in terms of transverse magnetic fields. <i>IEEE Transactions on Magnetics</i> , 1991, 27, 3864-3867.	1.2	17
29	Low-profile patch antennas with enhanced horizontal omnidirectional gain for DSRC applications. <i>IET Microwaves, Antennas and Propagation</i> , 2018, 12, 246-253.	0.7	17
30	Adaptive wide null steering for digital beamforming array with the complex coded genetic algorithm. , 0, , .		16
31	Ultra-wideband technology and random signal radar: an ideal combination. <i>IEEE Aerospace and Electronic Systems Magazine</i> , 2003, 18, 3-7.	2.3	16
32	Single transceiver-based time division multiplexing multiple-input-multiple-output digital beamforming radar system: concepts and experiments. <i>IET Radar, Sonar and Navigation</i> , 2014, 8, 368-375.	0.9	16
33	A new approach for ground moving target indication in foliage environment. <i>Signal Processing</i> , 2006, 86, 84-97.	2.1	15
34	High resolution radar tomographic imaging using single-tone CW signals. , 2010, , .		15
35	DOA estimation based on multi-resolution difference co-array perspective. , 2017, 62, 187-196.		15
36	A Superwide Bandwidth Low-Profile Monocone Antenna With Dielectric Loading. <i>IEEE Transactions on Antennas and Propagation</i> , 2019, 67, 4173-4177.	3.1	15

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37	Target detection performance analysis for airborne passive bistatic radar. , 2010, , .		14
38	Optimal Direction Finding in Unknown Noise Environments Using Antenna Arrays in Wireless Sensor Networks. , 2007, , .		13
39	Finite element analysis of complex modes in inhomogeneous waveguides. IEEE Transactions on Magnetics, 1993, 29, 1601-1604.	1.2	12
40	Design of 45-degree Linearly Polarized Substrate Integrated Waveguide-fed Slot Array Antennas. Journal of Infrared, Millimeter and Terahertz Waves, 2008, 29, 1019-1027.	0.6	12
41	Fast array failure correction using improved particle swarm optimization. , 2009, , .		12
42	Dimensional Synthesis of Symmetric Wideband Waveguide Cross-Coupled Filters Without Global Full-Wave Optimization. IEEE Transactions on Microwave Theory and Techniques, 2010, , .	2.9	12
43	DOA Estimation With Enhanced DOFs by Exploiting Cyclostationarity. IEEE Transactions on Signal Processing, 2017, 65, 1486-1496.	3.2	12
44	Sea and air moving target measurements using a GSM based passive radar. , 0, , .		11
45	The efficient solution of large sparse nonsymmetric and complex eigensystems by subspace iteration. IEEE Transactions on Magnetics, 1994, 30, 3582-3585.	1.2	10
46	Combination of PML and ABC for scattering problem. IEEE Transactions on Magnetics, 2001, 37, 3510-3513.	1.2	9
47	A Compact 3-Port Multiband Antenna for V2X Communication. , 2017, , .		9
48	Wideband circular patch antenna with I-shaped structure for horizontal omnidirectional gain enhancement. IET Microwaves, Antennas and Propagation, 2019, 13, 608-614.	0.7	9
49	Finite element analysis of lossy dielectric waveguides. IEEE Transactions on Magnetics, 1993, 29, 1609-1612.	1.2	8
50	Antennae Polarization for Effective Transmission of UWB Signal around Human Body. , 2007, , .		8
51	Maximum Likelihood Processing for Arrays with Partially Unknown Sensor Gains and Phases. , 2007, , .		8
52	Signal analysis of airborne passive radar using transmissions of opportunity. , 2011, , .		8
53	Optimal Parameter Estimation Method of Internal Solitary Waves in SAR Images and the Cram�r� Rao Bound. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 3143-3150.	2.7	8
54	Efficient beamforming using bat algorithm. , 2016, , .		8

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55	A Multi-Objective Quantum Genetic Algorithm for MIMO Radar Waveform Design. Remote Sensing, 2022, 14, 2387.	1.8	8
56	Vector finite element analysis of integrated optical waveguides. IEEE Transactions on Magnetics, 1994, 30, 3116-3119.	1.2	7
57	45&#x00B0; linearly polarized substrate integrated waveguide-fed slot array antennas. , 2008, , .		7
58	Vector Sensor Cross-Product for Direction of Arrival Estimation. , 2009, , .		7
59	An experimental WiMAX based passive radar study. , 2009, , .		7
60	Multi-Resolution Composite Array for Digital Beamforming With High Angular-Resolution. IEEE Transactions on Antennas and Propagation, 2014, 62, 4377-4380.	3.1	7
61	Accelerating Numerical Electromagnetic Code computation by using the wavelet transform. IEEE Transactions on Magnetics, 1998, 34, 3399-3402.	1.2	6
62	Compound dipole with H-plane parasitic posts for phased array wide-angle wide-band scanning. , 0, , .		6
63	Optimal design of special corner reflector antennas by the real-coded genetic algorithm. , 0, , .		6
64	Analysis of photonic band-gap (PBG) structures using the FDTD method. Microwave and Optical Technology Letters, 2004, 41, 173-177.	0.9	6
65	Target Detection and Identification with a Heterogeneous Sensor Network by Strategic Resource Allocation and Coordination. , 2006, , .		6
66	Design of Wide-Band Pseudo-Elliptic Waveguide Filters With Cavity-Backed Inverters. IEEE Microwave and Wireless Components Letters, 2010, 20, 604-606.	2.0	6
67	A comparative study of migration algorithms for UWB GPR images in SISO-SAR and MIMO-array configurations. , 2014, , .		6
68	Sign Language Recognition with CW Radar and Machine Learning. , 2020, , .		6
69	Low frequency radar phenomenology study in equatorial vegetation \$preliminary results. , 0, , .		5
70	A broad-band top-cap monopole antenna. , 0, , .		5
71	Arbitrary planar microwave filter design by the EEM-GA approach. Microwave and Optical Technology Letters, 2004, 41, 276-279.	0.9	5
72	Coupled Mode Analysis of Forward and Backward Coupling in Multiconductor Transmission Lines. IEEE Transactions on Electromagnetic Compatibility, 2005, 47, 463-470.	1.4	5

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73	Adaptive Array Digital Beamforming Using Complex-Coded Particle Swarm Optimization-Genetic Algorithm. , 0, , .		5
74	Sparse frequency waveform design based on PSD fitting. , 2011, , .		5
75	CPW-fed wearable textile L-shape patch antenna. , 2014, , .		5
76	Signal processing for airborne passive radar. , 2014, , .		5
77	Generalized design method for the difference co-array of the sum co-array. , 2016, , .		5
78	Autofocusing of UWB MIMO GPR Images by Using MZO and Entropy Minimization. IEEE Geoscience and Remote Sensing Letters, 2016, 13, 661-665.	1.4	5
79	A low profile stepped wideband monocone antenna. , 2017, , .		5
80	Analysis of microstrip antennas with complex and anisotropic substrate by a hybrid FEM/BEM approach. IEEE Transactions on Magnetics, 1998, 34, 3300-3303.	1.2	4
81	The combination of neural networks and genetic algorithm for fast and flexible wide nulling in digital beamforming. , 0, , .		4
82	WiMAX signal generation based on MIMO-OFDM testbed for passive radar application. , 2009, , .		4
83	Fast detection and location of failed array elements using the fast SVM algorithm. , 2010, , .		4
84	A Switchable or MIMO Antenna for V2X Communication. , 2019, , .		4
85	A study of the fast wavelet transform method in computational electromagnetics. IEEE Transactions on Magnetics, 1998, 34, 3323-3326.	1.2	3
86	Differential algebraic method for arbitrary order curvilinear-axis combined geometric chromatic aberration analysis. Journal Physics D: Applied Physics, 2003, 36, 924-928.	1.3	3
87	Differential algebraic method for arbitrary-order chromatic aberration analysis of electrostatic lenses. Optik, 2006, 117, 196-198.	1.4	3
88	GSM based through-the-wall passive radar demonstrator for motion sensing. , 2008, , .		3
89	High resolution MIMO-HFSWR using sparse frequency waveform. , 2008, , .		3
90	A realistic study of the nature inspired small aperture direction finding technique. , 2009, , .		3

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91	Clutter rank Of MIMO radar with a speical class of waveforms. , 2009, , .		3
92	Distributed vector sensor cross product added with MUSIC for direction of arrival estimation. , 2010, , .		3
93	Through-the-wall tomographic imaging using chirp signals. , 2011, , .		3
94	MATLAB tools for lidar data conversion, visualization, and processing. Proceedings of SPIE, 2011, , .	0.8	3
95	30-dBi gain microstrip grid array antenna at 24 GHz on a single-layer substrate. , 2013, , .		3
96	Experimental Study on Moving Target Localization Using Dual Frequency Continuous Wave Radar. , 2019, , .		3
97	Temporal Series Crop Classification Study in Rural China Based on Sentinel-1 SAR Data. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 2769-2780.	2.3	3
98	High Resolution MIMO-HFSWR Radar Using Sparse Frequency Waveforms. Wireless Sensor Network, 2009, 01, 152-162.	0.3	3
99	Modal analysis of multi-quantum-well waveguides using the vector finite element method. IEEE Transactions on Magnetics, 1996, 32, 926-929.	1.2	2
100	Toroidal helical antennas-analysis and optimisation. , 0, , .		2
101	A novel threshold optimization for distributed OS-CFAR of multistatic radar systems by using the genetic algorithm. , 0, , .		2
102	A super resolution SAR imaging method based on CSA. , 0, , .		2
103	Design and analysis of integrated-circuit package antenna (ICPA) for dual-band wireless transceivers. International Journal of RF and Microwave Computer-Aided Engineering, 2006, 16, 250-258.	0.8	2
104	Lightning Interference Cancellation in High-Frequency Surface Wave Radar. , 2006, , .		2
105	Broadband HF antennas with distributed unbalanced load. , 2009, , .		2
106	STAP performance analysis for MIMO radar with waveform diversity. , 2009, , .		2
107	A novel digital beamforming approach with single microwave digital receiver. , 2010, , .		2
108	Using chirp signal for accurate RFID positioning. , 2010, , .		2

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109	An improved decoding for constellation rotation QOSTBC concatenates RS code using interference cancellation. , 2010, , .		2
110	A low-cost MIMO radar system concept based on single transmitter and single receiver. , 2011, , .		2
111	A study of synthetic aperture radar imaging with compressed sensing. , 2012, , .		2
112	A study of cross array with MIMO DBF. , 2014, , .		2
113	Microwave imaging with random sparse array and compressed sensing for target detection. , 2015, , .		2
114	3D Pattern Optimization Using PSO for an Irregular Dual-Layer Circular Array. , 2018, , .		2
115	Classification and Tracking of Moving Objects from 77 GHz Automotive Radar Sensors. , 2018, , .		2
116	Temporal Series Crop Classification Study in Rural China Based on Sentinel-1 SAR Data. , 2019, , .		2
117	PolSAR Data-Based Land Cover Classification Using Dual-Channel Watershed Region-Merging Segmentation and Bagging-ELM. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	1.4	2
118	Touchless Control by Hand Gesture Sensing with Radar Sensor and Machine Learning. , 2021, , .		2
119	Building Extraction From PolSAR Image Based on Deep CNN with Polarimetric Features. , 2020, , .		2
120	Cloud Removal of Optical Remote Sensing Imageries using SAR Data and Deep Learning. , 2021, , .		2
121	An adaptive wavelet transform for solutions of electromagnetic integral equations. , 0, , .		1
122	The hybrid perfectly matched layer and finite element solution for open region problems. IEEE Transactions on Magnetics, 2000, 36, 1635-1639.	1.2	1
123	A novel method for CFAR data fusion. , 0, , .		1
124	The hybrid FEM-MOL approach for the analysis of scattering problems. Microwave and Optical Technology Letters, 2002, 34, 134-138.	0.9	1
125	Threshold optimization algorithm for weak signal in distributed-sensor fusion system. Signal Processing, 2002, 82, 1329-1336.	2.1	1
126	Doppler frequency extraction of foliage penetration radar based on the Hilbert-Huang transform technology. , 0, , .		1



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127	Differential algebraic method for time of flight property of electrostatic electron lenses. <i>Optik</i> , 2005, 116, 411-414.	1.4	1
128	Compact bandpass filter design using folded coupled-line resonators. <i>Microwave and Optical Technology Letters</i> , 2005, 45, 32-35.	0.9	1
129	Miniaturization of planar microwave filters with irregular geometries. , 2005, , .		1
130	The Influence of Mutual Coupling in A Dual-Helical Antenna Array in Mobile Handsets for Mobile Communications. , 0, , .		1
131	A Special Operation Mode of BoomSAR in Application to Foliage Penetration Imaging. , 2006, , .		1
132	A Comparison of Back-Projection and Range Migration Algorithms for Ultra-Wideband SAR Imaging. , 0, , .		1
133	An experimental GSM based passive radar. , 2006, , .		1
134	Optimization of Broadband Bandpass Filter Using Tapered Electromagnetic Bandgap Structures. , 2007, , .		1
135	Axial ratio analysis of a multiple-feed microstrip antenna. , 2008, , .		1
136	Performance evaluation of radio frequency interference cancellation techniques in HFSWR. , 2008, , .		1
137	Performance analysis of direct position determination for emitter source positioning. , 2010, , .		1
138	Distributed reduced vector sensor for direction of arrival and polarization state estimation. , 2010, , .		1
139	Analysis and flexible design of metamaterial-based multi-channel monopole antennas. , 2010, , .		1
140	DOA estimation with a vector circular array. , 2012, , .		1
141	Direction and polarization estimations of signals using vector circular array. , 2012, , .		1
142	FOC-MUSIC method for signal parameter estimations using vector circular array. , 2013, , .		1
143	Collaborative Signal and Information Processing for Target Detection with Heterogeneous Sensor Networks. <i>Internatioal Journal of Sensor Networks and Data Communications</i> , 2013, 02, .	0.1	1
144	Thinned multi-resolution composite array for high resolution digital beamforming. , 2014, , .		1

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145	Investigation of MIMO and SAR performance on several applications of UWB GPR. , 2014, , .		1
146	A 6.8GHz low-profile H-plane ridged SIW horn antenna. , 2015, , .		1
147	Adaptive beamforming for arbitrary array by particle swarm optimization. , 2015, , .		1
148	Investigation of peak envelope power measurements and uncertainties. , 2016, , .		1
149	Classification and Identification of Micro-Doppler Signatures of Pedestrian and Cyclists Using Simulated Data and ELM. , 2019, , .		1
150	LIDAR Image Processing with Progressive Morphological Filtering. International Journal of Computer Theory and Engineering, 2012, , 971-974.	3.2	1
151	Ka-Band Drone SAR Flying without GPS. , 2021, , .		1
152	Finite element analys of lossy dielectric waveguides. , 0, , .		0
153	Comments on "A new edge element analysis of dispersive waveguiding structures". IEEE Transactions on Microwave Theory and Techniques, 1996, 44, 1618-1619.	2.9	0
154	The efficient solution of arbitrary 2-D scattering problems by the cylindrical method of lines. , 0, , .		0
155	CFAR data fusion of multistatic radar system under homogeneous and nonhomogeneous backgrounds. , 0, , .		0
156	The fast neural network solution for problems based on slow genetic algorithm solutions. , 0, , .		0
157	Millimeter wave SPDT switch for giga-scale system. , 0, , .		0
158	An approach to identification of variances for radar tracking systems. Signal Processing, 2002, 82, 875-879.	2.1	0
159	Millimeter wave control switch for secure giga-scale system. , 0, , .		0
160	Analytical evaluation of the asymptotic impedance matrix elements of asymmetric gap discontinuities on a uniaxial substrate. , 2003, , .		0
161	Differential algebraic theory and calculation for arbitrary high order aberrations of a bipotential electrostatic lens. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2003, 21, 2038.	1.6	0
162	Finline technology for millimeter-wave MEMS. , 2003, 5116, 523.		0

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163	Differential Algebraic Method for Aberration Analysis of Electron Optical Systems. Lecture Notes in Computer Science, 2004, , 729-735.	1.0	0
164	Numerical studies of EBG structures printed on CPW lines. , 2004, , .		0
165	Analysis of photonic bandâ€Œgap structures in stratified medium. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2005, 24, 1191-1199.	0.5	0
166	Exact Transient Field of a Horizontal Electric Dipole Excited by a Gaussian Pulse on the Boundary between Two Dielectrics. , 0, , .		0
167	Radiation from a monopole antenna in front of a conducting cylinder. Radio Science, 2005, 40, n/a-n/a.	0.8	0
168	Friction between Carbon Nanotube and Graphite using Molecular Dynamics. , 0, , .		0
169	Numerical analysis of PBG via structures using FDTD algorithm. Microelectronics International, 2006, 23, 4-9.	0.4	0
170	Design of a substrate integrated waveguide based 1-to-6 non-uniform power divider. , 2008, , .		0
171	E-band &#x201C;T&#x201D; shape transitions between substrate integrated waveguide and standard waveguide. , 2008, , .		0
172	Foldable aperture coupled microstrip antenna array for portable wireless application. , 2008, , .		0
173	A novel reflection-canceling design for substrate integrated waveguide based 45-degree linearly polarized slot antenna array. , 2008, , .		0
174	Foam based light weight cavity-backed slot antenna for unidirectional wireless system applications. , 2008, , .		0
175	Error propagation on power allocation in generalized layered space-time coding communication systems. , 2009, , .		0
176	Synthesis of wide-band bandpass filters with quarter-wavelength resonators. , 2009, , .		0
177	A dual-polarization communication model for wireless sensor networks. , 2010, , .		0
178	Decoding of QOSTBC concatenates RS code using parallel interference cancellation. Proceedings of SPIE, 2010, , .	0.8	0
179	MATLAB tools for EnvisAT ASAR data visualization and image enhancement. , 2011, , .		0
180	MATLAB toolbox for EnvisAT InSAR data processing, visualization, and analysis. Proceedings of SPIE, 2012, , .	0.8	0

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181	A low-cost narrow-beamwidth DBF radar concept. , 2012, , .		0
182	A study of lidar-based sense making and topographic mapping. Proceedings of SPIE, 2012, , .	0.8	0
183	Why headache using GSM cellular phones?. , 2013, , .		0
184	Pattern compensation for DOA estimation by electromagnetic vector sensors. , 2014, , .		0
185	Sleeve bowtie dipole reflector antenna with wider field of view for digital beamforming array. , 2015, , .		0
186	Types and comparison of low cost radar beamforming arrays. , 2015, , .		0
187	Peak envelope power measurements for mobile communications: A preliminary study. , 2016, , , .		0
188	A Ultra-Wideband Monocone Antenna with Ceramic Loading. , 2018, , , .		0
189	Compact Circularly Polarized Smart Antenna System for CubeSat IDRS Application. , 2018, , , .		0
190	Optimal Beam-Space Transformation Design for Robust Data Reduction and Array Processing in Presence of Strong Interference. , 2019, , , .		0
191	Progressive Morphological Filtering for Land Cover Clustering Based on SAR Imagery. , 2019, , , .		0
192	Land-cover Classification Based on SAR Data Using Superpixel and Cosine Similarity. , 2020, , , .		0
193	FINITE ELEMENT ANALYSIS OF PHOTONIC CRYSTAL FIBRES. , 2002, , , .		0
194	Comparative Study of Surface Cancellation Methods for Ground Penetrating Radar Imaging. , 2020, , , .		0
195	Multi-Modality Translation from SAR Image to Optical Image for Remote Sensing Applications. , 2021, , , .		0
196	Sparse Composite Array with Enhanced Angular Resolution for Automotive Radar Applications. , 2021, , , .		0