## Yilong Lu

## List of Publications by Year in descending order

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196	2,420	21	43
papers	citations	h-index	g-index
198	198	198	1642
all docs	docs citations	times ranked	citing authors

#	Article	IF	CITATIONS
1	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.	3.1	2
2	A Multi-Objective Quantum Genetic Algorithm for MIMO Radar Waveform Design. Remote Sensing, 2022, 14, 2387.	4.0	8
3	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.	4.9	3
4	Touchless Control by Hand Gesture Sensing with Radar Sensor and Machine Learning. , 2021, , .		2
5	Multi-Modality Translation from SAR Image to Optical Image for Remote Sensing Applications. , 2021, , .		О
6	Cloud Removal of Optical Remote Sensing Imageries using SAR Data and Deep Learning. , 2021, , .		2
7	Ka-Band Drone SAR Flying without GPS. , 2021, , .		1
8	Sparse Composite Array with Enhanced Angular Resolution for Automotive Radar Applications. , 2021, , .		0
9	Land-cover Classification Based on SAR Data Using Superpixel and Cosine Similarity. , 2020, , .		О
10	Ultrawideband Textile Antenna for Wearable Microwave Medical Imaging Applications. IEEE Transactions on Antennas and Propagation, 2020, 68, 4238-4249.	5.1	84
11	Comparative Study of Surface Cancellation Methods for Ground Penetrating Radar Imaging. , 2020, , .		O
12	Sign Language Recognition with CW Radar and Machine Learning. , 2020, , .		6
13	Building Extraction From PolSAR Image Based on Deep CNN with Polarimetric Features. , 2020, , .		2
14	A Switchable or MIMO Antenna for V2X Communication. , 2019, , .		4
15	Data-Based Model for Wide Nulling Problem in Adaptive Digital Beamforming Antenna Array. IEEE Antennas and Wireless Propagation Letters, 2019, 18, 2249-2253.	4.0	22
16	Experimental Study on Moving Target Localization Using Dual Frequency Continuous Wave Radar., 2019,,.		3
17	Optimal Beam-Space Transformation Design for Robust Data Reduction and Array Processing in Presence of Strong Interference. , 2019, , .		O
18	Space-Time Event Clouds for Gesture Recognition: From RGB Cameras to Event Cameras., 2019, , .		57

#	Article	IF	CITATIONS
19	A Superwide Bandwidth Low-Profile Monocone Antenna With Dielectric Loading. IEEE Transactions on Antennas and Propagation, 2019, 67, 4173-4177.	5.1	15
20	Wideband circular patch antenna with lâ€shaped structure for horizontal omnidirectional gain enhancement. IET Microwaves, Antennas and Propagation, 2019, 13, 608-614.	1.4	9
21	Classification and Identification of Micro-Doppler Signatures of Pedestrian and Cyclists Using Simulated Data and ELM., 2019,,.		1
22	Progressive Morphological Filtering for Land Cover Clusttering Based on SAR Imagery. , 2019, , .		0
23	Temporal Series Crop Classification Study in Rural China Based on Sentinel-1 SAR Data. , 2019, , .		2
24	Lowâ€profile patch antennas with enhanced horizontal omnidirectional gain for DSRC applications. IET Microwaves, Antennas and Propagation, 2018, 12, 246-253.	1.4	17
25	A Ultra-Wideband Monocone Antenna with Ceramic Loading. , 2018, , .		0
26	3D Pattern Optimization Using PSO for an Irregular Dual-Layer Circular Array. , 2018, , .		2
27	Classification and Tracking of Moving Objects from 77 GHz Automotive Radar Sensors. , 2018, , .		2
28	Compact Circularly Polarized Smart Antenna System for CubeSat IDRS Application. , 2018, , .		0
29	DOA Estimation With Enhanced DOFs by Exploiting Cyclostationarity. IEEE Transactions on Signal Processing, 2017, 65, 1486-1496.	5.3	12
30	DOA estimation based on multi-resolution difference co-array perspective., 2017, 62, 187-196.		15
31	Augmented Nested Arrays With Enhanced DOF and Reduced Mutual Coupling. IEEE Transactions on Signal Processing, 2017, 65, 5549-5563.	5.3	246
32	A Compact 3-Port Multiband Antenna for V2X Communication., 2017,,.		9
33	A low profile stepped wideband monocone antenna. , 2017, , .		5
34	Peak envelope power measurements for mobile communications: A preliminary study. , 2016, , .		0
35	Investigation of peak envelope power measurements and uncertainties. , 2016, , .		1
36	Generalized design method for the difference co-array of the sum co-array. , 2016, , .		5

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37	Autofocusing of UWB MIMO GPR Images by Using MZO and Entropy Minimization. IEEE Geoscience and Remote Sensing Letters, 2016, 13, 661-665.	3.1	5
38	Optimal Parameter Estimation Method of Internal Solitary Waves in SAR Images and the Cramér–Rao Bound. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 3143-3150.	6.3	8
39	Efficient beamforming using bat algorithm. , 2016, , .		8
40	Sleeve bowtie dipole reflector antenna with wider field of view for digital beamforming array. , 2015, , .		0
41	A 6.8GHz low-profile H-plane ridged SIW horn antenna. , 2015, , .		1
42	Microwave imaging with random sparse array and compressed sensing for target detection., 2015,,.		2
43	Types and comparison of low cost radar beamforming arrays. , 2015, , .		0
44	Adaptive beamforming for arbitrary array by particle swarm optimization., 2015,,.		1
45	CPW-fed wearable textile L-shape patch antenna. , 2014, , .		5
46	Space–time interference analysis and suppression for airborne passive radar using transmissions of opportunity. IET Radar, Sonar and Navigation, 2014, 8, 142-152.	1.8	39
47	Thinned multi-resolution composite array for high resolution digital beamforming. , 2014, , .		1
48	Multi-Resolution Composite Array for Digital Beamforming With High Angular-Resolution. IEEE Transactions on Antennas and Propagation, 2014, 62, 4377-4380.	5.1	7
49	Signal processing for airborne passive radar. , 2014, , .		5
50	Pattern compensation for DOA estimation by electromagnetic vector sensors. , 2014, , .		0
51	Investigation of MIMO and SAR performance on several applications of UWB GPR., 2014,,.		1
52	A study of cross array with MIMO DBF., 2014, , .		2
53	A comparative study of migration algorithms for UWB GPR images in SISO-SAR and MIMO-array configurations. , $2014,  ,  .$		6
54	Single transceiverâ€based time division multiplexing multipleâ€inputâ€"multipleâ€output digital beamforming radar system: concepts and experiments. IET Radar, Sonar and Navigation, 2014, 8, 368-375.	1.8	16

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55	Why headache using GSM cellular phones?., 2013,,.		O
56	30-dBi gain microstrip grid array antenna at 24 GHz on a single-layer substrate., 2013,,.		3
57	FOC-MUSIC method for signal parameter estimations using vector circular array. , 2013, , .		1
58	Collaborative Signal and Information Processing for Target Detection with Heterogeneous Sensor Networks. Internatinoal Journal of Sensor Networks and Data Communications, 2013, 02, .	0.1	1
59	MATLAB toolbox for EnviSAT InSAR data processing, visualization, and analysis. Proceedings of SPIE, 2012, , .	0.8	0
60	DOA estimation with a vector circular array. , 2012, , .		1
61	Direction and polarization estimations of signals using vector circular array. , 2012, , .		1
62	A low-cost narrow-beamwidth DBF radar concept. , 2012, , .		0
63	A study of synthetic aperture radar imaging with compressed sensing. , 2012, , .		2
64	A study of lidar-based sense making and topographic mapping. Proceedings of SPIE, 2012, , .	0.8	0
65	LIDAR Image Processing with Progressive Morphological Filtering. International Journal of Computer Theory and Engineering, 2012, , 971-974.	3.4	1
66	Signal analysis of airborne passive radar using transmissions of opportunity. , 2011, , .		8
67	MATLAB tools for EnviSAT ASAR data visualization and image enhancement. , 2011, , .		O
68	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.	5.1	69
69	A low-cost MIMO radar system concept based on single transmitter and single receiver. , 2011, , .		2
70	Through-the-wall tomographic imaging using chirp signals. , 2011, , .		3
71	Sparse frequency waveform design based on PSD fitting. , 2011, , .		5
72	MATLAB tools for lidar data conversion, visualization, and processing. Proceedings of SPIE, 2011, , .	0.8	3

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73	A dual-polarization communication model for wireless sensor networks. , 2010, , .		O
74	Dimensional Synthesis of Symmetric Wideband Waveguide Cross-Coupled Filters Without Global Full-Wave Optimization. IEEE Transactions on Microwave Theory and Techniques, 2010, , .	4.6	12
75	A novel digital beamforming approach with single microwave digital receiver. , 2010, , .		2
76	Using chirp signal for accurate RFID positioning. , 2010, , .		2
77	Performance analysis of direct position determination for emitter source positioning. , 2010, , .		1
78	High resolution radar tomographic imaging using single-tone CW signals. , 2010, , .		15
79	Distributed reduced vector sensor for direction of arrival and polarization state estimation. , 2010, , .		1
80	Decoding of QOSTBC concatenates RS code using parallel interference cancellation. Proceedings of SPIE, $2010, $ , .	0.8	0
81	Applications of passive surveillance radar system using cell phone base station illuminators. IEEE Aerospace and Electronic Systems Magazine, 2010, 25, 10-18.	1.3	25
82	Target detection performance analysis for airborne passive bistatic radar., 2010,,.		14
83	An Experimental Study of WiMAX-Based Passive Radar. IEEE Transactions on Microwave Theory and Techniques, 2010, , .	4.6	22
84	Clutter Rank of STAP in MIMO Radar With Waveform Diversity. IEEE Transactions on Signal Processing, 2010, 58, 938-943.	5.3	41
85	Design of Wide-Band Pseudo-Elliptic Waveguide Filters With Cavity-Backed Inverters. IEEE Microwave and Wireless Components Letters, 2010, 20, 604-606.	3.2	6
86	Radar Micro-Doppler Signature Analysis with HHT. IEEE Transactions on Aerospace and Electronic Systems, 2010, 46, 929-938.	4.7	40
87	Miniaturization of Planar Monopole Antenna for Ultrawideband Radios. IEEE Transactions on Antennas and Propagation, 2010, 58, 2420-2425.	5.1	65
88	Distributed vector sensor cross product added with MUSIC for direction of arrival estimation. , 2010, , .		3
89	Analysis and flexible design of metamaterial-based multi-channel monopole antennas. , 2010, , .		1
90	Fast detection and location of failed array elements using the fast SVM algorithm. , 2010, , .		4

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91	An improved decoding for constellation rotation QOSTBC concatenates RS code using interference cancellation. , 2010, , .		2
92	Error propagation on power allocation in generalized layered space-time coding communication systems. , 2009, , .		0
93	A realistic study of the nature inspired small aperture direction finding technique. , 2009, , .		3
94	Broadband HF antennas with distributed unbalanced load., 2009,,.		2
95	Vector Sensor Cross-Product for Direction of Arrival Estimation. , 2009, , .		7
96	WiMAX signal generation based on MIMO-OFDM testbed for passive radar application. , 2009, , .		4
97	Fast array failure correction using improved particle swarm optimization. , 2009, , .		12
98	An experimental WiMAX based passive radar study. , 2009, , .		7
99	STAP performance analysis for MIMO radar with waveform diversity. , 2009, , .		2
100	Clutter rank Of MIMO radar with a speical class of waveforms. , 2009, , .		3
101	Synthesis of wide-band bandpass filters with quarter-wavelength resonators. , 2009, , .		0
102	Source Bearing and Steering-Vector Estimation using Partially Calibrated Arrays. IEEE Transactions on Aerospace and Electronic Systems, 2009, 45, 1361-1372.	4.7	42
103	High Resolution MIMO-HFSWR Radar Using Sparse Frequency Waveforms. Wireless Sensor Network, 2009, 01, 152-162.	1.3	3
104	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
105	Aircraft target measurements using A GSM-based passive radar. , 2008, , .		18
106	GSM based through-the-wall passive radar demonstrator for motion sensing. , 2008, , .		3
107	Maximum likelihood DOA estimation in unknown colored noise fields. IEEE Transactions on Aerospace and Electronic Systems, 2008, 44, 1079-1090.	4.7	76
108	45° linearly polarized substrate integrated waveguide-fed slot array antennas., 2008,,.		7

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109	Design of a substrate integrated waveguide based 1-to-6 non-uniform power divider., 2008,,.		O
110	E-band & amp; $\pm$ x201C; T& amp; $\pm$ x201D; shape transitions between substrate integrated waveguide and standard waveguide. , 2008, , .		0
111	Foldable aperture coupled microstrip antenna array for portable wireless application. , 2008, , .		0
112	A novel reflection-canceling design for substrate integrated waveguide based 45-degree linearly polarized slot antenna array. , 2008, , .		0
113	High resolution MIMO-HFSWR using sparse frequency waveform. , 2008, , .		3
114	Axial ratio analysis of a multiple-feed microstrip antenna. , 2008, , .		1
115	Foam based light weight cavity-backed slot antenna for unidirectional wireless system applications. , 2008, , .		0
116	Performance evaluation of radio frequency interference cancellation techniques in HFSWR., 2008,,.		1
117	Antennae Polarization for Effective Transmission of UWB Signal around Human Body., 2007,,.		8
118	Optimization of Broadband Bandpass Filter Using Tapered Electromagnetic Bandgap Structures. , 2007, , .		1
119	Maximum Likelihood Processing for Arrays with Partially Unknown Sensor Gains and Phases. , 2007, , .		8
120	Optimal Direction Finding in Unknown Noise Environments Using Antenna Arrays in Wireless Sensor Networks. , 2007, , .		13
121	A Refined Genetic Algorithm for Accurate and Reliable DOA Estimation with a Sensor Array. Wireless Personal Communications, 2007, 43, 533-547.	2.7	33
122	A Special Operation Mode of BoomSAR in Application to Foliage Penetration Imaging. , 2006, , .		1
123	Target Detection and Identification with a Heterogeneous Sensor Network by Strategic Resource Allocation and Coordination. , 2006, , .		6
124	Dimension reduction for array processing with robust interference cancellation. IEEE Transactions on Aerospace and Electronic Systems, 2006, 42, 103-112.	4.7	37
125	Differential algebraic method for arbitrary-order chromatic aberration analysis of electrostatic lenses. Optik, 2006, 117, 196-198.	2.9	3
126	A new approach for ground moving target indication in foliage environment. Signal Processing, 2006, 86, 84-97.	3.7	15

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127	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.	1.2	2
128	Numerical analysis of PBG via structures using FDTD algorithm. Microelectronics International, 2006, 23, 4-9.	0.6	0
129	An experimental GSM based passive radar. , 2006, , .		1
130	Lightning Interference Cancellation in High-Frequency Surface Wave Radar., 2006,,.		2
131	Differential algebraic method for time of flight property of electrostatic electron lenses. Optik, 2005, 116, 411-414.	2.9	1
132	Particle swarm optimization and finite-element based approach for microwave filter design. IEEE Transactions on Magnetics, 2005, 41, 1800-1803.	2.1	54
133	Coupled Mode Analysis of Forward and Backward Coupling in Multiconductor Transmission Lines. IEEE Transactions on Electromagnetic Compatibility, 2005, 47, 463-470.	2.2	5
134	Compact bandpass filter design using folded coupled-line resonators. Microwave and Optical Technology Letters, 2005, 45, 32-35.	1.4	1
135	Analysis of photonic bandâ€gap structures in stratified medium. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2005, 24, 1191-1199.	0.9	0
136	Miniaturization of planar microwave filters with irregular geometries., 2005,,.		1
137	Radiation from a monopole antenna in front of a conducting cylinder. Radio Science, 2005, 40, n/a-n/a.	1.6	0
138	Analysis of photonic band-gap (PBG) structures using the FDTD method. Microwave and Optical Technology Letters, 2004, 41, 173-177.	1.4	6
139	Arbitrary planar microwave filter design by the EEM-GA approach. Microwave and Optical Technology Letters, 2004, 41, 276-279.	1.4	5
140	Differential Algebraic Method for Aberration Analysis of Electron Optical Systems. Lecture Notes in Computer Science, 2004, , 729-735.	1.3	0
141	Numerical studies of EBG structures printed on CPW lines. , 2004, , .		0
142	Ultra-wideband technology and random signal radar: an ideal combination. IEEE Aerospace and Electronic Systems Magazine, 2003, 18, 3-7.	1.3	16
143	Analytical evaluation of the asymptotic impedance matrix elements of asymmetric gap discontinuities on a uniaxial substrate., 2003,,.		0
144	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	O

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145	Differential algebraic method for arbitrary order curvilinear-axis combined geometricÂchromatic aberration analysis. Journal Physics D: Applied Physics, 2003, 36, 924-928.	2.8	3
146	Finline technology for millimeter-wave MEMS. , 2003, 5116, 523.		0
147	Data fusion of multiradar system by using genetic algorithm. IEEE Transactions on Aerospace and Electronic Systems, 2002, 38, 601-612.	4.7	20
148	The hybrid FEM-MOL approach for the analysis of scattering problems. Microwave and Optical Technology Letters, 2002, 34, 134-138.	1.4	1
149	An approach to identification of variances for radar tracking systems. Signal Processing, 2002, 82, 875-879.	3.7	0
150	Threshold optimization algorithm for weak signal in distributed-sensor fusion system. Signal Processing, 2002, 82, 1329-1336.	3.7	1
151	FINITE ELEMENT ANALYSIS OF PHOTONIC CRYSTAL FIBRES., 2002, , .		0
152	Combination of PML and ABC for scattering problem. IEEE Transactions on Magnetics, 2001, 37, 3510-3513.	2.1	9
153	The hybrid perfectly matched layer and finite element solution for open region problems. IEEE Transactions on Magnetics, 2000, 36, 1635-1639.	2.1	1
154	Array failure correction with a genetic algorithm. IEEE Transactions on Antennas and Propagation, 1999, 47, 823-828.	5.1	183
155	Analysis of microstrip antennas with complex and anisotropic substrate by a hybrid FEM/BEM approach. IEEE Transactions on Magnetics, 1998, 34, 3300-3303.	2.1	4
156	Accelerating Numerical Electromagnetic Code computation by using the wavelet transform. IEEE Transactions on Magnetics, 1998, 34, 3399-3402.	2.1	6
157	A study of the fast wavelet transform method in computational electromagnetics. IEEE Transactions on Magnetics, 1998, 34, 3323-3326.	2.1	3
158	Sidelobe reduction in array-pattern synthesis using genetic algorithm. IEEE Transactions on Antennas and Propagation, 1997, 45, 1117-1122.	5.1	369
159	An effective wavelet matrix transform approach for efficient solutions of electromagnetic integral equations. IEEE Transactions on Antennas and Propagation, 1997, 45, 1205-1213.	5.1	51
160	Modal analysis of multi-quantum-well waveguides using the vector finite element method. IEEE Transactions on Magnetics, 1996, 32, 926-929.	2.1	2
161	Electromagnetic and thermal simulations of 3-D human head model under RF radiation by using the FDTD and FD approaches. IEEE Transactions on Magnetics, 1996, 32, 1653-1656.	2.1	27
162	Electromagnetic dyadic Green's function in cylindrically multilayered media. IEEE Transactions on Microwave Theory and Techniques, 1996, 44, 614-621.	4.6	41

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163	Comments on "A new edge element analysis of dispersive waveguiding structures". IEEE Transactions on Microwave Theory and Techniques, 1996, 44, 1618-1619.	4.6	O
164	Vectorial finite element modelling of 2D leaky waveguides. IEEE Transactions on Magnetics, 1995, 31, 1710-1713.	2.1	58
165	Vector finite element analysis of integrated optical waveguides. IEEE Transactions on Magnetics, 1994, 30, 3116-3119.	2.1	7
166	The efficient solution of large sparse nonsymmetric and complex eigensystems by subspace iteration. IEEE Transactions on Magnetics, 1994, 30, 3582-3585.	2.1	10
167	Finite element analysis of complex modes in inhomogeneous waveguides. IEEE Transactions on Magnetics, 1993, 29, 1601-1604.	2.1	12
168	Finite element analysis of lossy dielectric waveguides. IEEE Transactions on Magnetics, 1993, 29, 1609-1612.	2.1	8
169	An efficient finite element solution of inhomogeneous anisotropic and lossy dielectric waveguides. IEEE Transactions on Microwave Theory and Techniques, 1993, 41, 1215-1223.	4.6	50
170	A variational finite element formulation for dielectric waveguides in terms of transverse magnetic fields. IEEE Transactions on Magnetics, 1991, 27, 3864-3867.	2.1	17
171	Finite element analsys of lossy dielectric waveguides. , 0, , .		0
172	An adaptive wavelet transform for solutions of electromagnetic integral equations. , 0, , .		1
173	Compound dipole with H-plane parasitic posts for phased array wide-angle wide-band scanning. , 0, , .		6
174	Toroidal helical antennas-analysis and optimisation., 0,,.		2
175	The efficient solution of arbitrary 2-D scattering problems by the cylindrical method of lines. , 0, , .		0
176	A novel method for CFAR data fusion. , 0, , .		1
177	Adaptive wide null steering for digital beamforming array with the complex coded genetic algorithm. , 0, , .		16
178	Optimal design of special corner reflector antennas by the real-coded genetic algorithm. , 0, , .		6
179	A novel threshold optimization for distributed OS-CFAR of multistatic radar systems by using the genetic algorithm. , 0, , .		2
180	A super resolution SAR imaging method based on CSA. , 0, , .		2

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181	CFAR data fusion of multistatic radar system under homogeneous and nonhomogeneous backgrounds. , 0, , .		0
182	The fast neural network solution for problems based on slow genetic algorithm solutions. , 0, , .		О
183	The combination of neural networks and genetic algorithm for fast and flexible wide nulling in digital beamforming. , 0, , .		4
184	Low frequency radar phenomenology study in equatorial vegetation \$preliminary results., 0,,.		5
185	Millimeter wave SPDT switch for giga-scale system. , 0, , .		0
186	Design and implementation of an experimental GSM based passive radar., 0,,.		19
187	Feasibility analysis of GSM signal for passive radar., 0, , .		24
188	Millimeter wave control switch for secure giga-scale system. , 0, , .		0
189	A broad-band top-cap monopole antenna. , 0, , .		5
190	Doppler frequency extraction of foliage penetration radar based on the Hilbert-Huang transform technology. , 0, , .		1
191	Exact Transient Field of a Horizontal Electric Dipole Excited by a Gaussian Pulse on the Boundary between Two Dielectrics. , 0, , .		0
192	Adaptive Array Digital Beamforming Using Complex-Coded Particle Swarm Optimization-Genetic Algorithm. , 0, , .		5
193	Sea and air moving target measurements using a GSM based passive radar., 0,,.		11
194	The Influence of Mutual Coupling in A Dual-Helical Antenna Array in Mobile Handsets for Mobile Communications. , 0, , .		1
195	Friction between Carbon Nanotube and Graphite using Molecular Dynamics. , 0, , .		0
196	A Comparison of Back-Projection and Range Migration Algorithms for Ultra-Wideband SAR Imaging. , 0,		1