

# Yilong Lu

## List of Publications by Year in Descending Order

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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.

121  
papers

1,469  
citations

20  
h-index

35  
g-index

198  
ext. papers

1,956  
ext. citations

2.7  
avg, IF

4.78  
L-index

#	Paper	IF	Citations
121	A Multi-Objective Quantum Genetic Algorithm for MIMO Radar Waveform Design. <i>Remote Sensing</i> , <b>2022</b> , 14, 2387	5	1
120	Temporal Series Crop Classification Study in Rural China Based on Sentinel-1 SAR Data. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , <b>2021</b> , 14, 2769-2780	4.7	2
119	PolSAR Data-Based Land Cover Classification Using Dual-Channel Watershed Region-Merging Segmentation and Bagging-ELM. <i>IEEE Geoscience and Remote Sensing Letters</i> , <b>2021</b> , 1-5	4.1	1
118	Ultrawideband Textile Antenna for Wearable Microwave Medical Imaging Applications. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2020</b> , 68, 4238-4249	4.9	35
117	Sign Language Recognition with CW Radar and Machine Learning <b>2020</b> ,		3
116	Building Extraction From PolSAR Image Based on Deep CNN with Polarimetric Features <b>2020</b> ,		1
115	Space-Time Event Clouds for Gesture Recognition: From RGB Cameras to Event Cameras <b>2019</b> ,		22
114	A Superwide Bandwidth Low-Profile Monocone Antenna With Dielectric Loading. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2019</b> , 67, 4173-4177	4.9	6
113	Wideband circular patch antenna with I-shaped structure for horizontal omnidirectional gain enhancement. <i>IET Microwaves, Antennas and Propagation</i> , <b>2019</b> , 13, 608-614	1.6	6
112	A Switchable or MIMO Antenna for V2X Communication <b>2019</b> ,		1
111	Data-Based Model for Wide Nulling Problem in Adaptive Digital Beamforming Antenna Array. <i>IEEE Antennas and Wireless Propagation Letters</i> , <b>2019</b> , 18, 2249-2253	3.8	9
110	Experimental Study on Moving Target Localization Using Dual Frequency Continuous Wave Radar <b>2019</b> ,		1
109	Temporal Series Crop Classification Study in Rural China Based on Sentinel-1 SAR Data <b>2019</b> ,		1
108	Low-profile patch antennas with enhanced horizontal omnidirectional gain for DSRC applications. <i>IET Microwaves, Antennas and Propagation</i> , <b>2018</b> , 12, 246-253	1.6	10
107	3D Pattern Optimization Using PSO for an Irregular Dual-Layer Circular Array <b>2018</b> ,		1
106	Classification and Tracking of Moving Objects from 77 GHz Automotive Radar Sensors <b>2018</b> ,		1
105	DOA Estimation With Enhanced DOFs by Exploiting Cyclostationarity. <i>IEEE Transactions on Signal Processing</i> , <b>2017</b> , 65, 1486-1496	4.8	10

104	DOA estimation based on multi-resolution difference co-array perspective <b>2017</b> , 62, 187-196		14
103	A low profile stepped wideband monocone antenna <b>2017</b> ,		4
102	Augmented Nested Arrays With Enhanced DOF and Reduced Mutual Coupling. <i>IEEE Transactions on Signal Processing</i> , <b>2017</b> , 65, 5549-5563	4.8	134
101	A Compact 3-Port Multiband Antenna for V2X Communication <b>2017</b> ,		4
100	Efficient beamforming using bat algorithm <b>2016</b> ,		7
99	Generalized design method for the difference co-array of the sum co-array <b>2016</b> ,		3
98	Autofocusing of UWB MIMO GPR Images by Using MZO and Entropy Minimization. <i>IEEE Geoscience and Remote Sensing Letters</i> , <b>2016</b> , 13, 661-665	4.1	2
97	Optimal Parameter Estimation Method of Internal Solitary Waves in SAR Images and the Cramér-Rao Bound. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2016</b> , 54, 3143-3150	8.1	6
96	Microwave imaging with random sparse array and compressed sensing for target detection <b>2015</b> ,		2
95	A 6.8GHz low-profile H-plane ridged SIW horn antenna <b>2015</b> ,		1
94	A comparative study of migration algorithms for UWB GPR images in SISO-SAR and MIMO-array configurations <b>2014</b> ,		4
93	Single transceiver-based time division multiplexing multiple-input-multiple-output digital beamforming radar system: concepts and experiments. <i>IET Radar, Sonar and Navigation</i> , <b>2014</b> , 8, 368-375 <sup>1.4</sup>		11
92	CPW-fed wearable textile L-shape patch antenna <b>2014</b> ,		2
91	Space-time interference analysis and suppression for airborne passive radar using transmissions of opportunity. <i>IET Radar, Sonar and Navigation</i> , <b>2014</b> , 8, 142-152	1.4	23
90	Multi-Resolution Composite Array for Digital Beamforming With High Angular-Resolution. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2014</b> , 62, 4377-4380	4.9	2
89	Signal processing for airborne passive radar <b>2014</b> ,		2
88	LIDAR Image Processing with Progressive Morphological Filtering. <i>International Journal of Computer Theory and Engineering</i> , <b>2012</b> , 971-974	0.1	
87	Signal analysis of airborne passive radar using transmissions of opportunity <b>2011</b> ,		4

86	. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2011</b> , 59, 1191-1199	4.9	47
85	Through-the-wall tomographic imaging using chirp signals <b>2011</b> ,		1
84	Sparse frequency waveform design based on PSD fitting <b>2011</b> ,		2
83	Dimensional Synthesis of Symmetric Wideband Waveguide Cross-Coupled Filters Without Global Full-Wave Optimization. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2010</b> ,	4.1	6
82	Using chirp signal for accurate RFID positioning <b>2010</b> ,		2
81	High resolution radar tomographic imaging using single-tone CW signals <b>2010</b> ,		8
80	Distributed reduced vector sensor for direction of arrival and polarization state estimation <b>2010</b> ,		1
79	Applications of passive surveillance radar system using cell phone base station illuminators. <i>IEEE Aerospace and Electronic Systems Magazine</i> , <b>2010</b> , 25, 10-18	2.4	21
78	Target detection performance analysis for airborne passive bistatic radar <b>2010</b> ,		11
77	An Experimental Study of WiMAX-Based Passive Radar. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2010</b> ,	4.1	13
76	Clutter Rank of STAP in MIMO Radar With Waveform Diversity. <i>IEEE Transactions on Signal Processing</i> , <b>2010</b> , 58, 938-943	4.8	26
75	Design of Wide-Band Pseudo-Elliptic Waveguide Filters With Cavity-Backed Inverters. <i>IEEE Microwave and Wireless Components Letters</i> , <b>2010</b> , 20, 604-606	2.6	3
74	. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , <b>2010</b> , 46, 929-938	3.7	28
73	Miniaturization of Planar Monopole Antenna for Ultrawideband Radios. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2010</b> , 58, 2420-2425	4.9	45
72	Distributed vector sensor cross product added with MUSIC for direction of arrival estimation <b>2010</b> ,		1
71	Fast detection and location of failed array elements using the fast SVM algorithm <b>2010</b> ,		2
70	Broadband HF antennas with distributed unbalanced load <b>2009</b> ,		1
69	Vector Sensor Cross-Product for Direction of Arrival Estimation <b>2009</b> ,		5

68	WiMAX signal generation based on MIMO-OFDM testbed for passive radar application <b>2009</b> ,		2
67	Fast array failure correction using improved particle swarm optimization <b>2009</b> ,		7
66	An experimental WiMAX based passive radar study <b>2009</b> ,		6
65	STAP performance analysis for MIMO radar with waveform diversity <b>2009</b> ,		1
64	Clutter rank Of MIMO radar with a speical class of waveforms <b>2009</b> ,		2
63	. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , <b>2009</b> , 45, 1361-1372	3.7	29
62	High Resolution MIMO-HFSWR Radar Using Sparse Frequency Waveforms. <i>Wireless Sensor Network</i> , <b>2009</b> , 01, 152-162	0.9	1
61	Aircraft target measurements using A GSM-based passive radar <b>2008</b> ,		4
60	GSM based through-the-wall passive radar demonstrator for motion sensing <b>2008</b> ,		3
59	. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , <b>2008</b> , 44, 1079-1090	3.7	49
58	45° linearly polarized substrate integrated waveguide-fed slot array antennas <b>2008</b> ,		1
57	Performance evaluation of radio frequency interference cancellation techniques in HFSWR <b>2008</b> ,		1
56	Design of 45-degree Linearly Polarized Substrate Integrated Waveguide-fed Slot Array Antennas. <i>Journal of Infrared, Millimeter and Terahertz Waves</i> , <b>2008</b> , 29, 1019-1027		7
55	Maximum Likelihood Processing for Arrays with Partially Unknown Sensor Gains and Phases <b>2007</b> ,		5
54	Optimal Direction Finding in Unknown Noise Environments Using Antenna Arrays in Wireless Sensor Networks <b>2007</b> ,		6
53	A Refined Genetic Algorithm for Accurate and Reliable DOA Estimation with a Sensor Array. <i>Wireless Personal Communications</i> , <b>2007</b> , 43, 533-547	1.9	21
52	Antennae Polarization for Effective Transmission of UWB Signal around Human Body <b>2007</b> ,		5
51	Design and analysis of integrated-circuit package antenna (ICPA) for dual-band wireless transceivers. <i>International Journal of RF and Microwave Computer-Aided Engineering</i> , <b>2006</b> , 16, 250-258	1.5	2

50	Numerical analysis of PBG via structures using FDTD algorithm. <i>Microelectronics International</i> , <b>2006</b> , 23, 4-9	0.8	
49	Lightning Interference Cancellation in High-Frequency Surface Wave Radar <b>2006</b> ,		2
48	Target Detection and Identification with a Heterogeneous Sensor Network by Strategic Resource Allocation and Coordination <b>2006</b> ,		3
47	. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , <b>2006</b> , 42, 103-112	3.7	23
46	Differential algebraic method for arbitrary-order chromatic aberration analysis of electrostatic lenses. <i>Optik</i> , <b>2006</b> , 117, 196-198	2.5	1
45	A new approach for ground moving target indication in foliage environment. <i>Signal Processing</i> , <b>2006</b> , 86, 84-97	4.4	11
44	Differential algebraic method for time of flight property of electrostatic electron lenses. <i>Optik</i> , <b>2005</b> , 116, 411-414	2.5	1
43	Particle swarm optimization and finite-element based approach for microwave filter design. <i>IEEE Transactions on Magnetics</i> , <b>2005</b> , 41, 1800-1803	2	45
42	Coupled mode analysis of forward and backward coupling in multiconductor transmission lines. <i>IEEE Transactions on Electromagnetic Compatibility</i> , <b>2005</b> , 47, 463-470	2	3
41	Compact bandpass filter design using folded coupled-line resonators. <i>Microwave and Optical Technology Letters</i> , <b>2005</b> , 45, 32-35	1.2	0
40	Analysis of photonic band-gap structures in stratified medium. <i>COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering</i> , <b>2005</b> , 24, 1191-1199	0.7	
39	Miniaturization of planar microwave filters with irregular geometries <b>2005</b> ,		1
38	Analysis of photonic band-gap (PBG) structures using the FDTD method. <i>Microwave and Optical Technology Letters</i> , <b>2004</b> , 41, 173-177	1.2	4
37	Arbitrary planar microwave filter design by the EEM-GA approach. <i>Microwave and Optical Technology Letters</i> , <b>2004</b> , 41, 276-279	1.2	4
36	Differential Algebraic Method for Aberration Analysis of Electron Optical Systems. <i>Lecture Notes in Computer Science</i> , <b>2004</b> , 729-735	0.9	
35	Differential algebraic theory and calculation for arbitrary high order aberrations of a bipotential electrostatic lens. <i>Journal of Vacuum Science &amp; Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , <b>2003</b> , 21, 2038		
34	Differential algebraic method for arbitrary order curvilinear-axis combined geometric-chromatic aberration analysis. <i>Journal Physics D: Applied Physics</i> , <b>2003</b> , 36, 924-928	3	1
33	Ultra-wideband technology and random signal radar: an ideal combination. <i>IEEE Aerospace and Electronic Systems Magazine</i> , <b>2003</b> , 18, 3-7	2.4	15

32	The hybrid FEM/MOL approach for the analysis of scattering problems. <i>Microwave and Optical Technology Letters</i> , <b>2002</b> , 34, 134-138	1.2	1
31	An approach to identification of variances for radar tracking systems. <i>Signal Processing</i> , <b>2002</b> , 82, 875-879	4.4	4
30	Threshold optimization algorithm for weak signal in distributed-sensor fusion system. <i>Signal Processing</i> , <b>2002</b> , 82, 1329-1336	4.4	1
29	. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , <b>2002</b> , 38, 601-612	3.7	11
28	Combination of PML and ABC for scattering problem. <i>IEEE Transactions on Magnetics</i> , <b>2001</b> , 37, 3510-3513	4.4	4
27	The hybrid perfectly matched layer and finite element solution for open region problems. <i>IEEE Transactions on Magnetics</i> , <b>2000</b> , 36, 1635-1639	2	0
26	Array failure correction with a genetic algorithm. <i>IEEE Transactions on Antennas and Propagation</i> , <b>1999</b> , 47, 823-828	4.9	120
25	Analysis of microstrip antennas with complex and anisotropic substrate by a hybrid FEM/BEM approach. <i>IEEE Transactions on Magnetics</i> , <b>1998</b> , 34, 3300-3303	2	4
24	Accelerating Numerical Electromagnetic Code computation by using the wavelet transform. <i>IEEE Transactions on Magnetics</i> , <b>1998</b> , 34, 3399-3402	2	5
23	A study of the fast wavelet transform method in computational electromagnetics. <i>IEEE Transactions on Magnetics</i> , <b>1998</b> , 34, 3323-3326	2	2
22	Sidelobe reduction in array-pattern synthesis using genetic algorithm. <i>IEEE Transactions on Antennas and Propagation</i> , <b>1997</b> , 45, 1117-1122	4.9	252
21	An effective wavelet matrix transform approach for efficient solutions of electromagnetic integral equations. <i>IEEE Transactions on Antennas and Propagation</i> , <b>1997</b> , 45, 1205-1213	4.9	37
20	Modal analysis of multi-quantum-well waveguides using the vector finite element method. <i>IEEE Transactions on Magnetics</i> , <b>1996</b> , 32, 926-929	2	1
19	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> , <b>1996</b> , 32, 1653-1656	2	18
18	Electromagnetic dyadic Green's function in cylindrically multilayered media. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>1996</b> , 44, 614-621	4.1	27
17	Comments on "A new edge element analysis of dispersive waveguiding structures". <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>1996</b> , 44, 1618-1619	4.1	1
16	. <i>IEEE Transactions on Magnetics</i> , <b>1995</b> , 31, 1710-1713	2	37
15	. <i>IEEE Transactions on Magnetics</i> , <b>1994</b> , 30, 3116-3119	2	7

14	. <i>IEEE Transactions on Magnetics</i> , <b>1994</b> , 30, 3582-3585	2	8
13	. <i>IEEE Transactions on Magnetics</i> , <b>1993</b> , 29, 1601-1604	2	6
12	. <i>IEEE Transactions on Magnetics</i> , <b>1993</b> , 29, 1609-1612	2	7
11	. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>1993</b> , 41, 1215-1223	4.1	45
10	. <i>IEEE Transactions on Magnetics</i> , <b>1991</b> , 27, 3864-3867	2	14
9			10
8	A broad-band top-cap monopole antenna		1
7	Feasibility analysis of GSM signal for passive radar		10
6	A super resolution SAR imaging method based on CSA		2
5	The combination of neural networks and genetic algorithm for fast and flexible wide nulling in digital beamforming		2
4	Adaptive wide null steering for digital beamforming array with the complex coded genetic algorithm		1
3	Optimal design of special corner reflector antennas by the real-coded genetic algorithm		1
2	Compound dipole with H-plane parasitic posts for phased array wide-angle wide-band scanning		5
1	Multi-Modality Translation from SAR Image to Optical Image for Remote Sensing Applications		