

Yilong Lu

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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	Sidelobe reduction in array-pattern synthesis using genetic algorithm. <i>IEEE Transactions on Antennas and Propagation</i> , 1997 , 45, 1117-1122	4.9	252
120	Augmented Nested Arrays With Enhanced DOF and Reduced Mutual Coupling. <i>IEEE Transactions on Signal Processing</i> , 2017 , 65, 5549-5563	4.8	134
119	Array failure correction with a genetic algorithm. <i>IEEE Transactions on Antennas and Propagation</i> , 1999 , 47, 823-828	4.9	120
118	. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , 2008 , 44, 1079-1090	3.7	49
117	. <i>IEEE Transactions on Antennas and Propagation</i> , 2011 , 59, 1191-1199	4.9	47
116	Miniaturization of Planar Monopole Antenna for Ultrawideband Radios. <i>IEEE Transactions on Antennas and Propagation</i> , 2010 , 58, 2420-2425	4.9	45
115	Particle swarm optimization and finite-element based approach for microwave filter design. <i>IEEE Transactions on Magnetics</i> , 2005 , 41, 1800-1803	2	45
114	. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 1993 , 41, 1215-1223	4.1	45
113	An effective wavelet matrix transform approach for efficient solutions of electromagnetic integral equations. <i>IEEE Transactions on Antennas and Propagation</i> , 1997 , 45, 1205-1213	4.9	37
112	. <i>IEEE Transactions on Magnetics</i> , 1995 , 31, 1710-1713	2	37
111	Ultrawideband Textile Antenna for Wearable Microwave Medical Imaging Applications. <i>IEEE Transactions on Antennas and Propagation</i> , 2020 , 68, 4238-4249	4.9	35
110	. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , 2009 , 45, 1361-1372	3.7	29
109	. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , 2010 , 46, 929-938	3.7	28
108	Electromagnetic dyadic Green's function in cylindrically multilayered media. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 1996 , 44, 614-621	4.1	27
107	Clutter Rank of STAP in MIMO Radar With Waveform Diversity. <i>IEEE Transactions on Signal Processing</i> , 2010 , 58, 938-943	4.8	26
106	Space-time interference analysis and suppression for airborne passive radar using transmissions of opportunity. <i>IET Radar, Sonar and Navigation</i> , 2014 , 8, 142-152	1.4	23
105	. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , 2006 , 42, 103-112	3.7	23

104	Space-Time Event Clouds for Gesture Recognition: From RGB Cameras to Event Cameras 2019 ,		22
103	Applications of passive surveillance radar system using cell phone base station illuminators. <i>IEEE Aerospace and Electronic Systems Magazine</i> , 2010 , 25, 10-18	2.4	21
102	A Refined Genetic Algorithm for Accurate and Reliable DOA Estimation with a Sensor Array. <i>Wireless Personal Communications</i> , 2007 , 43, 533-547	1.9	21
101	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	2	18
100	Ultra-wideband technology and random signal radar: an ideal combination. <i>IEEE Aerospace and Electronic Systems Magazine</i> , 2003 , 18, 3-7	2.4	15
99	DOA estimation based on multi-resolution difference co-array perspective 2017 , 62, 187-196		14
98	. <i>IEEE Transactions on Magnetics</i> , 1991 , 27, 3864-3867	2	14
97	An Experimental Study of WiMAX-Based Passive Radar. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2010 ,	4.1	13
96	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 ^{1.4}		11
95	Target detection performance analysis for airborne passive bistatic radar 2010 ,		11
94	A new approach for ground moving target indication in foliage environment. <i>Signal Processing</i> , 2006 , 86, 84-97	4.4	11
93	. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , 2002 , 38, 601-612	3.7	11
92	DOA Estimation With Enhanced DOFs by Exploiting Cyclostationarity. <i>IEEE Transactions on Signal Processing</i> , 2017 , 65, 1486-1496	4.8	10
91	Low-profile patch antennas with enhanced horizontal omnidirectional gain for DSRC applications. <i>IET Microwaves, Antennas and Propagation</i> , 2018 , 12, 246-253	1.6	10
90			10
89	Feasibility analysis of GSM signal for passive radar		10
88	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	3.8	9
87	High resolution radar tomographic imaging using single-tone CW signals 2010 ,		8

86	. <i>IEEE Transactions on Magnetics</i> , 1994 , 30, 3582-3585	2	8
85	Efficient beamforming using bat algorithm 2016 ,		7
84	Fast array failure correction using improved particle swarm optimization 2009 ,		7
83	Design of 45-degree Linearly Polarized Substrate Integrated Waveguide-fed Slot Array Antennas. <i>Journal of Infrared, Millimeter and Terahertz Waves</i> , 2008 , 29, 1019-1027		7
82	. <i>IEEE Transactions on Magnetics</i> , 1994 , 30, 3116-3119	2	7
81	. <i>IEEE Transactions on Magnetics</i> , 1993 , 29, 1609-1612	2	7
80	A Superwide Bandwidth Low-Profile Monocone Antenna With Dielectric Loading. <i>IEEE Transactions on Antennas and Propagation</i> , 2019 , 67, 4173-4177	4.9	6
79	Wideband circular patch antenna with I-shaped structure for horizontal omnidirectional gain enhancement. <i>IET Microwaves, Antennas and Propagation</i> , 2019 , 13, 608-614	1.6	6
78	Dimensional Synthesis of Symmetric Wideband Waveguide Cross-Coupled Filters Without Global Full-Wave Optimization. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2010 ,	4.1	6
77	An experimental WiMAX based passive radar study 2009 ,		6
76	Optimal Direction Finding in Unknown Noise Environments Using Antenna Arrays in Wireless Sensor Networks 2007 ,		6
75	. <i>IEEE Transactions on Magnetics</i> , 1993 , 29, 1601-1604	2	6
74	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> , 2016 , 54, 3143-3150	8.1	6
73	Vector Sensor Cross-Product for Direction of Arrival Estimation 2009 ,		5
72	Maximum Likelihood Processing for Arrays with Partially Unknown Sensor Gains and Phases 2007 ,		5
71	Antennae Polarization for Effective Transmission of UWB Signal around Human Body 2007 ,		5
70	Accelerating Numerical Electromagnetic Code computation by using the wavelet transform. <i>IEEE Transactions on Magnetics</i> , 1998 , 34, 3399-3402	2	5
69	Compound dipole with H-plane parasitic posts for phased array wide-angle wide-band scanning		5

68	A low profile stepped wideband monocone antenna 2017 ,		4
67	A comparative study of migration algorithms for UWB GPR images in SISO-SAR and MIMO-array configurations 2014 ,		4
66	A Compact 3-Port Multiband Antenna for V2X Communication 2017 ,		4
65	Signal analysis of airborne passive radar using transmissions of opportunity 2011 ,		4
64	Aircraft target measurements using A GSM-based passive radar 2008 ,		4
63	Analysis of photonic band-gap (PBG) structures using the FDTD method. <i>Microwave and Optical Technology Letters</i> , 2004 , 41, 173-177	1.2	4
62	Arbitrary planar microwave filter design by the EEM-GA approach. <i>Microwave and Optical Technology Letters</i> , 2004 , 41, 276-279	1.2	4
61	Combination of PML and ABC for scattering problem. <i>IEEE Transactions on Magnetics</i> , 2001 , 37, 3510-3513		4
60	Analysis of microstrip antennas with complex and anisotropic substrate by a hybrid FEM/BEM approach. <i>IEEE Transactions on Magnetics</i> , 1998 , 34, 3300-3303	2	4
59	Design of Wide-Band Pseudo-Elliptic Waveguide Filters With Cavity-Backed Inverters. <i>IEEE Microwave and Wireless Components Letters</i> , 2010 , 20, 604-606	2.6	3
58	GSM based through-the-wall passive radar demonstrator for motion sensing 2008 ,		3
57	Target Detection and Identification with a Heterogeneous Sensor Network by Strategic Resource Allocation and Coordination 2006 ,		3
56	Coupled mode analysis of forward and backward coupling in multiconductor transmission lines. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2005 , 47, 463-470	2	3
55	Sign Language Recognition with CW Radar and Machine Learning 2020 ,		3
54	Generalized design method for the difference co-array of the sum co-array 2016 ,		3
53	Microwave imaging with random sparse array and compressed sensing for target detection 2015 ,		2
52	CPW-fed wearable textile L-shape patch antenna 2014 ,		2
51	Multi-Resolution Composite Array for Digital Beamforming With High Angular-Resolution. <i>IEEE Transactions on Antennas and Propagation</i> , 2014 , 62, 4377-4380	4.9	2

50	Signal processing for airborne passive radar 2014 ,		2
49	Using chirp signal for accurate RFID positioning 2010 ,		2
48	Fast detection and location of failed array elements using the fast SVM algorithm 2010 ,		2
47	WiMAX signal generation based on MIMO-OFDM testbed for passive radar application 2009 ,		2
46	Sparse frequency waveform design based on PSD fitting 2011 ,		2
45	Clutter rank Of MIMO radar with a speical class of waveforms 2009 ,		2
44	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> , 2006 , 16, 250-258	1.5	2
43	Lightning Interference Cancellation in High-Frequency Surface Wave Radar 2006 ,		2
42	A super resolution SAR imaging method based on CSA		2
41	The combination of neural networks and genetic algorithm for fast and flexible wide nulling in digital beamforming		2
40	A study of the fast wavelet transform method in computational electromagnetics. <i>IEEE Transactions on Magnetics</i> , 1998 , 34, 3323-3326	2	2
39	Autofocusing of UWB MIMO GPR Images by Using MZO and Entropy Minimization. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2016 , 13, 661-665	4.1	2
38	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> , 2021 , 14, 2769-2780	4.7	2
37	A Switchable or MIMO Antenna for V2X Communication 2019 ,		1
36	Experimental Study on Moving Target Localization Using Dual Frequency Continuous Wave Radar 2019 ,		1
35	A 6.8GHz low-profile H-plane ridged SIW horn antenna 2015 ,		1
34	Distributed reduced vector sensor for direction of arrival and polarization state estimation 2010 ,		1
33	Distributed vector sensor cross product added with MUSIC for direction of arrival estimation 2010 ,		1

32	Broadband HF antennas with distributed unbalanced load 2009 ,		1
31	Through-the-wall tomographic imaging using chirp signals 2011 ,		1
30	STAP performance analysis for MIMO radar with waveform diversity 2009 ,		1
29	45° linearly polarized substrate integrated waveguide-fed slot array antennas 2008 ,		1
28	Performance evaluation of radio frequency interference cancellation techniques in HFSWR 2008 ,		1
27	Differential algebraic method for arbitrary-order chromatic aberration analysis of electrostatic lenses. <i>Optik</i> , 2006 , 117, 196-198	2.5	1
26	Differential algebraic method for arbitrary order curvilinear-axis combined geometric chromatic aberration analysis. <i>Journal Physics D: Applied Physics</i> , 2003 , 36, 924-928	3	1
25	A broad-band top-cap monopole antenna		1
24	The hybrid FEMMOL approach for the analysis of scattering problems. <i>Microwave and Optical Technology Letters</i> , 2002 , 34, 134-138	1.2	1
23	Threshold optimization algorithm for weak signal in distributed-sensor fusion system. <i>Signal Processing</i> , 2002 , 82, 1329-1336	4.4	1
22	Differential algebraic method for time of flight property of electrostatic electron lenses. <i>Optik</i> , 2005 , 116, 411-414	2.5	1
21	Miniaturization of planar microwave filters with irregular geometries 2005 ,		1
20	Adaptive wide null steering for digital beamforming array with the complex coded genetic algorithm		1
19	Optimal design of special corner reflector antennas by the real-coded genetic algorithm		1
18	Modal analysis of multi-quantum-well waveguides using the vector finite element method. <i>IEEE Transactions on Magnetics</i> , 1996 , 32, 926-929	2	1
17	Building Extraction From PolSAR Image Based on Deep CNN with Polarimetric Features 2020 ,		1
16	High Resolution MIMO-HFSWR Radar Using Sparse Frequency Waveforms. <i>Wireless Sensor Network</i> , 2009 , 01, 152-162	0.9	1
15	Temporal Series Crop Classification Study in Rural China Based on Sentinel-1 SAR Data 2019 ,		1

14	PolSAR Data-Based Land Cover Classification Using Dual-Channel Watershed Region-Merging Segmentation and Bagging-ELM. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2021 , 1-5	4.1	1
13	3D Pattern Optimization Using PSO for an Irregular Dual-Layer Circular Array 2018 ,		1
12	Classification and Tracking of Moving Objects from 77 GHz Automotive Radar Sensors 2018 ,		1
11	A Multi-Objective Quantum Genetic Algorithm for MIMO Radar Waveform Design. <i>Remote Sensing</i> , 2022 , 14, 2387	5	1
10	Compact bandpass filter design using folded coupled-line resonators. <i>Microwave and Optical Technology Letters</i> , 2005 , 45, 32-35	1.2	0
9	The hybrid perfectly matched layer and finite element solution for open region problems. <i>IEEE Transactions on Magnetics</i> , 2000 , 36, 1635-1639	2	0
8	Numerical analysis of PBG via structures using FDTD algorithm. <i>Microelectronics International</i> , 2006 , 23, 4-9	0.8	
7	Differential algebraic theory and calculation for arbitrary high order aberrations of a bipotential electrostatic lens. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2003 , 21, 2038		
6	An approach to identification of variances for radar tracking systems. <i>Signal Processing</i> , 2002 , 82, 875-879	1.4	
5	Differential Algebraic Method for Aberration Analysis of Electron Optical Systems. <i>Lecture Notes in Computer Science</i> , 2004 , 729-735	0.9	
4	Analysis of photonic band-gap structures in stratified medium. <i>COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering</i> , 2005 , 24, 1191-1199	0.7	
3	Comments on "A new edge element analysis of dispersive waveguiding structures". <i>IEEE Transactions on Microwave Theory and Techniques</i> , 1996 , 44, 1618-1619	4.1	
2	Multi-Modality Translation from SAR Image to Optical Image for Remote Sensing Applications		
1	LIDAR Image Processing with Progressive Morphological Filtering. <i>International Journal of Computer Theory and Engineering</i> , 2012 , 971-974	0.1	