

Yuanxun Ethan Wang

List of Publications by Citations

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125
papers

1,549
citations

18
h-index

34
g-index

177
ext. papers

2,102
ext. citations

3.4
avg. IF

4.93
L-index

#	Paper	IF	Citations
125	. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , 1998 , 34, 670-677	3.7	156
124	Nonreciprocal Components With Distributedly Modulated Capacitors. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2014 , 62, 2260-2272	4.1	143
123	A $\text{\$Ka\$}$ -Band FMCW Radar Front-End With Adaptive Leakage Cancellation. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2006 , 54, 4041-4048	4.1	99
122	Bulk Acoustic Wave-Mediated Multiferroic Antennas: Architecture and Performance Bound. <i>IEEE Transactions on Antennas and Propagation</i> , 2015 , 63, 3335-3344	4.9	73
121	A smart antenna receiver array using a single RF channel and digital beamforming. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2002 , 50, 3052-3058	4.1	58
120	Ultra-Wide Band Non-reciprocity through Sequentially-Switched Delay Lines. <i>Scientific Reports</i> , 2017 , 7, 40014	4.9	52
119	Link Budget and Capacity Performance of Inductively Coupled Resonant Loops. <i>IEEE Transactions on Antennas and Propagation</i> , 2012 , 60, 2453-2461	4.9	49
118	Capacity performance of an inductively coupled near field communication system 2008 ,		42
117	Theory of Switched RF Resonators. <i>IEEE Transactions on Circuits and Systems Part 1: Regular Papers</i> , 2006 , 53, 2521-2528		41
116	An unconditionally stable extended (USE) finite-element time-domain solution of active nonlinear microwave circuits using perfectly matched layers. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2002 , 50, 2226-2232	4.1	41
115	A novel smart antenna system implementation for broad-band wireless communications. <i>IEEE Transactions on Antennas and Propagation</i> , 2002 , 50, 600-606	4.9	40
114	Mode-Based Information Channels in Closely Coupled Dipole Pairs. <i>IEEE Transactions on Antennas and Propagation</i> , 2008 , 56, 3804-3811	4.9	34
113	A full duplex capable retrodirective array system for high-speed beam tracking and pointing applications. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2004 , 52, 1479-1489	4.1	33
112	Smart antennas based on spatial multiplexing of local elements (SMILE) for mutual coupling reduction. <i>IEEE Transactions on Antennas and Propagation</i> , 2004 , 52, 106-114	4.9	32
111	A compact digital beamforming SMILE array for mobile communications. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2004 , 52, 2732-2738	4.1	28
110	A high-speed adaptive antenna array with simultaneous multibeam-forming capability. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2003 , 51, 2483-2494	4.1	23
109	Broadband Parametric Circulator with Balanced Monolithic Integrated Distributedly Modulated Capacitors (DMC) 2016 ,		19

108	Direct Antenna Modulation (DAM) for Enhanced Capacity Performance of Near-Field Communication (NFC) Link. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2014 , 61, 902-910	3.9	18
107	High Efficiency WCDMA Power Amplifier With Pulsed Load Modulation (PLM). <i>IEEE Journal of Solid-State Circuits</i> , 2010 , 45, 2030-2037	5.5	18
106	A direct antenna modulation (DAM) transmitter with a switched electrically small antenna 2010 ,		17
105	A frequency-controlled active phased array. <i>IEEE Microwave and Wireless Components Letters</i> , 2004 , 14, 115-117	2.6	16
104	Full-Duplex RF Front Ends : From Antennas and Circulators to Leakage Cancellation. <i>IEEE Microwave Magazine</i> , 2019 , 20, 44-55	1.2	16
103	Integrated antenna with direct conversion circuitry for broad-band millimeter-wave communications. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2003 , 51, 1482-1488	4.1	15
102	A frequency-aspect extrapolation algorithm for ISAR image simulation based on two-dimensional ESPRIT. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2000 , 38, 1743-1748	8.1	15
101	Coupling Electromagnetic Waves to Spin Waves: A Physics-Based Nonlinear Circuit Model for Frequency-Selective Limiters. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2019 , 67, 3221-3229	4.1	14
100	Digital wireless sensor server using an adaptive smart-antenna/retrodirective array. <i>IEEE Transactions on Vehicular Technology</i> , 2003 , 52, 1181-1188	6.8	14
99	Pulsed Load Modulation (PLM) Technique for Efficient Power Amplification. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2008 , 55, 1011-1015	3.5	13
98	A Polar Delta-Sigma Modulation (PDSM) Scheme for High Efficiency Wireless Transmitters. <i>IEEE MTT-S International Microwave Symposium Digest IEEE MTT-S International Microwave Symposium</i> , 2007 ,		13
97	Envelope-finite-element (EVFE) technique - a more efficient time-domain scheme. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2001 , 49, 2241-2247	4.1	13
96	A class-S RF amplifier architecture with envelope delta-sigma modulation		13
95	Design and Analysis of a 94-GHz CMOS Down-Conversion Mixer With CCPT-RL-Based IF Load. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2019 , 66, 3148-3161	3.9	12
94	. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2018 , 66, 2683-2696	4.1	12
93	Parametric conversion with distributedly modulated capacitors (DMC) for low-noise and non-reciprocal RF front-ends 2013 ,		12
92	. <i>IEEE Journal on Multiscale and Multiphysics Computational Techniques</i> , 2020 , 5, 5-18	1.5	11
91	Power level-dependent dual-operating mode LDMOS power amplifier for CDMA wireless base-station applications. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2005 , 53, 739-746	4.1	11

90	Directly modulated spinning magnet arrays for ULF communications 2018 ,		10
89	Going beyond Chu harrington limit: ULF radiation with a spinning magnet array 2017 ,		10
88	Magnetic Pendulum Arrays for Efficient ULF Transmission. <i>Scientific Reports</i> , 2019 , 9, 13220	4.9	9
87	A novel planar array smart antenna system with hybrid analog-digital beamforming		9
86	3D ADI-FDTD modeling of platform reduction with thin film ferromagnetic material 2016 ,		9
85	Experimental demonstration and operating principles of a multiferroic antenna. <i>Journal of Applied Physics</i> , 2019 , 126, 224104	2.5	9
84	Integrated time-varying electromagnetic devices for ultra-wide band nonreciprocity 2018 ,		8
83	Time-varying transmission lines (TVTL) - A new pathway to non-reciprocal and intelligent RF front-ends 2014 ,		8
82	A modified QPSK modulation technique for direct antenna modulation (DAM) systems 2014 ,		8
81	A frequency-controlled beam-steering array with mixing frequency compensation for multichannel applications. <i>IEEE Transactions on Antennas and Propagation</i> , 2004 , 52, 1039-1048	4.9	8
80	Efficient radar signature prediction using a frequency-aspect interpolation technique based on adaptive feature extraction. <i>IEEE Transactions on Antennas and Propagation</i> , 2002 , 50, 122-131	4.9	8
79	A practical scheme for envelope delta-sigma modulated (EDSM) microwave power amplifier. <i>Microwave and Optical Technology Letters</i> , 2004 , 43, 491-495	1.2	7
78	. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2002 , 50, 3059-3063	4.1	7
77	Enhancing the soft magnetic properties of FeGa with a non-magnetic underlayer for microwave applications. <i>Applied Physics Letters</i> , 2020 , 116, 222404	3.4	6
76	Underlayer effect on the soft magnetic, high frequency, and magnetostrictive properties of FeGa thin films. <i>Journal of Applied Physics</i> , 2020 , 128, 013903	2.5	6
75	Millimeter-wave to microwave MIMO relays (M4R) for 5G building penetration communications 2018 ,		6
74	Multimode parameter extraction for multiconductor transmission lines via single-pass FDTD and signal-processing techniques. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 1998 , 46, 89-96	4.1	6
73	A planar multipolar antenna for MIMO applications 2007 ,		6

72	Efficient analysis of microwave passive structures using 3-D envelope-finite element (EVFE). <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2002 , 50, 2721-2727	4.1	6
71	A frequency autonomous retrodirective array transponder		6
70	A smart antenna receiver array using a single RF channel and digital beamforming		6
69	Additive Manufacturing with Strontium Hexaferrite-Photoresist Composite. <i>IEEE Transactions on Magnetics</i> , 2020 , 1-1	2	5
68	Two-Dimensional Planar Array for Digital Beamforming and Direction-of-Arrival Estimations. <i>IEEE Transactions on Vehicular Technology</i> , 2009 , 58, 3137-3144	6.8	5
67	A digital leakage cancellation scheme for monostatic FMCW radar		5
66	Magnetic Pendulum Arrays for ULF Transmission 2018 ,		5
65	High Efficiency Bandwidth Electrically Small Antennas for Compact Wireless Communication Systems 2019 ,		4
64	Transmit-receive (T/R) isolation enhancement with an indented antenna array 2015 ,		4
63	Frequency translational RF receiver with time varying transmission lines (TVTL) 2017 ,		4
62	A high efficiency WCDMA power amplifier with Pulsed Load Modulation (PLM) 2010 ,		4
61	A "Zoom-in" Scanning Array for Wireless Communications 2007 ,		4
60	Wideband Pulse Transmission from Switched Electrically Small Antennas 2007 ,		4
59	Direct antenna modulation - a promise for ultra-wideband (UWB) transmitting		4
58	An improved Kahn transmitter architecture based on delta-sigma modulation		4
57	An equivalence principle-based plane wave excitation in time/envelope-domain finite-element analysis. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2003 , 2, 337-340	3.8	4
56	A novel K-band frequency-controlled beam-steering quasi-Yagi array with mixing frequency compensation		4
55	High Efficiency Bandwidth VHF Electrically Small Antennas Through Direct Antenna Modulation. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2020 , 68, 5029-5041	4.1	4

54	Frequency conversion through nonlinear mixing in acoustic waves. <i>Journal of Applied Physics</i> , 2020 , 128, 064105	2.5	4
53	Enabling High Efficiency Bandwidth Electrically Small Antennas through Direct Antenna Modulation 2019 ,		4
52	Efficient ULF Transmission Utilizing Stacked Magnetic Pendulum Array (MPA). <i>IEEE Transactions on Antennas and Propagation</i> , 2021 , 1-1	4.9	4
51	Indented Antenna Arrays for High Isolation: The Growing Interest in Simultaneous-Transmit-and-Receive-Based Full-Duplex Communication Systems. <i>IEEE Antennas and Propagation Magazine</i> , 2018 , 60, 72-80	1.7	3
50	A nonreciprocal, frequency-tunable notch amplifier based on Distributedly Modulated Capacitors (DMC) 2016 ,		3
49	On Time-Modulation-Enabled Nonreciprocity. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2018 , 17, 1973-1977	3.8	3
48	Adaptive Communications with Swarm Aperture 2019 ,		3
47	Frequency shift keying for direct antenna modulation (DAM) with electrically small antenna 2017 ,		3
46	Tunable RF bandpass filter for interference suppression in software defined radios 2017 ,		3
45	Direct Antenna Modulation scheme for enhanced capacity performance of near-field communication link 2012 ,		3
44	A broadband beamformer for millimeter-wave systems using sub-band sampling		3
43	A radar target transceiver using a full duplex capable retrodirective array system		3
42	A 60 GHz integrated antenna array for high-speed digital beamforming applications		3
41	Millimeter wave direct quadrature converter integrated with antenna for broad-band wireless communications;		3
40	A model-based angular extrapolation technique for iterative method-of-moments solvers. <i>Microwave and Optical Technology Letters</i> , 1999 , 20, 229-233	1.2	3
39	. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2020 , 68, 4479-4490	4.1	3
38	An S-Band Pulsed Load Modulation Transmitter With Multilevel Envelope Delta-Sigma Modulations. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2016 , 64, 3643-3653	4.1	3
37	A pulsed load modulation (PLM) power amplifier with 3-level envelope delta-sigma modulation (EDSM) 2015 ,		2

36	Indented quasi-Yagi antenna array for high-isolation full-duplex radios 2015 ,		2
35	Dual-band isotropic radiation patterns from a printed electrically small loop-loaded dipole antenna. <i>Digest / IEEE Antennas and Propagation Society International Symposium</i> , 2009 ,		2
34	A new circuit topology for continuous group delay synthesis. <i>IEEE Microwave and Wireless Components Letters</i> , 2002 , 12, 85-87	2.6	2
33	Extraction of higher-order modes in open microstrip lines via FDTD and joint time-frequency analysis. <i>Microwave and Optical Technology Letters</i> , 1996 , 13, 319-321	1.2	2
32	Ferromagnetic Resonance Enhanced Electrically Small Antennas. <i>IEEE Transactions on Antennas and Propagation</i> , 2021 , 1-1	4.9	2
31	Multipath Mitigation Using Weight Suppression for Equalization in Indoor Positioning Systems 2018 ,		2
30	Active Noise Filtering for $\text{\$X\$}$ -Band GaN Transmitters With Bitstream Modulations. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2017 , 65, 1372-1380	4.1	1
29	3D Finite-Difference Time-Domain (FDTD) Modeling of Nonlinear RF Thin Film Magnetic Devices 2019 ,		1
28	Monolithically Integrated Parametric Mixers with Time-varying Transmission Lines (TVTL) 2019 ,		1
27	FDTD analysis of platform effect reduction with thin film ferrite 2015 ,		1
26	Indented antenna array for full-duplex repeater 2015 ,		1
25	A Pulsed Load Modulation (PLM) Power Amplifier with 0.35 μm pHEMT Technology 2009 ,		1
24	Analysis and experimental results for an inductively coupled near-field power transmission system 2012 ,		1
23	Impact of receiver coil misalignment on near-field communication system performance 2012 ,		1
22	The folded dipole perspective of electrical small spherical helix antennas 2008 ,		1
21	On the limit of wireless communication capacity from polarization diversity 2006 ,		1
20	A UWB Pulse Transmission Scheme - Switched Resonant Antenna 2006 ,		1
19	A self-calibration antenna array system with moving apertures		1

18	A high-speed adaptive antenna array with simultaneous multiple-beamforming capability		1
17	A single RF channel smart antenna receiver array with digital beamforming for WLAN application		1
16	High performance SMILE arrays through an energy efficient multiplexer		1
15	Integrated adaptive beamforming antennas for wireless communications		1
14	Enhanced Planar Antenna Efficiency Through Magnetic Thin-Films. <i>IEEE Journal on Multiscale and Multiphysics Computational Techniques</i> , 2021 , 1-1	1.5	1
13	. <i>IEEE Transactions on Antennas and Propagation</i> , 2020 , 68, 3145-3153	4.9	1
12	Lamb Wave Resonator Loaded Non-reciprocal RF Devices 2020 ,		1
11	Parametric Downconverter for Mixer-First Receiver Front Ends. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2021 , 69, 2712-2721	4.1	1
10	Adaptive Equalization Super-Resolution Time Delay Estimation with High Accuracy and Low Complexity 2019 ,		1
9	High Bandwidth Electrically Small Antennas Through BFSK Direct Antenna Modulation 2018 ,		1
8	Multiphysics Time-Domain Modeling of Nonlinear Permeability in Thin-film Magnetic Material 2018 ,		1
7	. <i>IEEE Sensors Journal</i> , 2021 , 21, 18075-18084	4	1
6	Parametrically enhanced bandpass filters. <i>IET Microwaves, Antennas and Propagation</i> , 2021 , 15, 229-240	1.6	1
5	Sub-6 GHz High FOM Liquid Crystal Phase Shifter for Phased Array Antenna. <i>IEEE Journal of Microwaves</i> , 2022 , 2, 316-325		1
4	Toward a Spectrally Efficient FSK Direct Antenna Modulation. <i>IEEE Access</i> , 2020 , 8, 199462-199469	3.5	0
3	Non-degenerate parametric mixing and Q-enhancement in ALN Lamb wave resonator. <i>Applied Physics Letters</i> , 2021 , 118, 254101	3.4	0
2	\$X\$ -band DCDC Power Converter for High-Speed Bit-Stream Modulation. <i>IEEE Microwave and Wireless Components Letters</i> , 2018 , 28, 46-48	2.6	
1	Radio Frequency Precession Modulation Based Magnetic Field Sensors. <i>IEEE Access</i> , 2022 , 1-1	3.5	

