Yuanxun Ethan Wang

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.

125	1,549	18	34
papers	citations	h-index	g-index
177	2,102 ext. citations	3.4	4.93
ext. papers		avg, IF	L-index

#	Paper	IF	Citations
125	Radio Frequency Precession Modulation Based Magnetic Field Sensors. <i>IEEE Access</i> , 2022 , 1-1	3.5	
124	Sub-6 GHz High FOM Liquid Crystal Phase Shifter for Phased Array Antenna. <i>IEEE Journal of Microwaves</i> , 2022 , 2, 316-325		1
123	Enhanced Planar Antenna Efficiency Through Magnetic Thin-Films. <i>IEEE Journal on Multiscale and Multiphysics Computational Techniques</i> , 2021 , 1-1	1.5	1
122	Parametric Downconverter for Mixer-First Receiver Front Ends. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2021 , 69, 2712-2721	4.1	1
121	Non-degenerate parametric mixing and Q-enhancement in ALN Lamb wave resonator. <i>Applied Physics Letters</i> , 2021 , 118, 254101	3.4	O
120	Ferromagnetic Resonance Enhanced Electrically Small Antennas. <i>IEEE Transactions on Antennas and Propagation</i> , 2021 , 1-1	4.9	2
119	Efficient ULF Transmission Utilizing Stacked Magnetic Pendulum Array (MPA). <i>IEEE Transactions on Antennas and Propagation</i> , 2021 , 1-1	4.9	4
118	. IEEE Sensors Journal, 2021 , 21, 18075-18084	4	1
117	Parametrically enhanced bandpass filters. <i>IET Microwaves, Antennas and Propagation</i> , 2021 , 15, 229-240	1.6	1
116	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
115	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
114	Additive Manufacturing with Strontium Hexaferrite-Photoresist Composite. <i>IEEE Transactions on Magnetics</i> , 2020 , 1-1	2	5
113	. IEEE Journal on Multiscale and Multiphysics Computational Techniques, 2020 , 5, 5-18	1.5	11
112	. IEEE Transactions on Antennas and Propagation, 2020 , 68, 3145-3153	4.9	1
111	. IEEE Transactions on Microwave Theory and Techniques, 2020 , 68, 4479-4490	4.1	3
110	Lamb Wave Resonator Loaded Non-reciprocal RF Devices 2020,		1
109	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

(2018-2020)

108	Frequency conversion through nonlinear mixing in acoustic waves. <i>Journal of Applied Physics</i> , 2020 , 128, 064105	2.5	4
107	Toward a Spectrally Efficient FSK Direct Antenna Modulation. <i>IEEE Access</i> , 2020 , 8, 199462-199469	3.5	Ο
106	High Efficiency Bandwidth Electrically Small Antennas for Compact Wireless Communication Systems 2019 ,		4
105	3D Finite-Difference Time-Domain (FDTD) Modeling of Nonlinear RF Thin Film Magnetic Devices 2019 ,		1
104	Magnetic Pendulum Arrays for Efficient ULF Transmission. <i>Scientific Reports</i> , 2019 , 9, 13220	4.9	9
103	Monolithically Integrated Parametric Mixers with Time-varying Transmission Lines (TVTL) 2019,		1
102	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
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, 3221-32	22 ⁴ .1	14
100	Adaptive Communications with Swarm Aperture 2019 ,		3
99	Adaptive Equalization Super-Resolution Time Delay Estimation with High Accuracy and Low Complexity 2019 ,		1
98	Enabling High Efficiency Bandwidth Electrically Small Antennas through Direct Antenna Modulation 2019 ,		4
97	Experimental demonstration and operating principles of a multiferroic antenna. <i>Journal of Applied Physics</i> , 2019 , 126, 224104	2.5	9
96	Full-Duplex RF Front Ends : From Antennas and Circulators to Leakage Cancellation. <i>IEEE Microwave Magazine</i> , 2019 , 20, 44-55	1.2	16
95	Millimeter-wave to microwave MIMO relays (M4R) for 5G building penetration communications 2018 ,		6
94	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
93	\$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	
92	Directly modulated spinning magnet arrays for ULF communications 2018,		10
91	Integrated time-varying electromagnetic devices for ultra-wide band nonreciprocity 2018,		8

90	On Time-Modulation-Enabled Nonreciprocity. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2018 , 17, 1973-1977	3.8	3
89	. IEEE Transactions on Microwave Theory and Techniques, 2018 , 66, 2683-2696	4.1	12
88	Magnetic Pendulum Arrays for ULF Transmission 2018,		5
87	Multipath Mitigation Using Weight Suppression for Equalization in Indoor Positioning Systems 2018 ,		2
86	High Bandwidth Electrically Small Antennas Through BFSK Direct Antenna Modulation 2018,		1
85	Multiphysics Time-Domain Modeling of Nonlinear Permeability in Thin-film Magnetic Material 2018,		1
84	Ultra-Wide Band Non-reciprocity through Sequentially-Switched Delay Lines. <i>Scientific Reports</i> , 2017 , 7, 40014	4.9	52
83	Active Noise Filtering for \$X\$ -Band GaN Transmitters With Bitstream Modulations. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2017 , 65, 1372-1380	4.1	1
82	Frequency translational RF receiver with time varying transmission lines (TVTL) 2017,		4
81	Frequency shift keying for direct antenna modulation (DAM) with electrically small antenna 2017,		3
80	Tunable RF bandpass filter for interference suppression in software defined radios 2017,		3
79	Going beyond Chu harrington limit: ULF radiation with a spinning magnet array 2017,		10
78	A nonreciprocal, frequency-tunable notch amplifier based on Distributedly Modulated Capacitors (DMC) 2016 ,		3
77	Broadband Parametric Circulator with Balanced Monolithic Integrated Distributedly Modulated Capacitors (DMC) 2016 ,		19
76	An \$X\$ -Band Pulsed Load Modulation Transmitter With Multilevel Envelope DeltaBigma Modulations. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2016 , 64, 3643-3653	4.1	3
75	3D ADI-FDTD modeling of platform reduction with thin film ferromagnetic material 2016 ,		9
74	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
73	A pulsed load modulation (PLM) power amplifier with 3-level envelope delta-sigma modulation (EDSM) 2015 ,		2

72	FDTD analysis of platform effect reduction with thin film ferrite 2015,	1
71	Transmit-receive (T/R) isolation enhancement with an indented antenna array 2015,	4
70	Indented antenna array for full-duplex repeater 2015 ,	1
69	Indented quasi-Yagi antenna array for high-isolation full-duplex radios 2015,	2
68	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
67	Nonreciprocal Components With Distributedly Modulated Capacitors. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2014 , 62, 2260-2272	143
66	Time-varying transmission lines (TVTL) - A new pathway to non-reciprocal and intelligent RF front-ends 2014 ,	8
65	A modified QPSK modulation technique for direct antenna modulation (DAM) systems 2014,	8
64	Parametric conversion with distributedly modulated capacitors (DMC) for low-noise and non-reciprocal RF front-ends 2013 ,	12
63	Link Budget and Capacity Performance of Inductively Coupled Resonant Loops. <i>IEEE Transactions</i> on Antennas and Propagation, 2012 , 60, 2453-2461	49
62	Direct Antenna Modulation scheme for enhanced capacity performance of near-field communication link 2012 ,	3
61	Analysis and experimental results for an inductively coupled near-field power transmission system 2012 ,	1
60	Impact of receiver coil misalignment on near-field communication system performance 2012,	1
59	A direct antenna modulation (DAM) transmitter with a switched electrically small antenna 2010,	17
58	High Efficiency WCDMA Power Amplifier With Pulsed Load Modulation (PLM). <i>IEEE Journal of Solid-State Circuits</i> , 2010 , 45, 2030-2037	18
57	A high efficiency WCDMA power amplifier with Pulsed Load Modulation (PLM) 2010 ,	4
56	A Pulsed Load Modulation (PLM) Power Amplifier with 0.35th pHEMT Technology 2009,	1
55	Dual-band isotropic radiation patterns from a printed electrically small loop-loaded dipole antenna. Digest / IEEE Antennas and Propagation Society International Symposium, 2009,	2

54	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
53	The folded dipole perspective of electrical small spherical helix antennas 2008,		1
52	Mode-Based Information Channels in Closely Coupled Dipole Pairs. <i>IEEE Transactions on Antennas and Propagation</i> , 2008 , 56, 3804-3811	4.9	34
51	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
50	Capacity performance of an inductively coupled near field communication system 2008,		42
49	A "Zoom-in" Scanning Array for Wireless Communications 2007,		4
48	A planar multipolar antenna for MIMO applications 2007,		6
47	A Polar Delta-Sigma Modulation (PDSM) Scheme for High Efficiency Wireless Transmitters. <i>IEEE MTT-S International Microwave Symposium</i> , 2007 ,		13
46	Wideband Pulse Transmission from Switched Electrically Small Antennas 2007,		4
45	On the limit of wireless communication capacity from polarization diversity 2006,		1
44	Theory of Switched RF Resonators. <i>IEEE Transactions on Circuits and Systems Part 1: Regular Papers</i> , 2006 , 53, 2521-2528		41
43	A \$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
42	A UWB Pulse Transmission Scheme - Switched Resonant Antenna 2006,		1
41	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
40	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
39	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
38	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
37	A frequency-controlled active phased array. <i>IEEE Microwave and Wireless Components Letters</i> , 2004 , 14, 115-117	2.6	16

(1998-2004)

36	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
35	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
34	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
33	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
32	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
31	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
30	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
29	. IEEE Transactions on Microwave Theory and Techniques, 2002 , 50, 3059-3063	4.1	7
28	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
27	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
26	A new circuit topology for continuous group delay synthesis. <i>IEEE Microwave and Wireless Components Letters</i> , 2002 , 12, 85-87	2.6	2
25	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
24	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
23	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
22	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
21	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
20	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
19	. IEEE Transactions on Aerospace and Electronic Systems, 1998 , 34, 670-677	3.7	156

18	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	2
17	A broadband beamformer for millimeter-wave systems using sub-band sampling	3
16	A radar target transceiver using a full duplex capable retrodirective array system	3
15	Direct antenna modulation - a promise for ultra-wideband (UWB) transmitting	4
14	A self-calibration antenna array system with moving apertures	1
13	An improved Kahn transmitter architecture based on delta-sigma modulation	4
12	A 60 GHz integrated antenna array for high-speed digital beamforming applications	3
11	A high-speed adaptive antenna array with simultaneous multiple-beamforming capability	1
10	A single RF channel smart antenna receiver array with digital beamforming for WLAN application	1
9	A digital leakage cancellation scheme for monostatic FMCW radar	5
8	High performance SMILE arrays through an energy efficient multiplexer	1
7	A novel planar array smart antenna system with hybrid analog-digital beamforming	9
6	Millimeter wave direct quadrature converter integrated with antenna for broad-band wireless communication	ons3
5	Integrated adaptive beamforming antennas for wireless communications	1
4	A novel K-band frequency-controlled beam-steering quasi-Yagi array with mixing frequency compensation	4
3	A frequency autonomous retrodirective array transponder	6
2	A smart antenna receiver array using a single RF channel and digital beamforming	6
1	A class-S RF amplifier architecture with envelope delta-sigma modulation	13