

Chao Yu

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.

88

papers

1,422

citations

16

h-index

36

g-index

120

ext. papers

2,127

ext. citations

2.8

avg, IF

4.92

L-index

#	Paper	IF	Citations
88	Self-Sensing Digital Predistortion of RF Power Amplifiers for 6G Intelligent Radio. <i>IEEE Microwave and Wireless Components Letters</i> , 2022 , 1-4	2.6	2
87	Highly Efficient Wideband GaN MMIC Doherty Power Amplifier Considering the Output Capacitor Influence of the Peaking Transistor in Class-C Operation. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2022 , 1-11	3.9	1
86	Harmonic Suppression of a Three-Stage 25-31-GHz GaN MMIC Power Amplifier Using Elliptic Low-Pass Filtering Matching Network. <i>IEEE Microwave and Wireless Components Letters</i> , 2022 , 1-4	2.6	0
85	Multidimensional Magnitude-Selective Affine-Function-Based Behavioral Model for Multiband Digital Predistortion of RF Power Amplifiers. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2022 , 1-1	4.1	
84	A Wideband Circularly Polarized Magneto-Electric Dipole Antenna Array for Millimeter-Wave Applications. <i>IEEE Transactions on Antennas and Propagation</i> , 2021 , 1-1	4.9	3
83	Digital Predistortion of 5G Multiuser MIMO Transmitters Using Low-Dimensional Feature-Based Model Generation. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2021 , 1-1	4.1	1
82	The Threshold Optimization of the Canonical Piecewise Linear Function-Based Model for RF PA Linearization. <i>IEEE Microwave and Wireless Components Letters</i> , 2021 , 1-4	2.6	0
81	Design Methodology Using Single Resonate Block for Harmonic Impedance Matching in GaN MMIC Doherty Amplifier. <i>IEEE Microwave and Wireless Components Letters</i> , 2021 , 31, 397-400	2.6	3
80	Modified load-modulation network with two E-type high-pass equivalent $\lambda/4$ lines for wideband compact GaN MMIC Doherty power amplifier design. <i>Electronics Letters</i> , 2021 , 57, 639-641	1.1	1
79	The Threshold Optimization of the Canonical Piecewise Linear Function-Based Model With a Modified Quadratic SPSA. <i>IEEE Microwave and Wireless Components Letters</i> , 2021 , 31, 612-615	2.6	1
78	Bandwidth-extended single-input switchable Doherty power amplifier based on dual compensating reactance with adjusted drain voltage. <i>IET Microwaves, Antennas and Propagation</i> , 2021 , 15, 1577-1593	1.6	1
77	Dynamic behavioral modeling of RF power amplifiers based on decomposed piecewise machine learning technique. <i>International Journal of Microwave and Wireless Technologies</i> , 2021 , 13, 315-321	0.8	0
76	A wideband dual-polarized magneto-electric dipole antenna for millimeter wave applications. <i>Microwave and Optical Technology Letters</i> , 2021 , 63, 1452-1457	1.2	2
75	A new augmented support vector regression-based behavioral model for multi-device power amplifiers. <i>Microwave and Optical Technology Letters</i> , 2021 , 63, 455-458	1.2	1
74	An Orthogonal Hybrid Analog/Digital Multibeam Antenna Array for Millimeter-Wave Massive MIMO Systems. <i>IEEE Transactions on Antennas and Propagation</i> , 2021 , 69, 1393-1403	4.9	16
73	Directed Graph Navigated Digital Predistortion of mmWave Power Amplifiers for 6G Hopping Applications. <i>IEEE Microwave and Wireless Components Letters</i> , 2021 , 1-1	2.6	2
72	Digital Predistortion for Concurrent Dual-band Millimeter Wave Analog Multibeam Transmitters. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2021 , 1-1	3.5	1

71	Compact SIW Fed Dual-Port Single Element Annular Slot MIMO Antenna for 5G mmWave Applications. <i>IEEE Access</i> , 2021 , 9, 91995-92002	3.5	9
70	The Role of Millimeter-Wave Technologies in 5G/6G Wireless Communications. <i>IEEE Journal of Microwaves</i> , 2021 , 1, 101-122		79
69	Data-Clustering-Assisted Digital Predistortion for 5G Millimeter-Wave Beamforming Transmitters With Multiple Dynamic Configurations. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2021 , 69, 1805-1816	4.1	7
68	SIW Cavity-Fed Filtennas for 5G Millimeter-Wave Applications. <i>IEEE Transactions on Antennas and Propagation</i> , 2021 , 69, 5269-5277	4.9	17
67	A Band-Limited Magnitude-Selective Affine Function-Based Model for Digital Predistortion of 5G Broadband Power Amplifiers. <i>IEEE Microwave and Wireless Components Letters</i> , 2021 , 1-4	2.6	
66	Linearization Angle Widened Digital Predistortion for 5G MIMO Beamforming Transmitters. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2021 , 1-1	4.1	3
65	Low-Profile, Broadband, Dual-Linearly Polarized, and Wide-Angle Millimeter-Wave Antenna Arrays for Ka-Band 5G Applications. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2021 , 1-1	3.8	8
64	Over-the-air Behavioral Modeling of Millimeter Wave Beamforming Transmitters with Concurrent Dynamic Configurations Utilizing Heterogenous Neural Network 2020 ,		4
63	A Combined Broadband Model for GaN HEMTs in Admittance Domain Based on Canonical Piecewise Linear Functions. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2020 , 68, 5042-5054	4.1	4
62	Design and Implementation of a Wideband Antenna Subarray for Phased-Array Applications. <i>IEEE Transactions on Antennas and Propagation</i> , 2020 , 68, 6059-6068	4.9	1
61	Design and Implementation of a Full-Digital Beamforming Array With Nonreciprocal Tx/Rx Beam Patterns. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2020 , 19, 1978-1982	3.8	8
60	A N260 Band 64 Channel Millimeter Wave Full-Digital Multi-Beam Array for 5G Massive MIMO Applications. <i>IEEE Access</i> , 2020 , 8, 47640-47653	3.5	14
59	Linear-Decomposition Digital Predistortion of Power Amplifiers for 5G Ultrabroadband Applications. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2020 , 68, 2833-2844	4.1	9
58	A 2-D Simplified Memory Polynomial Model for Concurrent Dual-Band Power Amplifiers. <i>IEEE Microwave and Wireless Components Letters</i> , 2020 , 30, 761-763	2.6	2
57	Multibeam Digital Predistortion for Millimeter-Wave Analog Beamforming Transmitters. <i>IEEE Microwave and Wireless Components Letters</i> , 2020 , 30, 209-212	2.6	9
56	Polynomial-Assisted Neural Network Behavioral Model of Wideband Radio Frequency Power Amplifiers for 5G New Radio 2020 ,		1
55	Digital Predistortion of 5G Massive MIMO Wireless Transmitters Based on Indirect Identification of Power Amplifier Behavior With OTA Tests. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2020 , 68, 316-328	4.1	32
54	Single-Receiver Over-the-Air Digital Predistortion for Massive MIMO Transmitters With Antenna Crosstalk. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2020 , 68, 301-315	4.1	17

53	OTA-Based Data Acquisition and Signal Separation for Digital Predistortion of Multi-User MIMO Transmitters in 5G 2020 ,		2
52	Highly Isolated Compact Tri-Band MIMO Antenna with Trapezoidal Defected Ground Plane for 5G Communication Devices 2020 ,		1
51	Compact Millimeter-Wave Endfire Dual-Polarized Antenna Array for Low-Cost Multibeam Applications. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2020 , 19, 2526-2530	3.8	17
50	Digital Predistortion of Millimeter-Wave Multi-beam Transmitters with Digital Beam-forming Network 2019 ,		1
49	Full-Angle Digital Predistortion of 5G Millimeter-Wave Massive MIMO Transmitters. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2019 , 67, 2847-2860	4.1	39
48	A Metasurface-Based Multilayer Wideband Circularly Polarized Patch Antenna Array With a Parallel Feeding Network for Q-Band. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2019 , 18, 1208-1212	3.8	13
47	Bayesian Inference-Based Behavioral Modeling Technique for GaN HEMTs. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2019 , 67, 2291-2301	4.1	13
46	In-Band Digital Predistortion for Concurrent Dual-Broadband Phased Array Transmitters. <i>IEEE Microwave and Wireless Components Letters</i> , 2019 , 29, 294-296	2.6	7
45	Compact and Low-Phase-Noise Oscillator Employing Multilayer Sixteenth-Mode Substrate-Integrated Waveguide Filter for 5G Applications. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , 2019 , 9, 1863-1871	1.7	6
44	Pattern Sensing Based Digital Predistortion of RF Power Amplifiers under Dynamical Signal Transmission 2019 ,		2
43	Millimeter-Wave RF Designs 2019 , 1-19		1
42	Improved Three-Stage Doherty Amplifier Design With Impedance Compensation in Load Combiner for Broadband Applications. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2019 , 67, 778-786	4.1	45
41	. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2019 , 67, 533-543	4.1	26
40	Support Vector Regression-Based Behavioral Modeling Technique for RF Power Transistors. <i>IEEE Microwave and Wireless Components Letters</i> , 2018 , 28, 428-430	2.6	43
39	Digital predistortion of phased array transmitters with multi-channel time delay 2018 ,		8
38	Envelope Preformulation Digital Predistortion for Concurrent Dual-Band Power Amplifiers with Improved Performance and Stability. <i>IEEE Microwave and Wireless Components Letters</i> , 2018 , 28, 449-451 ^{2.6}	2.6	1
37	Minimum pulse reservation-based switching frequency reduction for wideband supply modulated power amplifiers. <i>Electronics Letters</i> , 2018 , 54, 1009-1011	1.1	
36	Support vector regression-based dynamic behavioral modeling for RF power amplifiers 2018 ,		3

35	A 2-D-Canonical Piecewise Linear Function-Based Behavioral Model for Concurrent Dual-Band Power Amplifiers. <i>IEEE Microwave and Wireless Components Letters</i> , 2018 , 28, 1050-1052	2.6	4
34	A postmatching concurrent dual-band Doherty power amplifier with enhanced bandwidth. <i>International Journal of RF and Microwave Computer-Aided Engineering</i> , 2018 , 28, e21514	1.5	3
33	High-Precision Joint In-Band/Out-of-Band Distortion Compensation Scheme for Wideband RF Power Amplifier Linearization. <i>IEEE Microwave and Wireless Components Letters</i> , 2018 , 28, 1044-1046	2.6	3
32	Pattern Recognition of RF Power Amplifier Behaviors with Multilayer Perceptron 2018 ,		2
31	A Digital Multibeam Array With Wide Scanning Angle and Enhanced Beam Gain for Millimeter-Wave Massive MIMO Applications. <i>IEEE Transactions on Antennas and Propagation</i> , 2018 , 66, 5827-5837	4.9	37
30	A Doherty Power Amplifier with Large Back-Off Power Range Using Integrated Enhancing Reactance. <i>Wireless Communications and Mobile Computing</i> , 2018 , 2018, 1-8	1.9	2
29	A Uniform Digital Predistorter for Concurrent Multiband Envelope Tracking RF Power Amplifiers With Different Envelopes. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2018 , 66, 3947-3957	4.1	1
28	. <i>IEEE Transactions on Antennas and Propagation</i> , 2018 , 66, 7021-7031	4.9	15
27	A Dual-Input Canonical Piecewise-Linear Function-Based Model for Digital Predistortion of Multi-Antenna Transmitters 2018 ,		4
26	An Overview of China Millimeter-Wave Multiple Gigabit Wireless Local Area Network System. <i>IEICE Transactions on Communications</i> , 2018 , E101.B, 262-276	0.5	4
25	Digital Predistortion of Ultra-Broadband mmWave Power Amplifiers with Limited Tx/Feedback Loop/Baseband Bandwidth. <i>Wireless Communications and Mobile Computing</i> , 2018 , 2018, 1-11	1.9	7
24	Multibeam Antenna Technologies for 5G Wireless Communications. <i>IEEE Transactions on Antennas and Propagation</i> , 2017 , 65, 6231-6249	4.9	396
23	A Band-Limited Canonical Piecewise-Linear Function-Based Behavioral Model for Wideband Power Amplifiers. <i>IEEE Microwave and Wireless Components Letters</i> , 2017 , 27, 1022-1024	2.6	7
22	A reconfigurable in-band digital predistortion technique for mmWave power amplifiers excited by a signal with 640 MHz modulation bandwidth 2017 ,		1
21	Near-band digital predistortion for wideband power amplifiers with mmWave non-contiguous carrier aggregation. <i>Electronics Letters</i> , 2017 , 53, 1366-1368	1.1	4
20	A WIDEBAND DOHERTY POWER AMPLIFIER WITH SHUNTED REACTIVE LOAD FOR EFFICIENCY ENHANCEMENT. <i>Progress in Electromagnetics Research C</i> , 2017 , 74, 151-160	0.9	
19	A band-limited CPWL-based memory polynomial model for digital predistortion 2017 ,		1
18	Analog Assisted Multichannel Digital Postcorrection for Time-Interleaved ADCs. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2016 , 63, 773-777	3.5	5

17	2016,			1
16	Single-Model Single-Feedback Digital Predistortion for Concurrent Multi-Band Wireless Transmitters. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2015 , 63, 2211-2224	4.1		13
15	A new extraction method of nonlinear behavioral model for RF power transistor 2015,			1
14	Power Adaptive Digital Predistortion for Wideband RF Power Amplifiers With Dynamic Power Transmission. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2015 , 63, 3595-3607	4.1		29
13	Digital Compensation for Transmitter Leakage in Non-Contiguous Carrier Aggregation Applications With FPGA Implementation. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2015 , 63, 4306-4318 ^{4.1}			15
12	Behavioral Modeling and Predistortion of Power Amplifiers Under Sparsity Hypothesis. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2015 , 63, 745-753	4.1		82
11	Output-Controllable Partial Inverse Digital Predistortion for RF Power Amplifiers. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2014 , 62, 2499-2510	4.1		10
10	Frequency component controllable digital predistortion of RF power amplifiers 2014,			1
9	Single feedback loop-based digital predistortion for linearizing concurrent multi-band transmitters 2014,			11
8	A band-limited 2-D digital predistorter for concurrent dual-band RF transmitters 2014,			5
7	High-performance digital predistortion test platform development for wideband RF power amplifiers. <i>International Journal of Microwave and Wireless Technologies</i> , 2013 , 5, 149-162	0.8		14
6	Band-limited Volterra series-based behavioral modeling of RF power amplifiers 2012,			1
5	Bandwidth-constrained least squares-based model extraction for band-limited digital predistortion of RF power amplifiers 2012,			11
4	Band-Limited Volterra Series-Based Digital Predistortion for Wideband RF Power Amplifiers. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2012 , 60, 4198-4208	4.1		153
3	A Single Envelope Modulator-Based Envelope-Tracking Structure for Multiple-Input and Multiple-Output Wireless Transmitters. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2012 , 60, 3317-3327	4.1		19
2	Ultrawideband Printed Log-Periodic Dipole Antenna With Multiple Notched Bands. <i>IEEE Transactions on Antennas and Propagation</i> , 2011 , 59, 725-732	4.9		62
1	Frequency notched wideband printed directional antennas 2010,			1